



IAC 2015
Jerusalem

www.iac2015.org

66th IAC

International Astronautical Congress

Final Programme

12 - 16 October 2015
Jerusalem, Israel



*Space – The Gateway for
Mankind's Future*





70th IAC
ORLANDO, FLORIDA
2019

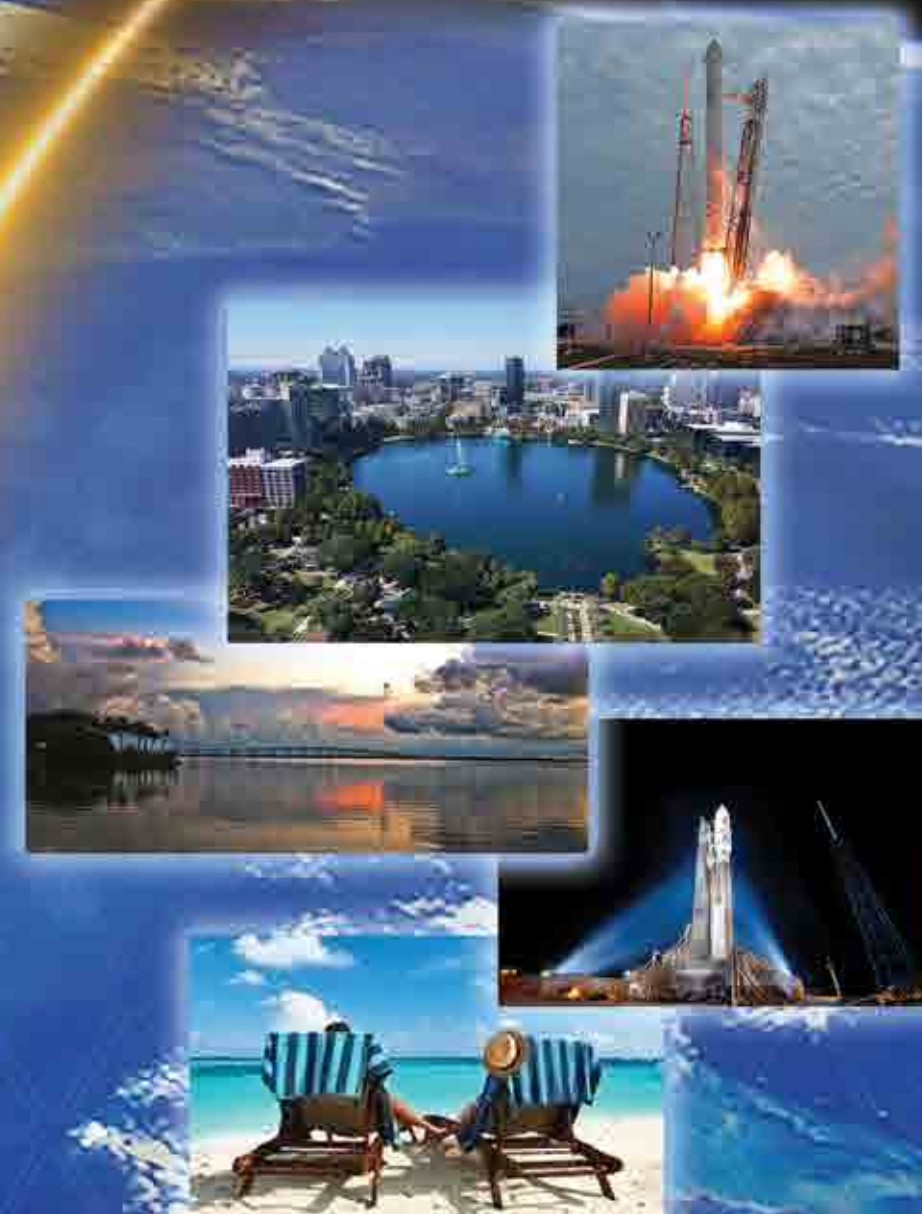
Bridge to the future. Gateway to Space.

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"The greatest moments in the history of space, and the exciting and promising systems and programs of the future, are in one place — Florida's space coast. As Honorary Chairman of the 70th IAC Orlando team, I invite you to join us for the 50th Anniversary of Apollo 11, the best of Mercury, Gemini, Apollo, Shuttle and ISS, and to touch our future among the stars. For the 50th anniversary of the first moon landing, and the 70th anniversary of the IAC, we invite you to the world's Gateway to Space, and our Bridge to the Future, in Florida, USA."

Buzz Aldrin, PhD
Astronaut, Gemini 12 and Apollo 11
Honorary Chairman, 70th IAC Orlando



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Creating New Value for the Society and the Earth

Japanese Experiment Module
"Kibo"



Japan Aerospace Exploration Agency

<http://global.jaxa.jp/>

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1 Welcome Messages

1.1 Message from the President of the International Astronautical Federation



Welcome to the 66th International Astronautical Congress in Jerusalem!

This is the second time the IAF comes to Jerusalem, a beautiful city – a promise for an inspiring event! Our hosts for this Congress have selected a very fitting theme: Space as the Gateway for Mankind's Future. Space is synonymous of excellence, expertise, technology, development, and communications: all the key elements to prepare a better environment for mankind's lives in the future. A theme is very close to the IAF mission of creating a space-faring world cooperating for the benefit of humanity.

It is with great satisfaction that I introduce to you the result of hard work completed by the integrated teams of the International Programme Committee, the Local Organizing Committee, and the IAF Secretariat.

In this IAC 2015 Final Programme, you will find information about exciting Plenary Events, Global Networking Forum, Exhibitions and all the associated events complementing the needs of the whole space community.

In addition, an extraordinary Technical Programme is ready for you. Thanks to your participation, this year's IAC will be a real success!

Enjoy your preferred time of the year connecting space people, taking advantage of the exquisite food and discovering all the technical tours and the fun nights!

Kiyoshi Higuchi
President
International Astronautical Federation



1.2 Message from the Local Organising Committee



Dear Colleagues and Friends,
Welcome to IAC 2015 Jerusalem!

Please accept my warmest welcome and deepest appreciation for hosting all of you here in Jerusalem, an exceptional location for this great IAC 66th congress, and an incredible city to visit.

Jerusalem, symbolizing spiritual significance for multiple religions and cultures for over 3000 years, now provides the one stunning background for IAC 2015 – a conference binding the forefronts of science, technology, and future exploration. I truly hope that the contrast embodied within this holy place, inspired by the continuum of human history, shall come to stimulate a productive dialogue among us all.

It is well known that every visitor to Jerusalem is touched on many emotional dimensions. I believe that this exclusive "Jerusalem experience" shall uplift each and every attendee on a very personal level, enabling us all to have a successful, fruitful, and uniquely rewarding event.

I am sure that amalgamating the IAC 2015 Congress with domestic and international space Industry and enterprises formulates an extremely rich and unique program and congress, with meaningful exchange between industries, scientists, academia, and professionals.

The Ministry of Science, Technology and Space, and the Israel Space Agency sincerely undertake to provide the Congress' participants with an experience full of enjoyment and gratification; including the scientific and academia sessions, social gathering and education events, exceptional tourism, faultless logistics and security arrangement.

Menachem Kidron,
LOC Chair & Director General – Israel Space Agency
Ministry of Science, Technology & Space



1.3 Message from the International Programme Committee (IPC) Co-Chairs

Dear Colleagues and Friends,

We are proud to welcome you to the 66th International Astronautical Congress being held in Jerusalem. Israel has hosted the IAC with great success back in 1996, also in Jerusalem. The theme of this year's IAC is "Space – The Gate way for Mankind's Future". The IAC 2015 presents an outstanding opportunity and an example to the mode in which scientists share their knowledge, to promote the development of Space Sciences, which are critical to mankind survival and future. The Significant Achievements in Space Technologies help mankind in almost every aspect in our life. A very comprehensive programme has been prepared by the International Program Committee. The participants will enjoy very rich and diverse technical sessions - highlight lectures, Plenary Sessions and activities such as professional tours, the young professional virtual forum, the Moot court, the International Meeting for Members of Parliaments and professional workshops. Many innovations such as the Interactive Presentations are presented for the first time in an IAC. Besides the professional program, the organizers are offering more activities: Tours to the unique sites of the Holy Land – from the holy places in Jerusalem and Nazareth to the dead sea, the sea of Galilee and more. Outreach activities all over Israel during the IAC will bring space closer to kids and students. Keep yourselves updated about the IAC activities in the 66th IAC Website and through the mobile application. We are pleased to welcome you in Jerusalem and hope you will get the most from this congress. We would like to thank all the authors and speakers in the IAC and also thank the IAF Secretariat, the IPC, and the Local Organizing Committee for their help in preparing this 66th IAC. Welcome to Jerusalem and enjoy the 66th IAC!



Igal Patel
Director of the Givatayim Observatory and chairman of the Israeli Astronomical Association



Sandra Ramirez
Professor at Autonomous University of Morelos State (UAEM)

Co-Chairs
International Program Committee



2 Organisers

2.1 The International Astronautical Federation

Created in 1951 to foster dialogue between scientists around the world, and to support international cooperation in all space-related activities, the IAF to this day continues to connect space people. The Federation is the world's leading space advocacy body with over 270 members, including all key space agencies, companies, societies, associations and institutes across across 6 continents and 62 countries. Over 40 administrative and technical committees support the Federation in its mission to advance knowledge about space and to foster the development of space assets by facilitating global cooperation. At its annual International Astronautical Congress (IAC) and other thematic conferences, the IAF brings its multidisciplinary and international network to life.

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IAF Member Organisations 2015

A9C Capital	Bahrain	Association Dedicated to Development in Astronautics (A.D.D.A)	Romania
Access e.V.	Germany	Association of Arab Remote Sensing Centers (AARSC)	Libya
Advanced Instrumentation and Technology Centre (AITC)	Australia	Association of Space Explorers (ASE)	United States
Aerojet Rocketdyne	United States	Associazione Italiana di Aeronautica e Astronautica (AIDAA)	Italy
Aerospace Research Institute	Iran	Astronautic Technology SDN BHD	Malaysia
Agence Spatiale Algérienne (ASAL)	Algeria	Astronautical Society of India	India
Agencia Espacial Mexicana (AEM)	Mexico	ATUCOM - Tunisian Association for Communication and Space Sciences	Tunisia
Agrupacion Astronautica Espanola	Spain	Austrian Research Promotion Agency	Austria
Airbus Defence and Space Ltd	United Kingdom	Beihang University	China
Airbus Defence and Space Netherlands B.V.	The Netherlands	Beijing Sunwise Space Technology Ltd.	China
Airbus Defence and Space SA	Spain	Belgian Federal Science Policy Office (BELSPO)	Belgium
Airbus Defence and Space SAS	France	Brazilian Space Agency (AEB)	Brazil
Airbus DS GmbH	Germany	Bulgarian Aerospace Agency	Bulgaria
American Astronautical Society (AAS)	United States	California Polytechnic State University	United States
American Institute of Aeronautics and Astronautics (AIAA)	United States	Canadian Aeronautics & Space Institute (CASI)	Canada
Andøya Space Center	Norway	Canadian Space Agency	Canada
Arianespace	France	Canadian Space Society	Canada
Asher Space Research Institute (ASRI)	Israel		
Association Aéronautique & Astronautique de France (3AF)	France		

Center for Planetary Science and Exploration, Western University	Canada	EURISY	France	Intelligent Materials and Systems Lab, University of Tartu	Estonia	National Aeronautics and Space Administration (NASA)	United States
Central Research Institute for Machine Building (FGUP TSNIIMASH)	Russian Federation	Euro Space Center	Belgium	International Association for the Advancement of Space Safety	The Netherlands	National Aerospace Agency (NASA) of Azerbaijan Republic	Azerbaijan
Centre for Mechanical and Aerospace Science and Technologies (C-MAST)	Portugal	Euroconsult	Germany	International Institute of Space Commerce	France	National Aerospace Educational Centre of Youth	Ukraine
Centre National de la Cartographie et de la Teledetection (CNCT)	Tunisia	European Conference for Aero-Space Sciences (EUCASS)	France	International Lunar Observatory Association	United States	National Aerospace Laboratory (NLR)	The Netherlands
Centre National d'Etudes Spatiales (CNES)	France	European Space Agency (ESA)	Austria	International Space University (ISU)	France	National Oceanic and Atmospheric Administration (NOAA)	United States
Centre Royal de Teledetection Spatiale	Morocco	European Space Policy Institute (ESPI)	France	Internationaler Förderkreis für Raumfahrt – Hermann Oberth – Wernher von Braun e.V.	Germany	National Space Agency of Malaysia (ANGKASA)	Malaysia
Centro de Investigacion y Difusion Aeronautico Espacial (CIDA-E)	Uruguay	Eurospace	Turkey	Invap S.E.	Argentina	National Space Centre	Ireland
CGS S.p.A. Compagnia Generale per lo Spazio	Italy	Faculty of Aviation and Space Sciences, Necmettin Erbakan University	United States	Iranian Space Agency	Iran	National Space Research and Development Agency (NASRDA)	Nigeria
China Head Aerospace Technology Co.	China	Federacion Argentina Astronautica (FAA)	United States	Israel Aerospace Industries. Ltd.	Israel	NEC Corporation	Japan
Chinese Society of Astronautics (CSA)	China	Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST)	United States	Israel Space Agency	Israel	Neptec Design Group	Canada
CIRA Italian Aerospace Research Centre	Italy	Federal Space Agency (ROSCOSMOS)	Russian Federation	Istanbul Technical University	Turkey	Netherlands Space Office (NSO)	The Netherlands
Cluster of Serbian Aeronautical Industry - UVIS	Serbia	Finnish Astronautical Society	Finland	Italian National Research Council - CNR	Italy	Netherlands Space Society (NVR)	The Netherlands
Comision Nacional de Actividades Espaciales (CONAE)	Argentina	Future Space Leaders Foundation	United States	Italian Space Agency (ASI)	Italy	Nigerian Meteorological Agency	Nigeria
Commission d'Astronautique de l'Academie Roumaine	Romania	General Organization of Remote Sensing (GORS)	Syria	Japan Aerospace Exploration Agency (JAXA)	Japan	Norsk Astronautisk Forening	Norway
Cosmoexport Aerospace Research Agency	Russian Federation	Geo-Informatics and Space Technology Development Agency (GISTDA)	Thailand	Japan Manned Space Systems Corporation (JAMSS)	Japan	Norwegian Space Centre	Norway
Croatian Astronautical and Rocket Federation (HARS)	Croatia	Georgia Institute of Technology, School of Aerospace Engineering	United States	Japan Society for Aeronautics and Space Sciences (JSASS)	Japan	Novespace	France
CSIRO Astronomy & Space Science	Australia	German Aerospace Industries Association (BDLI)	Germany	Japanese Rocket Society	Japan	Odyssey Space Research	United States
CSL (Centre Spatial de Liège)	Belgium	GIFAS	France	Joanneum Research	Austria	Office National d'Etudes et de Recherches Aérospatiales (ONERA)	France
Curtin University	Australia	GKN Aerospace Engine Systems	Sweden	JSC Glavcosmos	Russian Federation	OHB System AG - Munich	Germany
CVA (Community of Ariane Cities)	France	GMV Aerospace & Defence SAU	Spain	JSC NPO Energomash	Russian Federation	OHB System AG-Bremen	Germany
Cyprus Astronautical Society	Cyprus	GomSpace Aps	Denmark	JSC SRC Progress	Russian Federation	Pakistan Space and Upper Atmosphere Research Commission	Pakistan
Czech Space Alliance	Czech Republic	Graz University of Technology (TU Graz)	Austria	Kenya National Space Secretariat	Kenya	PJSC "Elmiz"	Ukraine
Czech Space Office	Czech Republic	Gumush Aerospace & Defense	Turkey	Khrunichev State Research & Production Space Center	Russian Federation	Polish Academy of Sciences	Poland
Danish Astronautical Society	Denmark	HE Space	The Netherlands	King Abdulaziz City for Science & Technology (KACST)	Saudi Arabia	Polish Astronautical Society	Poland
Dassault Aviation	France	Hungarian Astronautical Society (MANT)	Hungary	Kongsberg Satellite Services AS	Norway	Politecnico di Torino	Italy
Deimos Space S.L.	Spain	IABG Industrieanlagen - Betriebsgesellschaft mbH	Germany	Korea Aerospace Research Institute (KARI)	Korea, Republic of	Proespaço-The Portuguese Association of Space Industries	Portugal
Delft University of Technology	The Netherlands	ICARE-CNRS	France	Korea Astronomy and Space Science Institute	Korea, Republic of	Project Management Institute	United States
Department of Space Studies, University of North Dakota	United States	IHI Aerospace Co, Ltd.	Japan	Kyiv Polytechnic Institute (NTUU "KPI")	Ukraine	QinetiQ Space nv	Belgium
Desà Engineering srl	Italy	Indonesian National Institute of Aeronautics and Space (LAPAN)	Indonesia	Kyushu Institute of Technology	Japan	Rafael Advanced Defense Systems Ltd.	Israel
Deutsche Gesellschaft für Luft- und Raumfahrt, Lilienthal-Oberth e.V. (DGLR)	Germany	Institut Français d'Histoire de l'Espace	France	Lavochkin Association	Russian Federation	Ramirez de Arellano y Abogados, S.C. Law Firm	Mexico
Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)	Germany	Institut Supérieur de l'Aéronautique et de l'Espace (ISAE)	France	Law Offices of Sterns and Tennen	United States	RMIT University, Australia	Australia
Dnipropetrovsk National University	Ukraine	Institute of Space Technology (IST)	Pakistan	Lithuanian Space Association (LSA)	Lithuania	Rocket Research Institute, Inc.	United States
Dniprotekhservice, SPF, LLC	Ukraine	Instituto de Aeronáutica e Espaço (IAE)	Brazil	Lockheed Martin Corporation	United States	Romanian Space Agency (ROSA)	Romania
DTU Space	Denmark	Instituto de Geofísica, Universidad Nacional Autónoma de Mexico	Mexico	M Advisors	Italy	RUAG Space	Switzerland
EADS Sodern	France	Instituto Geográfico Agustín Codazzi (IGAC)	Colombia	MDA Corporation	Canada	Russian Academy of Sciences	Russian Federation
Ecole Polytechnique Fédérale de Lausanne (EPFL)	Switzerland	Instituto Nacional de Pesquisas Espaciais (INPE)	Brazil	Microcosm, Inc.	United States	S.A.B.C.A	Belgium
Ecuadorian Civilian Space Agency (EXA)	Ecuador	Instituto Nacional de Tecnica Aeroespacial (INTA)	Spain	Mitsubishi Electric Corporation	Japan	S.P. Korolev Rocket and Space Corporation Energia	Russian Federation
EMXYS (Embedded Instruments and Systems S.L)	Spain	INSYEN AG	Germany	Mohammed Bin Rashid Space Centre (MBRSC)	United Arab Emirates	Samara State Aerospace University (SSAU)	Russian Federation
Engineers Australia	Australia			Mitsubishi Heavy Industries, Ltd.	Japan	Satrec Initiative	Korea, Republic of
Enterprise Estonia	Estonia			Moscow Aviation Institute	Russian Federation	Secure World Foundation	United States
Eumetsat	Germany			MT Aerospace AG	Germany	SEMECCEL Cité de l'Espace	France
						SENER Ingenieria y Sistemas, S.A.	Spain

Sergio Arboleda University SES	Colombia	Thales Alenia Space Italia	Italy
Shaanxi Engineering Laboratory for Microsatellites	Luxemburg	The Aerospace Corporation	United States
Shamakh Astrophysical Observatory SHOAL	China	The Boeing Company	United States
Sierra Nevada Corporation	Azerbaijan	The British Interplanetary Society	United Kingdom
Sirius XM Radio	Australia	The Chinese Aeronautical and Astronautical Society located in Taipei	China
Sitael Spa	United States	The Fisher Institute for Air and Space Strategic Studies	Israel
Snecma	United States	The Johns Hopkins University Applied Physics Laboratory	United States
South African National Space Agency (SANS)	France	The Korean Society for Aeronautical and Space Sciences	Korea, Republic of
South African Space Association (SASA)	South Africa	The Planetary Society	United States
South Dakota School of Mines and Technology	United States	The Sergei Korolev Space Museum TNO	Ukraine
Space Canada Corporation	Canada	TÜBITAK	The Netherlands
Space Center Houston	United States	Turkish Aerospace Industries	Turkey
Space Commercial Services Holdings (Pty) Ltd	South Africa	U.S. Geological Survey	United States
Space Coordination Office, Department of Industry	Australia	UK Space Agency	United Kingdom
Space Enterprise Partnerships Limited	United Kingdom	University of Alabama in Huntsville	United States
Space Foundation	United States	University of Naples "Federico II"	Italy
Space Generation Advisory Council (SGAC)	Austria	University of South Australia	Australia
Space Industry Association of Australia	Australia	University of the Western Cape	South Africa
Space Policy Institute, George Washington University	United States	University of Vigo	Spain
Space Systems/Loral	United States	University POLITEHNICA of Bucharest - Research Center for Aeronautics and Space	Romania
Space Technology Institute (STI)	Vietnam	University Wuerzburg	Germany
SpaceLand	Italy	UNSW Australia	Australia
SpaceNed	The Netherlands	Victorian Space Science Education Centre	Australia
Spaceteq	South Africa	Vietnam National Satellite Center (VNSC)	Vietnam
SSC	Sweden	Viettel Technologies Joint Stock Company	Vietnam
SSPC "Pryroda"	Ukraine	Virgin Galactic L.L.C	United States
Starsem	France	Vishay Precision Group	United States
State Enterprise Production Association Kyivprylad	Ukraine	VITO nv	Belgium
State Space Agency of Ukraine (SSAU)	Ukraine	von Karman Institute for Fluid Dynamics	Belgium
Stellenbosch University	South Africa	WFB - Wirtschaftsförderung Bremen	Germany
STM (Savunma Teknolojileri Muhendislik ve Ticaret A.S.)	Turkey	Women in Aerospace Europe (WIA-E)	The Netherlands
Surrey Satellite Technology Ltd (SSTL)	United Kingdom	World Space Week Association	United States
Swedish Society for Aeronautics and Astronautics	Sweden	Wyle	United States
SwissSpace Association	Switzerland	X PRIZE Foundation	United States
TAMSAT - The Society of Amateur Satellite Technologies of Turkey	Turkey	Youth Network for Reform, Inc (YONER - LIBERIA)	Liberia
Tartu Observatory	Estonia	Yuzhnoye State Design Office	Ukraine
Techno System Developments S.R.L.	Italy	ZARM Fab GmbH	Germany
Teledyne Brown Engineering	United States		
Telespazio S.p.A.	Italy		
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VP: EDUCATION, WORKFORCE DEVELOPMENT, AND GLOBAL CONFERENCES
Andrea Boese
With deep regret the IAF has to announce that Andrea Boese passed away on 29th August 2015

IAF Secretariat

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Giulia Maria Berardi, Deputy Executive Director
Silvia Antolino, Communications Manager
Myriam Morabet, Projects Manager
Isabella Marchisio, Projects Manager
Valerie Leenhardt, Office Manager

Wang Jia, Projects Manager (Secondment from CSA)
Emma Huis, Projects Assistant
Evelina Hedman, Projects Assistant
Abed Aldaas, Projects Assistant
Elena Feichtinger, Projects Manager (Volunteer)
Michel Arnaud, Advisor to IPC Co-Chairs (Volunteer)

2.2 The International Academy of Astronautics (IAA)

The International Academy of Astronautics (IAA) was founded in 1960 by Theodore von Karman. The Academy is an independent international community of leading experts committed to expanding the frontiers of space, the newest realm of human activity. To foster the development of astronautics, the Academy undertakes a number of activities, including the recognition of outstanding contributors through elections and awards. It also facilitates professional communication, develops and promotes new ideas and initiatives, engages the public, and fosters a sense of community among the members. The IAA is a unique non-governmental organisation established in 1960 and recognised by the United Nations in 1996.

It is an honorary society with an action agenda. With 1200 elected members and corresponding members from 87 nations, it works closely with space agencies, industry, the academic community and the national science and engineering academies to determine needs and objectives and to help shape policy and forge cooperation by means of studies, position papers, conferences and publications. The IAA has published 52 studies to date and is engaged in the preparation of 40 others. The Academy also publishes the journal *Acta Astronautica* containing refereed papers. The Academy now organises 20 conferences per year and regional meetings focused on the development and promotion of new initiatives. This activity also includes, in cooperation with the International Astronautical Federation and the International Institute of Space Law, the traditional contribution to the International Astronautical Congress (IAC), where the Academy organizes 13 Symposia. The Academy also continues to enjoy its participation in the COSPAR Assemblies by sponsoring and co-sponsoring symposia. Although the IAA has many connections to these and other similar organisations, it is distinctive as the only international Academy of elected members in the broad area of astronautics and space.



On Monday 15 June 2015, 27 Heads of Space Agencies or delegations gathered in CNES Headquarters, Paris, France.

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2.3 The International Institute of Space Law (IISL)

Founded in 1960, the International Institute of Space Law (IISL) is an independent non-governmental organisation dedicated to fostering the development of space law. The membership of the Institute is composed of individuals and institutions from more than forty countries, elected on the basis of their contributions to the field of space law or other social sciences related to space activities. Additionally, prospective membership is open to students and young professionals with a demonstrated interest in space law.

Since 1992, the IISL has organized the annual Manfred Lachs Space Law Moot Court Competition. The competition is based on a hypothetical space law case, and is written by IISL members. Approximately sixty student teams from universities in Africa, the Asia Pacific, Europe, and North America participate. The competition is an important part of the organisation's outreach programme, and is its principal mechanism for engaging future generations of space law experts. The regional champions compete in the World Finals, which take place at the IAC and are judged each year by judges of the International Court of Justice. This unique feature makes the Manfred Lachs Moot Court one of the most prestigious moot court competitions in the world.

The IISL is an officially recognized observer at sessions of the United Nations Committee on the Peaceful Uses of Outer Space, and its Scientific & Technical and Legal Subcommittees. In cooperation with the European Centre for Space Law (ECSL), the IISL organizes an annual space law symposium for the delegates and staff attending the sessions of the UNCOPUOS Legal Subcommittee. In addition the Institute organises a variety of conferences on space law throughout the year in locations all over the world. It publishes an annual volume of IISL Proceedings with papers and reports of all these activities during the year.

As one of its main activities, the IISL holds an annual Colloquium at the International Astronautical Congress (IAC). During these Colloquia, the IISL strives to address topics that are of interest to all space actors and invites all IAC attendees to attend and participate in its sessions. The themes of the sessions of this year's Colloquium are:

- E7.1: 7th Nandasiri Jasentuliyana Keynote Lecture on Space Law and Young Scholars Session
- E7.2: The relationship of international humanitarian law and territorial sovereignty with the legal regulation of outer space
- E7.3: The portrayal of Space (Law) in Media and Movies
- E7.4: Legal Issues of Space Traffic Management
- E7.5: Recent Developments in Space Law

During the IAC, the IISL also co-organises annual Scientific-Legal Roundtables with the International Academy of Astronautics (IAA), the 30th of which will be held this year in Jerusalem (E7.6-E3.5 – Universities as Actors in Space). Furthermore, the IISL co-organises a session each year with the IAF (E7.7-B3.8 – Session on the Legal Framework for Collaborative Space Activities).

We hope to see many of you during our 58th Colloquium in Jerusalem and look forward to enriching debates and exchanges!

International Institute of Space Law
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W: www.iislweb.org
F: <https://www.facebook.com/spacelaw>
T: https://twitter.com/iisl_space



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2.4 The Local Organising Committee (LOC)



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Nurit Yirmiya
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Libi Oz
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Opher Doron
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Tsvi Piran
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Eran Ofek
Senior researcher at the Weizmann Institute of Science



Chaim Eseh
ISA Steering Committee



Haim Rousso
Member, National Council for Research & Development



Eyal Halevy
Conference Organizer, Co-Managing Director, Paragon Group

Professional Conference Organiser

Eyal Halevy, Conference Organizer, Co-Managing Director, Paragon Group
Ofer Gil, Conference Organizer, Co-Managing Director, Paragon Group
Nava Alfandari Levy, Registration & Accommodation, Paragon Group
Yael Greenstein-Gal, Project Manager, Paragon Group
Ben Hoffman, Technical Manager, Paragon Group
Matan Madai, Industry Liaison, Paragon Group
Hagar Saad, Logistics & Operation, Paragon Group
Pamela Levi Vaserman, Registration & Accommodation, Paragon Group

A Message from the Minister of Science, Technology and Space



Welcome to Jerusalem,

the Capital of the Jewish people for more than 3000 years. This is the place to which all Jewish people direct their prayers.

I invite you to explore the wonders of this unique city. You will find it both beautiful and spiritual.

As I am sure all participants in the IAC acknowledge, human activity in space influences every aspect of our lives, functioning as a significant force in the global economy. Transportation, communications, finance, and other industries rely on satellites, and this new dependence creates distinct challenges for the security and safety of nations.

A national space program allows the State of Israel to maximize the primary resources that our country has in abundance: highly qualified manpower and a drive toward excellence. In order to maintain its advantage in space, the State of Israel will continue to develop centers of knowledge in both the industrial sector and academic institutions while encouraging the innovation and entrepreneurship that are crucial to success in this age of globalization and information.

The development of an independent space program in a small country like Israel required vision and the investment of significant resources. When the Israeli space program was established, it reflected a keen understanding and foresight – the belief that it was possible to create an impressive infrastructure of academic institutions combined with industry that would enable scientific research and technological development.

Today, Israel is recognized as an increasingly important player in international space research and development.

Space is truly a frontier that not only allows for remarkable scientific discovery but also serves as a bridge uniting peoples and nations in our common quest for understanding and building a better future for humanity. We are therefore fully committed to forge ahead in expanding alliances with fellow nations and international business partners who share our vision for progress and development in space study. In so doing, we look forward to continued growth in a way that will benefit the space community and the greater global society.

I would like to congratulate the organizing committee for preparing a very interesting and exciting congress this year.

I am looking forward to meeting you in the various sessions, and hope you enjoy your stay. Make sure you take the time to explore Israel, and not just the space above it.

Ofir Akunis
Minister of Science, Technology and Space

3 Practical Information

3.1 City Map and Introduction to Jerusalem



Practical information on Jerusalem

Most of Jerusalem's top historical sites are located within the Old City which is one of the oldest cities in the world, with artifacts from Caananite, Babylonian, Persian, Greek, Roman, Christian, and Muslim epochs.

Standing atop the Mount of Olives will give you a bird's-eye view of all four quarters of the Old City: Jewish, Armenian, Christian and Muslim.

The most significant site for Jewish people is the Western Wall (sometimes called the Wailing Wall), which is the last remaining outer wall surrounding the Second Temple built by King Herod in 70 CE.

The Western Wall tunnels is an excavation site well worth visiting. The ancient Roman Cardo ruins and the Hurva synagogue are both a five minutes' walk from the Western Wall. Another ten minutes walking will bring you to the Jaffa Gate and the Tower of David Museum.

Christian tradition dictates that Jerusalem is the place where Jesus was crucified and resurrected. From the Mount of Olives continue to the Garden of Gethsemane and the Church of All Nations, the site where Mary Magdalene is said to have been buried according to the Eastern Orthodox Church. Continue around the Old City to visit the Stations of the Cross along the Via Dolorosa, the Church of the Holy Sepulchre, and the Garden Tomb.

Ein Karem is a pastoral village neighboring Jerusalem where the Church of St. John the Baptist is located. Bethlehem and the Church of Nativity is a ten minute drive from the capital.

After Mecca and Medina, Jerusalem is home to the third holiest site for Sunni Muslims, the Al Aqsa Mosque. Adjacent to Al Aqsa is the Dome of the Rock, which according to tradition, was visited by Muhammad during his Night Journey. Prior to your visit, make sure to check visiting hours.

Combining Business & Pleasure

- Jerusalem has 1,578 public gardens and parks.
- There are 31 wineries in Jerusalem.
- Jerusalem has over 2,000 archeological sites.
- There are more than 70 museums in Jerusalem.
- Jerusalem has over 90 cultural centers that teach art, music, poetry, literature and performance to young people.
- The capital has the largest number of annual festivals in the country.
- The lion is the emblem of the City of Jerusalem.
- There are over 6,000 species of plants in the Jerusalem Botanical Gardens.
- The length of the wall surrounding the Old City is four kilometers and has seven open gates.

3.2 Jerusalem and Area Airports & Ground Transportation To/From Downtown Jerusalem

"Tel Aviv"/"Ben Gurion" Airport

Tel Aviv Airport, known locally as Ben Gurion International Airport, is the main hub for almost all international flights arriving to or departing from Israel. Located at the heart of the country, near the Israeli city of Lod, around 40 km from Jerusalem and 15 km from Tel Aviv.

Most flights arrive to and depart from Terminal 3, which was renovated in 2004 and features extensive duty free shopping, banking and currency exchange services, a post office and dining area.

Ground Transportation To/From Jerusalem

Israel is a small country, and it is therefore easy to get from one place to another in a relatively short time. Public transportation is convenient, and you can get to almost any destination for a reasonable price.

There are a number of convenient ways to travel between Ben Gurion Airport and Jerusalem:

The IAC Jerusalem Express Shuttle

Enjoy the peace of mind of a pre-paid, easy access transfer to your Jerusalem hotel.

Upon landing, receptionists will be standing by to greet and direct you to the departure terminal to Jerusalem. Approximately every 1-2 hours a shuttle will depart Ben Gurion airport taking you directly to your accommodation.

Reserve your seat at the affordable cost of €20 per person, for a one way trip. Once your seat is reserved, you are guaranteed a place on the bus.

Please note that in cases of unexpected delays, your reservation will be transferred to the next time of departure.
For reservations and departure times: <http://www.iac2015.org/transportation-to-jerusalem/>

Shared Taxi Van – "Nesher Tours"

One of the most affordable and popular ways is to take a "sherut" (shared taxi) that leaves from just outside the Arrivals Hall at Ben Gurion airport and will deliver you directly to your destination in Jerusalem. Many taxi drivers wait for the sherut taxi to be full before setting off, so you need to factor that into your journey time.

You can also order one to take you from Jerusalem to the airport, and need to book 24 hours in advance (they will tell you to call back if you try more than 24 hours in advance). However, if your flight is on Saturday night or Sunday, then make sure to book 48 hours in advance.

A single journey should cost approximately 62 NIS (US\$ equivalent accepted).
"Sheruts" run 24/7.

"Nesher Tours" Customer Service and Information: +972-2-625-7227

"Nesher Tours" Website: <http://www.neshertours.co.il/>

Bus

To catch a bus to Jerusalem from the airport, first head to the three-story bridge on the second floor, near Gate 21 and 23, and take a bus to the Egged station at nearby Airport City. From there it is possible to get to Jerusalem by Egged bus 945 and 947 (every half hour from 5:30am – 9pm), but you will then still need to make your way from the Central Bus Station in Jerusalem to your destination.

To get to the airport from Jerusalem, buses 945 and 947 leave from platform 18 at the Central Bus Station and arrive at El Al junction, where you then need to catch bus 5 in order to get to Terminal 3 departures.

Certainly your cheapest option - the journey will cost about 30 NIS and takes about 1.5 hours in total.

Egged Buses Customer Service and Information: *2800

Egged Buses Website: www.egged.co.il

Jerusalem Central Bus Station Customer Service and Information: +972-3-694-8888

Jerusalem Central Bus Station Address: 228 Jaffa Rd, Jerusalem

Train

To take a train to the airport, you can catch a train from the train station in southern Jerusalem to Tel Aviv Hahagana station, and from there, change to a train going to Tel Aviv Airport (Ben Gurion Airport). It is a time consuming procedure and not recommended.

To get to the train station from the centre of Jerusalem, catch bus 18X, which takes approximately 45 minutes from King George Street. Or, you may want to catch a taxi, which will cost around 50 NIS on the meter from town. Those who are driving can enjoy free parking at the train station. Tickets are available at the station at a ticket booth or vending machine.

At the airport, the train station is located on Level S, which is the lowest floor, and can be accessed through the Arrivals Hall via stairs, elevators or escalators. Train tickets are available for purchase from automatic machines on level G.

Israel Railways Customer Service and Information: *5770

Jerusalem Train Station Address: Derech Yitzhak Moda'i, Malha, Jerusalem

Ticket Booth Opening Hours:

Sunday – Thursday: 6:00am – 10:00am; 3:15pm – 7:45pm

Friday: 8:45am – 2:00pm

Saturday eve: closed

Website: www.rail.co.il

Private Taxi

A private taxi to or from Jerusalem is another option, and should cost approximately 250 NIS during the week and 300 NIS on Saturday ("Shabbat"). At the airport, it is advised to use a taxi company under the supervision of the Israel Airports Authority, operated by on-site dispatchers, and found at Terminal 3 on the ground level of the multi-level road.

Airport Licensed Taxis

Hadar Lod (all parts of Israel) – Phone: +972-3-971-1103

Amal (to Haifa and North) – Phone: +972-4-866-2324

Taxi 99 (All parts of Israel) – Phone: +972-72-3290731

Car Rental

The car rental companies are located on the first floor of the East Gallery in Tel Aviv Airport's Arrival Hall and are open 24/7. The pick-up and return of the car is at the car rental companies' parking lot on the ground floor of the East Building, which is opposite Terminal 3.

Rental Car Collection: After organizing the paperwork, head to the parking lot via the connecting corridor between the terminal and parking lot. Descend to level G and follow signs. If you know in advance you will be picking a car up at the airport, it is advisable to provide your flight number in case of flight delays.

Rental Car Return: Cars should be returned to the parking lot opposite Terminal 2 (internal flights terminal). Rental car companies provide transportation to Terminal 3.

3.3 Registration

Registration Rates

Registration Category	Early (on or Before 15/06/2015)	Regular (on or Before 04/10/2015)	On-Site (from 11/10/2015)	Notes
	Fee in €	Fee in €	Fee in €	
Full-paying Participants	815€	945€	995€	N/A
Full-paying Participants (Members)	680€	805€	900€	Who are employees or elected officers of an IAF member organization or who are current members of the IAA and the IISL.
Retired Persons	390€	445€	495€	Who meet the IAF's minimum requirements (no longer employed, fully retired and prepared to make at least one presentation on their experiences to a student or public group during the coming six months). Retirees need to upload documentation confirming their status.
Young Professionals	305€	360€	410€	Who are no older than 35 years of age at the time of the Congress
Full-time Students and Primary/secondary level Teachers	75€	85€	95€	There is no age limit on students, while teachers should be primary/secondary level teachers. Students should upload a scanned copy of student ID card, while teachers should upload teacher's license, or other equivalent documents.
Accompanying Persons	55€	80€	105€	Maximum 1 per Full-paying or Retired Delegate, Accompanying persons are entitled to participate in the Opening and Closing Ceremony, the Space Exhibition, Plenary Events, Highlight Lectures, the Welcome Reception, and other events designated by the organizer, while access to IAC technical sessions is restricted.
Media Representatives	Free of charge			Accredited media are required to provide proof of their status in the form of a press card, and examples of recent journalistic work

What is covered by the fee?

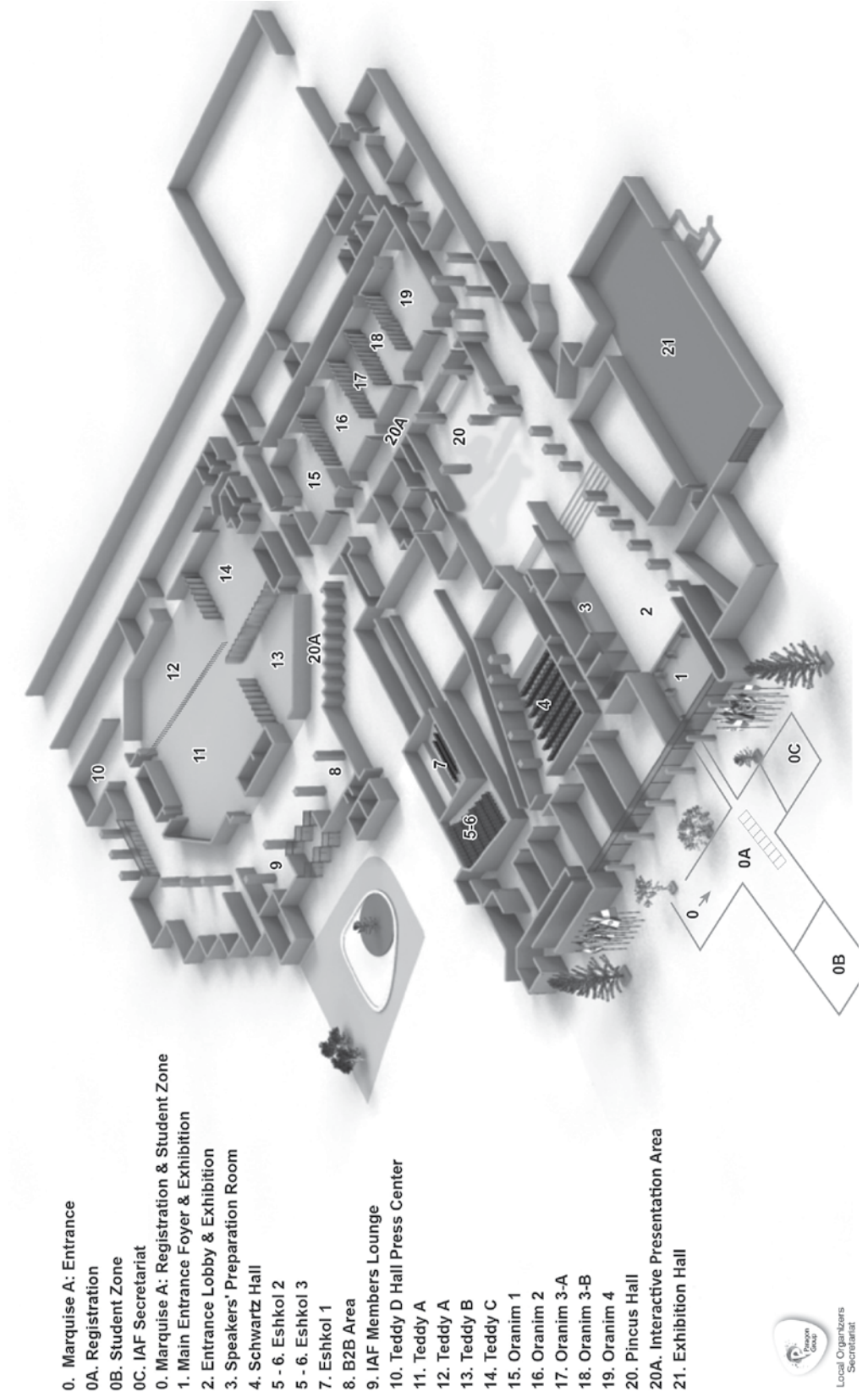
Registration Includes: Admission to the Exhibit Hall, Plenary Program, all scientific and technical sessions, the Opening Ceremony, the Welcome Reception, the Closing Ceremony, coffee breaks and delegate kit.

Registration for Accompanying Persons includes: Admission to the Exhibit Hall, Plenary Program, the Opening Ceremony and the Welcome Reception. It DOES NOT include access to the technical sessions. Accompanying Person is defined as a family member, civil partner, translator or administrative assistant.

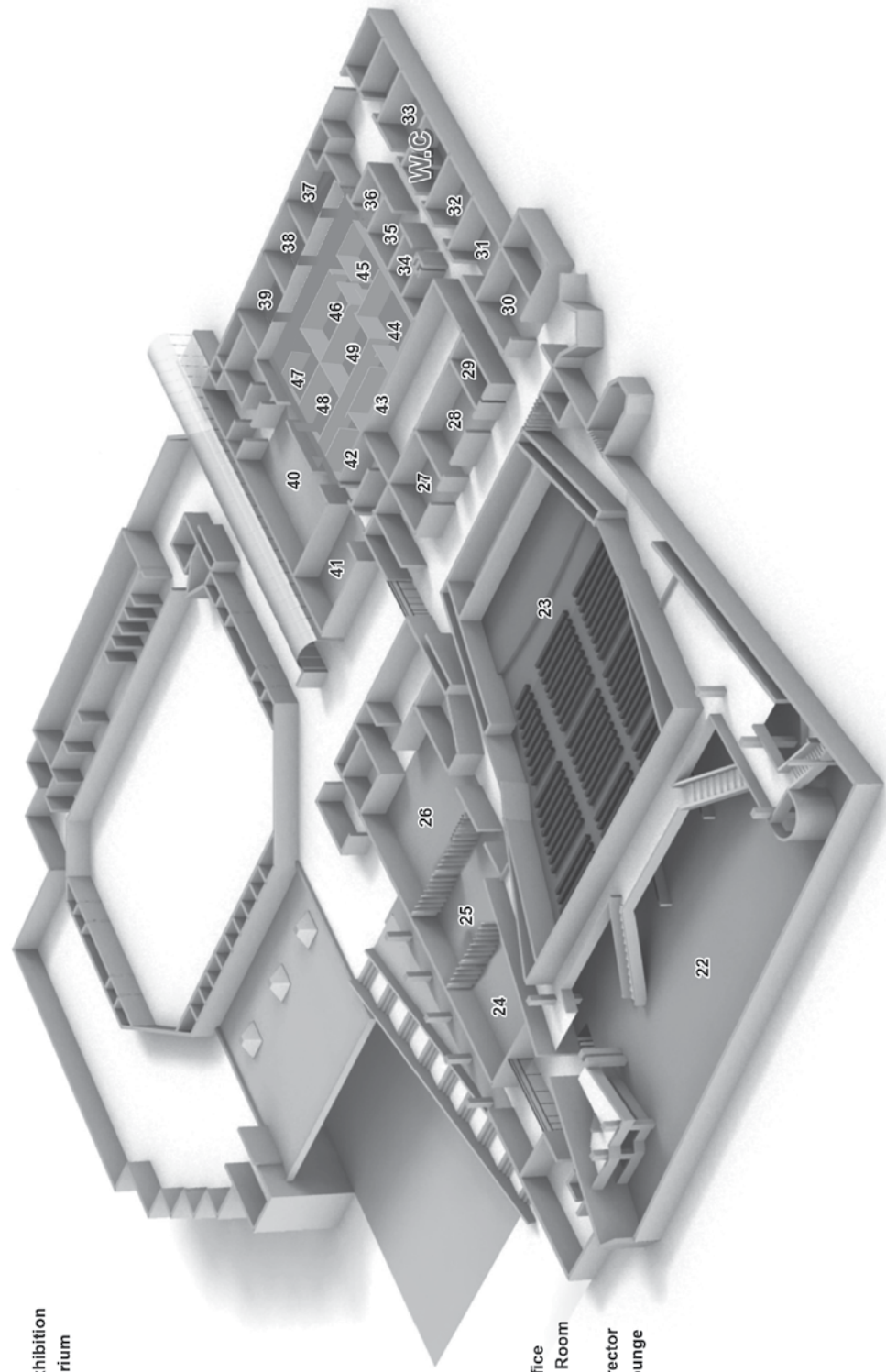
Accredited press will have to upload a valid Press Card or provide any other document proofing their status of "Media".

3.4 Congress Venue Floor Plans

ICC LOWER LEVEL



ICC MAIN LEVEL

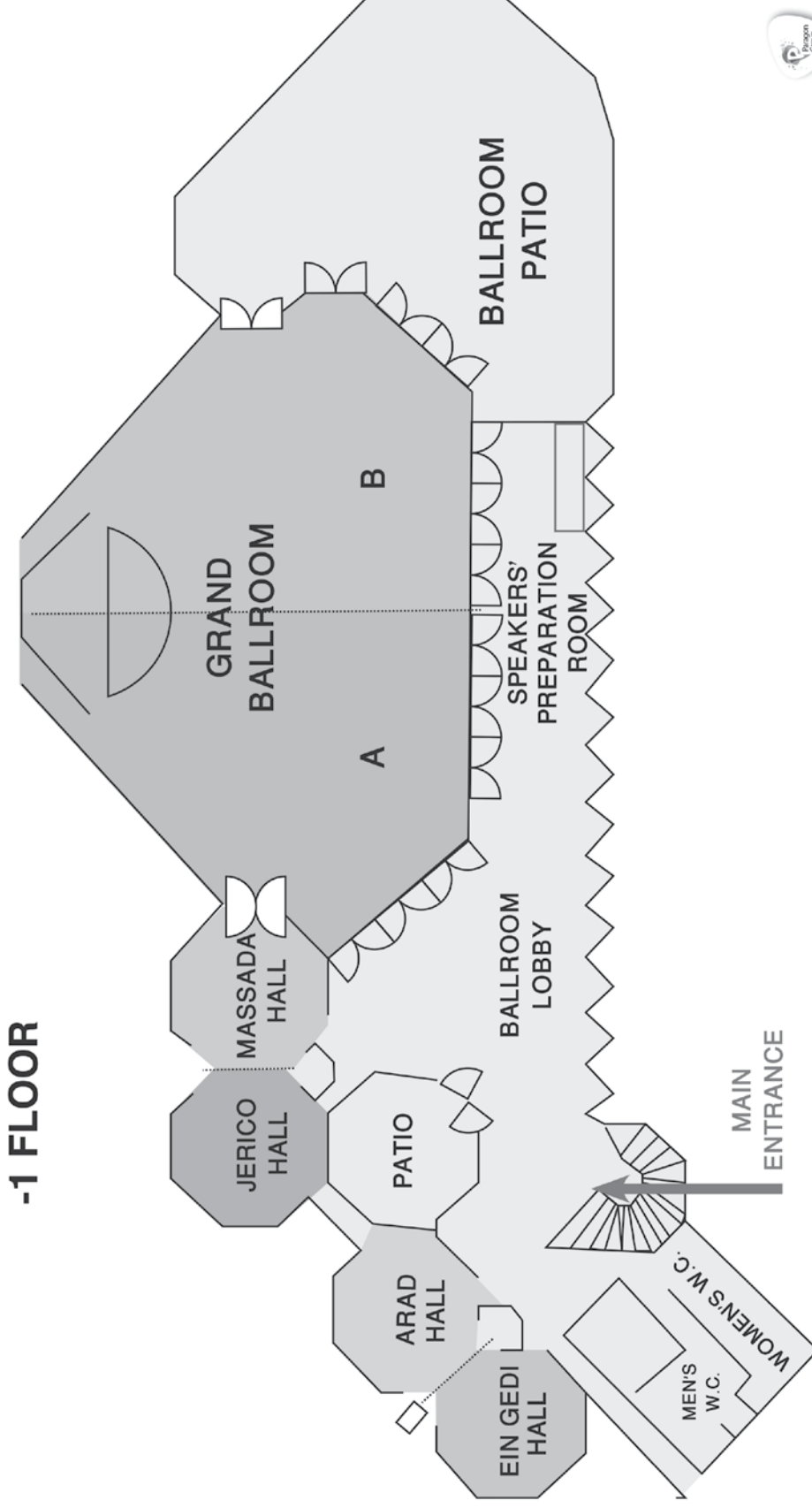


- 22. Agam Foyer & Exhibition
- 23. Ussiskhin Auditorium
- 24. Dulzin Big A
- 25. Dulzin Big B
- 26. Small Dulzin
- 27. 301
- 28. 302/303
- 29. 304
- 30. 305
- 31. 306
- 32. 307
- 33. 309
- 34. 315
- 35 - 36. 308/316
- 37. 310
- 38. 311
- 39. 312
- 40. 313
- 41. 314
- 42. IAA President
- 43. IPC CO. Chair Office
- 44. Bilateral Meeting Room
- 45. IISL President
- 46. IAF Executive Director
- 47. IISL Member's Lounge
- 48. IAA Secretariat
- 49. IAF President



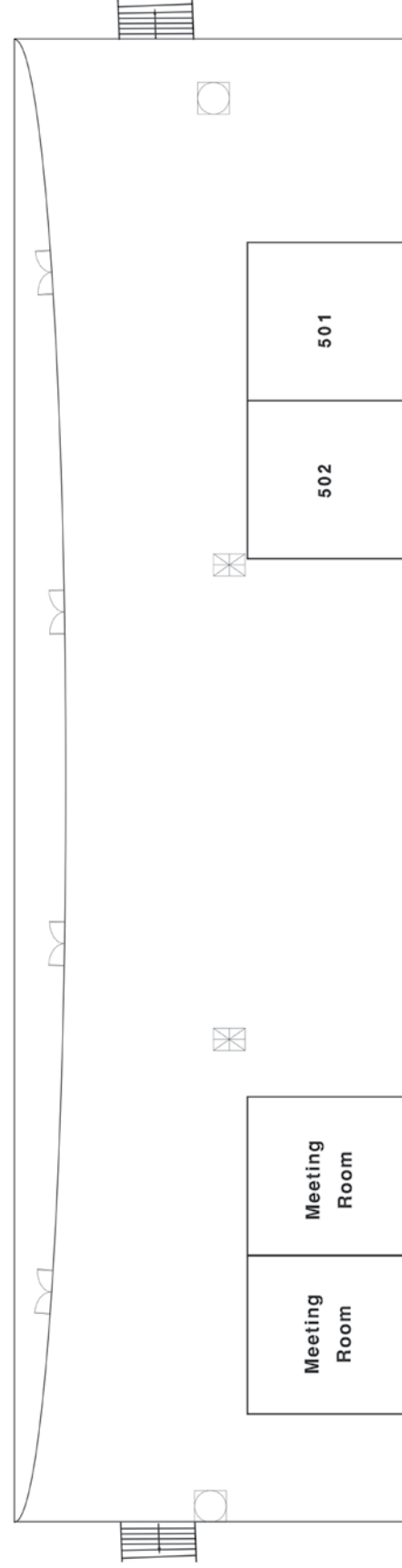
CROWNE PLAZA

-1 FLOOR



* To Kerem Carmit Hall Please follow the directional signs at the hotel.

ICC 5th floor

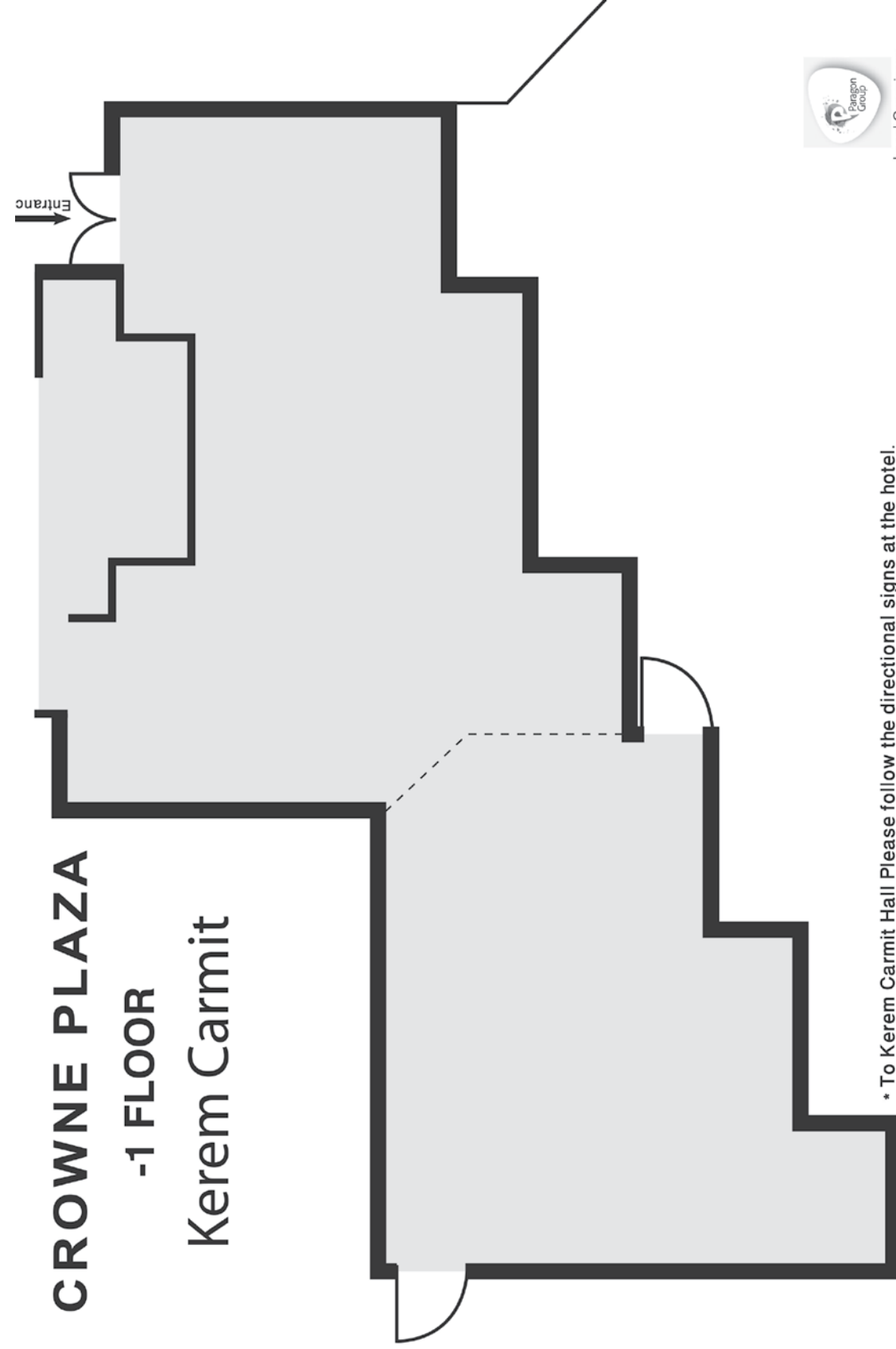


Entrance

CROWNE PLAZA

-1 FLOOR

Kerem Carmit



* To Kerem Carmit Hall Please follow the directional signs at the hotel.

3.5 Office Opening Hours

Registration and Information Desk:

Location: Marquise A
Saturday 10 October, 13:00-18:00
Sunday 11 October, 08:00-18:00
Monday 12 October – Thursday 15 October, 08:00-16:00
Friday 16 October, 08:00-13:00

IAF Secretariat Office

Location: Marquise A
Friday 9 October – Friday 16 October, 08:00-18:00

LOC Secretariat Office

Location: Marquise A
Friday 9 October – Friday 16 October, 08:00-18:00

IAA Secretariat Office:

Location: Hadarim Patio (divided), Level 2
Friday 9 October – Friday 16 October, 08:00-18:00

Exhibition Hall and Internet Café:

Location: All Exhibition Areas, Levels 1 and 2
Monday 12 October, 12:30-18:00
Tuesday 13 October – Thursday 15 October, 09:00-18:00
Friday 16 October, 09:00-15:00

IAF Members' Lounge

Location: Teddy Foyer, Level 1
Sunday 11 October – Friday 16 October, 08:00-18:00

IISL Members' Lounge

Location: Hadarim Patio (divided), Level 2
Saturday 10 October – Friday 16 October, 08:00-18:00

International Press Centre

Location: Teddy D, Level 1
Saturday 10 October, 13:00-20:00
Sunday 11 October – Friday 16 October, 07:30-20:00
Friday 16 October, 07:30-17:00

Speaker's Preparation Rooms

Location 1: Business Center, Level 1, International Convention Center
Location 2: Ballroom Foyer, Crowne Plaza Hotel
Opening Hours:
Sunday 11 October, 14:00-18:00
Monday 12 October – Thursday 15 October, 08:30-18:00
Friday 16 October, 08:30-15:00

3.6 Information for Authors

All authors are asked to upload their manuscripts and multimedia presentations prior to the Congress in order to make them available to all participants on the Interactive Congress Guide DVD. You can still update your multimedia presentations with the latest developments in the Speaker's Preparation Rooms. Your presentation will be automatically preloaded on the computer in the Technical Session Room. Please note that speakers are not allowed to insert USB memory sticks or CD-ROMS into the computers in the Technical Session rooms. Therefore, all updates need to be uploaded before the technical session takes place.

The Speaker's Preparation Room is equipped with computers (MS Windows XP – compatible) with CD/DVD drives and USB ports. It will be open during the following hours:

Sunday 11 October 2015, 14:00 – 18:00
Monday 12 October 2015, 08:30 – 18:00
Tuesday 13 October 2015, 08:30 - 18:00
Wednesday 14 October 2015, 08:30 – 18:00
Thursday 15 October 2015, 08:30 – 18:00
Friday 16 October 2015, 08:30 – 15:00

Our help desk team will assist you in uploading presentations during operating hours. Speakers are requested to report to their allocated Technical Session room 20 minutes prior to the start of their session to meet with their Session Chairs and to check their presentation. Do not forget to bring two printed courtesy copies of your manuscript and a backup copy of your presentation. Some Session Chairs might also ask you for a short biography to introduce you at the session.

3.7 Useful Information

GOOD TO KNOW

Currency:	NIS, New Israeli Sheqel, 1 € = 5 NIS
Language:	Hebrew and Arabic are official languages, English
Time Zone:	MEZ +1 (all year round)
Entry:	3 months with passport (valid for at least 6 months at entry)
Inhabitants:	approximately 800 000 in Jerusalem
Location:	600 - 1000m above sea, average 800m
Climate:	On average cooler than the rest of the country, with hot and dry summers and cool winters.

Shabbat

What is Shabbat?

Shabbat is the Jewish day of rest. It starts at sundown on Friday and ends at sundown on Saturday evening when the new week begins. Religious Jews do not work during Shabbat and this extends to using electronic equipment, and cooking. They mark the start of the 24 hour period by lighting candles and visiting the synagogue for prayers and to sing traditional liturgical blessings, which is followed by the Shabbat Dinner, a festive family meal. On the Shabbat morning, observant Jews return to the synagogue for a morning service, and again in the evening for the Havdalah service to mark the end of Shabbat and the start of the new week.

What changes during Shabbat in Jerusalem?

In Jerusalem, Shabbat is a totally unique experience. Starting from Friday afternoon some businesses, shops and restaurants begin to close up, while non-Kosher restaurants remain open, as do a limited number of businesses in the West of the city. Public transportation (buses and light railway) do not run at all in Jerusalem during Shabbat, and services end in the hours leading up to sunset. Shared taxis and private taxis do continue to operate. Whilst most businesses are closed, Shabbat is a great time to explore Jerusalem when the city is much quieter than usual and almost no traffic on the streets. The Old City, of course, is open as usual and it is particularly interesting to see the religious Jews mark the start of Shabbat at the Western Wall on Friday evening. Some of Jerusalem's museums are open on Saturday.

Businesses tend to re-open on Saturday evening from around one hour after the end of Shabbat until extra-late so people can shop and eat before the start of the new week.

Bus services start almost instantly after the end of Shabbat, and the light railway slightly later.

Credit Cards

Credit cards are widely accepted in Israel. Registration for the congress can be by MasterCard, Visa and American Express.

Currency and Money Exchange

The currency in Israel is the New Israel Shekel (NIS). We recommend using the local currency although most expenses in Israel may be paid with major credit cards. Most ATMs accept all major credit cards such as Master Card, Visa, Diners, and American Express.

Weather

The average day time temperature for October in Israel is between 15-25 degrees Celsius. Evenings get cool in Jerusalem and can be chilly. Have a light weight sweater/cardigan available.

Electricity

Electrical equipment in Israel is 220 volt A.C., single phase, 50 cycles. Some appliances may require a plug adapter that can be purchased locally.

Dietary

Food in the hotels and in most restaurants is kosher which means, on a practical level that meat dishes and dairy dishes are not served together.

Tipping

Tipping is widespread and regulated in Israel. An indicative amount is 10% of the total bill. With few exceptions, no service charge is automatically added to restaurant or hotel bills. In most cases it is NOT possible to add a tip to a credit card bill and it should be added in cash.

Health

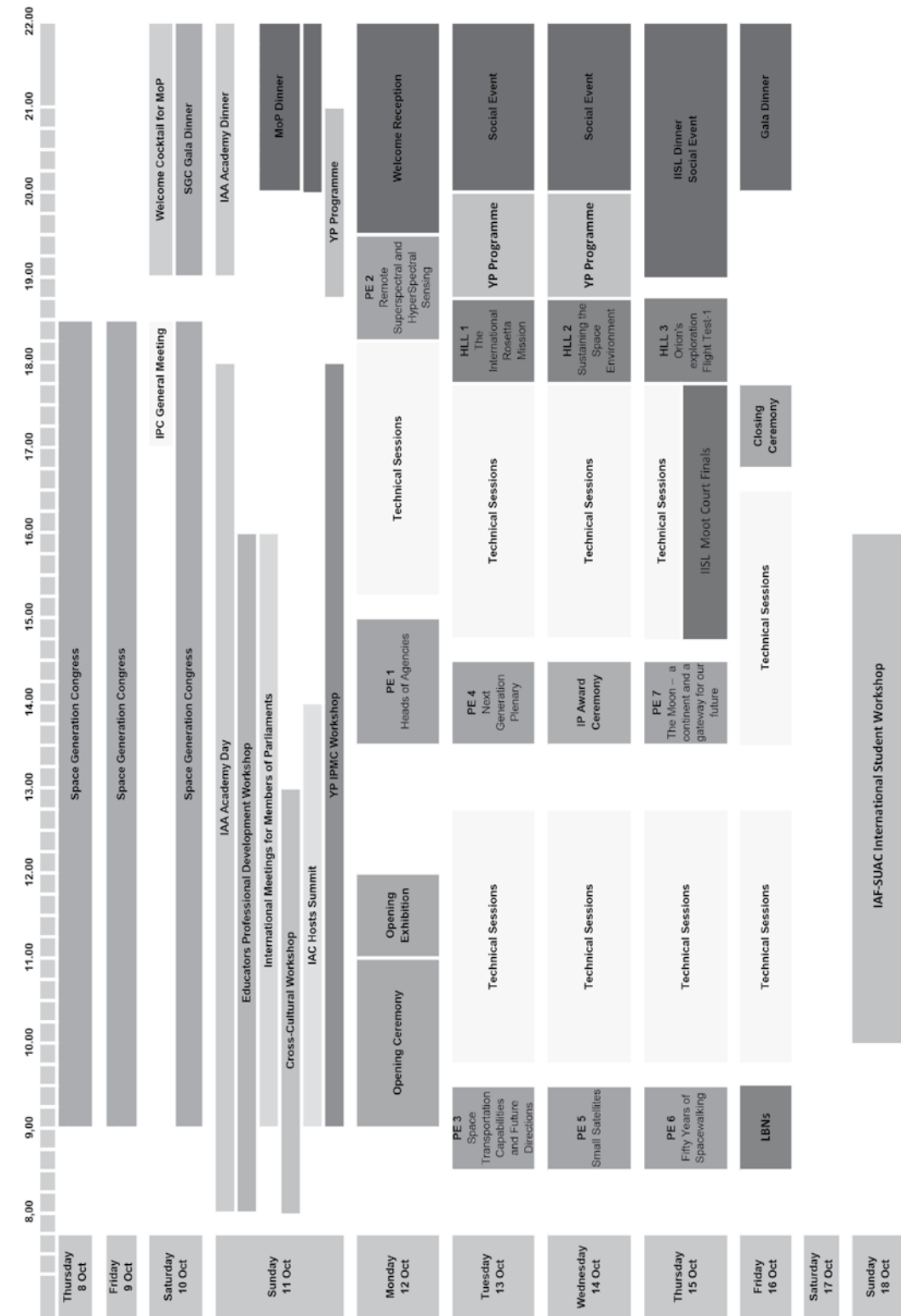
Israel has a high standard of hygiene and medical care, comparable to any Western standard. Doctors and dentists are highly trained and hospitals are well equipped. In the event of illness, hotel staff can arrange a doctor for you or speak to any member of the organizing committee.

Telephones

The country code for Israel is +972

4 Conference Programme

4.1 Programme at a Glance



4.2 Day by Day

Pre-Congress Schedule

Thursday 8 October

Space Generation Congress (SGC) (see page 186)

Friday 9 October

Space Generation Congress (SGC) (see page 186)

Saturday 10 October

IPC General Meeting

Space Generation Congress (SGC) Gala Dinner (see page 186)

Sunday 11 October

IAA Academy Day and Academy Dinner (see page 181)

Educators Professional Development Workshop (see page 180)

Cross Cultural Communications and Presentation Workshop (see page 181)

IAC Hosts Summit (see page 183)

IPMC Young Professional Workshop (see page 166)

Young Professionals Networking Events (see page 167)

Main Congress Schedule

Monday, 12 October

09:00 - 11:00 Opening Ceremony

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

11:15 - 12:15 Exhibition Opening

Location: Exhibition Hall, Jerusalem International Convention Center (ICC)

13:30 - 15:00 Plenary 1: Heads of Agencies

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

The Heads of Agencies plenary event will bring together the leaders of major space agencies worldwide. Following the structure of previous years, this year's Heads of Agencies Plenary will begin with an introductory presentation on latest developments, followed by a discussion on specific topics as well as an interactive Q&A session with the audience.

Panellists:



Isaac Ben-Israel
Chairman,
Israel Space Agency (ISA),
Israel



Charles Bolden
Administrator,
National Aeronautics and Space Administration (NASA),
United States



Xu Dazhe
Administrator,
China National Space Administration (CNSA),
China



Igor Komarov
Head
Federal Space Agency (Roscosmos),
Russia



A.S. Kiran Kumar
(invited)
Chairman,
Indian Space Research Organisation (ISRO),
India



Naoki Okumura
President,
Japan Aerospace Exploration Agency (JAXA),
Japan



Johann-Dietrich Woerner
Director General,
European Space Agency (ESA)



MODERATOR
Uli Bobinger
Journalist
UV Media Production
Germany



CO-MODERATOR
Elizabeth Seward
Head of Marketing, Earth Observation, Navigation & Science,
Airbus Defence and Space,
United Kingdom

15:00 - 15:15 Buzz Aldrin Press Conference

Location: Oranim1, Jerusalem International Convention Center (ICC)



Buzz Aldrin
Moonwalker, Astronaut,
Apollo 11, Gemini 12,
USA,

15:00 - 15:15 GNF Opening

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The motto 'Connecting Space People' is guiding the development of strategic activities of the IAF with the goal of fostering collaboration between space agencies, industry and research.

In line with the IAF's mission of promoting partnerships in the space community, of advancing international development, sharing knowledge and preparing the workforce of tomorrow, the Federation decided to create a global, comprehensive and appealing platform, targeting students, young professionals, experts, decision & policy makers and all actors that could contribute to the networking spirit of such a platform.

Hence, the Federation developed the concept of the IAF Global Networking Forum (GNF) and was proud to introduce it during the IAC 2012 in Naples. Given the IAF's diverse stakeholder portfolio, outreach activities of the Federation are tailored according to the respective needs. Not only at the IAC but also at the Spring Meetings, the GNF format is successfully used for involving stakeholders, weaving together requirements of different target groups and services offered by the IAF.

A special "thank you" has to be addressed to our late colleague and friend, Andrea Boese, without whom the creation and implementation of the GNF would have not been possible. She was heavily involved in the programme coordination and has always supported the initiative of our members to organize diverse and interesting discussions.

We are looking forward to welcoming you in Jerusalem among the active participants – either on the stage or in the audience. It is the interaction, the critical-constructive dialogue we want to foster through the IAF Global Networking Forum: Meet. Share. Connect.



Kiyoshi Higuchi
IAF President
International
Astronautical Federation

15:15 -15:45: GNF – Heads of Agency Press Conference

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The Heads of Agencies Press conference will give the audience (mainly press representatives) the opportunity to directly address the Heads of Agencies asking relevant and challenging questions.

Panellists:



Isaac Ben-Israel
Chairman,
Israel Space Agency
(ISA),
Israel



Charles Bolden
Administrator,
National Aeronautics
and Space
Administration (NASA),
United States



Xu Dazhe
Administrator,
China National Space
Administration (CNSA),
China



Igor Komarov
Head
Federal Space Agency
(Roscosmos),
Russia



A.S. Kiran Kumar
(invited)
Chairman,
Indian Space Research
Organisation (ISRO),
India



Naoki Okumura
President,
Japan Aerospace
Exploration Agency
(JAXA),
Japan



**Johann-Dietrich
Woerner**
Director General,
European Space Agency
(ESA)



MODERATOR
Uli Bobinger
Journalist
UV Media Production
Germany

Start time: 15:15 Technical Sessions

No	Description	Room
A1.8	Biology in Space	Oranim 3-A
A2.1	Gravity and Fundamental Physics	314
A3.1	Space Exploration Overview	Schwartz Hall
A6.1	Measurements	Eshkol 2
A6.1-YPVF.5	Space Debris Young Professionals Virtual Forum	Kerem Carmit
A7.1	Space-Agencies Long-Term Views	302-303
B1.1	International Cooperation in Earth Observation Missions	Eshkol 3
B2.1	Mobile Satellite Communications and Navigation Technology	Dulzin Big B
B3.1	Governmental Human Spaceflight Programs (Overview)	Ballroom A
B4.2	Small Space Science Missions	Eshkol 1
B6.3	Mission Operations, Validation, Simulation and Training	313
C1.1	Mission Design, Operations & Optimization (1)	Teddy B
C2.1	Space Structures I - Development and Verification (Space Vehicles and Components)	Oranim 1
C3.1	Space-Based Solar Power Architectures / Space & Energy Concepts	Oranim 2
C4.1	Propulsion System (1)	Ballroom B
D1.1	Innovative and Visionary Space Systems Concepts	Oranim 4
D2.1	Launch Vehicles in Service or in Development	Teddy C
D3.1	Strategies & Architectures as the Framework for Future Building Blocks in Space Exploration and Development	312
E1.1	Ignition - Primary Space Education	Oranim 3-B
E4.1	Memoirs & organisational histories	Dulzin Big A

16:30 - 17:15 GNF – NanoSat's Success: Innovative lessons for the entire Space Community

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

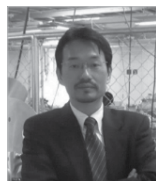
Over the past 15 years, nano-satellites have gone from a University curiosity, to highly capable systems with revolutionary potential. Standardization of launch interfaces and growing launch capacity has spurred development of affordable components and sub-systems leveraging rapid advances in the commercial electronics industry. Due to high volume, high yield production, these commercial parts have a proven record in low earth orbit of functioning reliably with smart system-level design principals. For years, the nano-satellite community has borrowed and tailored processes from the traditional aerospace industry. However, recent demonstrations of nano-satellite missions, and the approaches used to develop those spacecraft, have shown dramatic reductions in costs and schedules. This achievement is the result of comprehensive questioning of the traditional approaches relating to parts selection, sub-system and system designs, management approach, risk posture and risk reduction, mission assurance, environmental testing, and satellite operations. The affordability of nano-satellites is allowing for organizations to experiment with different approaches to these challenges in a way this historically risk averse industry never could. The industry as a whole stands to benefit from this experimentation, where large programs may adopt technology and processes originally vetted and proven out by the nano-satellite community.

Organized by:

Tyvak



Panellists:



Mengu Cho
Professor,
Department of Applied
Science for Integrated
System Engineering
Director,
Laboratory of Spacecraft
Environment Interaction
Engineering Kyushu
Institute of Technology,
Japan



David Korsmeyer
Director of Engineering,
NASA Ames
United States



Giorgio Saccoccia
Head of Propulsion and
Aerothermodynamics
Division,
European Space Agency,
France



Noam Segal (Invited)
CEO,
ImageSat International
Israel



Marco Villa
President and COO,
Tyvak Nan-Satellite
Systems Inc.
United States

Start time: 16:45 Technical Session

No	Description	Room
D3.3	Novel Concepts and Technologies to Enable Future Building Blocks in Space Exploration and Development	312

17:30 - 18:15 GNF – China Manned Space Program

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The report briefly introduces the background of China Manned Space Program since 1992, and the achievements of 11 spaceflight missions, including 6 unmanned missions and 5 manned missions. It also gives a roadmap of building and operating China space station (CSS), the functions, utilizations and assembly schedule of station is also introduced. At last, the report will emphasize the international cooperation based on CSS, with the aim of bring benefits of the CSS to humanity.

Organized by:

China Manned Space Agency (CMSA)



中国载人航天工程办公室
CHINA MANNED SPACE AGENCY

Speaker:



Zhou Jianping
Chief Designer of China
Manned Space Program,
China Manned Space
Agency (CMSA)
China



MODERATOR
Franco Bonacina
Director General's
Spokesperson and Head
of the Protocol Office
Director General's Cabinet
European Space Agency
(ESA)

18:15 - 19:30 Plenary 2: Remote Superspectral And Hyperspectral Sensing From Space (Host Plenary)

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

Panellists:



Pierric Ferrier
Project Manager,
Centre National d'Etudes
Spatiales (CNES),
France



Ehud Hayun
System Engineer,
MBT SPACE,
Israel



Arnon Karnieli
Researcher,
Ben Gurion University,
Israel



Jose Moreno
Professor,
University of Valencia,
Spain



Andreas Mueller
Head Land Surface
Department,
German Aerospace
Center (DLR),
Germany



Stefano Pignatti
Researcher,
Institute of
Methodologies for
Environmental Analysis
(CNR-IMAA),
Italy



MODERATOR
Eyal Ben Dor
Head of Remote Sensing
Laboratory,
Tel Aviv University (TAU),
Israel

19:30 - 22:00 Welcome reception

Location: All Exhibition Areas, Jerusalem International Convention Center (ICC)

20:00 - 22:00 VIP Reception at the IAI Space Center (upon invitation only)

Location: IAI/MBT Space Division, Altalef 3, Yehud

Tuesday, 13 October

08:30 - 09:30 Plenary 3: Space Transportation Capabilities and Future Directions to enable Commercial, Scientific, and Human expansion into space

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

This plenary session is dedicated to a comprehensive discussion of the current state and future directions of launch systems. We are in the midst of substantial change in the paradigms of how humans and hardware get to space – from technical, programmatic, and commercial perspectives. In the technical realm, for example, we are now seeing the first-attempts to re-land booster rockets gently for re-use of all or large parts of the hardware. In programmatic areas, we are seeing NASA rely on commercial contracts to deliver crew and cargo, and ESA moving forward with the Ariane-6. While telecommunications satellites for GEO still offer commercial opportunities for launch vehicle companies, one important trend has been in the direction of smaller satellites – microsats and nanosats – and hosted payloads, which may influence the direction, size, and frequency of future launches. This plenary will provide a window into how many of the major actors in the Space Transportation arena are adjusting to – or creating – many of these changes which are coming rapidly, and are fundamentally changing our access to LEO and beyond.

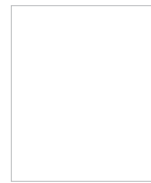
Panellists:



John Elbon
Vice President and General Manager, Space Exploration, Boeing Defense, Space & Security, USA



Tsutomu Fukatsu
Director, Management and Integration Department Space Technology Directorate, Japan Aerospace Exploration Agency (JAXA), Japan



Robert Hauser
Business Development Director at United Launch Alliance (ULA), USA



Stéphane Israël
Chairman and CEO, Arianespace, France



Yuriy Makarov
Director of Strategy Planning Department, Federal Space Agency (ROSCOSMOS), Russia



Lee Rosen
Vice President, Mission and Launch Operations, SpaceX, USA



Lin Shen
Deputy Chief Researcher, China Academy of Launch Vehicle Technology (CALT), China



Gaelle Winters
Director of Launchers, European Space Agency (ESA), France



MODERATOR
Geir Hovmork
Deputy Director, Norwegian Space Center, Norway

09:30 - 10:45 GNF – Climate and Earth Observation – Challenges and Possibilities of Satellite Missions

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The World Climate Research Programme focuses on the following grand challenges:

- Regional Sea-level Change & Coastal Impacts
- Melting Ice & Global Consequences
- Changes in Water Availability
- Clouds, Circulation and Climate Sensitivity
- Understanding and Predicting Weather and Climate Extremes

Following the Global Climate Observing System initiative 50 essential climate variables have been identified which are technically and economically feasible for systematic observation. Earth observation by satellite borne remote sensing instruments represents

the most important source of data and a variety of climate missions are worldwide serving this goal already. However, making maximum use of all these systems for climate research still results in further challenges: validation is one key requirement, optimized sampling in space and time another one. The IAC-panel will focus on corresponding questions: What are the still existing major deficiencies and what are present plans for future climate relevant missions.

Keynote presentations by worldwide acknowledged experts will path the way into a panel discussion on this challenging topic.

Organized by:

German Aerospace Center (DLR)



Panellists:



Hartmut Grassl
former Director of Max Planck Institute for Meteorology, Germany



Chu Ishida
Senior Chief Officer for Satellite Applications, Japan Aerospace Exploration Agency (JAXA), Japan



Volker Liebig
Director Earth Observation, European Space Agency (ESA/ESRIN), Italy



Alberto Moreira
Director Microwaves and Radar Institute, German Aerospace Center (DLR), Germany



Piers J. Sellers
Deputy Director Science and Exploration Directorate, Goddard Space Flight Centre, National Aeronautics and Space Administration (NASA), United States



CHAIR
Hans-Joerg Dittus
Member of the Executive Board, German Aerospace Center (DLR), Germany

Start time: 09:45 Technical Sessions

No	Description	Room
A1.2	Human Physiology in Space (1)	Oranim 3-A
A2.2	Fluid and Materials Sciences	314
A3.2A	Moon Exploration – Part 1	Schwartz Hall
A6.2	Modelling and Risk Analysis	Eshkol 2
A7.2	Scientific Motivation and Requirements for Future Space Astronomy and Solar System Science Missions	302-303
B1.2	Future Earth Observation Systems	Eshkol 3
B2.2	Joint Session on Dual Use (civil and military) Aspects of Telecommunications and GNSS	Dulzin Big B
B3.2	Commercial Human Spaceflight Programs	Ballroom A
B4.1	16th Workshop on Small Satellite Programmes at the Service of Developing Countries	Eshkol 1
C1.2	Mission Design, Operations & Optimization (2)	Teddy B
C2.2	Space Structures II - Development and Verification (Deployable and Dimensionally Stable Structures)	Oranim 1
C3.2	Wireless Power Transmission Technologies, Experiments and Demonstrations	Oranim 2
C4.2	Propulsion System (2)	Ballroom B
D2.2	Launch Services, Missions, Operations, and Facilities	Teddy C
D4.1	Innovative Concepts and Technologies	312
E1.2	Lift-Off - Secondary Space Education	Oranim 3-B

E2.1	Student Conference - Part 1	Kerem Carmit
E3.1	Regional cooperation in space: policies, governance and legal tools	313
E6.1	Case Studies and Prizes in Commercial Space	Oranim 4
E7.1	7 th Nandasiri Jasentulyana Keynote Lecture on Space Law and Young Scholars Session	Dulzin Big A

10:30 - 11:15 CNES / ISA reception (upon invitation only)

Location: Teddy A, Jerusalem International Convention Center (ICC)

10:45 - 12:00 GNF – New Space Economy - The Dawn of an Era or the Next Economic Bubble?

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

New Space economy is the trend slogan of 2015. Recent developments in the international space community give the impression of drastic changes in the space world today: New players in commercial space activities, new concepts for utilization of space technologies, new private investments in space assets. Last not least the number of countries investing in space keeps increasing year after year. The question is whether there is really something called “new commercial space,” or are we re-labeling and tweaking slightly the way we are doing what we have always done. If the answer is yes – and there are hints to follow that impression – then the role of space agencies might have to change as well, especially when governmental space budgets stagnate. In this panel we will discuss with experts from four continents new approaches and new business models in space industry, opportunities for governmental and private newcomers in space as well as necessary answers by established space agencies around the globe.

Organized by:

German Aerospace Center (DLR)



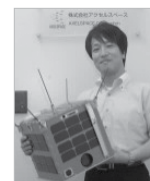
Panellists:



John M. Horack
Vice President for Space Systems,
Teledyne Brown Engineering,
USA



Sias Mostert
CEO Space Commercial Services,
South Africa



Yuya Nakamura
President and CEO,
Axelspace Corporation,
Japan



Tom Segert
Director of Business Development,
Berlin Space Technologies,
Germany



Pete Worden
Chairman,
Breakthrough Prize Foundation,
USA



CHAIR
Gerd Gruppe
Member of the Executive Board,
German Aerospace Center (DLR),
Germany

11:00 - 14:00 IISL Moot Court Semi Finals (This is a closed session)

Location: Ein Gedi Hall and Masada Jericho Hall, Crowne Plaza Hotel

12:15 - 13:00 GNF – ESA Director General Jan Woerner meets the Press

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

As of 1 July 2015 ESA has a new Director General: Jan Woerner. He took up duty at ESA Headquarters in Paris, France.

Prof. Woerner called for the continuation of ESA's ongoing programmes, projects and missions in cooperation with Member States, as well as preparing for ESA's future, among the many important tasks he has to fulfil.

Referring to this future as 'Space 4.0', Prof. Woerner considers that ESA has already started to enter this new phase, in which space has become a day-to-day business and in which interaction with society, the commercialisation of space, resulting new roles for industry and a fostered, cooperative relation with the European Commission all play important roles.

The ESA Council unanimously appointed Prof. Woerner on 18 December 2014 for a period of four years. Previously, he was Chairman of the Executive Board of the German Aerospace Center (DLR), from March 2007 to June 2015.

Organized by:

European Space Agency (ESA)



Speaker:



Johann-Dietrich Woerner
Director General,
European Space Agency (ESA)



MODERATOR
Franco Bonacina
Director General's Spokesperson and Head of the Protocol Office
Director General's Cabinet
European Space Agency (ESA)

12:30 - 13:30 Arianespace VIP Luncheon (Upon invitation only)

Location: Teddy A, Jerusalem International Convention Center (ICC)

13:30 - 14:30 Plenary 4: Next Generation Plenary: International Space Station as the Gateway for Humankind's Future in Space and on Earth

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

This plenary highlights the active work on the International Space Station (ISS) of students and young professionals who were competitively selected through YouTube auditions. These Next Generation panelists will discuss the reasons for performing research in space vs. on Earth and will discuss results and benefits of their research – not only for deep-space exploration but also for improving life on Earth. This plenary examines new research that will take firm hold in a future when the panelists will be in the prime of their careers, executing the decisions of the day and ultimately driving the space community.

Panellists:



Jean-Dominique Coste
ESA Systems Engineer,
Airbus Defence & Space,
France/Germany



Jason Dunn
Founder, Made In Space,
USA



Norah Patten
Communications and Outreach Manager with the Irish Centre for Composites Research (IComp),
Ireland



Jun Shimada
Payload Engineer,
Japan Aerospace
Exploration Agency (JAXA)
Japan



Julia Stalder
University of California
in Los Angeles (UCLA)
and National
Aeronautics and Space
Administration (NASA)
JPL,
USA



Luis Zea
University of Colorado,
Boulder,
Guatemala / United
States



MODERATOR
Julie Robinson
ISS Program Scientist,
National Aeronautics
and Space
Administration (NASA),
USA



MODERATOR
Andrea Boyd
Flight Controller for
ISS,
European Space
Agency (ESA)

Start time: 14:45 Technical Sessions

No	Description	Room
A1.3	Human Physiology in Space (2)	Oranim 3-A
A2.3	Microgravity Experiments from Sub-Orbital to Orbital Platforms	314
A3.2B	Moon Exploration – Part 2	Schwartz Hall
A4.1	SETI 1: SETI Science and Technology	302-303
A5.2	Human Exploration of Mars	Eshkol 3
A6.4	Mitigation and Standards	Eshkol 2
B2.3	Space-Based Navigation Systems and Services	Dulzin Big B
B3.3	Utilization & Exploitation of Human Spaceflight Systems	Ballroom A
B4.3	Small Satellite Operations	Eshkol 1
C1.3	Orbital Dynamics (1)	Teddy B
C2.3	Space Structures - Dynamics and Microdynamics	Oranim 1
C3.3	Advanced Space Power Technologies and Concepts	Oranim 2
C4.9	Hypersonic and Combined Cycle Propulsion	Ballroom B
D2.3	Upper Stages, Space Transfer, Entry and Landing Systems	Teddy C
D4.2	Contribution of Space Activities to Solving Global Societal Issues	312
E1.3	On Track - Undergraduate Space Education	Oranim 3-B
E2.3-YPVF.4	Student Team Competition	Kerem Carmit
E3.2	International Space Exploration Policies and Programmes	313
E6.2	Public/Private Human Access to Space - Supporting Studies	Oranim 4
E7.2	The relationship of international humanitarian law and territorial sovereignty with the legal regulation of outer space	Dulzin Big A

14:45 - 17:45 GNF – Vega Small Launcher: the best workhorse answer to your LEO needs

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The workshop aims at describing the current success and the future potential of the VEGA small launcher. VEGA has been developed within the ESA programmatic frame in which Italy has played a leading role being the main financial contributor covering approximately 60% of the overall programme value.

In order to improve the Italian leadership in the programme and enhance the national technical competence at system level, the Italian Space Agency established with AVIO the company ELV (European Launch Vehicle) for the role of the launcher system

Prime Contractor. The VEGA lightweight launcher was designed for launching small satellites into low earth orbit (LEO) mainly for scientific and Earth Observation applications. The maiden flight occurred in February 2012 putting into orbit the Italian Space Agency LARES scientific satellite; since then, other four launches have been successfully carried out for Europe. The second VEGA launch occurred in May 2013 using for the first time the flight programme GNC software (named FPS-A) developed by ELV with the support of other Italian & European companies; this flight carried into LEO orbit the ESA technological satellite named Proba-V which is conducting a global census of Earth's vegetation, the Vietnamese satellite VNREDSAT and a small Estonian research satellite based on CUBESat concept. The third launch occurred in April 2014: with this flight the "commercial" Earth Observation satellite, named KazEOSat-1 (also known as DZZ-HR), built by Airbus Defence and Space for the Government of the Republic of Kazakhstan, was successfully placed into LEO orbit. The fourth launch occurred in February 2015; it was the first quasi equatorial VEGA flight and it carried the ESA IXV Intermediate eXperimental Vehicle in a sub-orbital flight (at approx. 330 Km height at separation); IXV mission has been conceived by ESA to test technologies (i.e. aerothermodynamics, attitude and control, etc.) and materials for the atmospheric re-entry phase from LEO orbit. The fifth launch occurred in June 2015 bringing into orbit the satellite Sentinel-2A, a European Commission satellite developed for Earth Observation and environmental monitoring purpose in the framework of the Copernicus programme (previously GMES). The sixth VEGA flight is scheduled in November (third flight in 2015): this flight has the goal to place into a slightly elliptical parking orbit the ESA scientific satellite named LISA Pathfinder, the first space observatory for gravitational waves detection that will operate at Lagrange point L1. LISA Pathfinder is part of ESA's "Cosmic Vision" Scientific Program.

VEGA future developments and its evolution – VEGA-C & new SRM P120-C – will also be addressed during the Workshop.

This workshop will be opened by Prof. Battiston, ASI President, with the participation of high representatives of the world space community (Agencies, Research Centers, Industries, Commercial Operators) as potential customers.

Organized by:

Italian Space Agency (ASI)



Panellists:



Roberto Battiston
President,
Italian Space Agency
(ASI),
Italy



Paolo Bellomi
Vice President Product
Development & New
Project,
AVIO,
Italy



Stefano Bianchi
Head of ESA Launchers
Development
Department,
European Space Agency
(ESA),
France



Mario Cosmo
General Director,
Italian Aerospace
Research Centre
(CIRA),
Italy



Augusto Cramarossa
Head of Strategy
Perspectives and
European Affairs Unit,
Italian Space Agency
(ASI),
Italy



Emanuela D'Aversa
Launchers and Space
Transportation Office,
Italian Space Agency
(ASI),
Italy



Arturo de Lillis
Head of Launchers and
Space Transportation
Office,
Italian Space Agency
(ASI),
Italy



Louis Laurent
Senior Vice President,
Arianespace,
France



Pierluigi Pirrelli
CEO,
European Launch
Vehicle (ELV),
Italy

WELCOME MESSAGES
ORGANISERS
PRACTICAL INFORMATION
CONFERENCE PROGRAMME
TECHNICAL PROGRAMME
STUDENTS & YOUNG PROFESSIONALS EVENTS
ASSOCIATED PROGRAMMES & EVENTS
EXHIBITION
SOCIAL EVENTS & TECHNICAL TOURS
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17:45 - 18:45 Highlight Lecture 1: The International Rosetta Mission – First Historical Rendezvous and Landing on a Comet

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

The Rosetta international mission is a cornerstone of the ESA scientific programme which, for the first time in history of spaceflight, achieved a rendezvous with a comet nucleus and delivered a lander module, Philae, onto its surface.

The mission realization required almost 30 years since its initial conception. The interplanetary cruise took more than 10 years. The target, comet 67P Churyumov-Gerasimenko, was reached in August 2014.

The lecture will emphasize on the operational challenges of the long mission, of flying Rosetta at short distances from an active comet nucleus of 2 km radius, and of the delivery and operations the Philae lander. Latest status of both Lander and Orbiter will be presented.

Speakers:



Paolo Ferri
Head, ESA Mission Operations,
Former Rosetta Flight Director,
European Space Agency (ESA)
Germany



Stephan Ulamec
Philae Project Manager,
German Aerospace Center (DLR)
Germany

19:00 - 21:00 Young Professional Networking Event

Location: Room Teddy A, Jerusalem International Convention Center (ICC)

19:00 - 22:00 Evening Reception (upon invitation only)

Hosted by: DLR – German Aerospace Center, Chairwomen Prof. Dr. Pascale Ehrenfreund

Co-hosted by: Embassy of the Federal Republic of Germany Tel Aviv, Ambassador Dr. Clemens von Goetze

Supported by: BDLI – German Aerospace Industries Association

Location: Ballroom A/B, Crowne Plaza, Jerusalem

Wednesday, 14 October

07:00 - 08:30 WIA-Europe Breakfast

Location: Crowne Plaza Hotel, Ballroom A

“A world where we Europeans collaboratively created an aerospace sector with an inclusive representation”.

Speakers:



Simonetta di Pippo
President,
WIA-Europe



Pascal Ehrenfreund
Chair of the Executive Board,
German Aerospace Center (DLR)



Kiyoshi Higuchi,
President,
International Astronautical Federation (IAF)



Claudia Kessler
Chair of Board of Directors,
WIA-Europe



Inbal Kreiss
Deputy General Manager of MBT Space Division,
Israel Aerospace Industries



Dava Newman
Deputy Administrator,
National Aeronautics and Space Administration (NASA)



Deganit Paikowsky
Senior Researcher,
Yuval Neeman Workshop for Science and Security,
Tel Aviv University



Johann-Dietrich Woerner
Director General,
European Space Agency (ESA)

08:30 - 09:30 Plenary 5: Small Satellites – Big Opportunities in the New Age

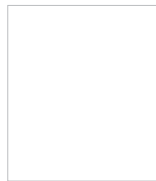
Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

Nano satellites, privately owned satellites constellations, start-ups companies for new launchers, space tourism, are all signs of a revolution coming onto the conservative space industry and space organizations worldwide. The motto of the revolution is; “an affordable space” – space which is available to everyone, any time, and all of the time. The proposed sessions will present elaborately the ways of the start-up nation to an affordable space and space use, in research, technology, “conventional space industry” and SME’s

Thanks to rideshares and ISS deployment, small satellites have already demonstrated functionality in space. Now, a new generation of companies are turning to large constellations of inexpensive small satellites into global businesses, thanks to more flexible and affordable launch options that cater specifically to smaller satellites. In this plenary session, CEOs and other senior representatives from companies that are flying or building small satellites (250 kg or less) discuss the technologies, business plans, and mission types that impact their industry sector

The topics to be discussed thus reflect the interdisciplinary nature of the factors to be considered in planning for the future growth of small satellite activities. There will also be an input to the Plenary presenting the main findings from the IAA/IISL Scientific-Legal Roundtable during the Congress, dealing with “Universities in Space”. The advent of small satellites, if properly regulated, can greatly contribute to the realisation of one of the cardinal principles of the peaceful uses of outer space as included in article I of the 1967 Outer Space Treaty, namely that space activities must be for the benefit and in the interests of all states

Panellists:



Ofir Azriel
MBT Sapce,
Israel



Opher Doron
General Manager,
MBT Space,
Israel



Steven Freeland
Professor of International
Law,
Australia



Yvon Henri
Chief, Space Services
Dept.,
ITU Radio-
communication Bureau,
Switzerland



Steve Isakowitz
President,
Virgin Galactic,
USA



Mike Safyan,
Director of Launch and
Regulatory Affairs,
Member of the founding
team Planet Labs,
USA

Panellists:



Cosmo Casaregola
Procurement of
Propulsion Systems,
EUTELSAT,
France



Hervé Gilibert
Head of Engineering
Space Systems, Airbus
Defence & Space
Chief Technical Officer,
Airbus Safran Launchers
France



Vincent Jacod
Head of Electric
Propulsion Department,
Airbus Defence and
Space,
France



Tsvika Kopelman
Director, Head of
Communication Satellite
Directorate,
MBT Space Division,
Israel Aerospace
Industries (IAI)
Israel



Kristian Pauly
Project Manager of the
Galileo 2nd Generation
activities,
OHB,
Germany



Giorgio Sacoccia
Head of Propulsion and
Aerothermodynamics
Division,
European Space Agency
(ESA),
France



Mitchell L. R. Walker
Associate Professor of
Aerospace Engineering,
Director of the
High-Power Electric
Propulsion Laboratory,
Georgia Institute of
Technology, United
States



MODERATOR
Claudia Kessler
CEO,
HE Space,
Germany

09:30 - 11:45 GNF – Hybrid- and full Electric Propulsion – what is changing orbital propulsion?

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The commercial satellite trend in signal throughput, extended coverage, and number of on board channels, is doubling every decade: 3kW in 1990, 7kW in 2000, 14kW in 2010, and in 2015 satellites are at 18-20 kW. Already new platforms with 30 kW are being considered. A main reason for this trend is that satellite total mass and launcher capability is closely linked. The 6 tonne launch mass was the standard in the years of 2000, driven by the Proton and Ariane 5 dual launch capabilities. At the beginning of 2000, satellites based on NiH2 and Silicon cells for the power system were relatively heavy, and therefore started to use Electric Propulsion (EP) for station keeping. Subsequently, the general use of GaAs cells and Li Ion, drastically reduced the satellite launch mass and electric propulsion was little used. However, by the end of 2010 the demand for higher payload power saw the return of EP. Such propulsion systems need significantly less propellant than classical chemical propulsion.

The EP systems have evolved from thermal EP of the 1980's and plasma / ion grid systems of the 1990's. These applications were limited to in-orbit station keeping maneuvers yielding savings of up to a third of the customary chemical propellants. Now, the prospect of 30kW payload power is feasible and EP is being considered by most satellite manufacturers for orbit raising and station keeping.

When considering EP, typical trades include thrust, Isp, available solar array power for orbital transfer as well as the business model parameters and especially time-to-orbit and the "transponder to orbit cost".

Many science and deep space missions are today only possible with EP (Bepi Colombo, Deep Space 1, Hayabusa, etc). Technologies under development at agencies for deep space missions and large systems with up to 200 kW further expands the physical principles and possibilities of EP. The main "propellant" used for EP is Xenon gas, which is very expensive. Therefore and in the case that some of the large all electric satellites will need more than 1 tonne of Xenon propellant on board justifies the need to investigate alternative propellant candidates.

Furthermore, private investment is available for satellite constellations equipped with EP and the current planning is to launch the first set of satellites by the end of the decade.

The experts on stage will discuss the different electric propulsion applications for the next decade relating to market prospective, platform design driving parameters and technologies to be developed.

Organized by:

Airbus Defence and Space



Start time: 09:45 Technical Sessions

No	Description	Room
A1.4	Medical Care for Humans in Space	Oranim 3-A
A2.4	Science Results from Ground Based Research	314
A3.3A	Mars Exploration – missions current and future	Schwartz Hall
A6.3	Hypervelocity Impacts and Protection	Eshkol 2
B1.3	Earth Observation Sensors and Technology	Eshkol 3
B2.4	Near-Earth and Interplanetary Communications	Dulzin Big B
B3.4-B6.5	Flight & Ground Operations of HSF Systems – Joint Session of the Human Spaceflight and Space Operations Symposia	Ballroom A
B4.4	Small Earth Observation Missions	Eshkol 1
C1.4	Orbital Dynamics (2)	Teddy B
C2.4	Advanced Materials and Structures for High Temperature Applications	Oranim 1
C4.3	Propulsion Technology (1)	Ballroom B
D1.2	Enabling Technologies for Space Systems	Oranim 4
D2.4	Future Space Transportation Systems	Teddy C
D3.2	Systems and Infrastructures to Implement Future Building Blocks in Space Exploration and Development	312
D5.1	Safety and quality: "SUCCESS" is the goal	302-303
E1.4	In Orbit - Postgraduate Space Education	Oranim 3-B
E2.2	Student Conference - Part 2	Kerem Carmit
E3.3	The space economy: what are the socio-economic impacts?	313
E5.1	Space Architecture: technical aspects, design, engineering, concepts and mission planning	Oranim 2
E7.3	The portrayal of Space (Law) in Media and Movies	Dulzin Big A

12:00 - 12:30 GNF – There are No Borders in Space: International Cooperation Will Drive the New Space Age

Location: Teddy A, Jerusalem International Convention Center (ICC)

This event will exceptionally take place in TEDDY A located on the first level of the ICC and not in the Small Dulzin

The next space age starts now. We're on the cusp of dramatic change across the industry. With more than 50 nations having current or planned space programs, space has never been a more globally-oriented endeavor. The future will see international partners working together to unlock the power of space to bring connectivity to every corner of the globe, strengthen global security, and push the boundaries of exploration. We must continue to strengthen an already robust set of international partnerships in space, and work collaboratively to realize the full potential of space exploration.

Organized by:

Lockheed Martin Corporation

Distinguished Keynote:



Marillyn A. Hewson
Chairman, President and Chief Executive Officer,
Lockheed Martin Corporation
United States

12:45 - 13:15 Interactive Presentations Award Ceremony

Location: Teddy A, Jerusalem International Convention Center (ICC)

The best IAC Interactive Presentations will be awarded in a dedicated ceremony that will take place on Wednesday 14 October from 12:45 to 13:15 in room Teddy A.

Prizes will be awarded for the following categories:

- Science and Exploration
- Applications and Operations
- Technology
- Infrastructure
- Space and Society

The IP Award Ceremony will be followed by an interactive session and a cocktail reception from 13:15 to 14:45 in the Plasma Screens Area/Oranim Hall at ICC.

The interactive Session will provide delegates with the opportunity to ask questions.

13:15 - 14:15 GNF – Prospects of Human Spaceflight – Russian View

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The Presentation of Prof. Solntsev will touch upon the following:

- Human spaceflight programs in Low-Earth Orbit (LEO) – the ISS, new orbiting stations, commercial space missions in LEO;
- Space missions beyond LEO - to the Moon and Mars: new spacecraft and space infrastructure;

- Development of the Asteroids Danger Warning and Prevention System;
- Russian human spaceflight program and international cooperation.

Organized by:

S.P. Korolev Rocket and Space Corporation Energia



Speaker:



Vladimir L. Solntsev
President,
S.P. Korolev Rocket and Space Corporation Energia,
Russia

14:30 - 15:30 GNF - How to launch a career in space?

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

The panel will offer advice for young professionals looking to enter or advance within the space industry, drawing from the personal experiences of senior leaders in the field. The discussion will focus on creative ways to gain insight and experience, while learning how to identify opportunities for advancement

Specific questions will be posed to each panellist relevant to their background in the space sector.

Questions posed to the panellists include:

- In your experience what are the benefits of pursuing an entry-level job at a space company vs. a more specialized role in an unrelated field to gain experience that I can later transfer into the space sector?
- Apart from skills related to the job, what characteristics do you think prospective employers look for in candidates?
- How do I find and keep a mentor/mentee relationship and when is it okay to "mentor up"?

Organized by:

Space Generation Advisory Council
Airbus Defence and Space



Panellists:



Pascale Ehrenfreund
Chair of Executive Board,
German Aerospace Centre (DLR),
Germany



Bernard Foing
Chair,
ESTEC Staff Association Committee,
The Netherlands



Elizabeth Seward
Head of Marketing, Earth Observation, Navigation & Science,
Airbus Defence and Space, United Kingdom



Kevin Stube
Advisory Board,
The Planetary Society,
United States



Giampietro Tonoli
Space Generation Advisory Council; MSc Thesis Fellow,
Airbus Defense & Space



MODERATOR
Jillianna Pierce
Space Generation Advisory Council;
Government Affairs Associate,
Space Foundation

Start time: 13:15 Interactive Presentations

Location: Plasma Screens Area

Session	Symposia	Description
A1.IP	SPACE LIFE SCIENCES SYMPOSIUM	Interactive Presentations
A2.IP	MICROGRAVITY SCIENCES AND PROCESSES SYMPOSIUM	Interactive Presentations
A3.IP	SPACE EXPLORATION SYMPOSIUM	Interactive Presentations
A4.IP	44 th SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) – The Next Steps	Interactive Presentations
A5.IP	HUMAN EXPLORATION OF THE SOLAR SYSTEM SYMPOSIUM	Interactive Presentations
A6.IP	SPACE DEBRIS SYMPOSIUM	Interactive Presentations
B1.IP	EARTH OBSERVATION SYMPOSIUM	Interactive Presentations
B2.IP	SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM	Interactive Presentations
B3.IP	HUMAN SPACEFLIGHT SYMPOSIUM	Interactive Presentations
B6.IP	SPACE OPERATIONS SYMPOSIUM	Interactive Presentations
C1.IP	ASTRODYNAMICS SYMPOSIUM	Interactive Presentations
C2.IP	MATERIALS AND STRUCTURES SYMPOSIUM	Interactive Presentations
C3.IP	SPACE POWER SYMPOSIUM	Interactive Presentations
C4.IP	SPACE PROPULSION SYMPOSIUM	Interactive Presentations
D1.IP	SPACE SYSTEMS SYMPOSIUM	Interactive Presentations
D2.IP	SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM	Interactive Presentations
D4.IP	13 th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE	Interactive Presentations
D5.IP	48 th SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE ACTIVITIES	Interactive Presentations
E1.IP	SPACE EDUCATION AND OUTREACH SYMPOSIUM	Interactive Presentations
E3.IP	28 th SYMPOSIUM ON SPACE POLICY, REGULATIONS AND ECONOMICS	Interactive Presentations
E5.IP	26 th IAA SYMPOSIUM ON SPACE AND SOCIETY	Interactive Presentations
E6.IP	BUSINESS INNOVATION SYMPOSIUM	Interactive Presentations
E7.IP	58 th IISL COLLOQUIUM ON THE LAW OF OUTER SPACE	Interactive Presentations

Start time: 14:45 Technical Sessions

No	Description	Room
A1.5	Radiation Fields, Effects and Risks in Human Space Missions	Oranim 3-A
A2.5	Facilities and Operations of Microgravity Experiments	314
A3.3B	Mars Exploration – Science, Instruments and Technologies	Schwartz Hall
A4.2	SETI 2: SETI and Society	312
A5.1	Human Exploration of the Moon and Cislunar Space	Eshkol 3
A6.9	Modelling and Orbit Dtermination	Eshkol 2
B2.5	Advanced Technologies for Space Communications and Navigation	Dulzin Big B
B3.9-YPVF.2	Human Spaceflight Young Professional Virtual Forum	Kerem Carmit
B4.5	Access to Space for Small Satellite Missions	Eshkol 1
C1.5	Attitude Dynamics (1)	Teddy B
C2.5	Smart Materials and Adaptive Structures	Oranim 1
C4.4	Electric Propulsion	Ballroom B
D1.3	System Engineering - Methods, Processes and Tools (1)	Oranim 4

D2.5	Future Space Transportation Systems Technologies	Teddy C
D6.1	Commercial Space Flight Safety and Emerging Issues	Ballroom A
E1.5	Enabling the Future - Developing the Space Workforce	Oranim 3-B
E3.4	Assuring a Safe, Secure, and Sustainable Space Environment for Space Activities	313
E5.2	Models for Successfully Applying Space Technology Beyond Its Original Intent	Oranim 2
E6.3	New Space and New Science	302-303
E7.4	Legal Issues of Space Traffic Management	Dulzin Big A

15:45 - 17:45 GNF – Rafael's Microsatellites Enhanced Capabilities Utilizing Electric Propulsion Systems

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

Rafael's space activities are focused on Small satellite constellations, Micro-satellites and Nano-satellites, Space Propulsion Solutions, Advanced light Weigh Composite Space Structures, and MEMS Technologies.

Rafael's activities in small satellite systems development are focused on dual use operational applications, based on constellations of nano-satellites or micro-satellites – depending upon the specific application.

The above doing is based on Rafael's proven extensive operational experience in: Intelligence Systems, and Communication Systems, Rafael heritage in space includes Propulsion modules and components that are onboard over 66 satellites including partnership with major Space Agencies that formed the French-Israeli VENUS Multispectral Earth-Observation satellite utilizing electrical Propulsion system, ESA – The European Space Agency and others.

Two main micro-satellites and nano-satellites applications are being developed at the current stage:

- Electro-Optic Earth-Observation missions
- Communication Relay missions

Rafael's Space Propulsion Solutions are utilizing a vast range of propulsion systems and components including monopropellant based on Hydrazine propellant, Cold Gas and Electrical Propulsion systems.

Due to its vast expertise in system integration, Rafael provides a tailor-made turnkey Propulsion Solution for the specific needs of the customer.

RAFAEL designs, develops and manufactures Electrical Propulsion Systems (EPS). It provides EP system to Venus satellite and is developing low power systems to accommodate microsatellites. Rafael's EPS are the major building block in the current and future propulsion solution for LEO Satellites and large satellites consulations utilizing Rafael unique technology in the Low Electrical Hall Effect Thrusters - HET and Power Processing Units – PPU's.

Those propulsion technologies are suitable for satellite constellations requiring launcher-to-orbit propulsion, orbit maintenance and de-orbiting using the "All-In-One" concept. This approach can dramatically shorten the Satellite design phases and can be used as cost saving driver for the propulsion and AOCS systems. "All in One Solution" concept means to use the expertise of a propulsion system provider in the early stages of design.

Organized by:

Rafael



Panellist



Jacob Herscovitz
Chief Systems Engineer
for the Space Systems
Directorate,
Rafael Space Systems
Israel



Yaaqov Sharony
Small-satellites System
Programs Manager,
Rafael Space Systems,
Israel



Zvika Zuckerman
Marketing & Business
Development Director,
Rafael Space Systems,
Israel

17:45 - 18:45 Highlight Lecture 2: Sustaining the Space Environment: The State of Space Situational Awareness, Conjunction Warning and Collision

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

Sustaining a productive near Earth space environment is critical. As the number of satellites in low and geosynchronous Earth orbits increases, collisions become more likely. Avoiding collisions has been a priority for two decades, but there has not been much progress. Space situational awareness has actually declined in the past few years. The quality of orbit data, particularly debris orbits, is neither sufficient nor timely. Fortunately, collisions are not likely, although the consequences might be severe.

This presentation will assess the capabilities of the world's space situational resources. One of the most significant impediments is the diversity of conjunction assessment and collision warning among stakeholders. Each must be able to understand and employ data provided by others. International Standards and best practices provide the environment for collaboration and improvement. Verifiable, measureable, and enforceable guidelines, codes of conduct, treaties, and laws are required. Many proposed and implemented thus far do not satisfy these criteria.

The first segment of this lecture will present all capabilities accessible to international stakeholders. These capabilities are much more than locations and fields of view or fields of regard.

The second segment will examine the capabilities to conduct actionable surveillance. Surveillance is perceiving events that matter, not looking everywhere for anything. We must consider relationships among assets to be protected, threats to those assets, and actions that might mitigate those threats.

The third segment will expose for the non-expert major approaches to conjunction assessment and collision avoidance as well as the uncertainties and estimated effectiveness. Only satellite owners and operators can judge whether to suffer a small, quantified risk or maneuver at the risk of revenue or important data. The tradeoffs will be presented for realistic situations. Finally, the possibility of guidelines, codes of conduct, treaties, and laws to facilitate sustainability will be discussed.

Speaker:



David Finkleman
Ph.D., Aeronautics
and Astronautics,
Massachusetts Institute of
Technology (MIT),
USA

19:00 - 22:00 Lockheed Martin Corporation VIP Reception (upon invitation only)

Location: The Tower of David, Old City of Jerusalem, TBC

19:30 - 22:00 Zarm Dinner (upon invitation only)

Location: Hotel Mount Zion, Jerusalem

Thursday, 15 October

08:30 - 09:30 Plenary 6: Fifty Years of Spacewalking – The Ultimate Human Space Adventure

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

Since the first Spacewalk by Alexey Leonov in 1965, people have left the confines of a spacecraft to walk in space more than 700 times. This ultimate human space experience of turning a human into a spaceship has required numerous technical achievements to overcome the dangers. Spacewalkers have worked for thousands of hours to build spaceships and save missions. Beyond achieving mission objectives, they have had a profound societal impact; millions of images of people in spacesuits can be found in every walk of life today. The spacewalkers will discuss their personal reactions to this adventure, as well as the future role of spacewalking in human exploration.

Panellists



Buzz Aldrin
Moonwalker, Astronaut,
Apollo 11, Gemini 12,
USA



Christer Fuglesang
Most European
Spacewalking,
Sweden



Alexei Leonov
First Spacewalker,
Russia



Michael Lopez-Alegria
Most US Spacewalking,
USA



Sunita Williams
Most Female
Spacewalking,
USA



MODERATOR
Soichi Noguchi
Japanese Spacewalker,
President,
Association of Space
Explorers,
Japan



ORGANIZER
Andy Turnage
Executive Director,
Association of Space
Explorers,
USA



ORGANIZER
Cristian Bank
Chairman,
IAF Human Spaceflight
Committee,
Germany

Start time: 09:45 Technical Sessions

No	Description	Room
A1.6	Astrobiology and Exploration	Oranim 3-A
A2.6	Microgravity Sciences Onboard the International Space Station and Beyond	314
A3.4	Small Bodies Missions and Technologies	Schwartz Hall
A6.5	Space Debris Removal Technologies	Eshkol 2
B1.4	Earth Observation Data Management Systems	Eshkol 3
B2.6	Advanced Space Communications and Navigation Systems	Dulzin Big B
B3.5	Astronaut Training, Accommodation, and Operations in Space	Ballroom A
B4.6A	Generic Technologies for Small/Micro Platforms	Eshkol 1
C1.6	Attitude Dynamics (2)	Teddy B
C2.6	Space Environmental Effects and Spacecraft Protection	Oranim 1
C4.5	Propulsion Technology (2)	Ballroom B

D1.4	Space Systems Architectures	Oranim 4
D2.6	Future Space Transportation Systems Verification and In-Flight Experimentation	Teddy C
D4.3	Space Elevator Tether and Space Mineral Resources	312
D5.2	Knowledge management and collaboration in space activities	302-303
D6.3	Enabling safe commercial spaceflight: vehicles and spaceports	Kerem Carmit
E1.6	Calling Planet Earth - Space Outreach to the General Public	Oranim 3-B
E3.5-E7.6	30th IAA/IISL Scientific-Legal Roundtable: Universities as Actors in Space	313
E4.2	Scientific & technical histories	Dulzin Big A
E5.6	Space Societies, Professional Associations and Museums	Oranim 2

10:00 - 11:00 GNF – NASA Ames and Future of Space Exploration, Science, and Aeronautics

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

Pushing the frontiers of aeronautics and space exploration presents multiple challenges. NASA Ames Research Center is at the forefront of tackling these issues, conducting cutting edge research in the fields of air traffic management, entry systems, advanced information technology, intelligent human and robotic systems, astrobiology, aeronautics, space, earth and life sciences and small satellites. Knowledge gained from this research helps ensure the success of NASA's missions, leading us closer to a world that was only imagined as science fiction just decades ago.

Organized by:

IAF Young Professional Programme



Speaker:



Jacob Cohen, Ph.D.,
Chief Scientist,
NASA Ames Research
Center
USA

11:00 - 13:30 GNF – Visual Impairment and Intracranial Pressure (VIIP) – an Emerging Health Issue in Space

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

Altered vision in the majority of astronauts has recently been discovered after 6-month missions on board the International Space Station. Structural eye changes in combination with widened optic nerve sheaths and posterior globe flattening, suggesting that the condition is associated with increased intracranial pressure. Clinical experience indicates that the VIIP syndrome manifestations may not be reversible, and the possibility of irreversible damage to the brain has not been fully explored. Therefore this emerging condition is considered a novel, substantial obstacle in the deployment of long-term human space missions.

The present session will provide an overview of possible mechanisms that may cause the condition, and demonstrate the research strategy that is currently used to address the VIIP issue. In an integrative manner, evidence will be linked from in-flight data, parabolic flight experiments, and ground-based analog research. Moreover, international partners have united in order to jointly provide evidence and identify suitable countermeasure strategies. This effort is reflected by the speaker list of the event, which involves an international and multi-disciplinary consortium.

Organized by:

German Aerospace Center (DLR)
National Space Biomedical Research Institute (NSBRI)



Panellists:



Eric Bershada
M.D.,
Baylor College of Medicine



Dorit Donoviel
PhD,
Baylor College of Medicine,
Center for Space Medicine



Hanspeter Esriel
Killer
M.D., Director of
the Department of
Ophthalmology,
Head of
Neuroophthalmology
Kantonsspital Aarau



Benjamin Levine
M.D., F.A.C.C., F.A.H.A.,
F.A.C.S.M.,
Director,
Institute for Exercise and
Environmental Medicine
S. Finley Ewing Jr. Chair for
Wellness at Texas Health
Presbyterian
Dallas Harry S. Moss Heart
Chair for Cardiovascular
Research
Professor of Medicine and
Cardiology



**Karina Marshall
Bowman**
MSc, PhD student,
Division Space Physiology
Institute of Aerospace
Medicine
German Aerospace Center
(DLR)



Jörn Rittweger
M.D., Head of Division
Space Physiology, Institute
of Aerospace Medicine,
German Aerospace Center

13:30 - 14:30 Plenary 7: The Moon – a continent and a gateway for our future

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

The panel will review discoveries and key results from recent lunar missions, and the plans for upcoming lunar exploration. They will discuss how this serves as a gateway for scientific studies, technical validation and development, the next generation of landers, buildup of facilities in a lunar robotic village, the use of lunar resources, and the Moon as a platform for biological studies and observation of the cosmos, and sustainable human activities. They will address also the social, education, peaceful inspirational and economical values of lunar exploration for humankind. Also technologies, life support systems and human operations can be validated on the Moon, as a gateway to Mars and other solar system destinations.

The panel will discuss possible visions, the main events in the next International Lunar Decade, and roadmaps towards settlements, sustainable international lunar bases and a Moon global village on our 8th continent.

Panellists:



Peter Batenburg
Young Lunar Explorers
Representative
Selected Recipient
of the SGAC/ILEWG
Competition,
The Netherlands



William Gerstenmaier
Associate Administrator
for Human Exploration
and Operations,
National Aeronautics and
Space Administration
(NASA)
USA



Oleg Gorshkov
Acting Director,
TSNIImash,
Russia



Robert (Bob) Richards
Founder & CEO,
Moon Express, Inc.,
USA



**Johann-Dietrich
Woerner**
Director General,
European Space Agency
(ESA),



**MODERATOR
Bernard Foing**
Chair ESA/ESTEC Staff
Committee, Senior
Exploration Officer HSO-I,
The Netherlands

14:30 - 18:30 IISL Moot Court Finals

Location: The Rose and Wilfred P. Cohen Auditorium, The Hebrew University of Jerusalem

Start time: 14:45 Technical Sessions

No	Description	Room
A3.5	Solar System Exploration	Schwartz Hall
A5.3-B3.6	Human and Robotic Partnerships in Exploration - Joint session of the Human Spaceflight and Exploration Symposia	Ballroom A
A6.6	Space Debris Removal Concepts	Eshkol 2
A7.3	Technology Needs for Future Missions, Platforms	314
B1.5	Earth Observation Applications and Economic Benefits	Eshkol 3
B2.8-YPVF.3	Space Communications and Navigation Young Professionals Virtual Forum	Kerem Carmit
B4.6B	Generic Technologies for Nano/Pico Platforms	Eshkol 1
B5.2	Integrated Applications End-to-End Solutions	Dulzin Big B
B6.1	Human Spaceflight Operations	313
C1.7	Guidance, Navigation & Control (1)	Teddy B
C2.7	Space Vehicles – Mechanical/Thermal/Fluidic Systems	Oranim 1
C3.4	Small and Very Small Advanced Space Power Systems	Oranim 3-A
C4.6	New Missions Enabled by New Propulsion Technology and Systems	Ballroom B
D1.5	Training, Achievements, and Lessons Learned in Space Systems	Oranim 4
D2.7	Small Launchers: Concepts and Operations	Teddy C
D4.4	Strategies for Rapid Implementation of Interstellar Missions: Precursors and Beyond	312
D5.4	Cyber-security threats to space missions and countermeasures to address them	302-303
E1.7	New Worlds - Innovative Space Education and Outreach	Oranim 3-B
E4.3	History of Israeli contribution to astronautics	Dulzin Big A
E5.4	Contemporary Arts Practice and Outer Space: A Multi-Disciplinary Approach	Oranim 2

15:00 - 15:30 GNF – Andrea Boese Memorial

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

“What we have once enjoyed, we can never lose. All that we love deeply becomes part of us.” Helen Keller

This GNF event is being held to remember Andrea Boese, an important member of the IAF community who sadly passed away 29 August 2015. Some of her friends/colleagues will say a few words to remember her.

After graduating in Nutrition Sciences in 2000, Andrea Boese worked at the German Aerospace Center (DLR) Institute for Aerospace Medicine. In 2007 she joined the Main Department for Strategy and International Relations at DLR, focusing on space policy, exploration and strategic networks. During her secondment to NASA, she worked at Headquarters in Washington, D.C. and Johnson Space Center (JSC), Houston and received the NASA JSC Director’s Innovation Team Award in 2011.

Later she became Head of Diversity and Equal Opportunities and Chief Diversity Officer at DLR before moving to the European Space Agency as Special Advisor to the Director General.

Andrea helped establishing the network Women in Aerospace-Europe (WIA-E) and served as WIA-Europe Director of International Relations. She was an elected member of the International Academy of Astronautics (IAA). Since 2012 Andrea served as IAF Vice-President covering the portfolios Outreach and Space Societies as well as Workforce Development and Global Conferences.

She was an enthusiastic member of the IAF Community bringing new life to all IAF activities, specifically with the younger generation. She was a true visionary and inspired many.

She will be dearly missed.

Speakers:



Pascale Ehrenfreund
Chair of Executive Board,
German Aerospace
Centre (DLR),
Germany



Kiyoshi Higuchi
IAF President
International
Astronautical Federation
(IAF)



Claudia Kessler
CEO,
HE Space,
Germany



**Johann-Dietrich
Woerner**
Director General,
European Space Agency
(ESA)

16:45 - 17:45 GNF – Bloostar, the shortcut to orbit – Press Conference

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

More microsatellites are being built every day, and many companies are basing their business around constellations of nanosatellites. Flying technical, scientific and commercial payloads using high-altitude balloons to over 30km altitude is our current operational activity. The natural next step is to aim higher. We are now ready to transform the launch industry for small payloads.

The objective of Bloostar by zero2infinity is to design and develop a high-altitude balloon assisted launcher (or rockoon – a rocket fired from a balloon). The rockoon concept presents tremendous advantages. The fact that the rocket does not need to travel through the denser parts of the atmosphere saves an important part of the required deltaV. The rocket ignites in close-to-vacuum conditions with tremendous benefits in terms of lower drag, smaller gravity losses and adapted nozzles. The simplicity of the system ensures the lowest cost for a dedicated microsatellite launch. Bloostar is our light, efficient and sustainable launcher.

The benefits of having a high-altitude balloon as a first stage have already been demonstrated. Bloostar presents a novel architecture offering a new value proposition built around proven technologies. Increased balloon payload capabilities together with advanced lightweight materials for the launcher and powerful mission analysis tools make it feasible to step into orbital launches from high-altitude balloons.

During the press conference you will learn more about our concept, timeline and strategy. The new website will be unveiled, together with a video presenting the launcher, its flight cycle and its innovative capabilities in terms of volume of payloads. The key people behind the idea and the company will be present to answer questions.

Organized by:

zero2infinity



Speakers:



Dimitris Bountolos
COO,
zero2infinity



Guillaume Girard
Advisor and Partner
zero2infinity



José Mariano López Urdiales
Founder and CEO,
zero2infinity



Michael López-Alegria
Senior Advisor, and former
NASA Astronaut,
National Aeronautics and
Space Administration
(NASA)

17:45 - 18:45 Highlight Lecture 3: Orion's First Flight Test: Taking Human Spaceflight Beyond LEO for the Future of Human Exploration

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

Orion's first flight test last December took the spacecraft to an altitude of 3600 miles, farther than any human spacecraft has been in 42 years. The nearly flawless flight tested the heat shield, separation systems, launch and entry environments, avionics, and critical re-entry systems. The challenges, problems and successes of this difficult mission, as well as the next steps in taking humans beyond Low Earth Orbit, will be explained by two top Program Managers from NASA and Lockheed Martin, the prime contractor.

Speakers:



William Gerstenmaier
Associate Administrator,
Human Exploration and
Operations Mission
Directorate,
National Aeronautics and
Space Administration
(NASA)
USA



W. Michael Hawes
Vice President and Orion
Program Manager,
Lockheed Martin Space
Systems,
USA

19:00 - 22:00 IAC 2016 Reception by Mexican Space Agency (AEM) (upon invitation only)

Location: Teddy A, Jerusalem International Convention Center (ICC)

19:00 - 22:30 IISL Dinner (upon invitation only)

Location: The Maierdsdorf Faculty Club and Conference Center, The Hebrew University of Jerusalem, Mount Scopus, Jerusalem

Friday, 16 October

08:30 - 09:30 Late Breaking News

Location: Ussishkin Auditorium, Jerusalem International Convention Center (ICC)

The exact topic of the LBN will be announced at the congress.

09:30 - 11:30 GNF – Astronauts event

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

Astronauts from all over the world will be sharing their experiences in space and answering questions from the audience. This event will be open to the general public.

Speakers and Panellists:



Buzz Aldrin (Invited)
Apollo 11 Moonwalker
United States



Reinhold Ewald
German MIR'97
Research Cosmonaut,
Germany



Alexei Leonov (Invited)
First Spacewalker
Russia



Sunita Williams
Most Spacewalking by a
Female
United States



MODERATOR
Franco Bonacina
Director General's
Spokesperson and Head
of the Protocol Office
Director General's
Cabinet,
European Space Agency
(ESA)

Start time: 09:45 Technical Sessions

No	Description	Room
A1.7	Life Support, habitats and EVA Systems	Oranim 3-A
A3.2C	Moon Exploration – Part 3	Schwartz Hall
A6.7	Operations in Space Debris Environment, Situational Awareness	Eshkol 2
B1.6	Water resources management	Eshkol 3
B3.7	Advanced Systems, Technologies, and Innovations for Human Spaceflight	Ballroom A
B4.8	Small Spacecraft for Deep-Space Exploration	Eshkol 1
B5.1	Tools and Technology in Support of Integrated Applications	Dulzin Big B
B6.2	New Operations Concepts, Advanced Systems and Commercial Space Operations	313
C1.8	Guidance, Navigation & Control (2)	Teddy B
C2.8	Specialised Technologies, Including Nanotechnology	Oranim 1
C4.7-C3.5	Joint Session on Nuclear Propulsion and Power	Ballroom B

D1.6	System Engineering - Methods, Processes and Tools (2)	Oranim 4
D2.8-A5.4	Going To and Beyond the Earth-Moon System: Human Missions to Mars, Libration Points and NEO's	Teddy C
D3.4	Space Technology and System Management Practices and Tools	312
D5.3	Prediction and measurements of space weather conditions and impacts on space missions	302-303
E1.8	Open Space: Participatory Space Education and Outreach	Oranim 3-B
E2.4	Educational Pico and Nano Satellites	Kerem Carmit
E5.5	Space Assets and Disaster Management	Oranim 2
E7.5	Recent Developments in Space Law	Dulzin Big A

12:00 - 12:45 GNF – Northern Lights Documentary

Location: Small Dulzin, Jerusalem International Convention Center (ICC)

"The Northern Lights - a Magic Experience" is an award-winning documentary about the Northern lights - nature's most spectacular light phenomena.

The 25 minute documentary takes you on a breathtaking journey through space. By using pedagogic top-quality animations and spectacular solar imagery from NASA satellites it tells the full story of the northern lights from myth to science. The film is packed with interesting historical anecdotes and includes tips about how to take your own stunning aurora photos. This is the most complete story of the Northern lights and includes the some of the world best images and videos of the Northern Lights.

Organized by:

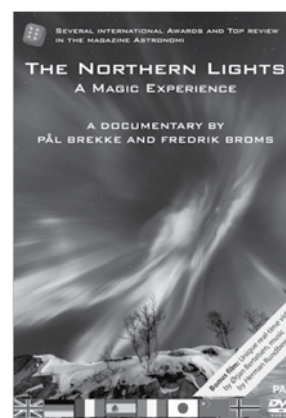
Norwegian Space Center



Speaker:



Geir Hovmork
Deputy Director,
Norwegian Space Center,
Norway



Start time: 13:30 Technical Sessions

No	Description	Room
A6.8	(joint session with Space Security Committee): Policy, Legal, Institutional and Economic Aspects of Space Debris Detection, Mitigation and Removal	Eshkol 2
B2.7	Fixed and Broadcast Communications	Dulzin Big B
B4.7	Space Systems and Architectures Featuring Cross-Platform Compatibility	Eshkol 1
C1.9	Guidance, Navigation & Control (3)	Teddy B
C2.9	Advancements in Materials Applications and Rapid Prototyping	Oranim 1

C4.8	Advanced and Combined Propulsion Systems	Ballroom B
D1.7	Hosted Payloads - Concepts, Techniques and Challenges, Missions and Applications	Oranim 4
E1.9	Space Culture	Oranim 3-B
E7.7-B3.8	Joint IAF-IISL Session on the Legal Framework for Collaborative Space Activities	Ballroom A

16:30 - 17:30 Closing Ceremony

Location: Small Dulzin, ICC, Jerusalem International Convention Center (ICC)

The Closing Ceremony provides a formal end to the activities of the IAC. There will be a video summary of the week's highlights, presentation of awards, and at the end of the ceremony, the Congress flag will be handed over to the next host country – Mexico.

18:00 - 22:00 Gala Dinner

Location: Naura Restaurant, Abu Gosh

The Gala Dinner will be held on the evening of Friday, 16 October. It concludes the Congress and is meant to put a refined – and relaxed – finish to the week that is likely to have been full of meetings, presentations, networking and sightseeing. The Gala Dinner will be an unforgettable night of unique Middle-Eastern culture and cuisine.

The dinner ticket includes complimentary transportation to the venue, dinner and a performance.

Pickup point: "HaAliya" access road to the Jerusalem ICC. Please wait next to the registration marquise.



4.3 Meeting Schedule

Time	Event	Room
Saturday, 10 October 2015		
08:00 – 17:00	IAA Commission 1	302-303
08:00 – 17:00	IAA Commission 2	312
08:00 – 17:00	IAA Commission 3	313
08:00 – 17:00	IAA Commission 4	314
08:00 – 17:00	IAA Commission 5	Dulzin Big A
08:00 – 17:00	IAA Commission 6	Dulzin Big B
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
09:00–17:45	IAA Commission Plenary Session	Ballroom B, Crowne Plaza Hotel
09:30 – 10:30	IAF IPMC Space Agency SubCommittee	310
10:00 – 12:00	IAF Finance Committee	Ein Gedi Hall, Crowne Plaza Hotel
10:00 – 13:30	IAF Space Debris Committee	301
11:00 – 17:00	IAF IPMC Committee Meeting	310
12:30 – 14:00	IAF TAC Committee Meeting	311
14:00 – 17:30	IAF Space Exploration Committee	301
14:00 – 17:00	IAF WD YPP Committee Meeting	311
14:30 – 16:00	IPC Steering Group	307
17:00 – 18:30	IPC General Meeting	Teddy A
17:00 – 18:30	IPC General Meeting	Teddy A
Sunday, 11 October 2015		
08:00 – 16:00	Educators Professional Development Workshop	312
08:00 – 18:00	IAF IPMC YP Workshop	Oranim 3-B
08:00 – 18:00	IAA Academy Day	Ballroom B, Crowne Plaza Hotel
08:00 – 18:00	IAF IPMC YP Workshop	Oranim 3-B
08:00 – 18:00	NASA Bilaterals	316 - 308
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:30 – 13:30	Cross-Cultural Workshop	310
08:30 – 13:30	Cross-Cultural Workshop- Breakout Room	311
09:00 – 12:00	IAF SEOC Committee Meeting	306
09:00 – 13:00	IAC Hosts Summit	Oranim 1
12:30 – 13:30	IAF Global Workforce Sub-committee	306
13:00–17:30	IAF ISEB Opening Day	Teddy C
13:00 – 18:00	JAXA Bilaterals	501
14:00 – 15:30	IAF EO Committee	305
14:00 – 16:00	IAF Space Transportation Committee	301
14:00 – 18:00	IAF Materials and Structure Committee	306
14:00 – 18:00	IAF Astrodynamics Committee	307
14:00 – 18:00	IAF Bureau 1 Meeting	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel

Time	Event	Room
15:00 – 17:00	IAF Propulsion Committee	310
15:00 – 17:00	IAF Propulsion Committee	310
15:30 – 17:00	IAF GEOSS Committee	305
16:00 – 18:00	IAF Commercial Spaceflight Safety Committee	301
17:00 – 18:00	Press Briefing	Oranim 3-A
18:00 – 19:00	ESL/YSL Meeting	305
19:00 – 21:00	YP Networking Event	Teddy A
Monday, 12 October 2015		
08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 18:00	CNSA Bilaterals	Hadarim Patio
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	JAXA Bilaterals	501
08:00 – 18:00	ISRO Bilaterals	502
09:00 – 11:00	Opening Ceremony	Ussiskhin Auditorium
11:00 – 13:00	IAF Space Systems Committee	310
11:00 – 12:00	CSAC Preparatory	307
11:15 – 12:15	Exhibition Opening and Tour	Agam Foyer
11:30 – 13:00	NASA-ESA meeting	305
12:00 – 13:00	Buzz Aldrin Press Conference	Oranim 1
13:00 – 13:30	Presentation of Astronauts' original space suits and new space education programme	Oranim 1
13:30 – 15:00	Plenary 1: Heads of Agencies	Ussiskhin Auditorium
14:00 – 18:00	IISL Board of Directors	301
15:00 – 15:15	GNF Opening	Small Dulzin
15:00 – 17:00	IAA SETI Permanent Committee	305
15:00 – 17:00	IAF Entrepreneurship Committee	306
15:00 – 18:00	IAF General Assembly	Teddy A
15:15 – 15:45	GNF: Heads of Agency Press Conference	Small Dulzin
16:00 – 17:00	ESA, DLR and OHB Bilateral Meeting	307
16:30 – 17:15	GNF: NanoSat's Success: Innovative lessons for the entire Space Community	Small Dulzin
17:00 – 18:00	IAF Space Economy Committee	306
17:30 – 18:15	GNF: China Manned Space Program	Small Dulzin
18:15 – 19:15	NASA Administrator Charles Bolden Meets US Students	Small Dulzin
18:15 – 19:30	Plenary 2: Remote Superspectral and Hyperspectral Sensing from Space	Ussiskhin Auditorium
Tuesday, 13 October 2015		
08:00 – 18:00	IAF CSAC Meeting	307
08:00 – 18:00	IAF Nomination Committee Meeting	311
08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 18:00	CNSA Bilaterals	502
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304

Time	Event	Room
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:00 – 18:00	JAXA Bilaterals	501
08:30 – 09:30	Plenary 3: Space Transportation Capabilities and Future Directions to enable Commercial, Scientific, and Human expansion into space	Ussiskhin Auditorium
09:00 – 10:00	CNES Bilaterals	Hadarim Patio
09:00 – 10:30	IAF Space Societies Committee	306
09:00 – 13:00	IAF Space Systems Workshop	310
09:00 – 13:00	IAF Space Operation Committee	301
09:30–10:45	GNF: Climate and Earth Observation – Challenges and Possibilities of Satellite Missions	Small Dulzin
09:30 – 11:00	SGAC Executive Council	305
10:00 – 11:30	ISRO Bilaterals	Hadarim Patio
10:45–12:00	GNF: New Space Economy – the dawn of a new era or the next economic bubble?	Small Dulzin
11:00 – 14:15	IISL Moot Court Semi-Finals	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel
11:00 – 14:15	IISL Moot Court Semi-Finals	Masada Hall+ Jericho Hall Crowne Plaza Hotel
11:30 – 12:30	CNES Bilaterals	Hadarim Patio
12:00 – 12:45	Next Generation Plenary Meeting-Lunch	306
12:15–13:00	GNF: ESA Director General Jan Woerner meets the Press	Small Dulzin
12:30 – 18:00	ISRO Bilaterals	Hadarim Patio
12:30 – 14:00	IAF GRULAC meeting	305
13:00 – 13:45	ISA & NASA Signing Ceremony	Presidential Suit Crowne Plaza Hotel
13:00 – 14:00	IAF Small Sat Committee	301
13:00 – 14:30	IAF Space Security Committee	306
13:30 – 14:30	Plenary 4: Next Generation Plenary: International Space Station as the Gateway for Humankind's Future in Space and on Earth	Ussiskhin Auditorium
14:00 – 14:45	ISA&CNES Meeting	Presidential Suit Crowne Plaza Hotel
14:00 – 18:00	ISEB Heads of Education Meeting	305
14:30 – 16:00	IAF CLIODN Meeting	301
14:45–17:45	GNF: Vega Small Launcher: the best workhorse answer to your LEO needs	Small Dulzin
15:00 – 18:00	IAF ACHA Meeting	310
16:00 – 17:00	Outer Space Treaty Meeting	301
17:00 – 18:00	IISL-Australia Meeting	301
17:45 – 18:45	High Light Lecture 1: The International Rosetta Mission – First Historical Rendezvous and Landing on a Comet	Ussiskhin Auditorium
19:00 – 21:00	YP Networking Event	Teddy A
Wednesday, 14 October 2015		
08:00 – 18:00	IAF Nomination Committee Meeting	311
08:00 – 18:00	IADC Meeting	310
08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 11:00	CNSA Bilaterals	Hadarim Patio

Time	Event	Room
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:00 – 18:00	JAXA Bilaterals	501
08:30 – 09:30	Plenary 5: Small Satellites – Big Opportunities in the New Age	Ussiskhin Auditorium
09:00 – 10:30	IAF SUAC Meeting	306
09:00 – 11:30	NASA AA for Human Exploration	Arad Hall, Crowne Plaza Hotel
09:00 – 11:30	IAF Space Museums Meeting	301
09:30 – 11:00	SGAC Advisory Board Meeting	305
09:30–11:45	GNF: Hybrid- and full Electric Propulsion – what is changing orbital propulsion?	Small Dulzin
09:30 – 12:30	IAF KMTC Meeting	307
10:30 – 11:30	IAF Industry Relations Committee Meeting	306
11:00 – 12:00	IAF CSAC Meeting	Ein Gedi Hall, Crowne Plaza Hotel
11:00 – 13:00	IAA Study Group 4.21 Meeting	305
11:30 – 14:30	WSWA Board Meeting	301
12:00 – 12:30	GNF: There are No Borders in Space: International Cooperation Will Drive the New Space Age	Teddy A
12:45 – 13:15	Interactive Presentations Award Ceremony	Teddy A
12:45 – 14:45	IISL General Assembly	Dulzin Big A
13:00 – 15:00	IAA Study Group 4.18	307
13:15–14:15	GNF: Prospects of Human Spaceflight – Russian view	Small Dulzin
14:00 – 18:00	ISEB Heads of Education Meeting	305
14:30–15:30	GNF: How to launch a career in space?	Small Dulzin
15:00 – 17:00	IAF HAC Meeting	301
15:00 – 17:00	IAA Study Group 3.22	307
15:45–17:45	GNF: Rafael's Microsatellites Enhanced Capabilities Utilizing Electric Propulsion Systems	Small Dulzin
16:00 – 18:00	IAF HSF Committee Meeting	306
17:45 – 18:45	High Light Lecture 2: Sustaining the Space Environment: the State of Space Situational Awareness, Conjunction Warning and Collision	Ussiskhin Auditorium
19:00 – 21:00	YP Networking Event	Teddy A
Thursday, 15 October 2015		
08:00 – 18:00	IAF Nomination Committee	311
08:00 – 18:00	NASA Bilaterals	316 – 308
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:30 – 09:30	Plenary 6: Fifty Years of Spacewalking – The Ultimate Human Space Adventure	Ussiskhin Auditorium
08:30 – 11:30	IAF SEOC Meeting	306
09:00 – 13:00	ROOM Board Meeting	305
10:00–11:00	GNF: NASA Ames and Future of Space Exploration, Science, and Aeronautics	Small Dulzin
11:30–13:30	GNF: Visual Impairment and Intracranial Pressure (VIIP) – an emerging health issue in Space	Small Dulzin

Time	Event	Room
12:30 – 14:30	IAA History Committee	306
13:00 – 14:30	IAA Acta Astronautica Editorial Board Meeting	307
13:30 – 14:30	Plenary 7: The Moon – a Continent and a Gateway for our Future	Ussiskhin Auditorium
14:00 – 18:00	IAF Bureau Meeting	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel
14:00 – 18:00	i-BEC Meeting	301
14:30 – 16:00	IPC steering Group	307
14:30 – 18:30	IISL Moot Court Finals	Hebrew University
15:00–15:30	GNF: Memorial Event for Andrea Boese	Small Dulzin
15:00 – 17:00	ROOM Board Meeting	305
15:00 – 17:00	IAF APRG meeting	306
16:00 – 18:00	IAF SCAN Meeting	301
16:00 – 18:00	IAA Study Group 3.23	Masada Hall, Crowne Plaza Hotel
16:45–17:45	GNF: Bloostar, the shortcut to orbit – Press Conference	Small Dulzin
17:00 – 19:00	IAF Astrodynamics Technical Committee	307
17:45 – 18:45	High Light Lecture 3: Orion's First Flight Test: Taking Human Spaceflight Beyond LEO for the Future of Human Exploration	Ussiskhin Auditorium

Friday, 16 October 2015		
08:00 – 18:00	NASA Bilaterals	316 - 308
08:00 – 18:00	ESA Bilaterals	315
08:00 – 18:00	Lockheed Martin Bilaterals 1	304
08:00 – 18:00	Lockheed Martin Bilaterals 2	309
08:30 – 09:30	Late Breaking News	Ussiskhin Auditorium
09:00 – 13:00	ROOM Board Meeting	305
09:30 – 14:00	IAF General Assembly	Teddy A
09:30–11:30	GNF: Astronauts Event	Small Dulzin
12:00–12:45	GNF: The Northern Lights - a Magic Experience	Small Dulzin
15:00 – 16:00	IAF Bureau Meeting	Ein Gedi Hall+Arad Hall Crowne Plaza Hotel
16:30–17:30	Closing Ceremony	Small Dulzin

5 Technical Programme

5.1 Category Coordinators and Judges of the IP Award Committee



Chairman of the Interactive Presentations Award Committee

Christophe Bonnal
*Centre National d'Etudes Spatiales (CNES),
France*

Cat A SCIENCE AND EXPLORATION



Maria-Antonietta Perino
*Thales Alenia Space,
Italy*

Cat B APPLICATIONS AND OPERATIONS



Otto Koudelka
*Graz University of Technology (TU Graz),
Austria*

Cat C TECHNOLOGY



Li Ming
*CAST China Academy of Space Technology (CAST),
China*

Cat D INFRASTRUCTURE



John David Bartoe
*National Aeronautics and Space Administration (NASA),
USA*

Cat E SPACE AND SOCIETY



Chris Welch
*International Space University (ISU),
France*

5.2 Symposium Keynote Speakers

Nr.	Session name	Date	Time	Room
B2	SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM			
	Space Communications and Navigation Young Professionals Virtual Forum KEYNOTE: SPACETECH - A CURRICULUM IN SPACE SYSTEMS AND BUSINESS ENGINEERING <i>Prof. Otto Koudelka, Graz University of Technology (TU Graz), Austria</i>	15-Oct-15	14:45	Kerem Carmit
B4	22nd IAA SYMPOSIUM ON SMALL SATELLITE MISSIONS			
	Small Spacecraft for Deep-Space Exploration KEYNOTE: AN OVERVIEW OF CUBESATS FOR DEEP SPACE EXPLORATION OF NASA'S JET PROPULSION LABORATORY <i>Dr. Leon Alkalai, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States</i>	16-Oct-15	09:45	Eshkol 1
C1	ASTRODYNAMICS SYMPOSIUM			
	Mission Design, Operations & Optimization (2) 21 st JOHN V. BREAKWELL KEYNOTE LECTURE: RELATIVE MOTION <i>Dr. Kyle Alfriend Texas A&M University, United States</i>	13-Oct-15	09:45	Teddy B
C2	MATERIALS AND STRUCTURES SYMPOSIUM			
	Advanced Materials and Structures for High Temperature Applications 5 TH PAOLO SANTINI MEMORIAL LECTURE: INVERSE METHODS IN IDENTIFICATION AND MODELING OF THERMAL PROCESSES IN AEROSPACE MATERIALS AND STRUCTURES: THEORY AND PRACTICE <i>Prof. Oleg Alifanov Moscow Aviation Institute, Russian Federation</i>	14-Oct-15	09:45	Oranim 1
C4	SPACE PROPULSION SYMPOSIUM			
	Electric Propulsion KEYNOTE: RESEARCH PROGRESS IN ROCKET BASED COMBINED CYCLE IN CHINA - AN OVERVIEW <i>Prof. Guoqiang He, Northwestern Polytechnical University, China</i>	14-Oct-15	14:45	Ballroom B

Nr.	Session name	Date	Time	Room
E1	SPACE EDUCATION AND OUTREACH SYMPOSIUM			
	Ignition - Primary Space Education 2015 FRANK J. MALINA ASTRONAUTICS MEDAL RECIPIENT ADDRESS <i>Prof. Boris Pschenichner, Department of Astronomy and Cosmonautics, Russian Federation</i>	12-Oct-15	15:15	Oranim 3-B
E7	58th IISL COLLOQUIUM ON THE LAW OF OUTER SPACE			
	7th Nandasiri Jasentuliyana Keynote Lecture on Space Law and Young Scholars Session KEYNOTE: THE LEGAL EVOLUTION OF A 'USE' OF SPACE: THE CASE OF REMOTE SENSING <i>Prof. Joanne Irene Gabrynowicz, University of Mississippi, United States</i>	13-Oct-15	09:45	Dulzin Big A

5.3 Technical Sessions by Symposium

Please check the IAC 2015 Application on your Mobile Phone to get the latest updates on the Technical Programme

Nr.	Session name	Date	Time	Room
A1 IAA/IAF SPACE LIFE SCIENCES SYMPOSIUM				
A1.2	Human Physiology in Space (1)	Tue, 13 Oct	09:45	Oranim 3-A
A1.3	Human Physiology in Space (2)	Tue, 13 Oct	14:45	Oranim 3-A
A1.4	Medical Care for Humans in Space	Wed, 14 Oct	09:45	Oranim 3-A
A1.5	Radiation Fields, Effects and Risks in Human Space Missions	Wed, 14 Oct	14:45	Oranim 3-A
A1.6	Astrobiology and Exploration	Thu, 15 Oct	09:45	Oranim 3-A
A1.7	Life Support, habitats and EVA Systems	Fri, 16 Oct	09:45	Oranim 3-A
A1.8	Biology in Space	Mon, 12 Oct	15:15	Oranim 3-A
A1.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
A2 MICROGRAVITY SCIENCES AND PROCESSES SYMPOSIUM				
A2.1	Gravity and Fundamental Physics	Mon, 12 Oct	15:15	314
A2.2	Fluid and Materials Sciences	Tue, 13 Oct	09:45	314
A2.3	Microgravity Experiments from Sub-Orbital to Orbital Platforms	Tue, 13 Oct	14:45	314
A2.4	Science Results from Ground Based Research	Wed, 14 Oct	09:45	314
A2.5	Facilities and Operations of Microgravity Experiments	Wed, 14 Oct	14:45	314
A2.6	Microgravity Sciences Onboard the International Space Station and Beyond	Thu, 15 Oct	09:45	314
A2.IP	Interactive Presentations			Plasma Screens Area
A3 SPACE EXPLORATION SYMPOSIUM				
A3.1	Space Exploration Overview	Mon, 12 Oct	15:15	Schwartz Hall
A3.2A	Moon Exploration – Part 1	Tue, 13 Oct	09:45	Schwartz Hall
A3.2B	Moon Exploration – Part 2	Tue, 13 Oct	14:45	Schwartz Hall
A3.2C	Moon Exploration – Part 3	Fri, 16 Oct	09:45	Schwartz Hall
A3.3A	Mars Exploration – missions current and future	Wed, 14 Oct	09:45	Schwartz Hall
A3.3B	Mars Exploration – Science, Instruments and Technologies	Wed, 14 Oct	14:45	Schwartz Hall
A3.4	Small Bodies Missions and Technologies	Thu, 15 Oct	09:45	Schwartz Hall
A3.5	Solar System Exploration	Thu, 15 Oct	14:45	Schwartz Hall
A3.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
A4 44th IAA SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) – The Next Steps				
A4.1	SETI 1: SETI Science and Technology	Tue, 13 Oct	14:45	302-303
A4.2	SETI 2: SETI and Society	Wed, 14 Oct	14:45	312
A4.IP	Interactive Presentations	Wed, 14 Oct	13:15	
A5 18th IAA SYMPOSIUM ON HUMAN EXPLORATION OF THE SOLAR SYSTEM				
A5.1	Human Exploration of the Moon and Cislunar Space	Wed, 14 Oct	14:45	Eshkol 3
A5.2	Human Exploration of Mars	Tue, 13 Oct	14:45	Eshkol 3
A5.3-B3.6	Human and Robotic Partnerships in Exploration - Joint session of the Human Spaceflight and Exploration Symposia	Thu, 15 Oct	14:45	Ballroom A
A5.4-D2.8	Human Missions to Libration points and NEO's	Fri, 16 Oct	09:45	Teddy C

Nr.	Session name	Date	Time	Room
A5.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
A6 13th IAA SYMPOSIUM ON SPACE DEBRIS SYMPOSIUM				
A6.1	Measurements	Mon, 12 Oct	15:15	Eshkol 2
A6.10-YPVF.5	Space Debris Young Professionals Virtual Forum	Mon, 12 Oct	15:15	Kerem Carmit
A6.2	Modelling and Risk Analysis	Tue, 13 Oct	09:45	Eshkol 2
A6.3	Hypervelocity Impacts and Protection	Wed, 14 Oct	09:45	Eshkol 2
A6.4	Mitigation and Standards	Tue, 13 Oct	14:45	Eshkol 2
A6.5	Space Debris Removal Technologies	Thu, 15 Oct	09:45	Eshkol 2
A6.6	Space Debris Removal Concepts	Thu, 15 Oct	14:45	Eshkol 2
A6.7	Operations in Space Debris Environment, Situational Awareness	Fri, 16 Oct	09:45	Eshkol 2
A6.8	(joint session with Space Security Committee): Policy, Legal, Institutional and Economic Aspects of Space Debris Detection, Mitigation and Removal	Fri, 16 Oct	13:30	Eshkol 2
A6.9	Modelling and Orbit Determination	Wed, 14 Oct	14:45	Eshkol 2
A6.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
A7 SYMPOSIUM ON TECHNOLOGICAL REQUIREMENTS FOR FUTURE SPACE ASTRONOMY AND SOLAR-SYSTEM SCIENCE MISSIONS				
A7.1	Space-Agencies Long-Term Views	Mon, 12 Oct	15:15	302-303
A7.2	Scientific Motivation and Requirements for Future Space Astronomy and Solar System Science Missions	Tue, 13 Oct	09:45	302-303
A7.3	Technology Needs for Future Missions, Platforms	Thu, 15 Oct	14:45	314
B1 EARTH OBSERVATION SYMPOSIUM				
B1.1	International Cooperation in Earth Observation Missions	Mon, 12 Oct	15:15	Eshkol 3
B1.2	Future Earth Observation Systems	Tue, 13 Oct	09:45	Eshkol 3
B1.3	Earth Observation Sensors and Technology	Wed, 14 Oct	09:45	Eshkol 3
B1.4	Earth Observation Data Management Systems	Thu, 15 Oct	09:45	Eshkol 3
B1.5	Earth Observation Applications and Economic Benefits	Thu, 15 Oct	14:45	Eshkol 3
B1.6	Water resources management	Fri, 16 Oct	09:45	Eshkol 3
B1.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
B2 SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM				
B2.1	Mobile Satellite Communications and Navigation Technology	Mon, 12 Oct	15:15	Dulzin Big B
B2.2	Joint Session on Dual Use (civil and military) Aspects of Telecommunications and GNSS	Tue, 13 Oct	09:45	Dulzin Big B
B2.3	Space-Based Navigation Systems and Services	Tue, 13 Oct	14:45	Dulzin Big B
B2.4	Near-Earth and Interplanetary Communications	Wed, 14 Oct	09:45	Dulzin Big B
B2.5	Advanced Technologies for Space Communications and Navigation	Wed, 14 Oct	14:45	Dulzin Big B
B2.6	Advanced Space Communications and Navigation Systems	Thu, 15 Oct	09:45	Dulzin Big B
B2.7	Fixed and Broadcast Communications	Fri, 16 Oct	13:30	Dulzin Big B
B2.8-YPVF.3	Space Communications and Navigation Young Professionals Virtual Forum	Thu, 15 Oct	14:45	Kerem Carmit
B2.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
B3 HUMAN SPACEFLIGHT SYMPOSIUM				
B3.1	Governmental Human Spaceflight Programs (Overview)	Mon, 12 Oct	15:15	Ballroom A
B3.2	Commercial Human Spaceflight Programs	Tue, 13 Oct	09:45	Ballroom A
B3.3	Utilization & Exploitation of Human Spaceflight Systems	Tue, 13 Oct	14:45	Ballroom A
B3.4-B6.5	Flight & Ground Operations of HSF Systems – Joint Session of the Human Spaceflight and Space Operations Symposia	Wed, 14 Oct	09:45	Ballroom A
B3.5	Astronaut Training, Accommodation, and Operations in Space	Thu, 15 Oct	09:45	Ballroom A

Nr.	Session name	Date	Time	Room
B3.6-A5.3	Human and Robotic Partnerships in Exploration - Joint session of the Human Spaceflight and Exploration Symposia	Thu, 15 Oct	14:45	Ballroom A
B3.7	Advanced Systems, Technologies, and Innovations for Human Spaceflight	Fri, 16 Oct	09:45	Ballroom A
B3.8-E7.7	Joint IAF-IISL Session on the Legal Framework for Collaborative Space Activities	Fri, 16 Oct	13:30	Ballroom A
B3.9-YPVF.2	Human Spaceflight Young Professional Virtual Forum	Wed, 14 Oct	14:45	Kerem Carmit
B3.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
B4	22nd IAA SYMPOSIUM ON SMALL SATELLITE MISSIONS			
B4.1	16 th Workshop on Small Satellite Programmes at the Service of Developing Countries	Tue, 13 Oct	09:45	Eshkol 1
B4.2	Small Space Science Missions	Mon, 12 Oct	15:15	Eshkol 1
B4.3	Small Satellite Operations	Tue, 13 Oct	14:45	Eshkol 1
B4.4	Small Earth Observation Missions	Wed, 14 Oct	09:45	Eshkol 1
B4.5	Access to Space for Small Satellite Missions	Wed, 14 Oct	14:45	Eshkol 1
B4.6A	Generic Technologies for Small/Micro Platforms	Thu, 15 Oct	09:45	Eshkol 1
B4.6B	Generic Technologies for Nano/Pico Platforms	Thu, 15 Oct	14:45	Eshkol 1
B4.7	Space Systems and Architectures Featuring Cross-Platform Compatibility	Fri, 16 Oct	13:30	Eshkol 1
B4.8	Small Spacecraft for Deep-Space Exploration	Fri, 16 Oct	09:45	Eshkol 1
B5	SYMPOSIUM ON INTEGRATED APPLICATIONS			
B5.1	Tools and Technology in Support of Integrated Applications	Fri, 16 Oct	09:45	Dulzin Big B
B5.2	Integrated Applications End-to-End Solutions	Thu, 15 Oct	14:45	Dulzin Big B
B6	SPACE OPERATIONS SYMPOSIUM			
B6.1	Human Spaceflight Operations	Thu, 15 Oct	14:45	313
B6.2	New Operations Concepts, Advanced Systems and Commercial Space Operations	Fri, 16 Oct	09:45	313
B6.3	Mission Operations, Validation, Simulation and Training	Mon, 12 Oct	15:15	313
B6.5-B3.4	Flight & Ground Operations of HSF Systems – Joint Session of the Human Spaceflight and Space Operations Symposia	Wed, 14 Oct	09:45	Ballroom A
B6.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
C1	ASTRODYNAMICS SYMPOSIUM			
C1.1	Mission Design, Operations & Optimization (1)	Mon, 12 Oct	15:15	Teddy B
C1.2	Mission Design, Operations & Optimization (2)	Tue, 13 Oct	09:45	Teddy B
C1.3	Orbital Dynamics (1)	Tue, 13 Oct	14:45	Teddy B
C1.4	Orbital Dynamics (2)	Wed, 14 Oct	09:45	Teddy B
C1.5	Attitude Dynamics (1)	Wed, 14 Oct	14:45	Teddy B
C1.6	Attitude Dynamics (2)	Thu, 15 Oct	09:45	Teddy B
C1.7	Guidance, Navigation & Control (1)	Thu, 15 Oct	14:45	Teddy B
C1.8	Guidance, Navigation & Control (2)	Fri, 16 Oct	09:45	Teddy B
C1.9	Guidance, Navigation & Control (3)	Fri, 16 Oct	13:30	Teddy B
C1.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
C2	MATERIALS AND STRUCTURES SYMPOSIUM			
C2.1	Space Structures I - Development and Verification (Space Vehicles and Components)	Mon, 12 Oct	15:15	Oranim 1
C2.2	Space Structures II - Development and Verification (Deployable and Dimensionally Stable Structures)	Tue, 13 Oct	09:45	Oranim 1
C2.3	Space Structures - Dynamics and Microdynamics	Tue, 13 Oct	14:45	Oranim 1
C2.4	Advanced Materials and Structures for High Temperature Applications	Wed, 14 Oct	09:45	Oranim 1
C2.5	Smart Materials and Adaptive Structures	Wed, 14 Oct	14:45	Oranim 1

Nr.	Session name	Date	Time	Room
C2.6	Space Environmental Effects and Spacecraft Protection	Thu, 15 Oct	09:45	Oranim 1
C2.7	Space Vehicles – Mechanical/Thermal/Fluidic Systems	Thu, 15 Oct	14:45	Oranim 1
C2.8	Specialised Technologies, Including Nanotechnology	Fri, 16 Oct	09:45	Oranim 1
C2.9	Advancements in Materials Applications and Rapid Prototyping	Fri, 16 Oct	13:30	Oranim 1
C2.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
C3	SPACE POWER SYMPOSIUM			
C3.1	Space-Based Solar Power Architectures / Space & Energy Concepts	Mon, 12 Oct	15:15	Oranim 2
C3.2	Wireless Power Transmission Technologies, Experiments and Demonstrations	Tue, 13 Oct	09:45	Oranim 2
C3.3	Advanced Space Power Technologies and Concepts	Tue, 13 Oct	14:45	Oranim 2
C3.4	Small and Very Small Advanced Space Power Systems	Thu, 15 Oct	14:45	Oranim 3-A
C3.5-C4.7	Joint Session on Nuclear Power and Propulsion	Fri, 16 Oct	09:45	Ballroom B
C3.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
C4	SPACE PROPULSION SYMPOSIUM			
C4.1	Propulsion System (1)	Mon, 12 Oct	15:15	Ballroom B
C4.2	Propulsion System (2)	Tue, 13 Oct	09:45	Ballroom B
C4.3	Propulsion Technology (1)	Wed, 14 Oct	09:45	Ballroom B
C4.4	Electric Propulsion	Wed, 14 Oct	14:45	Ballroom B
C4.5	Propulsion Technology (2)	Thu, 15 Oct	09:45	Ballroom B
C4.6	New Missions Enabled by New Propulsion Technology and Systems	Thu, 15 Oct	14:45	Ballroom B
C4.7-C3.5	Joint Session on Nuclear Propulsion and Power	Fri, 16 Oct	09:45	Ballroom B
C4.8	Advanced and Combined Propulsion Systems	Fri, 16 Oct	13:30	Ballroom B
C4.9	Hypersonic and Combined Cycle Propulsion	Tue, 13 Oct	14:45	Ballroom B
C4.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
D1	SPACE SYSTEMS SYMPOSIUM			
D1.1	Innovative and Visionary Space Systems Concepts	Mon, 12 Oct	15:15	Oranim 4
D1.2	Enabling Technologies for Space Systems	Wed, 14 Oct	09:45	Oranim 4
D1.3	System Engineering - Methods, Processes and Tools (1)	Wed, 14 Oct	14:45	Oranim 4
D1.4	Space Systems Architectures	Thu, 15 Oct	09:45	Oranim 4
D1.5	Training, Achievements, and Lessons Learned in Space Systems	Thu, 15 Oct	14:45	Oranim 4
D1.6	System Engineering - Methods, Processes and Tools (2)	Fri, 16 Oct	09:45	Oranim 4
D1.7	Hosted Payloads - Concepts, Techniques and Challenges, Missions and Applications	Fri, 16 Oct	13:30	Oranim 4
D1.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
D2	SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM			
D2.1	Launch Vehicles in Service or in Development	Mon, 12 Oct	15:15	Teddy C
D2.2	Launch Services, Missions, Operations, and Facilities	Tue, 13 Oct	09:45	Teddy C
D2.3	Upper Stages, Space Transfer, Entry and Landing Systems	Tue, 13 Oct	14:45	Teddy C
D2.4	Future Space Transportation Systems	Wed, 14 Oct	09:45	Teddy C
D2.5	Future Space Transportation Systems Technologies	Wed, 14 Oct	14:45	Teddy C
D2.6	Future Space Transportation Systems Verification and In-Flight Experimentation	Thu, 15 Oct	09:45	Teddy C
D2.7	Small Launchers: Concepts and Operations	Thu, 15 Oct	14:45	Teddy C
D2.8-A5.4	Going To and Beyond the Earth-Moon System: Human Missions to Mars, Libration Points and NEO's	Fri, 16 Oct	09:45	Teddy C
D2.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area

Nr.	Session name	Date	Time	Room
D3 13th IAA SYMPOSIUM ON BUILDING BLOCKS FOR FUTURE SPACE EXPLORATION AND DEVELOPMENT				
D3.1	Strategies & Architectures as the Framework for Future Building Blocks in Space Exploration and Development	Mon, 12 Oct	15:15	312
D3.2	Systems and Infrastructures to Implement Future Building Blocks in Space Exploration and Development	Wed, 14 Oct	09:45	312
D3.3	Novel Concepts and Technologies to Enable Future Building Blocks in Space Exploration and Development	Mon, 12 Oct	16:45	312
D3.4	Space Technology and System Management Practices and Tools	Fri, 16 Oct	09:45	312
D3.IP	Interactive Presentations	Wed, 14 Oct	13:15	
D4 13th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE				
D4.1	Innovative Concepts and Technologies	Tue, 13 Oct	09:45	312
D4.2	Contribution of Space Activities to Solving Global Societal Issues	Tue, 13 Oct	14:45	312
D4.3	Space Elevator Tether and Space Mineral Resources	Thu, 15 Oct	09:45	312
D4.4	Strategies for Rapid Implementation of Interstellar Missions: Precursors and Beyond	Thu, 15 Oct	14:45	312
D4.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
D5 48th IAA SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE ACTIVITIES				
D5.1	Safety and quality: "SUCCESS" is the goal	Wed, 14 Oct	09:45	302-303
D5.2	Knowledge management and collaboration in space activities	Thu, 15 Oct	09:45	302-303
D5.3	Prediction and measurements of space weather conditions and impacts on space missions	Fri, 16 Oct	09:45	302-303
D5.4	Cyber-security threats to space missions and countermeasures to address them	Thu, 15 Oct	14:45	302-303
D5.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
D6 SYMPOSIUM ON COMMERCIAL SPACEFLIGHT SAFETY ISSUES				
D6.1	Commercial Space Flight Safety and Emerging Issues	Wed, 14 Oct	14:45	Ballroom A
D6.3	Enabling safe commercial spaceflight: vehicles and spaceports	Thu, 15 Oct	09:45	Kerem Carmit
E1 SPACE EDUCATION AND OUTREACH SYMPOSIUM				
E1.1	Ignition - Primary Space Education	Mon, 12 Oct	15:15	Oranim 3-B
E1.2	Lift-Off - Secondary Space Education	Tue, 13 Oct	09:45	Oranim 3-B
E1.3	On Track - Undergraduate Space Education	Tue, 13 Oct	14:45	Oranim 3-B
E1.4	In Orbit - Postgraduate Space Education	Wed, 14 Oct	09:45	Oranim 3-B
E1.5	Enabling the Future - Developing the Space Workforce	Wed, 14 Oct	14:45	Oranim 3-B
E1.6	Calling Planet Earth - Space Outreach to the General Public	Thu, 15 Oct	09:45	Oranim 3-B
E1.7	New Worlds - Innovative Space Education and Outreach	Thu, 15 Oct	14:45	Oranim 3-B
E1.8	Open Space: Participatory Space Education and Outreach	Fri, 16 Oct	09:45	Oranim 3-B
E1.9	Space Culture	Fri, 16 Oct	13:30	Oranim 3-B
E1.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
E2 45th STUDENT CONFERENCE				
E2.1	Student Conference - Part 1	Tue, 13 Oct	09:45	Kerem Carmit
E2.2	Student Conference - Part 2	Wed, 14 Oct	09:45	Kerem Carmit
E2.3-YPVF.4	Student Team Competition	Tue, 13 Oct	14:45	Kerem Carmit
E2.4	Educational Pico and Nano Satellites	Fri, 16 Oct	09:45	Kerem Carmit
E3 28th IAA SYMPOSIUM ON SPACE POLICY, REGULATIONS AND ECONOMICS				
E3.1	Regional cooperation in space: policies, governance and legal tools	Tue, 13 Oct	09:45	313
E3.2	International Space Exploration Policies and Programmes	Tue, 13 Oct	14:45	313

Nr.	Session name	Date	Time	Room
E3.3	The space economy: what are the socio-economic impacts?	Wed, 14 Oct	09:45	313
E3.4	Assuring a Safe, Secure, and Sustainable Space Environment for Space Activities	Wed, 14 Oct	14:45	313
E3.5-E7.6	30 th IAA/IISL Scientific-Legal Roundtable: Universities as Actors in Space	Thu, 15 Oct	09:45	313
E3.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
E4 49th IAA SYMPOSIUM ON HISTORY OF ASTRONAUTICS				
E4.1	Memoirs & organisational histories	Mon, 12 Oct	15:15	Dulzin Big A
E4.2	Scientific & technical histories	Thu, 15 Oct	09:45	Dulzin Big A
E4.3	History of Israeli contribution to astronautics	Thu, 15 Oct	14:45	Dulzin Big A
E5 26th IAA SYMPOSIUM ON SPACE AND SOCIETY				
E5.1	Space Architecture: technical aspects, design, engineering, concepts and mission planning	Wed, 14 Oct	09:45	Oranim 2
E5.2	Models for Successfully Applying Space Technology Beyond Its Original Intent	Wed, 14 Oct	14:45	Oranim 2
E5.4	Contemporary Arts Practice and Outer Space: A Multi-Disciplinary Approach	Thu, 15 Oct	14:45	Oranim 2
E5.5	Space Assets and Disaster Management	Fri, 16 Oct	09:45	Oranim 2
E5.6	Space Societies, Professional Associations and Museums	Thu, 15 Oct	09:45	Oranim 2
E5.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
E6 BUSINESS INNOVATION SYMPOSIUM				
E6.1	Case Studies and Prizes in Commercial Space	Tue, 13 Oct	09:45	Oranim 4
E6.2	Public/Private Human Access to Space - Supporting Studies	Tue, 13 Oct	14:45	Oranim 4
E6.3	New Space and New Science	Wed, 14 Oct	14:45	302-303
E6.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
E7 58th IISL COLLOQUIUM ON THE LAW OF OUTER SPACE				
E7.1	7 th Nandasiri Jasentuliyana Keynote Lecture on Space Law and Young Scholars Session	Tue, 13 Oct	09:45	Dulzin Big A
E7.2	The relationship of international humanitarian law and territorial sovereignty with the legal regulation of outer space	Tue, 13 Oct	14:45	Dulzin Big A
E7.3	The portrayal of Space (Law) in Media and Movies	Wed, 14 Oct	09:45	Dulzin Big A
E7.4	Legal Issues of Space Traffic Management	Wed, 14 Oct	14:45	Dulzin Big A
E7.5	Recent Developments in Space Law	Fri, 16 Oct	09:45	Dulzin Big A
E7.6-E3.5	30 th IAA/IISL Scientific-Legal Round Table: Universities as Actors in Space	Thu, 15 Oct	09:45	313
E7.7-B3.8	Joint IAF-IISL Session on the Legal Framework for Collaborative Space Activities	Fri, 16 Oct	13:30	Ballroom A
E7.IP	Interactive Presentations	Wed, 14 Oct	13:15	Plasma Screens Area
YPVF YOUNG PROFESSIONAL VIRTUAL FORUM				
YPVF.2-B3.9	Human Spaceflight Young Professional Virtual Forum	Wed, 14 Oct	14:45	Kerem Carmit
YPVF.3-B2.8	Space Communications and Navigation Young Professionals Virtual Forum	Thu, 15 Oct	14:45	Kerem Carmit
YPVF.4-E2.3	Student Team Competition	Tue, 13 Oct	14:45	Kerem Carmit
YPVF.5-A6.10	Space Debris Young Professionals Virtual Forum	Fri, 16 Oct	15:15	Kerem Carmit

5.4 Technical Papers by Symposium

A1. IAA/IAF SPACE LIFE SCIENCES SYMPOSIUM

Coordinator(s): Oleg Orlov , SSC RF-Institute of Biomedical Problems RAS, Russian Federation; Peter Graef , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

A1.2. Human Physiology in Space (1)

October 13 2015, 09:45 — Oranim 3-A

Co-Chair(s): Inesa Kozlovskaya , State Scientific Center of the Russian Federation - Institute of Biomedical Problems of the Russian Academy of Sciences, Russian Federation; Rupert Gerzer , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

Rapporteur(s): Thais Russomano , Microgravity Centre, Brazil;

IAC-15.A1.2.1

IMPLEMENTATION OF VARIOUS DEGREES OF HEAD DOWN TILT TO STUDY THE ETIOLOGY OF THE VIIP SYNDROME
Karina Marshall-Bowman, German Aerospace Center (DLR), Germany

IAC-15.A1.2.2

REDUCED PULSE ARRIVAL TIME (PAT) AND STABLE PRE-EJECTION PERIOD (PEP) ARE ASSOCIATED WITH REDUCED DIASTOLIC BLOOD PRESSURE DURING LONG TERM SPACE FLIGHT
Irina Funtova, Institute for Biomedical Problems, Russian Federation

IAC-15.A1.2.3

LOAD ON THE TIBIA DURING THE SEATED EXECUTION OF ORDINARY CALF RAISES ON THE MULTIFUNCTIONAL DYNAMOMETER FOR APPLICATION IN SPACE
Thomas Angeli, Vienna University of Technology, Austria

IAC-15.A1.2.4

LOWERBODY NEGATIVE PRESSURE COUNTERACTS SIMULATED MICROGRAVITY EFFECTS ON TIBIAL MICROVASCULAR FLOW
Jamila Siamwala, University of California, San Diego, United States

IAC-15.A1.2.5

MILAB, A BIOMEDICAL PLATFORM FOR THE ISS
Pat Greene, MDA, Canada

IAC-15.A1.2.6

MICROGRAVITY-INDUCED BACK PAIN AND INTERVERTEBRAL DISC HERNIATION: INTERNATIONAL SPACE STATION RESULTS
Jojo Sayson, University of California, San Diego, United States

IAC-15.A1.2.7

LOCOMOTOR ACTIVITY EVOKED BY THE SUPPORT ZONES STIMULATION
Inesa Kozlovskaya, State Scientific Center of the Russian Federation - Institute of Biomedical Problems of the Russian Academy of Sciences, Russian Federation

IAC-15.A1.2.8

ROLE OF SUPERLONG SPACE FLIGHTS (SF) IN THE DEVELOPMENT OF COUNTERMEASURES
Anatoly I. Grigoriev, Russian Academy of Sciences, Russian Federation

A1.3. Human Physiology in Space (2)

October 13 2015, 14:45 — Oranim 3-A

Co-Chair(s): Hanns-Christian Gunga , Charité - University Medicine Berlin, Germany; Satoshi Iwase , Aichi Medical University, Japan;

Rapporteur(s): Jeffrey R. Davis , National Aeronautics and Space Administration (NASA)/Johnson Space Center, United States;

IAC-15.A1.3.1

EFFECTS OF ARTIFICIAL GRAVITY ON THE CARDIOVASCULAR SYSTEM: COMPUTATIONAL APPROACH
Ana Diaz, Massachusetts Institute of Technology (MIT), United States

IAC-15.A1.3.2

FLAVONOID LUTEOLIN AMELIORATED OXIDATIVE STRESS AND COGNITIVE DYSFUNCTION UNDER SIMULATED MICROGRAVITY
Lina Qu, Astronaut Center of China, China

IAC-15.A1.3.3

FURTHER DEVELOPMENT OF THE INFLIGHT EXPERIMENT CARDIOVECTOR
Elena Luchitskaya, Institute for Biomedical Problems, Russian Federation

IAC-15.A1.3.4

PHYSICAL ASSESSMENT USING A NOVEL APPROACH WITH A SELF-PROPELLED TREADMILL FOR XP-ANTACTIK EXPLORERS
Andree-Anne Parent, Université du Québec à Montréal, Canada

IAC-15.A1.3.5

THREE-DIMENSIONAL BALLISTOCARDIOGRAPHY IN MICROGRAVITY AT 20 YEARS INTERVAL: A LONGITUDINAL CASE REPORT AND VALIDATION OF THE ESA-B3D PROJECT.
Pierre-François Migeotte, Université Libre de Bruxelles, Belgium

IAC-15.A1.3.6

ULTRASOUND IMAGING RECONSTRUCTION AND ASSESSMENT IN PERIPHERAL SKELETON
Yi-Xian Qin, State University of New York, United States

IAC-15.A1.3.7

IN VIVO BONE REMODELING RATES DETERMINATION AND COMPRESSIVE STIFFNESS VARIATIONS BEFORE, DURING 60 DAYS BED REST AND TWO YEARS FOLLOW UP: A MICRO-FE-ANALYSIS FROM HR-PQCT MEASUREMENTS OF THE BERLINER BED REST STUDY-2
Zully Ritter, Charité - University Medicine Berlin, Germany

IAC-15.A1.3.8

RELATIONSHIP OF LOWER LIMB MUSCLE STRENGTH AND SERUM MMP-2 DURING 45 DAYS OF BED REST
Peng Zhang, China Astronaut Research and Training Center, China

A1.4. Medical Care for Humans in Space

October 14 2015, 09:45 — Oranim 3-A

Co-Chair(s): Oleg Orlov , SSC RF-Institute of Biomedical Problems RAS, Russian Federation; Patrik Sundblad , ESA, Sweden;

Rapporteur(s): Peter Graef , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

IAC-15.A1.4.1 (withdrawn)

MODULATION OF NASOPHARYNGEAL AND PERIODONTAL MICROBIOTA IN HUMANS EXPOSED TO EXTREME AND ABNORMAL ENVIRONMENTAL CONDITIONS: NEW DEVELOPEMENTS
Nataliya Kiryukhina, RF SRC - Institute of Biomedical Problems of the RAS, Russian Federation

IAC-15.A1.4.2 (withdrawn)

CHROMATIC MULTIFOCAL PUPILLOMETER FOR OBJECTIVE NON-INVASIVE DIAGNOSIS OF OPHTHALMIC PATHOLOGIES IN ASTRONAUTS
Ygal Rotenstreich, Sheba Medical Center, Tel Aviv University, Israel

IAC-15.A1.4.3

MAJOR FACTORS OF THE PROPHYLACTIC EFFECTIVENESS OF LOCOMOTION AND RESISTANCE TRAINING IN LONG-DURATION SPACE FLIGHT
Elena Fomina, FSC RF-IMBP, Russian Federation

IAC-15.A1.4.4

EFFECTS OF ISOLATION AND CONFINEMENT WITH OR WITHOUT SLEEP DEPRIVATION ON ATTENTION NETWORK AND OPERATION PERFORMANCE OF COMPLICATED TASK
Bin Wu, China Astronaut Research and Training Center, China

IAC-15.A1.4.5 (withdrawn)

CREW STRUCTURE AND INTERACTION IN LUNAR PALACE 1: A QUALITATIVE ANALYSIS
Wu Ruilin, Beihang University, China

A1.5. Radiation Fields, Effects and Risks in Human Space Missions

October 14 2015, 14:45 — Oranim 3-A

Co-Chair(s): Guenther Reitz , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; Lawrence Pinsky , University of Houston, United States; Ronald J. White , Montana Tech of The University of Montana, United States;

Rapporteur(s): Giovanni De Angelis , Skolkovo Institute of Science and Technology, Russian Federation;

IAC-15.A1.5.1

COSMIC RADIATION MEASUREMENTS ON THE FOTON-M4 SATELLITE BY PASSIVE DETECTORS
Andrea Strádi, Hungarian Academy of Sciences, Centre for Energy Research, Hungary

IAC-15.A1.5.2 (withdrawn)

COMPARISON OF DOSE MEASUREMENTS PERFORMED WITH TRITEL TELESCOPES IN THE ISS MODULES COLUMBUS AND ZVEZDA
Attila Hirn, MTA Centre for Energy Research, Hungary

IAC-15.A1.5.3

REPORT ON THE ACTIVE RADIATION MEASUREMENTS IN THE ORION MODULE DURING THE EFT-1 MISSION
Lawrence Pinsky, University of Houston, United States

IAC-15.A1.5.4 (withdrawn)

UNDER THE BACKGROUND INFLUENCE (UTBI) EXPERIMENT ON-BOARD ISS
Andres Russu, Universidad Alcalá de Henares, Spain

IAC-15.A1.5.5

INTERPRETATION OF RADIATION-INDUCED CELLULAR PREMATURE SENESCENCE
Jufang Wang, Institute of Modern Physics, Chinese Academy of Sciences, China

IAC-15.A1.5.6

IONIZING RADIATION-INDUCED EMT AND TRANSFORMATION IN A HUMAN BRONCHIAL EPITHELIAL CELL LINE
Jinpeng He, Institute of Modern Physics, Chinese Academy of Sciences, China

IAC-15.A1.5.7 (withdrawn)

RBE OF ENERGETIC IRON IONS FOR THE INDUCTION OF EARLY AND LATE CHROMOSOME ABERRATIONS IN DIFFERENT CELL TYPES
Honglu Wu, NASA, United States

IAC-15.A1.5.8

HYDROGEN ACTS AS A NEW CLASS OF RADIOPROTECTIVE AGENT FOR SPACE RADIATION-INDUCED DNA DAMAGE
Qiao Sun, CAST, China

IAC-15.A1.5.9

REGULATION OF HSP90 GENES ARE DISTURBED BY EXPOSURE TO LOW DOSE IONIZING RADIATION AND SPACEFLIGHT IN ARABIDOPSIS IN ECOTYPE-DEPENDENT MANNER
Fei Li, Beijing Space Bio-technology Research Center, China Academy of Space Technology (CAST), China

IAC-15.A1.5.10

EXTREME SOLAR EVENT OF AD775: POTENTIAL RADIATION EXPOSURE TO CREWS IN DEEP SPACE
Lawrence Townsend, University of Tennessee, United States

IAC-15.A1.5.11

UPDATED MODELS FOR THE LUNAR AND THE MARTIAN RADIATION ENVIRONMENTS
Giovanni De Angelis, Skolkovo Institute of Science and Technology, Russian Federation

IAC-15.A1.5.12

TRITEL SATELLITE VERSION SILICON DETECTOR TELESCOPE DEVELOPMENT FOR THE ESEO SPACECRAFT
Balazs Zabori, MTA Centre for Energy Research, Hungary

A1.6. Astrobiology and Exploration

October 15 2015, 09:45 — Oranim 3-A

Co-Chair(s): Pascale Ehrenfreund , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; Petra Rettberg , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

Rapporteur(s): Inge ten Kate , SETI Institute, United States;

IAC-15.A1.6.1

EXPERIMENT METEORITE ON FOTON-M4 SATELLITE: SPORE-FORMING THERMOPHILIC BACTERIUM SURVIVE ENTRY INTO THE EARTH'S ATMOSPHERE
Alexander Slobodkin, Winogradsky Institute of Microbiology, Russian Academy of Sciences, Russian Federation

IAC-15.A1.6.2

GROWTH OF HALOTOLERANT AND HALOPHILIC BACTERIA IN SULFATES: PROSPECTS FOR LIFE ON EUROPA
Sandra Ramirez, , Mexico

IAC-15.A1.6.3

EXPOSURE OF TWO ECOLOGICALLY CONTRASTED MOSS SPECIES TO STRATOSPHERIC CONDITIONS: STRESS TOLERANCE AS A KEY TO SURVIVAL
Agata Kolodziejczyk, Astronomia Nova Society, forScience Foundation, Poland

IAC-15.A1.6.4

STUDYING TARDIGRADES AS A BIOLOGICAL PAYLOAD ONBOARD A 3U NANOSATELLITE IN LOW EARTH ORBIT
Ahmad Byagowi, University of Manitoba, Canada

IAC-15.A1.6.5 (withdrawn)

EUROPA PLUME CHASER A NOVEL APPROACH FOR LOW COST EXPLORATION OF THE POTENTIAL PLUME OF EUROPA
Jonas Jonsson, SGT Inc. / NASA Ames Research Center, United States

IAC-15.A1.6.6

BIOMETHANATION FOR IN-SITU FUEL GENERATION ON NEAR-EARTH OBJECTS
Michael Klas, UNSW Australia, Australia

IAC-15.A1.6.7 (withdrawn)

MODIFYING THE EARTH SIMILARITY INDEX TO ASSIST THE SEARCH FOR EARTH 2.0

Shambo Bhattacharjee, France

A1.7. Life Support, habitats and EVA Systems

October 16 2015, 09:45 — Oranim 3-A

Co-Chair(s): Chiaki Mukai, Japan Aerospace Exploration Agency (JAXA), Japan; Klaus Slenzka, OHB System AG-Bremen, Germany;

IAC-15.A1.7.1 (withdrawn)

WATER RECOVERY ON SPACE STATIONS: SYSTEMS AND PROCESSES
Leonid Bobe, NIICHIMMASH, Russian Federation

IAC-15.A1.7.2

EXERGY APPROACH TO THE EFFECTIVENESS EVALUATING OF INTEGRATED LIFE - SUPPORT SYSTEMS FOR CREW OF INTERPLANETARY SPACEFLIGHTS

Eduard Kurmazenko, NIICHIMMASH, Russian Federation

IAC-15.A1.7.3

CHARACTERISTICS OF PLANTS MINERAL NUTRITION IN BIOTECHNICAL LIFE SUPPORT SYSTEM WITH HUMAN WASTES INCLUSION IN MASS EXCHANGE

Natalia Tikhomirova, Institute of Biophysics, Russian Academy of Sciences, Siberian Branch, Russian Federation

IAC-15.A1.7.4

DEVELOPMENT OF NAEL CYCLE IN A CLOSED LIFE SUPPORT SYSTEM
Sergey Trifonov, Institute of Biophysics, Russian Academy of Sciences, Siberian Branch, Russian Federation

IAC-15.A1.7.5 (withdrawn)

MANNED ROVERS FOR MARS EXPLORATION, MOON AND OTHER PLANETS.

Oleg Aleksandrov, AVIASTAR Inc www.aviastar.us, United States

IAC-15.A1.7.6

EVOLUTION AND PRESENT STATUS OF EXPERIMENTAL MANNED ECOLOGICAL SYSTEMS FOR LONG-TERM HUMAN LIFE SUPPORT – BIOS, DEVELOPED BY THE INSTITUTE OF BIOPHYSICS OF RUSSIAN ACADEMY OF SCIENCES IN KRASNOYARSK (SIBERIA)

Josef Gitelson, Institute of Biophysics, Russian Academy of Sciences, Siberian Branch, Russian Federation

IAC-15.A1.7.7

PREPARATORY ACTIVITIES FOR A PHOTOBIOREACTOR SPACEFLIGHT EXPERIMENT ENABLING MICROALGAE CULTIVATION FOR SUPPORTING HUMANS IN SPACE

Stefan Belz, University of Stuttgart, Germany

IAC-15.A1.7.8

BIOREGENERATIVE LIFE SUPPORT EXPERIMENTS IN CHINESE LUNAR PALACE 1: RESULTS AND FUTURE PLANS

Hong Liu, School of Biological Science and Medical Engineering, Beihang University; Institute of Environmental Biology and Life Support Technology, Beihang University, China

IAC-15.A1.7.9

SHIFTS OF MICROBIAL COMMUNITIES OF WHEAT (TRITICUM AESTIVUM L.) CULTIVATION IN A CLOSED ARTIFICIAL ECOSYSTEM

Youcai Qin, School of Biological Science and Medical Engineering, Beihang University; Institute of Environmental Biology and Life Support Technology, Beihang University, China

IAC-15.A1.7.10

MODULES-PBR – LESSONS LEARNED

Benjamin Harting, OHB System AG-Bremen, Germany

A1.8. Biology in Space

October 12 2015, 15:15 — Oranim 3-A

Co-Chair(s): Marlene Grenon, University of California, San Francisco, United States; Nicole Buckley, Canadian Space Agency, Canada;

Rapporteur(s): Fengyuan Zhuang, Beihang University, China;

IAC-15.A1.8.1

DRUG DISCOVERY AND DEVELOPMENT IN SPACE

Luis Zea, University of Colorado Boulder, United States

IAC-15.A1.8.2

BION-M1 PROJECT: GENERAL CHARACTERISTICS AND PRELIMINARY RESULTS SYCHEV V.N., ILYIN E.A., YARMANOVA E.N., RAKOV D.V., USHAKOV I.B., ORLOV O.I., GIRGORIEV A.I. INSTITUTE OF BIOMEDICAL PROBLEMS RAS

Vladimir Sychev, State Scientific Center of Russian Federation, Institute of Biomedical Problems, Russian Academy of Sciences, Russian Federation

IAC-15.A1.8.3

MICROBIAL CONTROL OF MANNED SPACECRAFT CABIN IN THE GROUND ASSEMBLY STAGE

Mengmeng Gong, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.A1.8.4 (withdrawn)

MICRORNA EXPRESSION PROFILE AND DNA DAMAGE RESPONSE IN CULTURED HUMAN FIBROBLASTS IN SPACE

Honglu Wu, NASA, United States

IAC-15.A1.8.5

GROUND-BASED RESULTS ON THE DEVELOPMENT OF A MICROFLUIDICS-BASED SMALL SATELLITE TO EXAMINE THE EFFECTS OF MICROGRAVITY ON CANDIDA ALBICANS AND CANDIDA GLABRATA.

Jeffrey R. Osborne, University of Toronto Institute for Aerospace Studies, Canada

IAC-15.A1.8.6

BENEFITS OF MICROALGAE FOR HUMAN SPACE EXPLORATION

Angélique Verrecchia, International Space University (ISU), Portugal

IAC-15.A1.8.7

DEVELOPMENT OF SIMULATED MICROGRAVITY MODEL FOR THE GREEN ALGAE, CHLAMYDOMONAS REINHARDTII

Kelley Frazier, NASA Ames Research Center, United States

IAC-15.A1.8.8

BIM LAU-PE: CULTIVATING SEEDLINGS IN MICROGRAVITY

MICHEL GARCIA, RUAG Space AG, Switzerland

IAC-15.A1.8.9

ROS SIGNALING AND ANTIOXIDANT RESPONSE OF PLANTS UNDER DEVELOPMENT OF GRAVITY AND OXIDATIVE STRESSES

Jadko Sergiy, Institute of Botany by M.G.Kholodny of NASU, Ukraine

IAC-15.A1.8.10

STANDARD SMALL SATELLITE ARCHITECTURE FOR SPACE MICROBIOLOGY

Arnav Saikia, Manipal Institute of Technology, Manipal University, India

IAC-15.A1.8.11 (withdrawn)

"RHIZOGENESIS IN VITRO" AS A NEW MODEL FOR SPACE AND GRAVITATIONAL BIOLOGY.

Iliya Bulavin, Institute of Botany by M.G.Kholodny of NASU, Ukraine

A1.P. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Oleg Orlov, SSC RF-Institute of Biomedical Problems RAS, Russian Federation; Peter Graef, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

IAC-15.A1.IP.1

THE ELECTROPHYSIOLOGICAL CHANGES IN THE MYOCARDIUM AND HEART RATE VARIABILITY DURING SPACE FLIGHT (PRELIMINARY DATA)

Vasily Rusanov, IBMP, Russian Federation

IAC-15.A1.IP.2

ANITAZ: THE NEXT GENERATION TRACE GAS MONITORING FOR THE ISS

Peter Hofmann, OHB System AG - Munich, Germany

IAC-15.A1.IP.3

INVESTIGATION ON CO2 REMOVING TECHNOLOGY FOR ENVIRONMENT CONTROL AND LIFE SUPPORT SYSTEM IN MANNED SPACE STATION

Hu Wei, The 42nd Institute of the Fourth Academy of CASC, China

IAC-15.A1.IP.4

EXPERIENCE OF PUBLIC RELATIONS ORGANIZATION IN THE SPHERE OF LIFE SCIENCES

Oleg Voloshin, SSC RF Institute for bio-medical problems RAS, Russian Federation

IAC-15.A1.IP.5

THE INFLUENCE OF THE LONG-TERM SPACE FLIGHT FACTORS ON SOME COMPONENTS OF THE HUMAN INNATE IMMUNITY SYSTEM.

Sergey Ponomarev, IBMP, Russian Federation

IAC-15.A1.IP.6

EXPERIMENTAL ANALYSIS OF HYDROGENATION(SABATIER) REACTOR OPERATION

Kogan Ioann, NIICHIMMASH, Russian Federation

IAC-15.A1.IP.7

A PERMANENT HALBACH MAGNET FOR WRIST MRI AT THE INTERNATIONAL SPACE STATION

Krzysztof Turek, AGH University of Science and Technology, Krakow, Poland

IAC-15.A1.IP.8

REABILITATION IN MICROGRAVITY: A NEUROPHYSIOLOGICAL APPROACH

Irene Lia Schlacht, Politecnico di Milano, Italy

IAC-15.A1.IP.9

INDIVIDUAL PRENOSOLOGICAL CONTROL AS NEW DIRECTION IN PERSONALIZATION OF PREVENTIVE MEDICINE IN SPACE AND ON THE EARTH.

Anna Chernikova, SSC RF Institute of bio-medical problems RAS, Russian Federation

IAC-15.A1.IP.10 (withdrawn)

L-ARGININE ADMINISTRATION AS A POSSIBLE COUNTERMEASURE PREVENTING FUNCTIONAL AND BIOCHEMICAL CONSEQUENCES OF MUSCLE DETRAINING IN MICROGRAVITY

Boris Shenkman, IBMP, Russian Federation

IAC-15.A1.IP.11

LIGHTER, ADAPTIVE THERMAL SUBSYSTEM FOR LIFE SUPPORT DURING MARS EXTRAVEHICULAR ACTIVITY (EVA) PLANETARY EXPLORATION

Nikhil Vadhavkar, Massachusetts Institute of Technology (MIT), United States

IAC-15.A1.IP.12

REARING TENEBRIO MOLITOR L. (COLEPTERA: TENEBRIONIDAE) IN THE "LUNAR PALACE 1" DURING A 105-DAY MULTI-CREW CLOSED INTEGRATIVE BLSS EXPERIMENT

Leyuan Li, School of Biological Science and Medical Engineering, Beihang University; Institute of Environmental Biology and Life Support Technology, Beihang University, China

IAC-15.A1.IP.13

THE RECYCLE OF WATER AND NITROGEN FROM URINE IN LUNAR PALACE 1

Shengda Deng, School of Biological Science and Medical Engineering, Beihang University; Institute of Environmental Biology and Life Support Technology, Beihang University, China

IAC-15.A1.IP.14

DELIVERING OPERATIONALLY-RELEVANT MEDICAL SOLUTIONS FOR SPACEFLIGHT

Dorit Donoviel, Baylor College of Medicine, United States

IAC-15.A1.IP.15

ORGANIC GARDENS IN SPACE: ECOSYSTEM DESIGN FOR ENABLING DEEP SPACE EXPLORATION

Brian Ramos, , United States

IAC-15.A1.IP.16

AUGMENTED REALITY APPLIED TO STUDY THE EFFECTS OF MICROGRAVITY ON VEINS.

Misael Chagas, International Space University (ISU), Brazil

IAC-15.A1.IP.17

PEANUT (ARACHIS HYPOGAEA L.) CULTIVAR SELECTION FOR BIOREGENERATIVE LIFE SUPPORT SYSTEMS (BLSS) – HYDROPONIC CULTIVATION

Hui Liu, School of Biological Science and Medical Engineering, Beihang University; Institute of Environmental Biology and Life Support Technology, Beihang University, China

IAC-15.A1.IP.18

RELATION BETWEEN SI AND O ELEMENT ABUNDANCES AND PROBABILITIES OF STARS THAT HAVE PLANETS

Duygu Durmus, , Turkey

IAC-15.A1.IP.19

SPACE NUTRIENTS DEVELOPMENT IN HYPER GRAVITY FOR SPACE TRAVELERS

Rania Elmaddawi, University of South Florida, United States

IAC-15.A1.IP.20

DESIGN OF A MICROECOSYSTEM TO SUSTAIN FLUORESCENT TARDIGRADES IN SPACE FOR NANOSATELLITE PAYLOAD EXPERIMENT

Morgan Taverner, University of Manitoba, Canada

IAC-15.A1.IP.21

STRUCTURE OF THE CORTICAL CYTOSKELETON OF CARDIOMYOCYTES OF MICE AFTER 30-DAY 2G-CENTRIFUGATION

Irina Ogneva, SSC RF Institute of bio-medical problems RAS, Russian Federation

A2. MICROGRAVITY SCIENCES AND PROCESSES SYMPOSIUM

Coordinator(s): Marcus Dejmek, Canadian Space Agency, Canada;

Vice-Coordinator(s): Kenol Jules, National Aeronautics and Space Administration (NASA), United States;

A2.1. Gravity and Fundamental Physics

October 12 2015, 15:15 — 314

Co-Chair(s): Francois Gonzalez , Centre National d'Etudes Spatiales (CNES), France; Joachim Richter , RWTH Aachen, Germany;

Rapporteur(s): Qi KANG , National Microgravity Laboratory, Institute of Mechanics, Chinese Academy of Sciences., China;

IAC-15.A2.1.1

T-SAGE, THE MICROSCOPE MISSION PAYLOAD READY TO TEST THE EQUIVALENCE PRINCIPLE IN SPACE
Bernard Foulon, Office National d'Etudes et de Recherches Aérospatiales (ONERA), France

IAC-15.A2.1.2

THE DATA ANALYSIS CHALLENGE OF THE MICROSCOPE SPACE MISSION
Quentin Baghi, Office National d'Etudes et de Recherches Aérospatiales (ONERA), France

IAC-15.A2.1.3

ANALYSIS OF THE IMPACT OF TEMPORAL DISTURBANCES ON THE SCIENCE SIGNALS OF THE SPACE MISSION MICROSCOPE BY USING WAVELET TRANSFORMATION TOOLS
Hanns Selig, ZARM - University of Bremen, Germany

IAC-15.A2.1.4 (withdrawn)

ATOM INTERFEROMETRY ON SOUNDING ROCKETS
Stephan Seidel, Leibniz Universität Hannover, Germany

IAC-15.A2.1.5

MINI-LABORATORIES ON-BOARD DEEP SPACE PROBES FOR TESTING THE LOCAL SPACE-TIME STABILITY OF FUNDAMENTAL PHYSICAL CONSTANTS: THE CASE OF G
Ivan Cagnani, University of Bologna, Italy

IAC-15.A2.1.6

NAVIGATION AND SCIENCE WITH GALILEO
Claus Lämmerzahl, ZARM - University of Bremen, Germany

IAC-15.A2.1.7

LASER SYSTEMS FOR PRECISION MEASUREMENTS OF FUNDAMENTAL PHYSICS IN SPACE
Vladimir Schkolnik, Humboldt-Universität zu Berlin, Germany

IAC-15.A2.1.8

IMPROVEMENT OF THE MEASUREMENT OF FRAME-DRAGGING BY THE FUTURE LARES 2 MISSION.
Ignazio Ciufolini, Università del Salento, Italy

IAC-15.A2.1.9 (withdrawn)

VUV SPECTROSCOPY OF CARBONACEOUS DUST ANALOGUES
Lisbeth Gavilan, Université Paris sud-11, France

IAC-15.A2.1.10

ASTROD-I ORBIT DESIGN AND MISSION SIMULATION
An-Ming Wu, National Space Organization, Taiwan, China

A2.2. Fluid and Materials Sciences

October 13 2015, 09:45 — 314

Co-Chair(s): Nickolay N. Smirnov , Moscow Lomonosov State University, Russian Federation; Raimondo Fortezza , Telespazio S.p.A., Italy;

Rapporteur(s): Jean-Claude Legros , Université Libre de Bruxelles, Belgium;

IAC-15.A2.2.1

STRUCTURE OF FLOW IN ROTATING SPHERICAL SHELL WITH INNER CORE EXCITED BY OSCILLATING FORCE FIELD
Stanislav Subbotin, PSHPU, Russian Federation

IAC-15.A2.2.2

OSCILLATORY FLOW AND STEADY STREAMING INSIDE A RAPIDLY ROTATING HORIZONTAL CYLINDER PARTIALLY FILLED WITH LIQUID
Denis Polezhaev, Russian Federation

IAC-15.A2.2.3

INFLUENCE OF TRANSVERSAL VIBRATION ON THE DYNAMICS OF TWO IMMISCIBLE LIQUIDS AT ROTATION
Nikolai Kozlov, PSHPU, Russian Federation

IAC-15.A2.2.4

SUPERCOMPUTER MODELING OF PULSE DETONATION ENGINES FED BY ACETYLENE OR HYDROGEN
Nickolay N. Smirnov, Moscow Lomonosov State University, Russian Federation

IAC-15.A2.2.5 (withdrawn)

EXPERIMENTAL INVESTIGATION OF C6F15N FLASHING VAPORIZATION CHARACTERISTIC IN VACUUM
Kan Xu, Beijing Aerospace Technology Institute, China

IAC-15.A2.2.6 (withdrawn)

CHARACTERISTICS OF THE SUPERSONIC FLOW DOMINATED BY LARGE-SCALE STREAMWISE VORTICES
Qiancheng Wang, National University of Defense Technology, China

IAC-15.A2.2.7

DIRECT NUMERICAL SIMULATION OF BUBBLE DYNAMIC BEHAVIOR IN ELECTRIC FIELDS UNDER MICROGRAVITY CONDITIONS
RONG MA, China Academy of Space Technology (CAST), China

IAC-15.A2.2.8

RESEARCH ON THERMODYNAMIC VENT SYSTEM FOR LONG-TERM ZERO-BOIL-OFF (ZBO) HYDROGEN STORAGE
Shaohua Zhang, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.A2.2.9

INVESTIGATION OF AERODYNAMIC HEATING FOR THE STRUCTURE GAPS
Yanxin Yin, China

IAC-15.A2.2.10 (withdrawn)

DIRECT NUMERICAL SIMULATION OF MOTION OF RISING BUBBLES UNDER MICROGRAVITY CONDITIONS
Tong Qin, Beijing Institute of Astronautical Systems Engineering, Beijing, China

A2.3. Microgravity Experiments from Sub-Orbital to Orbital Platforms

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Co-Chair(s): Raffaele Savino , Italy; Ziad Saghir , Ryerson University, Canada;

IAC-15.A2.3.1

ZERO GRAVITY ROBOTIC MOBILITY EXPERIMENTS WITH ELECTROSTATIC AND GECKO-LIKE ADHESIVES ABOARD NASA'S ZERO GRAVITY AIRPLANE
Aaron Parness, Caltech/JPL, United States

IAC-15.A2.3.2

PARABOLIC FLIGHT CAMPAIGNS IN EUROPE WITH THE AIRBUS A300 ZERO-G: AN EVALUATION OF THE SCIENTIFIC OUTCOME
Vladimir Pletser, European Space Agency (ESA), The Netherlands

IAC-15.A2.3.3 (withdrawn)

PARABOLIC FLIGHT FACILITIES – A LESSON LEARNT ON FREE FLOATING OBJECTS
Riccardo Benvenuto, Politecnico di Milano, Italy

IAC-15.A2.3.4

VALIDATION OF FLEXIBLE BODIES DYNAMICS SIMULATOR IN PARABOLIC FLIGHT
Wojciech Gołębiowski, SKA-Polska, Poland

IAC-15.A2.3.5

ELECTROOXIDATION OF AMMONIA UNDER THE INFLUENCE OF MICROGRAVITY IN PARABOLIC FLIGHTS
Raul Acevedo, University of Puerto Rico, Puerto Rico

IAC-15.A2.3.6

DESIGN AND DROP TOWER TESTING OF A LIQUIDS EXPERIMENT INVESTIGATING THE CHAOTIC DRIPPING REGIME IN LOW GRAVITY CONDITIONS
Joshua Brandt, University of New South Wales, Australia

IAC-15.A2.3.7

IMPROVEMENT, EVALUATION AND MEASUREMENT OF THE MICROGRAVITY LEVEL IN RECOVERABLE SATELLITES
Jia-wen Qiu, China Academy of Space Technology (CAST), China

IAC-15.A2.3.8

COMMERCIAL SUBORBITAL VEHICLE MICROGRAVITY RESEARCH EXPERIMENT PAYLOAD STANDARDS
Angie Buckley, International Space University (ISU), United States

IAC-15.A2.3.9

SPACESHIP TWO: A SUBORBITAL PLATFORM FOR HUMAN SPACEFLIGHT AND SPACE-BASED RESEARCH
William Pomerantz, Virgin Galactic L.L.C, United States

A2.4. Science Results from Ground Based Research

October 14 2015, 09:45 — 314

Co-Chair(s): Antonio Viviani, Second University of Naples, SUN, Italy; Valentina Shevtsova, Université Libre de Bruxelles, Belgium;

Rapporteur(s): Nickolay N. Smirnov, Moscow Lomonosov State University, Russian Federation;

IAC-15.A2.4.1

STUDY ON SUPERCRITICAL TRANSITION IN BÉNARD-MARANGONI CONVECTION
Qi KANG, National Microgravity Laboratory, Institute of Mechanics, Chinese Academy of Sciences., China

IAC-15.A2.4.2

THE QUANTUM OF ENERGY TRANSPORTED DURING EVAPORATION: INVESTIGATION OF A FUNDAMENTAL CONSTANT
Aaron Persad, University of Toronto, Canada

IAC-15.A2.4.3

STUDY ON TRANSITION PROCESS OF BUOYANT -THERMOCAPILLARY CONVECTION IN AN OPEN ANNULAR POOL
Li DUAN, National Microgravity Laboratory, Institute of Mechanics, Chinese Academy of Sciences., China

IAC-15.A2.4.4 (withdrawn)

GROWTH OF CZT CRYSTAL BY THE THM ABOARD THE FOTON-M4 SPACECRAFT.
Alexander Senchenkov, Research and Development Institute for Launch Complexes (NIISK), Russian Federation

IAC-15.A2.4.5

IGNITION OF FUEL SPRAY NUMERICAL SIMULATION
Nickolay N. Smirnov, Moscow Lomonosov State University, Russian Federation

IAC-15.A2.4.6

NEAR-LIMIT FLAME SPREAD IN LOW-SPEED OPPOSED AND CONCURRENT FLOWS OVER THICK FUELS
Shuang-Feng Wang, Institute of Mechanics, Chinese Academy of Sciences, China

IAC-15.A2.4.7 (withdrawn)

EXPERIMENT ON HEAT TRANSFER PERFORMANCE OF SPACE SCIENCE EXPERIMENT RACK THERMAL CONTROL SYSTEM
Sheng Qiang, Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences, China

IAC-15.A2.4.8

DYNAMIC BALANCE OF A SPACE MANIPULATOR IN THE CAPTURE OF A NON-COOPERATIVE TARGET
Silvio Cocuzza, CISAS – “G. Colombo” Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.A2.4.9 (withdrawn)

LINEAMENT STUDY IN GROUNDWATER EXPLORATION USING SPACE BASED TECHNOLOGY: A CASE STUDY OF OWO LGA, ONDO STATE, NIGERIA.
Oluwasegun Onibudo, Nigeria

IAC-15.A2.4.10

CONTINUOUS BIOREACTOR FOR YEAST CELL CULTIVATION IN SPACE
Paolo Dainesi, RUAG Space, Switzerland

IAC-15.A2.4.11

INFLUENCE OF AN INTERFACIAL HEAT RELEASE ON NONLINEAR BUOYANT-THERMOCAPILLARY WAVES UNDER THE ACTION OF AN IMPOSED TEMPERATURE GRADIENT
Antonio Viviani, Seconda Università di Napoli, Italy

A2.5. Facilities and Operations of Microgravity Experiments

October 14 2015, 14:45 — 314

Co-Chair(s): Marcus Dejmeck, Canadian Space Agency, Canada; Rainer Willnecker, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

Rapporteur(s): Peter Hofmann, OHB System AG - Munich, Germany;

IAC-15.A2.5.1 (withdrawn)

POLIZON-2 FURNACE FOR CRYSTAL GROWTH EXPERIMENTS ABOARD THE FOTON-M4 SPACECRAFT
Alexander Senchenkov, Research and Development Institute for Launch Complexes (NIISK), Russian Federation

IAC-15.A2.5.2

NEW PROGRESS OF MICROGRAVITY ACTIVE VIBRATION ISOLATION SYSTEM IN CHINESE TIANZHOU-1 CARGO SHIP
Zongfeng Li, Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences, China

IAC-15.A2.5.3

UTILIZATION OF THE BREMEN DROP TOWER FOR PREPARING SPACE MISSIONS
Thorben Könemann, ZARM Fab GmbH, Germany

IAC-15.A2.5.4

AERODYNAMIC AND ENGINEERING DESIGN OF A 1.5 SECONDS HIGH QUALITY MICROGRAVITY DROP TOWER FACILITY CURRENTLY UNDER DEVELOPMENT AT BAYLOR UNIVERSITY IN WACO, TEXAS
Valentin Belser, Institute of Space Systems, Universität Stuttgart, Germany

IAC-15.A2.5.5

COMPENSATION OF UMBILICAL STIFFNESSES AND DECREASED CROSS-TALK OF MECHANICAL DECOUPLING SYSTEMS THROUGH 3D ANTISPRINGS.
Andreas Gierse, ZARM - University of Bremen, Germany

IAC-15.A2.5.6

DESIGN AND QUALIFICATION OF A XUV SYSTEM FOR THE USE ON SOUNDING ROCKET PAYLOAD
Jens Grosse, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.A2.5.7

A SOUNDING ROCKET FOR COST EFFECTIVE MEASUREMENTS AND ACCESS TO MICROGRAVITY
Matteo Poli, University of Padova, CISAS – “G. Colombo” Center of Studies and Activities for Space,, Italy

IAC-15.A2.5.8

A COMPETITIVE WAY TO ACCESS MICROGRAVITY: SUBORBITAL SPACE
Olympia Natalia Kyriopoulos, Telespazio VEGA Deutschland GmbH, Germany

IAC-15.A2.5.9

DESIGN AND VALIDATION OF A NEW TYPE DEPLOYMENT TO SIMULATE MICROGRAVITY FOR SATELLITE SOLAR ARRAY
Yangming Lu, Shanghai Academy of Spaceflight Technology, China

IAC-15.A2.5.10 (withdrawn)

ON OPTIMIZATION OF SOUNDING ROCKETS FOR MICROGRAVITY RESEARCH
Adam Okninski, -, Poland

A2.6. Microgravity Sciences Onboard the International Space Station and Beyond

October 15 2015, 09:45 — 314

Co-Chair(s): Bernard Zappoli, Centre National d'Etudes Spatiales (CNES), France; Kenol Jules, National Aeronautics and Space Administration (NASA), United States; Rapporteur(s): Christoph Puetz, Astrium Space Transportation, Germany;

IAC-15.A2.6.1

PLASMA CRYSTAL RESEARCH ON THE INTERNATIONAL SPACE STATION
Peter Hofmann, OHB System AG - Munich, Germany

IAC-15.A2.6.2

RESULTS OF MICROGRAVITY FLUID DYNAMICS CAPTURED WITH THE SPHERES-SLOSH EXPERIMENT
Gabriel Lapilli, Florida Institute of Technology, United States

IAC-15.A2.6.3

DESIGN OF A NANOLAB TO MONITOR THE ELYTRA OF A CHRYSINA BEETLE AT THE INTERNATIONAL SPACE STATION
Andrés Mora Vargas, Central American Association of Aeronautics and Space (ACAE), United States

IAC-15.A2.6.4 (withdrawn)

THERMOLAB – AN INTERNATIONAL MICROGRAVITY LABORATORY FOR THE MEASUREMENT OF THERMOPHYSICAL PROPERTIES OF LIQUID METALLIC MELTS ON PARABOLIC FLIGHTS, TEXUS FLIGHTS AND THE INTERNATIONAL SPACE STATION
Hans Fecht, University Ulm, Germany

IAC-15.A2.6.5 (withdrawn)

THE ATOMIZATION OBSERVATION EXPERIMENT IN JEM
Hayato Ohkuma, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.A2.6.6

ICE CUBES – INTERNATIONAL COMMERCIAL EXPERIMENT CUBES ESTABLISHING A FAST-TRACK, LOW-COST SERVICE FOR SMALL EXPERIMENTS TO THE ISS
Tom Hoppenbrouwers, Space Applications Services N.V./S.A., Belgium

IAC-15.A2.6.7 (withdrawn)

BRAZILIAN MICROGRAVITY PROGRAMME: IDENTIFICATION AND ANALYSIS OF OBSERVED FAILURES INTO THE LIFE CYCLE OF MICROGRAVITY EXPERIMENTS AND SUGGESTION OF PROCEDURES TO MINIMIZE THEM.
Flávio de Azevedo Corrêa Jr, Instituto de Aeronáutica e Espaço (IAE), Brazil

IAC-15.A2.6.8

THERMAL EXCHANGE: A PAYLOAD FOR TECHNOLOGICAL EXPERIMENTS ON-BOARD THE INTERNATIONAL SPACE STATION
Nicole Viola, Politecnico di Torino, Italy

IAC-15.A2.6.9

A DESIGN OF MICROGRAVITY FREE-FLOATING PLATFORM FOR AUTOMATIC CONTROL TESTS INSIDE THE SPACE STATION
Wenbo Dong, Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences, China

A2.P. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Kenol Jules, National Aeronautics and Space Administration (NASA), United States; Marcus Dejmeck, Canadian Space Agency, Canada;

IAC-15.A2.IP.1

INERTIAL WAVES AND VIBRATIONAL THERMAL CONVECTION
Aleksey Vjatkin, PSHPU, Russian Federation

IAC-15.A2.IP.2

ACCURATE IDENTIFICATION OF THE DYNAMIC PARAMETERS OF A SPACE MANIPULATOR IN MICROGRAVITY EXPERIMENTS
Silvio Cocuzza, CISAS – “G. Colombo” Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.A2.IP.3 (withdrawn)

MICROGRAVITY ENVIRONMENT IN JEM
Hayato Ohkuma, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.A2.IP.4

COULOMB CLUSTERS OF DUST PARTICLES IN CUSP MAGNETIC TRAP UNDER MICROGRAVITY CONDITIONS
Maxim Myasnikov, Joint Institute for High Temperatures of the Russian Academy of Sciences, Russian Federation

IAC-15.A2.IP.5

IMPACT OF SIMULATED MICROGRAVITY ON NANOEMULSION STABILITY
Danielle Dantuma, University of South Florida, United States

A3. SPACE EXPLORATION SYMPOSIUM

Coordinator(s): Bernard Foing, ESA/ESTEC, The Netherlands; Christian Sallaberger, Canadensys Aerospace Corporation, Canada;

A3.1. Space Exploration Overview

October 12 2015, 15:15 — Schwartz Hall

Co-Chair(s): Christian Sallaberger, Canadensys Aerospace Corporation, Canada; Luc Frécon, Thales Alenia Space France, France; Rapporteur(s): Keyur Patel, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States; Norbert Frischauf, , Austria;

IAC-15.A3.1.1

THE GLOBAL EXPLORATION ROADMAP AND EXPANDING HUMAN/ROBOTIC MISSION COLLABORATION OPPORTUNITIES
Kathy Laurini, National Aeronautics and Space Administration (NASA), United States

IAC-15.A3.1.2

TOWARDS A SCIENTIFIC PERSPECTIVE FOR INTERNATIONAL HUMAN-ROBOTIC SPACE EXPLORATION
François Spiero, Centre National d'Etudes Spatiales (CNES), France

IAC-15.A3.1.3

IRENA, DEMONSTRATING ADVANCED RE-ENTRY TECHNOLOGIES FOR PLANETARY EXPLORATION MISSIONS
Pierre W. Bousquet, Centre National d'Etudes Spatiales (CNES), France

IAC-15.A3.1.4

NASA'S EVOLVING STRATEGY: FROM MOON-SHOTS TO PIONEERING
Jason Hay, The Tauri Group, United States

IAC-15.A3.1.5

POSSIBLE SCENARIO FOR INTERNATIONAL VENUS EXPLORATION MISSION SCHEDULED FOR 2021-2025
Viktor A. Vorontsov, Lavochkin Association, Russian Federation

IAC-15.A3.1.6

ASTEROIDS AND ARTIFICIAL HABITAT — A STAGE OF MANNED SPACE EXPLORATION
Andrei Degermendzhi, Institute of Biophysics, Russian Academy of Sciences, Siberian Branch, Russian Federation

IAC-15.A3.1.7

SPACEFLIGHT CLUSTER MISSIONS – SMALLSAT ACCESS BEYOND LEO
Philip Brzytwa, Spaceflight Inc., United States

IAC-15.A3.1.8

HIGH-POWER SOLAR ELECTRIC PROPULSION TECHNOLOGY DEVELOPMENT AND SPACE DEMONSTRATION
Bryan Smith, NASA Glenn Research Center, United States

IAC-15.A3.1.9

HIGH POWER SOLAR ELECTRIC PROPULSION SPACECRAFT FOR SPACE EXPLORATION
David Murrow, Lockheed Martin (Space Systems Company), United States

IAC-15.A3.1.10 (withdrawn)

"INTERNATIONAL COOPERATION MECHANISMS USED BY THE UNITED STATES IN THE PEACEFUL EXPLORATION AND USE OF OUTER SPACE"
Sumara Thompson-King, National Aeronautics and Space Administration (NASA), United States

IAC-15.A3.1.11

ANALYSIS ON THE DEVELOPING TREND OF INTERNATIONAL COOPERATION IN DEEP SPACE EXPLORATION
Wenyi Cai, China Academy of Launch Vehicle Technology(CALT), China

A3.2A. Moon Exploration – Part 1

October 13 2015, 09:45 — Schwartz Hall

Co-Chair(s): Bernard Foing, ESA/ESTEC, The Netherlands; David Korsmeyer, National Aeronautics and Space Administration (NASA), United States; Rapporteur(s): Sylvie Espinasse, European Space Agency (ESA), The Netherlands; William H. Siegfried, The Boeing Company, United States;

IAC-15.A3.2A.1

INTRODUCTION TO THE LUNAR SESSION AND ILEWG REPORT
Bernard Foing, ESA/ESTEC, The Netherlands

IAC-15.A3.2A.2

AUTOMATED PLANNING TECHNOLOGY FOR THE CHANG'E MISSION
WEI GAO, Beijing Aerospace Control Center, China

IAC-15.A3.2A.3

SUMMARY OF THE IN-ORBIT PERFORMANCE OF CHANG'E-3 LUNAR LANDER
Zhang He, China Academy of Space Technology (CAST), China

IAC-15.A3.2A.4

ANALOGUES FOR PREPARING ROBOTIC AND HUMAN EXPLORATION ON THE MOON
Tom Hoppenbrouwers, Space Applications Services N.V./S.A., Belgium

IAC-15.A3.2A.5

THE EFFECT OF SLOPE DISTRIBUTION ON THE SURFACE TEMPERATURE OF THE MOON AND OTHER AIRLESS BODIES
Lior Rubanenko, Weizmann Institute of Science, Israel

IAC-15.A3.2A.6 (withdrawn)

LUNAR SOIL PARTICLE SIZE DISTRIBUTION CLASSIFIED BY STATION
Byung Chul Chang, International Space Exploration Research Institute / Hanyang University, Korea, Republic of

IAC-15.A3.2A.7

UPDATE ON THE GOOGLE LUNAR XPRIZE IN 2015
Nathan Wong, XPRIZE Foundation, United States

IAC-15.A3.2A.8

TEST OF A ROUTING ALGORITHM FOR WIRELESS SENSOR NETWORKS WITH APPLICATION TO PLANETARY EXPLORATION APPLICATIONS
Pedro Rodrigues, Tekever, Portugal

A3.2B. Moon Exploration – Part 2

October 13 2015, 14:45 — Schwartz Hall

Co-Chair(s): Bernard Foing, ESA/ESTEC, The Netherlands; David Korsmeyer, National Aeronautics and Space Administration (NASA), United States; Rapporteur(s): Sylvie Espinasse, European Space Agency (ESA), The Netherlands; William H. Siegfried, The Boeing Company, United States;

IAC-15.A3.2B.1

REPORT FROM ONGOING US LUNAR MISSIONS
David Korsmeyer, National Aeronautics and Space Administration (NASA), United States

IAC-15.A3.2B.2

LUNAR ICY SOIL SAMPLING
Piergiorganni Magnani, Selex ES, Italy

IAC-15.A3.2B.3

STRATEGIC KNOWLEDGE GAPS ANALYSIS FOR KOREAN LUNAR EXPLORATION PROGRAM
Gwanghyeok Ju, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.A3.2B.4

QUALIFICATION OF A DUAL ROVER ARCHITECTURE INCLUDING DEPLOYABLE CAMERAS FOR EXPLORATION OF A SKYLIGHT ON THE LUNAR SURFACE.
John Walker, Tohoku University, Japan

IAC-15.A3.2B.5

A NEW TEST FACILITY FOR VISION-BASED HAZARD DETECTION AND AVOIDANCE SYSTEMS FOR PLANETARY LANDING MANEUVERS
Paolo Lunghi, Politecnico di Milano, Italy

IAC-15.A3.2B.6

HELIUM ION IMPLANTATION INTO JSC-1A LUNAR REGOLITH SIMULANT FOR A VOLATILES EXTRACTION EXPERIMENT
Aaron Olson, University of Wisconsin, United States

IAC-15.A3.2B.7

ADVANCES IN THE HARDWARE/SOFTWARE CO-DESIGN FOR THE ABSOLUTE AND RELATIVE VISION BASED NAVIGATION SYSTEMS FOR THE LUNAR LANDING SCENARIO

David Gonzalez-Arjona, GMV Aerospace & Defence SAU, Spain

IAC-15.A3.2B.8

COMBUSTION SYNTHESIS OF CONSTRUCTION MATERIALS FROM LUNAR AND MARTIAN REGOLITH MIXED WITH MAGNESIUM

Armando Delgado, University of Texas at El Paso, United States

IAC-15.A3.2B.9 (withdrawn)

JAPANESE MOON SURFACE EXPLORATION MISSION

Tatsuaki Hashimoto, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.A3.2B.10

STATUS OF INTERNATIONAL LUNAR DECADE

Vid Beldavs, University of Latvia, Latvia

IAC-15.A3.2B.11

PANEL DISCUSSION ON FUTURE LUNAR EXPLORATION

Bernard Foing, ESA/ESTEC, The Netherlands

A3.2C. Moon Exploration – Part 3

October 16 2015, 09:45 — Schwartz Hall

Co-Chair(s): Bernard Foing, ESA/ESTEC, The Netherlands; David Korsmeyer, National Aeronautics and Space Administration (NASA), United States;

Rapporteur(s): Sylvie Espinasse, European Space Agency (ESA), The Netherlands; William H. Siegfried, The Boeing Company, United States;

IAC-15.A3.2C.1

OPTIMAL THRUST DIRECTION FOR LUNAR SOFT LANDING USING TEP

Mandarapu Mutyalarao, Indian Space Research Organization (ISRO), India

IAC-15.A3.2C.2

POLYGONAL-LIKE PERIODIC ORBIT AND ITS APPLICATION TO A Cislunar IN-ORBIT INFRASTRUCTURE

Yuying Liang, China

IAC-15.A3.2C.3

NAVIGATION OF A LUNAR SPACECRAFT AS A SECONDARY PAYLOAD: SPACEIL'S GOOGLE LUNAR X-PRIZE MISSION

Adam Michaels, SpaceIL, Israel

IAC-15.A3.2C.4 (withdrawn)

CONCEPTUAL DESIGN OF A RECONFIGURABLE ROBOT FOR THE EXPLORATION OF LUNAR LAVA TUBE

ZENG Ling-bin, Shanghai Aerospace System Engineering Institute, China

IAC-15.A3.2C.5

STUDY ON THE CONCEPTUAL DESIGN OF MANNED LUNAR ROVERS ACCORDING TO DIFFERENT TASK CHARACTERISTICS AND TOPOGRAPHICAL FEATURES

Baogui Qiu, China

IAC-15.A3.2C.6

ANALYSIS OF MANNED LUNAR ROVERS' MISSION REQUIREMENTS AND FUNCTIONAL CHARACTERISTICS IN CHINA

Baogui Qiu, China

IAC-15.A3.2C.7

DYNAMICS OF WEAK STABILITY BOUNDARY TRANSFER TRAJECTORIES TO MOON

Pooja Dutt, Indian Space Research Organization (ISRO), India

IAC-15.A3.2C.8

LUNAR MISSIONS LTD A FEASIBILITY STUDY ON HUMAN SPACE EXPLORATION AT THE LUNAR SOUTH POLE A POSSIBLE LUNAR MISSION THREE

Daphne de Jong, International Space University (ISU), France

IAC-15.A3.2C.9

COMMERCIAL PARTNERSHIP TO ADVANCE INTERNATIONAL EXPLORATION OF THE MOON

Dan Hendrickson, United States

IAC-15.A3.2C.10

ANALYSIS OF THE SAFETY OF SOFT-LANDING IN TOUCH DOWN PROCESS OF CHANG'E-3 INFLUENCED BY LUNAR TOPOGRAPHY

Fei Li, China

IAC-15.A3.2C.11

A NOVEL MATCHING METHOD OF LARGE DEFORMED IMAGES FOR POSITIONING LUNAR ROVERS WITH LARGE DISTANCE

Chuankai Liu, China

IAC-15.A3.2C.12 (withdrawn)

ASSESSMENT OF THE RADIATION LEVEL IN THE POINT L2 (E-M) USING A LUNARCUBE

Lucas Fonseca, Brazil

IAC-15.A3.2C.13

THE FORMATION AND EVOLUTION OF THE MOON

Cui-xiang Zhong, China

IAC-15.A3.2C.14 (withdrawn)

AUTONOMOUS LUNAR ORBIT RENDEZVOUS GUIDANCE BASED ON A HIGH ORDER PERTURBED STATE TRANSITION MATRIX

Jingyang Li, Tsinghua University School of Aerospace, China

IAC-15.A3.2C.15

TWO-SEGMENT LUNAR FREE-RETURN TRAJECTORIES BASED ON THE PSEUDOSTATE THEORY

Jingyang Li, Tsinghua University School of Aerospace, China

IAC-15.A3.2C.16

PLANETARY SURFACE MODELLING AND VISUALISATION FOR ASSISTING ROVER NAVIGATION SYSTEM

Deepak Kumar, Central University of Karnataka, Gulbarga, India

A3.3A. Mars Exploration – missions current and future

October 14 2015, 09:45 — Schwartz Hall

Co-Chair(s): Pierre W. Bousquet, Centre National d'Etudes Spatiales (CNES), France; Vincenzo Giorgio, Thales Alenia Space Italia, Italy;

Rapporteur(s): Amalia Ercoli Finzi, Politecnico di Milano, Italy; Cheryl Reed, The Johns Hopkins University Applied Physics Laboratory, United States;

IAC-15.A3.3A.1

AN OVERVIEW OF THE CURRENT STATUS OF NASA'S 2016 INSIGHT MISSION TO MARS

Ramon P. De Paula, National Aeronautics and Space Administration (NASA), United States

IAC-15.A3.3A.2

EXOMARS 2016 MISSION EDL DEMONSTRATOR MODULE TECHNOLOGIES, SCIENCE OPPORTUNITY AND PLANETARY PROTECTION IMPLEMENTATION

Maurizio Capuano, Thales Alenia Space Italia, Italy

IAC-15.A3.3A.3

JAPAN'S MARS ROVER MISSION FOR EDL DEMONSTRATION AND LIFE SEARCH

Kazuhisa FUJITA, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.A3.3A.5

THE ESA MARS ROBOTIC EXPLORATION PREPARATION PROGRAM: STATUS AND PERSPECTIVES

Denis REBUFFAT, ESA, The Netherlands

IAC-15.A3.3A.6 (withdrawn)

POSSIBLE MARS EXPLORATION ARCHITECTURES FOR THE 2020'S

Brian Glass, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.A3.3A.7

THE ROLE OF MARS ANALOGUE ENVIRONMENTS ON EARTH IN THE INTERPRETATION OF DATA FROM THE PAST, PRESENT AND FUTURE MISSIONS

Enrico Flamini, Italian Space Agency (ASI), Italy

IAC-15.A3.3A.8

ASTROBIOLOGY AND GEOCHEMISTRY FROM MARS TERRESTRIAL ANALOGUES: FIELD MEASUREMENTS AND ANALYSIS OF RETURNED SAMPLES

Bernard Foing, ESA/ESTEC, The Netherlands

IAC-15.A3.3A.9

PHOTOLOGICAL STUDY OF MARS FEATURES USING MARS COLOR CAMERA ONBOARD MARS ORBITER MISSION AND OTHER DATA.

Prabhjot Kaur, Space Applications Centre (ISRO), India

IAC-15.A3.3A.10

PHOTOPRINT: PHOBOS SAMPLE RETURN MISSION

Antonella Ferri, Thales Alenia Space Italia, Italy

IAC-15.A3.3A.11

ORBIT DESIGN FOR THE MARTIAN MOON IMPACT MISSION

Zhao Li, State Key Laboratory of Astronautic Dynamics, Xi'an Satellite Control Center, China

IAC-15.A3.3A.12

ARMONIA: FEASIBILITY STUDY ON AEROBOTS IN MARTIAN ATMOSPHERE TO ENHANCE SCIENCE RETURN

Michèle Lavagna, Politecnico di Milano, Italy

A3.3B. Mars Exploration – Science, Instruments and Technologies

October 14 2015, 14:45 — Schwartz Hall

Co-Chair(s): Pierre W. Bousquet, Centre National d'Etudes Spatiales (CNES), France; Vincenzo Giorgio, Thales Alenia Space Italia, Italy;

Rapporteur(s): Amalia Ercoli Finzi, Politecnico di Milano, Italy; Cheryl Reed, The Johns Hopkins University Applied Physics Laboratory, United States;

IAC-15.A3.3B.1

APPROACH TO MARS SAMPLE RETURN CAPTURE PHASE IN-FLIGHT VALIDATION USING OPPORTUNITY

Celestino Gomez-Cid, GMV Aerospace & Defence SAU, United Kingdom

IAC-15.A3.3B.2

EXOMARS MISSION 2016 PLANETARY PROTECTION IMPLEMENTATION

Diana Margheritis, Thales Alenia Space Italia, Italy

IAC-15.A3.3B.3

WET – A SOIL WETNESS SENSOR FOR MARS

Durval Zandonadi Jr., Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

IAC-15.A3.3B.4

REMS, TWINS & MEDA: THREE GENERATIONS OF ENVIRONMENTAL INSTRUMENTS ON JPL MARS MISSIONS

Tirso Velasco, CRISA, and Airbus Defence and Space company, Spain

IAC-15.A3.3B.5 (withdrawn)

DEVELOPMENT OF A SEISMOLOGY INSTRUMENT FOR THE INSIGHT MISSION

Gabriel Pont, Centre National d'Etudes Spatiales (CNES), France

IAC-15.A3.3B.6

DRILLING AUTOMATION FOR MARS SAMPLE ACQUISITION

Brian Glass, National Aeronautics and Space Administration (NASA), United States

IAC-15.A3.3B.7

EXOMARS ENTRY, DESCENT AND LANDING SCIENCE

Francesca Ferri, Università degli Studi di Padova, Italy

IAC-15.A3.3B.8

DEVELOPMENT OF A MARSLANDER WITH CRUSHABLE SHOCK ABSORBER BY VIRTUAL AND EXPERIMENTAL TESTING

Silvio Schröder, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.A3.3B.9

DEVELOPMENT OF THE FLEXIBLE WHEEL FOR THE EXOMARS ROVER

Sean Jessen, MDA Space Missions, Canada

IAC-15.A3.3B.10

MOSQUITO, MARS ORIGINAL SYSTEM FOR QUALITATIVE IMAGING AND TACTICAL OPERATIONS: SYSTEM AND ARCHITECTURE ANALYSIS

Jordi GARCIA, Institut Supérieur de l'Aéronautique et de l'Espace (ISAE), France

IAC-15.A3.3B.11

VISION-BASED GUIDANCE, NAVIGATION AND CONTROL SYSTEM FOR PHOBOS SAMPLE RETURN MISSION

Jesus Gil-Fernandez, ESA, Spain

IAC-15.A3.3B.12

CONCEPT OF PLANTATION ON MARS

NADEEM ALAM, Department of Aeronautical Engineering, Babu Banarsi Das National Institute of Technology and Management, Lucknow, India

A3.4. Small Bodies Missions and Technologies

October 15 2015, 09:45 — Schwartz Hall

Co-Chair(s): Stephan Ulamec, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; Susan McKenna-Lawlor, Space Technology (Ireland) Ltd., Ireland;

Rapporteur(s): Marc D. Rayman, Jet Propulsion Laboratory - California Institute of Technology, United States; Norbert Frischauf, Austria;

IAC-15.A3.4.1

ROSETTA - FOLLOWING A LIVING COMET

Andrea Accomazzo, European Space Agency (ESA), Germany

IAC-15.A3.4.2

ROSETTA LANDER, PHILAE, ON COMET 67P/CHURYUMOV-GERASIMENKO

Stephan Ulamec, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.A3.4.3

ROSETTA PHILAE SAMPLING DRILLING AND DISTRIBUTION SUBSYSTEM: OPERATION AND RESULTS FROM THE FIRST ON-COMET PHASE

Pierluigi Di Lizia, Politecnico di Milano, Italy

IAC-15.A3.4.4 (withdrawn)

DAWN AT CERES: THE FIRST EXPLORATION OF THE FIRST DWARF PLANET

Marc D. Rayman, Jet Propulsion Laboratory - California Institute of Technology, United States

IAC-15.A3.4.5

ASTEROID SURFACE EXPLORATION ROVERS DEVELOPED FOR HAYABUSA-2 MISSION
Tetsuo Yoshimitsu, Institute of Space and Astronautical Science (ISAS), Japan Aerospace Exploration Agency, Japan

IAC-15.A3.4.6

MASCOT, THE SMALL MOBILE ASTEROID LANDING PACKAGE ON ITS PIGGYBACK JOURNEY TO 1999 JU3: PRE-LAUNCH AND POST-LAUNCH ACTIVITIES
Caroline Lange, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.A3.4.7

DEPLOYMENT AND DYNAMICS OF SURFACE PACKAGES FOR SMALL BODY EXPLORATION
Daniel Scheeres, University of Colorado, United States

IAC-15.A3.4.8

AIDA: ASTEROID IMPACT & DEFLECTION ASSESSMENT
Andy Cheng, The Johns Hopkins University Applied Physics Laboratory, United States

IAC-15.A3.4.9

INDUSTRIAL DESIGN OF ESA ASTEROID IMPACT MISSION
Ian Carnelli, European Space Agency (ESA), France

IAC-15.A3.4.10

BALLOON OBSERVATION PLATFORM FOR PLANETARY SCIENCE
Dewey Adams, The Johns Hopkins University Applied Physics Laboratory, United States

A3.5. Solar System Exploration

October 15 2015, 14:45 — Schwartz Hall

Co-Chair(s): Junichiro Kawaguchi, Japan Aerospace Exploration Agency (JAXA), Japan; Mariella Graziano, GMV Aerospace & Defence SAU, Spain;
Rapporteur(s): William H. Siegfried, The Boeing Company, United States;

IAC-15.A3.5.1

DESTINATION PLUTO: NEW HORIZONS PERFORMANCE DURING THE APPROACH PHASE
Sarah Flanigan, The Johns Hopkins University Applied Physics Laboratory, United States

IAC-15.A3.5.2 (withdrawn)

ADAPTATION OF COMMERCIAL ELECTRIC PROPULSION SPACECRAFT TO SOLAR SYSTEM EXPLORATION MISSIONS
David Oh, Jet Propulsion Laboratory - California Institute of Technology, United States

IAC-15.A3.5.3 (withdrawn)

BEPICOLOMBO – A JOINT ESA/JAXA MISSION TO EXPLORE MERCURY
Joe Zender, European Space Research and Technology Centre, ESA-ESTEC, The Netherlands

IAC-15.A3.5.4

SIMBIO-SYS FOR BEPICOLOMBO: A COMPACT OPTICAL SUITE FOR MERCURY
Enrico Flamini, Italian Space Agency (ASI), Italy

IAC-15.A3.5.5

A MISSION FOR PROBING THE INTERIOR STRUCTURE OF VENUS
David MIMOUN, ISAE-Supaero University of Toulouse, France

IAC-15.A3.5.6

RADIO SCIENCE INVESTIGATIONS WITH THE JUNO MISSION
Marzia Parisi, Weizmann Institute of Science, Israel

IAC-15.A3.5.7 (withdrawn)

AN EXPLORATION OF ICY WORLD HABITABILITY: THE EUROPA CLIPPER
Barry Goldstein, Jet Propulsion Laboratory - California Institute of Technology, United States

IAC-15.A3.5.8

PLANETARY CUBESATS COME OF AGE
Brent Sherwood, Caltech/JPL, United States

IAC-15.A3.5.9

LOW POWER LIGHTWEIGHT MICRO-METEOROLOGICAL STATION FOR WIRELESS SENSOR NETWORK BASED SPACE EXPLORATION
Francisco Alvarez, Arquimea, Spain

A3.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Bernard Foing, ESA/ESTEC, The Netherlands; Christian Sallaberger, Canadensys Aerospace Corporation, Canada;

IAC-15.A3.IP.1

LOW DENSITY SUPERSONIC DECELERATOR USING MAGNETO HYDRODYNAMICS AND DYNAMIC DIFFUSERS
Chirshma Singh-Derewa, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.A3.IP.2

CONTROL AND NAVIGATION SYSTEM FOR AN AUTONOMOUS MARS ROVER
Kamal Galrani, Indian Institute of Technology, India

IAC-15.A3.IP.3

AN ULTRA STABLE OSCILLATOR FOR THE 3GM INVESTIGATION OF ESA'S "JUICE" MISSION TO THE JOVIAN SYSTEM
Aviv Shapira, Israel

IAC-15.A3.IP.4

ANALYSIS OF THE FLIGHT PATHS TO JUPITER USING THE SEQUENCE OF GRAVITATIONAL MANEUVERS
Mikhail S. Konstantinov, Moscow Aviation Institute, Russian Federation

IAC-15.A3.IP.5

ORBITAL DESIGN BASED ON IMPROVED ANT COLONY ALGORITHM
Xun Duan, College of Astronautics, Northwestern Polytechnical University, China

IAC-15.A3.IP.6

SPIN EXCHANGE OPTICAL PUMPED 3HE MAGNETOMETER FOR SPACE EXPLORATION
Shuangai Wan, China

IAC-15.A3.IP.7

A NOVEL TRAJECTORY OPTIMIZATION METHOD FOR MARS ATMOSPHERIC ENTRY
Zhengshi Yu, School of Aerospace Engineering, Beijing Institute of Technology, China

IAC-15.A3.IP.8

SOME NECESSARY TECHNOLOGIES FOR IN-SITU ASTROBIOLOGY ON ENCELADUS
Konstantinos Konstantinidis, Universität der Bundeswehr München, Germany

IAC-15.A3.IP.9 (withdrawn)

JUPITER: MOMENT OF INERTIA, THE SHAPE-ROTATION RELATION, AND THE CONNECTION TO THE JUNO AND JUICE MISSIONS
Ravit Helled, Tel Aviv University, Israel

IAC-15.A3.IP.10

TOUCHDOWN SIMULATION, TESTING AND VALIDATION OF A MARSLANDER DEMONSTRATOR
Bianca Reinhardt, University of Bremen, Germany

IAC-15.A3.IP.11

RESEARCH ON MARS THREE-ROCKER LOCOMOTION SYSTEM WITH AUTOMOTIVE SUSPENSION
ZENG Ling-bin, Shanghai Aerospace System Engineering Institute, China

IAC-15.A3.IP.12

METEOROLOGICAL PREDICTIONS FOR MARS 2020 EXPLORATION ROVER HIGH-PRIORITY LANDING SITES
Jorge Pla-García, INTA - Centro de Astrobiología, Spain

IAC-15.A3.IP.13 (withdrawn)

A STUDY OF THE PARAMETERS INVOLVED IN DESIGNING AN INTERPLANETARY TRAJECTORY USING LAGRANGIAN POINTS
ROSHAN THOMAS EAPEN, India

IAC-15.A3.IP.14

ACCURACY OF BEPICOLOMBO'S DETERMINATION OF THE POST-NEWTONIAN PARAMETERS
Anja Schuster, TU Darmstadt, Germany

IAC-15.A3.IP.15

KANARIA: IDENTIFYING THE CHALLENGES FOR COGNITIVE AUTONOMOUS NAVIGATION AND GUIDANCE FOR MISSIONS TO SMALL PLANETARY BODIES
Alena Probst, Bundeswehr University Munich, Germany

IAC-15.A3.IP.16

AUTONOMOUS RADIO-PHYSICAL GRAVIMETER BASED ON FEMTOSECOND LASER
Anatoliy Povrozin, National Science Center "Kharkov Institute of Physics and Technology", Ukraine

IAC-15.A3.IP.17

COMPARATIVE ANALYSIS OF SPACECRAFT INSERTION PROFILES TO THE MARS SATELLITE ORBITS
Nikolay Sokolov, Central Research Institute of Machine Building (FSUE/TSNIIMASH), Russian Federation

IAC-15.A3.IP.18

ONBOARD WAYPOINT PLANNING BASED MARS PREDICTIVE ENTRY GUIDANCE WITH PATH CONSTRAINTS
Jiateng Long, Beijing Institute of Technology, School of Aerospace Engineering, China

IAC-15.A3.IP.19

IMPLEMENTING PLANETARY PROTECTION REQUIREMENTS ON THE EXOMARS DRILL
Alessandro Fumagalli, Selex ES, Italy

IAC-15.A3.IP.20

INNOVATIVE RELAY HAZARD DETECTION AND AVOIDANCE STRATEGY FOR FUTURE CHINA AUTONOMOUS SAFE PLANETARY LANDING
Xiuqiang Jiang, Nanjing University of Aeronautics and Astronautics, China

IAC-15.A3.IP.21

ROCK DETECTION ON MARS VIA SUPERPIXELS METHOD
Xueming Xiao, Deep Space Exploration Research Center, Harbin Institute of Technology, China

IAC-15.A3.IP.22

SELECTION OF THE MARTIAN LANDING SITE BASED ON THE ENGINEERING CONSTRAINTS
Jie Dong, China Academy of Space Technology (CAST), China

IAC-15.A3.IP.23

AERODYNAMIC DESIGN AND SIMULATION OF MARS ROTORCRAFT
Su Wei, Beijing Institute of Space Long Mach Vehicle, China

IAC-15.A3.IP.24 (withdrawn)

EFFECTIVE USE OF FORCE FEEDBACK IN HEXAPOD WALKING
John Rippetoe, University of South Florida, United States

IAC-15.A3.IP.25

MANNED ROVER FOR MARS EXPLORATION, MOON AND OTHER PLANETS.
Oleg Aleksandrov, AVIASTAR Inc www.aviastar.us, United States

IAC-15.A3.IP.26

A NOVEL CPLD-BASED SYSTEM FOR AN AUTONOMOUS MARS ROVER
Alankar Kotwal, Indian Institute of Technology, India

IAC-15.A3.IP.27

DESIGN APPROACH OF LOW GAIN ANTENNA FOR DEEP EXPLORATION VEHICLES
Chunhui Li, Shanghai Academy of Spaceflight Technology, China

IAC-15.A3.IP.28 (withdrawn)

STATUS OF ESA'S ON-GOING AND PLANNED TECHNOLOGY DEVELOPMENTS FOR A PHOBOS SAMPLE RETURN MISSION
Sanjay Vijendran, ESA, The Netherlands

IAC-15.A3.IP.29

ASTEROID DEFLECTION IN LABORATORY - MOMENTUM TRANSFER MEASUREMENT OF LABORATORY HYPERVELOCITY IMPACT EXPERIMENTS ON ASTEROID-LIKE MATERIALS AS A FUNCTION OF TARGET POROSITY AND PROJECTILE SHAPE
Jan Hupfer, Fraunhofer EMI, Germany

IAC-15.A3.IP.30

NAVIGATION CHALLENGES OF THE KANARIA ASTEROID MINING MISSION
Graciela González Peytavi, Bundeswehr Univeristy Munich, Germany

IAC-15.A3.IP.31

REDUCING LARGE VIKING I BASED MARTIAN ENTRY, DESCENT AND LANDING RESPONSE SURFACE METHODOLOGY PRODUCED QUADRATIC MODELS
Narcisha Norman, Howard University, United States

IAC-15.A3.IP.32

UNDERSTANDING THE NUCLEUS OF 67P/C-G THROUGH LABORATORY EXPERIMENTS
Diana Laufer, Tel Aviv University, Israel

IAC-15.A3.IP.33 (withdrawn)

MODELING AND OPTIMIZATION OF MULTI-STAGE ASTEROID DEFLECTION CAMPAIGNS UNDER EPISTEMIC UNCERTAINTIES.
Sung Wook Paek, Massachusetts Institute of Technology (MIT), United States

IAC-15.A3.IP.34

DESIGN AND DEVELOPMENT OF AN ACTIVE LANDING GEAR SYSTEM FOR LOW-GRAVITY ENVIRONMENTS
Cristian Corneliu Chitu, GMV-Romania, Romania

IAC-15.A3.IP.35

NEO DEFLECTION WITH B-PLANE UNCERTAINTY
Nahum Melamed, The Aerospace Corporation, United States

IAC-15.A3.IP.36

METIS CORONOGRAPH - A SYSTEM ENGINEERING APPROACH
Alessandro Gabrielli, Italian Space Agency (ASI), Italy

IAC-15.A3.IP.37

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Coordinator(s): *Claudio Maccone, International Academy of Astronautics (IAA) and Istituto Nazionale di Astrofisica (INAF), Italy;*

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Coordinator(s): *Claudio Maccone, International Academy of Astronautics (IAA) and Istituto Nazionale di Astrofisica (INAF), Italy;*

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Coordinator(s): *Christian Sallaberger, Canadensys Aerospace Corporation, Canada; Maria Antonietta Perino, Thales Alenia Space Italia, Italy;*

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October 14 2015, 14:45 — Eshkol 3

Co-Chair(s): *Michael Raftery, Boeing Defense Space & Security, United States; Nadeem Ghafoor, Canadensys Aerospace Corporation, Canada;*

Rapporteur(s): *Kathy Laurini, National Aeronautics and Space Administration (NASA), United States; Uwe Apel, Hochschule Bremen, Germany;*

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IAC-15.A5.1.9 (withdrawn)

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Yury Makushenko, S.P. Korolev Rocket and Space Corporation Energia, Russian Federation

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David Murrow, Lockheed Martin (Space Systems Company), United States

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Co-Chair(s): *Maria Antonietta Perino, Thales Alenia Space Italia, Italy; Nadeem Ghafoor, Canadensys Aerospace Corporation, Canada;*

Rapporteur(s): *Norbert Frischauf, Austria;*

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Eric Ward, Massachusetts Institute of Technology (MIT), United States

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Christopher Moore, National Aeronautics and Space Administration (NASA), United States

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October 15 2015, 14:45 — Ballroom A

Co-Chair(s): Christian Sallaberger , Canadensys Aerospace Corporation, Canada; Pierre Jean , Canadian Space Agency, Canada;

Rapporteur(s): Mark Hempell , Hempell Astronautics Limited, United Kingdom;

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Yuval Brodsky, Italian Mars Society, Israel

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IAC-15.A5.3-B3.6.3 (withdrawn)

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IAC-15.A5.3-B3.6.4 (withdrawn)

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Jason Dunn, Made In Space, Inc., United States

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Vladislav Sychkov, SPA "Android Technics", Russian Federation

A5.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Christian Sallaberger , Canadensys Aerospace Corporation, Canada; Maria Antonietta Perino , Thales Alenia Space Italia, Italy;

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IAC-15.A5.IP.5

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Liangliang HAN, Institute of Aerospace System Engineering Shanghai, CASC, China

A6. 13th IAA SYMPOSIUM ON SPACE DEBRIS

Coordinator(s): Christophe Bonnal , Centre National d'Etudes Spatiales (CNES), France; J.-C. Liou , National Aeronautics and Space Administration (NASA), United States;

A6.1. Measurements

October 12 2015, 15:15 — Eshkol 2

Co-Chair(s): Heather Cowardin , Jacobs Technology, ESCG, United States; Thomas Schildknecht , Astronomical Institute University of Bern (AIUB) / SwissSpace Association, Switzerland; **Rapporteur(s):** Vladimir Agapov , , Russian Federation;

IAC-15.A6.1.1

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Igor Molotov, Keldysh Institute of Applied Mathematics, RAS, Russian Federation

IAC-15.A6.1.2

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Esther Linder, Astronomical Institute University of Bern (AIUB), Switzerland

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Tommaso Cardona, University of Rome "La Sapienza", Italy

IAC-15.A6.1.4

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IAC-15.A6.1.5

ISON SPACE DEBRIS DETECTION PIPELINE: RECENT DEVELOPMENTS
Vladimir Kouprianov, Central Astronomical Observatory, RAS, Russian Federation

IAC-15.A6.1.6

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Philipp Maier, European Space Agency (ESA), The Netherlands

IAC-15.A6.1.7

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Matthew Moraguez, University of Florida, United States

IAC-15.A6.1.8

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Yukihito Kitazawa, IHI Corporation, Japan

IAC-15.A6.1.9

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Wei Niu, State Key Laboratory of Astronautic Dynamics, China

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October 13 2015, 09:45 — Eshkol 2

Co-Chair(s): Carmen Pardini , ISTI-CNR, Italy; Marlon Sorge , , United States; **Rapporteur(s):** Sven Kevin Flegel , Fraunhofer Institute for High Frequency Physics and Radar Techniques (FHR), Germany;

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David Finkleman, SkySentry, LLC, United States

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Juan Carlos Dolado Perez, Centre National d'Etudes Spatiales (CNES), France

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Carmen Pardini, ISTI-CNR, Italy

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Darren McKnight, Integrity Applications Incorporated (IAI), United States

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Marlon Sorge, The Aerospace Corporation, United States

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Moises Rivero, University of Florida, United States

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Nikolay Sakva, Federal state unitary enterprise "Central Scientific Research Institute of machine-building" (TsNIIMASH), Russian Federation

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Co-Chair(s): Frank Schaefer , Fraunhofer - Institut für Kurzzeitdynamik, Ernst-Mach-Institut (EMI), Germany; Norman Fitz-Coy , University of Florida, United States; **Rapporteur(s):** Alessandro Francesconi , University of Padova - DII/CISAS, Italy;

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Alessandro Francesconi, University of Padova - DII/CISAS, Italy

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Tanaka Kaji, ISAS/JAXA, Japan

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Christoph Montag, Institute of Space Systems, Universität Stuttgart, Germany

IAC-15.A6.3.8

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SHENGWEI LAN, China Aerodynamics Research and Development Center, China

IAC-15.A6.3.10 (withdrawn)

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Akanksha Dadhich, University of Petroleum and Energy Studies, India

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Co-Chair(s): Christian Cazaux , Centre National d'Etudes Spatiales (CNES), France; Holger Krag , European Space Agency (ESA), Germany;
Rapporteur(s): Akira Kato , Japan Aerospace Exploration Agency (JAXA), Japan;

IAC-15.A6.4.1

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Chiara Palla, Cranfield University, United Kingdom

IAC-15.A6.4.2

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Stefano Antonetti, Italy

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Holger Krag, European Space Agency (ESA), Germany

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David Riley, Deimos Space UK Ltd, United Kingdom

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Quirin Funke, European Space Agency (ESA), Germany

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Roberto Armellin, University of Southampton, United Kingdom

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Jiangong Liu, China Academy of Space Technology (CAST), China

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October 15 2015, 09:45 — Eshkol 2

Co-Chair(s): Fabrizio Piergentili , University of Rome "La Sapienza", Italy; M.Y.S. Prasad , Indian Space Research Organization (ISRO), India;
Rapporteur(s): Fabio Santoni , University of Rome "La Sapienza", Italy;

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Aaron Parness, Caltech/JPL, United States

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Xinlong Chen, China Academy of Space Technology (CAST), China

IAC-15.A6.5.3 (withdrawn)

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IAC-15.A6.5.4

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Richard Rembala, MDA, Robotics and Automation, Canada

IAC-15.A6.5.5

ALGORITHM FOR DETERMINATION OF FORCE TRANSMITTED BY PLUME OF ION THRUSTER TO ORBITAL OBJECT USING PHOTO CAMERA
Anatoliy Alpatov, Institute of Technical Mechanics of the National Academy of Science and State Space Agency of Ukraine, Ukraine

IAC-15.A6.5.6

ON THE SIMULATION OF TETHER-NETS FOR SPACE DEBRIS CAPTURE WITH VORTEX DYNAMICS
Eleonora Botta, McGill University, Canada

IAC-15.A6.5.7

AN ANALYSIS OF CRITICAL DEPLOYMENT PARAMETERS FOR TETHERED-NET CAPTURING FOR SPACE DEBRIS REMOVAL
Minghe Shan, Delft University of Technology (TU Delft), The Netherlands

IAC-15.A6.5.8

VALIDATION RESULTS OF SATELLITE MOCK-UP CAPTURING EXPERIMENT USING NETS
Alberto Medina, GMV Aerospace & Defence SAU, Spain

IAC-15.A6.5.9

RESULTS AND ROADMAP FOR ON-GROUND BREAD-BOARDING AND TESTING OF KEY GNC TECHNOLOGIES FOR ACTIVE DEBRIS REMOVAL
Mariella Graziano, GMV Aerospace & Defence SAU, Spain

A6.6. Space Debris Removal Concepts

October 15 2015, 14:45 — Eshkol 2

Co-Chair(s): Nicolas Bérend , Office National d'Etudes et de Recherches Aéropatiales (ONERA), France; Seishiro Kibe , Japan Aerospace Exploration Agency (JAXA), Japan;
Rapporteur(s): Mark Matney , National Aeronautics and Space Administration (NASA)/Johnson Space Center, United States;

IAC-15.A6.6.1

AGORA: MISSION TO DEMONSTRATE TECHNOLOGIES TO ACTIVELY REMOVE ARIANE ROCKET BODIES
Kartik Kumar, Dinamica Srl, Italy

IAC-15.A6.6.2

MISSION DESIGN AND GNC FOR IN-ORBIT DEMONSTRATION OF ACTIVE DEBRIS REMOVAL TECHNOLOGIES WITH CUBESATS
Camille Pirat, Ecole Polytechnique Fédérale de Lausanne (EPFL), Swiss Space Center (SSC), Switzerland

IAC-15.A6.6.3

AN IN-ORBIT ACTIVE DEBRIS REMOVAL MISSION – REMOVEDEBRIS: PRE-LAUNCH UPDATE
Jason Forshaw, Surrey Space Centre, University of Surrey, United Kingdom

IAC-15.A6.6.4

PRIVATE SPACE COMPANY SPACE-BASED SOLUTIONS TO THE GROWING THREAT COMING FROM ORBITAL DEBRIS
Philippe Moreels, ASTROSCALE PTE. LTD., Rep. Of Singapore

IAC-15.A6.6.5

THE E.DEORBIT MISSION: RESULTS OF ESA'S PHASE A STUDIES FOR AN ACTIVE DEBRIS REMOVAL MISSION
Robin Biesbroek, ESA european space agency, The Netherlands

IAC-15.A6.6.6

OHV CONCEPTS FOR ACTIVE SPACE DEBRIS REMOVAL AND ON-ORBIT SERVICING
Gerrit Hausmann, OHV System AG - Munich, Germany

IAC-15.A6.6.7 (withdrawn)

AVIOSPACE'S DEVELOPMENTS ON ACTIVE DEBRIS REMOVAL TECHNOLOGIES AND CONCEPTS
Alessandro Chiesa, Aviospace, Italy

IAC-15.A6.6.8

LIGHTFORCE PHOTON-PRESSURE COLLISION AVOIDANCE: EFFICIENCY ANALYSIS IN THE CURRENT DEBRIS ENVIRONMENT AND LONG-TERM SIMULATION PERSPECTIVE
Jan Stupl, SGT Inc. / NASA Ames Research Center, United States

IAC-15.A6.6.9

LASER ABLATION FOR SPACE DEBRIS MITIGATION
Alaa Hussein, University of Sussex, United Kingdom

IAC-15.A6.6.10

AN CONCEPTUAL DESIGN FOR A SPACE DEBRIS REMOVAL SPACECRAFT
Xin Qu, Beijing Institute of Electronic System Engineering, China

IAC-15.A6.6.11 (withdrawn)

ACTIVE IN-ORBIT JUNK REMOVERS – AN INDISPENSABLE SERVICE FOR TRUE SPACE DEBRIS MITIGATION
Nevo Taaseh, Effective Space Solutions, Israel

A6.7. Operations in Space Debris Environment, Situational Awareness

October 16 2015, 09:45 — Eshkol 2

Co-Chair(s): David Finkleman , International Academy of Astronautics, United States; T.S. Kelso , Center for Space Standards and Innovation, United States;
Rapporteur(s): Juan Carlos Dolado Perez , Centre National d'Etudes Spatiales (CNES), France;

IAC-15.A6.7.1

COLLISION AVOIDANCE : FROM GENERAL GUIDELINES TO INDIVIDUAL REALITIES
Claire FREMEAUX, Centre National d'Etudes Spatiales (CNES), France

IAC-15.A6.7.2

TWO MODERN WEB TOOLS HELPING ESA'S DEBRIS OPERATIONAL SUPPORT
Daniel Novak, CGI, Germany

IAC-15.A6.7.3

OPERATIONAL CONSIDERATIONS OF GEO DEBRIS SYNCHRONIZATION DYNAMICS
Paul Anderson, University of Colorado Boulder, United States

IAC-15.A6.7.4

A NEW METHOD FOR TIME OF CRITICAL APPROACH CALCULATION
Elad Denenberg, TECHNION - Israel Institute of Technology, Israel

IAC-15.A6.7.5

CAPABILITIES OF ISON OBSERVATION NETWORK AND THE SPACE DEBRIS DATA CENTER IN SUPPORT SPACE OPERATIONS SAFETY IN GEO REGION
Vladimir Agapov, Keldysh Institute of Applied Mathematics, RAS, Russian Federation

IAC-15.A6.7.6

FROM SIMULATION TO REALITY: CATALOGUING CAMPAIGN OF SPACE POPULATION BASED ON OPTICAL OBSERVATIONS
Noelia Sanchez Ortiz, Deimos Space S.L., Spain

IAC-15.A6.7.7

ORBITAL DEBRIS HAZARD INSIGHTS FROM SPACECRAFT ANOMALIES STUDIES
Darren McKnight, Integrity Applications Incorporated (IAI), United States

IAC-15.A6.7.8

DISSECTING SPACE DEBRIS EVENTS
T.S. Kelso, Center for Space Standards and Innovation, United States

IAC-15.A6.7.9

PROVIDING ORBITAL INFORMATION FOR OBJECTS IN EARTH ORBITS AS CHEBYSHEV POLYNOMIALS
Vitali Braun, ESOC - European Space Agency, Germany

A6.8. (joint session with Space Security Committee): Policy, Legal, Institutional and Economic Aspects of Space Debris Detection, Mitigation and Removal

October 16 2015, 13:30 — Eshkol 2

Co-Chair(s): Brett Biddington , Space Industry Association of Australia, Australia; Darren McKnight , Integrity Applications Incorporated (IAI), United States;
Rapporteur(s): Charlotte Mathieu , European Space Agency (ESA), France;

IAC-15.A6.8.1

DEBRIS MITIGATION AS AN INSURANCE IMPERATIVE
Andrea Harrington, Institute of Air and Space Law, McGill University, United States

IAC-15.A6.8.2

SATELLITE SELF REMOVAL AS MITIGATION TO SPACE DEBRIS
Denis Bensoussan, United Kingdom

IAC-15.A6.8.3

NEEDS OF AN INTERNATIONAL POLICY AND A REGULATION FRAMEWORK FOR OPERATIONAL DEBRIS MITIGATION SYSTEMS
Annamaria Nassisi, Thales Alenia Space Italia, Italy

IAC-15.A6.8.4

THE COST-EFFECTIVENESS OF POST-MISSION DISPOSAL MANEUVERS
Carsten Wiedemann, Technische Universität Braunschweig, Germany

IAC-15.A6.8.5

COULD INTRODUCTION OF SPACE PAYLOAD MANAGEMENT BE THE NEXT STEP TO SPACE TRAFFIC MANAGEMENT?
Serge Plattard, European Space Policy Institute (ESPI), Austria

IAC-15.A6.8.6

CONSIDERATIONS FOR THE LONG-TERM SUSTAINABILITY OF OUTER SPACE ACTIVITIES
Susumu Yoshitomi, Japan Space Forum, Japan

IAC-15.A6.8.7

CHINA'S PROMOTION ON SPACE SECURITY AND SAFETY
Shengjun Zhang, China Academy of Launch Vehicle Technology (CALT), China

IAC-15.A6.8.8

ADR ACTIVITIES: FACET OF RESPONSIBLE USE OF OUTER SPACE AND LIMITS OF THEIR LEGALITY
Olga S. Stelmakh, Parliament of Ukraine / DRSB Group Int., Ukraine

A6.9. Modelling and Orbit Determination

October 14 2015, 14:45 — Eshkol 2

Co-Chair(s): Heiner Klinkrad, European Space Agency (ESA), Germany; Moriba Jah, Air Force Research Laboratory (AFRL), United States;

Rapporteur(s): Hugh G. Lewis, University of Southampton, United Kingdom;

IAC-15.A6.9.1

QUANTIFYING REENTRY UNCERTAINTY: STATISTICS, DRIVERS, AND BEST PRACTICES
Joseph Gangestad, The Aerospace Corporation, United States

IAC-15.A6.9.2 (withdrawn)

MODELING RE-ENTRY AERO-THERMODYNAMICS USING A RESPONSE SURFACE MODEL
Piyush Mehta, University of Strathclyde, United Kingdom

IAC-15.A6.9.3

SURVIVABILITY AND DEMISE CRITERIA FOR SUSTAINABLE SPACECRAFT DESIGN
Mirko Trisolini, University of Southampton, United Kingdom

IAC-15.A6.9.4 (withdrawn)

DEBRIS SHAPE CHARACTERIZATION USING BALLISTIC COEFFICIENT ESTIMATION
John McVey, Affiliated with The Aerospace Corporation, United States

IAC-15.A6.9.5

DETERMINING THE INFLUENCE ON ORBIT PREDICTION BASED ON UNCERTAINTIES IN ATMOSPHERIC MODELS
Christopher Keschull, Technische Universität Braunschweig, Germany

IAC-15.A6.9.7

DYNAMICAL EVOLUTION OF DEFUNCT GEO SATELLITES WITH FLEXIBLE SOLAR ARRAYS SUBJECT TO SOLAR RADIATION PRESSURE AND GRAVITY
Mengping Zhu, China Academy of Space Technology (CAST), China

IAC-15.A6.9.8

ON THE COMPUTATION OF PRELIMINARY ORBITS FOR SPACE DEBRIS WITH RADAR OBSERVATIONS
Helene Ma, University of Pisa, Italy

IAC-15.A6.9.9

A COVARIANCE ANALYSIS TO OPTIMIZE THE OPTICAL FOLLOW-UP STRATEGIES
Emiliano Cordelli, Astronomical Institute University of Bern (AIUB), Switzerland

IAC-15.A6.9.10

ASSOCIATING OPTICAL MEASUREMENTS AND ESTIMATING ORBITS OF GEOCENTRIC OBJECTS THROUGH POPULATION-BASED META-HEURISTIC METHODS
Michiel Zittersteijn, Astronomical Institute University of Bern (AIUB), Switzerland

A6.10-YPVF.5. Space Debris Young Professionals Virtual Forum

October 12 2015, 15:15 — Kerem Carmit

Co-Chair(s): Charlotte Mathieu, European Space Agency (ESA), France; Kevin Stube, The Planetary Society, United States;
Rapporteur(s): Christophe Bonnal, Centre National d'Etudes Spatiales (CNES), France;

IAC-15.A6.10-YPVF.5.1

REMOVAL OF SPACE DEBRIS USING SATELLITE LASER GUN
Raunak Raj, University of Petroleum and Energy Studies, India

IAC-15.A6.10-YPVF.5.2 (withdrawn)

A SEMI-SUPERVISED LEARNING BASED SPACE DEBRIS DETERMINATION USING ONLY PUBLICALLY AVAILABLE TWO-LINE ELEMENT SETS
Hang Li, China Academy of Launch Vehicle Technology, China

IAC-15.A6.10-YPVF.5.3

DEPENDABLE DESIGN FOR THE GNC SYSTEM OF THE "CHASER" SPACECRAFT
Fabrizio Stesina, Politecnico di Torino, Italy

IAC-15.A6.10-YPVF.5.4

SPACE DEBRIS REMOVAL
Hari Shankar, I.I.A.E.I.T IGNOU, India

IAC-15.A6.10-YPVF.5.5

SPACE DEBRIS
Jaishree Sarojini, Karunya University, India

IAC-15.A6.10-YPVF.5.6

ESA'S CLEAN SPACE INITIATIVE – AN OVERVIEW OF THE SPACE DEBRIS MITIGATION AND REMEDIATION ACTIVITIES
Andrew Wolahan, ESTEC, The Netherlands

A6.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Christophe Bonnal, Centre National d'Etudes Spatiales (CNES), France; J.-C. Liou, National Aeronautics and Space Administration (NASA), United States;

IAC-15.A6.IP.1

HYPERVELOCITY IMPACT SIMULATION OF DESIGNED MICRO STRUCTURE CORE SANDWICH PANEL USING SPH
YunHo Kim, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

IAC-15.A6.IP.2

THE COMPARISON OF IMPACT RESISTANCE PERFORMANCE OF HYPERVELOCITY IMPACT ON ALUMINUM AND GLARE BY NUMERICAL SIMULATION
Chunsen Shi, Delft University of Technology (TU Delft), The Netherlands

IAC-15.A6.IP.3

PASSIVE OPTICAL SPACE SURVEILLANCE SYSTEM FOR INITIAL LEO OBJECT DETECTION
Paul Wagner, German Aerospace Center (DLR), Germany

IAC-15.A6.IP.4

INVESTIGATION INTO DAMAGE OF WOVEN STUFFED SHIELD UNDER HIGH-SPEED NON-METAL PROJECTILE IMPACT
Gongshun Guan, Harbin Institute of Technology, China

IAC-15.A6.IP.5

EXPERIMENT AND CALCULATION OF THE PERFORMANCE OF DEBRIS SHIELD STUFFED WITH GLASS EPOXY PLATE
Xuezhong Wen, China Aerodynamics Research and Development Center, China

IAC-15.A6.IP.6

BALLISTIC LIMIT EQUATION FOR ALUMINUM HONEYCOMB SANDWICH PANELS
MA ZHAOXIA, China Aerodynamics Research and Development Center, China

IAC-15.A6.IP.7

DAMAGE CHARACTERISTICS OF WHIPPLE SHIELD SUBJECTED BY HYPERVELOCITY IMPACT OF SILICATE SIMULACRUM FOR MICRO-METEORIDS
Bin Jia, Harbin Institute of Technology, China

IAC-15.A6.IP.8

CHASING SPACE DEBRIS, MISSILES & SATELLITES – USING GROUND SYSTEMS. TRACKING & HIGH-RES IMAGING SYSTEMS FOR HIGH PROPER MOTION SPACE OBJECTS.
Ido Bareket, Israel

IAC-15.A6.IP.9 (withdrawn)

EVASIVE MANEUVERS PULSED IN SPACE DEBRIS ENVIRONMENT, SUBJECT TO DISTURBANCES OF ATMOSPHERIC DRAG AND TECHNOLOGICAL PARAMETERS.
Antonio Delson Jesus, Brazilian Space Agency (AEB), Brazil

IAC-15.A6.IP.10 (withdrawn)

EVASIVE MANEUVERS ON A COLLISION COURSE WITH CLOUD OF SPACE DEBRIS
Antonio Delson Jesus, Brazilian Space Agency (AEB), Brazil

IAC-15.A6.IP.11 (withdrawn)

DYNAMICS AND CONTROL OF LARGE DEBRIS IN TETHER DRAG DEORBITING
Liang Sun, Beihang University, China

IAC-15.A6.IP.12

SURREY SPACE CENTRE: A SURVEY OF DEBRIS REMOVAL RESEARCH ACTIVITIES
Jason Forshaw, Surrey Space Centre, University of Surrey, United Kingdom

IAC-15.A6.IP.13 (withdrawn)

MACHINE LEARNING APPLIED TO AUTONOMOUS ROBOTIC CAPTURE OF AN UNCOOPERATIVE TUMBLING TARGET
Marko Jankovic, German Research Centre for Artificial Intelligence, Germany

IAC-15.A6.IP.14

OPTIMAL DIRECTION AND A PROCESS DESIGN OF REMOVING LOW EARTH ORBIT DEBRIS WITH SPACE-BASED LASER
Han Wei-hua, Beijing Aerospace Control Center (BACC), China

IAC-15.A6.IP.15

METHODICAL APPROACH TO COMPREHENSIVELY RESOLUTION THE PROBLEM OF ENVIRONMENTAL POLLUTION REDUCTION WHEN SLV WITH LPE LAUNCHES
Valeriy Trushlyakov, Omsk State Technical University, Russian Federation

IAC-15.A6.IP.16

DORBIT SYSTEM BASED ON VACUUM ARC THRUSTER FOR MICRO SATELLITE
Kateryna Aheieva, Laboratory of Spacecraft Environment Interaction Engineering, Kyushu Institute of Technology, Japan

IAC-15.A6.IP.17 (withdrawn)

RESEARCH ON THE MEASUREMENT OF RELATIVE POSITION AND POSE BETWEEN TWO NON-COOPERATIVE SPACECRAFTS
Yu Liu, Aerospace System Engineering Institute Shanghai, China

IAC-15.A6.IP.18

SYNCHRONIZATION STRATEGY OF ORBITAL PLANE AND PHASING FOR ACTIVE DEBRIS REMOVAL WITH MICRO-THRUSTER
Zhang Jinxiu, Harbin Institute of Technology, China

IAC-15.A6.IP.19

AUTOMATIC DETECTION ALGORITHM FOR SPACE DEBRIS
Rong-Yu Sun, Purple Mountain Astronomical Observatory, China

IAC-15.A6.IP.20 (withdrawn)

ORBIT PREDICTION PRECISION IMPROVEMENT OF LEO SPACE OBJECTS AND ITS APPLICATION IN COLLISION RISK ESTIMATES
Zhongya Cang, China Meteorological Administration, China

IAC-15.A6.IP.21

AN ANALYSIS OF THE APPLICABILITY OF SPACE DEBRIS MITIGATION GUIDELINES TO THE COMMERCIAL SMALL-SATELLITE INDUSTRY
Narayan Prasad Nagendra, Dhruva Space, India

IAC-15.A6.IP.22

TETHER ORBITAL PERTURBATIONS INFLUENCE DETERMINATOR
Marcel Becker, TU Braunschweig, Germany

IAC-15.A6.IP.23

MATURING THROW-NETS FOR SPACE DEBRIS CAPTURE WITH VALIDATED SIMULATORS AND ZERO-G TESTING.
Kjetil Wormnes, ESA, The Netherlands

IAC-15.A6.IP.24 (withdrawn)

TOWARDS THE GENERATION OF EMPIRICAL THERMAL FLUX DATASETS FOR THE IMPROVEMENT OF ENGINEERING-LEVEL DESTRUCTIVE RE-ENTRY SIMULATIONS
Nathan Donaldson, University of Oxford, United Kingdom

IAC-15.A6.IP.25 (withdrawn)

DEORBITING OF NANO SATELLITE USING COLD GAS THRUSTER TO MINIMIZE SPACE DEBRIS.
Biltu Mahato, India

IAC-15.A6.IP.26

NET-BASED SPACE DEBRIS CAPTURE TECHNOLOGY DEVELOPMENT PLAN: TESTING IN RELEVANT ENVIRONMENT
Michèle Lavagna, Politecnico di Milano, Italy

IAC-15.A6.IP.27

ENVIRONMENTAL IMPACT OF SPACE DEBRIS REPOSITIONING
''

IAC-15.A6.IP.28

EQUO: AN EQUATORIAL OBSERVATORY TO IMPROVE THE ITALIAN SPACE SURVEILLANCE CAPABILITY
Fabrizio Piergentili, University of Rome "La Sapienza", Italy

IAC-15.A6.IP.29

A NOVEL RECYCLING CONCEPT FOR SPACE DEBRIS MITIGATION
Gioacchino Scire, University of Rome "La Sapienza", Italy

IAC-15.A6.IP.30

A.R.T.I.C.A. DEORBETING SYSTEM: THE NEW DESIGN AND PROTOTYPE OF A COMPACT DEORBETING SAIL ON BOARD CUBESAT "URSA MAIOR"
Niccolò Bellini, N.P.C. New Production Concept, Italy

IAC-15.A6.IP.31

DESIGN AND FIRST PROTOTYPE OF AN ALT-AZ MOUNT FOR 1M CLASS TELESCOPE FOR SPACE DEBRIS TRACKING
Davide Rastelli, N.P.C. New Production Concept, Italy

IAC-15.A6.IP.32

LEO SPACE DEBRIS REMOVAL TASK ANALYSIS AND DEVELOPMENT PROPOSALS
Xiaoguang Chen, Shanghai Institute of Aerospace Technology, China

IAC-15.A6.IP.33

OHB REMEDIATION ACTIVITIES FOR A CLEANER SPACE – E.DEORBIT AND TENTACLE-BASED CLAMPING MECHANISM
Marc Scheper, OHB System AG-Bremen, Germany

IAC-15.A6.IP.34

SPACE DEBRIS REMOVAL USING DE-ORBIT KIT TECHNOLOGY
Sourabh Kaushal, Institute of Science and Technology, Klawad, Haryana, INDIA, India

IAC-15.A6.IP.35

PROBABLE APPROACHES TO THE NEAR-EARTH ORBITS CLEAN-UP FROM SPACE DEBRIS WITH DIMENSIONS LESS THAN 10 CENTIMETERS
Vera Mayorova, Bauman Moscow State Technical University, Russian Federation

IAC-15.A6.IP.36

OHB MITIGATION ACTIVITIES FOR A CLEANER SPACE – CLEANSAT, DESIGN-FOR-DEMISE, IN-ORBIT REFUELLING, PROPULSION SUBSYSTEM PASSIVATION
Jan-Christian Meyer, OHB System AG-Bremen, Germany

IAC-15.A6.IP.37 (withdrawn)

ADVANCED VISION BASED TECHNIQUE FOR CLOSE RANGE NAVIGATION IN ON-ORBIT SERVICING
Karthik Ravandoor, University Wuerzburg, Germany

IAC-15.A6.IP.38

OPTIMIZING OBSERVATION SCHEDULING FOR DEBRIS TRACKING FACILITY WITH SHORTEST PATH ALGORITHM
Haowen Cheng, National Astronomical Observatories, Chinese Academy of Sciences, China

IAC-15.A6.IP.39 (withdrawn)

AN APPLICATION OF STAMP (SYSTEMS-THEORETIC ACCIDENT MODELING AND PROCESSES) IN SPACE DEBRIS MITIGATION
Eduardo Serrano, National Institute for Space Research - INPE, Brazil

IAC-15.A6.IP.40

ON THE USE OF LONG-RANGE RADARS FOR SPACE SITUATIONAL AWARENESS: AN EXPERIMENTAL TEST
Marco MOLINA, Selex ES, Italy

IAC-15.A6.IP.41

GENERIC MODEL FOR SPACE DEBRIS MITIGATION FOR THE CUBESAT CONSTELLATION MISSIONS
Pouyan Azari, Luleå Technical University, Germany

IAC-15.A6.IP.42

ACTIVE DEBRIS REMOVAL: OVERVIEW AND FIGURES OF MERIT OF DEBRIS GRABBING STRATEGIES
Daniele Emanuele Chiuri, Institut Supérieur des Sciences Et Techniques (INSSET), France

IAC-15.A6.IP.43

SOFTWARE FOR SPACE-BASED OPTICAL OBSERVATION SYSTEM
Jacopo Piattoni, University of Bologna, Italy

IAC-15.A6.IP.44

THE BOUNDARY ANALYSIS OF THE TLES' UNCERTAINTY IN ACTIVE REMOVAL OF CUBESAT-LEVEL SPACE DEBRIS
Li Feng, School of Astronautics, Harbin Institute of Technology, China

IAC-15.A6.IP.45

ON THE CAPABILITY OF LASER OBSERVATIONS TO IMPROVE THE ORBIT PREDICTION ACCURACY OF SPACE DEBRIS OBJECTS
Harald Wirnsberger, Space Research Institute - Austrian Academy of Sciences, Austria

IAC-15.A6.IP.46

ANALYTIC LIFETIME-ESTIMATION AND TLE VALIDATION OF REENTERING SPACE-OBJECTS
Benjamin Mueller, German Air Force, Germany

IAC-15.A6.IP.47 (withdrawn)

THE CONSTRUCTION OF THE CHARACTERISTICS OF SPATIAL DISTRIBUTION OF CATALOGED SPACE DEBRIS OBJECTS
Chingiz Akniyazov, School of Astronautics, Beihang University, China

IAC-15.A6.IP.48

A COMPLEX OF NON-ITERATIVE METHODS FOR PLANNING SESSIONS OF OBSERVATIONS OF ORBITAL OBJECTS
Tatyana V. Labutkina, Dnepropetrovsk National University named after Oles' Gonchar, Ukraine

IAC-15.A6.IP.49

ADOPTION OF THE MARITIME LAW SALVAGE PRINCIPLE FOR SPACE DEBRIS REMOVAL
OLUSOJI NESTER JOHN, African Regional Center for Space Science and Technology Education in English (ARCSSTE-E), Nigeria

IAC-15.A6.IP.50

ON THE MOTION OF 12-HOUR SATELLITES IN NEAR CIRCULAR ORBITS
Ming-Jiang Zhang, Purple Mountain Astronomical Observatory, China

A7. SYMPOSIUM ON TECHNOLOGICAL REQUIREMENTS FOR FUTURE SPACE ASTRONOMY AND SOLAR-SYSTEM SCIENCE MISSIONS

Coordinator(s): *Jacobus van Zyl, SunSpace, South Africa;*

A7.1. Space-Agencies Long-Term Views

October 12 2015, 15:15 — 302-303

Co-Chair(s): *Jakob van Zyl, National Aeronautics and Space Administration (NASA), United States;*

IAC-15.A7.1.1

THE FUTURE OF SPACE ASTRONOMY: AN UPDATE OF THE COSPAR ROAD MAP
Pietro Ubertini, INAF, Italy

IAC-15.A7.1.2

STRATEGIC MAP FOR EXPLORING THE OCEAN-WORLD ENCELADUS
Brent Sherwood, Caltech/JPL, United States

IAC-15.A7.1.3

SUPPORTING THE TECHNOLOGY NEEDS OF THE AUSTRALIAN ASTRONOMY AND SPACE SCIENCE COMMUNITY
Naomi Mathers, Advanced Instrumentation and Technology Centre (AITC), Australia

IAC-15.A7.1.4

ATHENA: MISSION AND SPACECRAFT DESIGN FOR A NEXT GENERATION X-RAY TELESCOPE.
Ivo Ferreira, ESA, The Netherlands

IAC-15.A7.1.5

ATHENA: TECHNOLOGY DEVELOPMENT PLAN FOR A NEXT GENERATION X-RAY TELESCOPE
Eric Wille, ESA, The Netherlands

IAC-15.A7.1.6

SYSTEM ARCHITECTURE FOR A COMPACT, LOW-COST 56-92 GHZ SPACE BASED SOLAR EVENT OBSERVATION INSTRUMENT
Flavien Sagouo Minko, University of Pretoria, South Africa

IAC-15.A7.1.7

STUDY OF SMALL PAYLOAD TYPES FOR COMMERCIAL LUNAR PLATFORMS
Dan Hendrickson, , United States

A7.2. Scientific Motivation and Requirements for Future Space Astronomy and Solar System Science Missions

October 13 2015, 09:45 — 302-303

Co-Chair(s): *Jakob van Zyl, National Aeronautics and Space Administration (NASA), United States;*

IAC-15.A7.2.1

A SURVEY OF ECLIPSING BINARIES WITH THE ULTRAVIOLET TRANSIENT ASTRONOMY SATELLITE (ULTRASAT)
Maayane Soumagnac, Weizmann Institute of Science, Israel

IAC-15.A7.2.2

GALEX/PTF SEARCH FOR EARLY ULTRAVIOLET OBSERVATIONS OF SUPERNOVAE IN PREPARATION FOR ULTRASAT - A DEDICATED WIDE-FIELD UV SURVEY
Noam Ganot, Weizmann Institute of Science, Israel

IAC-15.A7.2.3

SURVEYING THE 217.5 NM EXTINCTION FEATURE WITH A SMALL SATELLITE
Avigdor Blasberger, TECHNION - Israel Institute of Technology, Israel

IAC-15.A7.2.4

THE ISS-LOBSTER GAMMA-RAY TRANSIENT MONITOR
Lee Yacobi, , Israel

IAC-15.A7.2.5

DETECTING TRANSITING PLANETS WITH THE SPACE TELESCOPE GAIA
Shay Zucker, Tel Aviv University, Israel

IAC-15.A7.2.6

NANOSAT WITH MAGNETOMETER PAYLOAD TO COMPLIMENT THE EUROPA CLIPPER MISSION: A CONCEPT STUDY
Erinn van Wynsberghe, University of Michigan, United States

IAC-15.A7.2.7

A DEDICATED EARTH-ORBITING SPACECRAFT FOR INVESTIGATING FUNDAMENTAL PHYSICS AND THE SPACE ENVIRONMENT
Roberto Peron, INAF-IAPS, Italy

IAC-15.A7.2.8

TESTING GENERAL RELATIVITY IN THE SOLAR SYSTEM
Roberto Peron, INAF-IAPS, Italy

A7.3. Technology Needs for Future Missions, Platforms

October 15 2015, 14:45 — 314

Co-Chair(s): *Jakob van Zyl, National Aeronautics and Space Administration (NASA), United States;*

IAC-15.A7.3.1

SYSTEM DESIGN CHALLENGES OF HIGH-PRECISION PHOTOMETRY OBSERVATION FOR THE PLATO MISSION
Bastian Burmann, OHB System AG-Bremen, Germany

IAC-15.A7.3.2

AN ASSESSMENT OF CURRENT AND PROPOSED ALTERNATIVES FOR DETECTING SMALL NEAR EARTH OBJECTS (NEO)
Bhavya Lal, Science and Technology Policy Institute, United States

IAC-15.A7.3.3

A HIGH-EFFICIENCY TRANSMISSION-LINE SPECTROMETER FOR FAR-INFRARED AND SUBMILLIMETER SPACE MISSIONS
Giuseppe Cataldo, National Aeronautics and Space Administration (NASA)/Goddard Space Flight Center, United States

IAC-15.A7.3.4

A STUDY FOR QUALITY FACTORS OF MULTI-SPACECRAFT FORMATION DETECTION EFFICIENCY
Wenlong Niu, CSSAR/CAS, China

IAC-15.A7.3.5

AUTONOMOUS SYSTEMS ADVANCES FOR FUTURE SOLAR SYSTEM SCIENCE MISSION REQUIREMENTS
Dan Hendrickson, , United States

B1. EARTH OBSERVATION SYMPOSIUM

Coordinator(s): *John Hussey, Consultant, United States; Pierre Ranzoli, Eumetsat, Germany;*

B1.1. International Cooperation in Earth Observation Missions

October 12 2015, 15:15 — Eshkol 3

Co-Chair(s): *John Hussey, Consultant, United States; Mukund Rao, Navayuga Spatial Technologies Pvt. Ltd., India; Rapporteur(s): David Brent Smith, National Oceanic and Atmospheric Administration (NOAA), United States;*

IAC-15.B1.1.1

2015 ACTIVITIES OF THE CEOS
Yukimitsu Yamamoto, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.B1.1.2

V-GLOBE, A "ONE STEP BEYOND" PROGRAM UNDER WAY IN EUROPE INAUGURATING A NEW INTERNATIONAL COOPERATIVE SCHEME FOR EARTH OBSERVATION.
Jean-pierre ANTIKIDIS, BLUE PLANET, France

IAC-15.B1.1.3 (withdrawn)

THE ROLE OF WORLD METEOROLOGICAL ORGANIZATION IN DEVELOPING A SPACE-BASED ARCHITECTURE FOR CLIMATE MONITORING. WENJIAN ZHANG. WMO SPACE PROGRAMME. WORLD METEOROLOGICAL ORGANIZATION (WMO)
Wenjian Zhang, , Switzerland

IAC-15.B1.1.4

SATELLITE FORMATIONS AND CONSTELLATIONS FOR SYNERGETIC MISSIONS: A PARADIGM FOR INTERNATIONAL COOPERATION IN EARTH OBSERVATION
Pierluigi Silvestrin, European Space Agency (ESA), The Netherlands

IAC-15.B1.1.5 (withdrawn)

AFFORDABLE LANDSAT SOLUTIONS LEADING TO IMPROVED REVISIT TIMES
Robert LeRoy, Lockheed Martin (Space Systems Company), United States

IAC-15.B1.1.6
TAIWAN'S FORMOSAT SATELLITES IN RESPONSES TO ASIA PACIFIC REGIONAL DISASTERS WITH SENTINEL ASIA
Ming-Chih Cheng, National Space Organization, Taiwan, China

IAC-15.B1.1.7
INTERCOMPARISON OF WATER VAPOUR AND TEMPERATURE RETRIEVALS BETWEEN THE CSA'S ACE-FTS AND THE UCAR/NSPO'S COSMIC/FORMOSAT-3 SATELLITES, AND PRESENTATION OF A NEW ALGORITHM FOR RETRIEVING TEMPERATURE.
Kevin Olsen, Univeristy of Toronto, Canada

IAC-15.B1.1.8
THE EVOLUTION OF EARTH OBSERVATION SATELLITES IN EUROPE AND WORLDWIDE AND ITS IMPACT ON THE PERFORMANCE OF EMERGENCY RESPONSE SERVICES
Gil DENIS, Airbus Defence and Space - Space Systems, France

IAC-15.B1.1.9 (withdrawn)
THE PROPOSED NISAR INSTRUMENT OVERVIEW: DUAL FREQUENCY (L- AND S-BAND) SAR
Yunjin Kim, Jet Propulsion Laboratory, United States

IAC-15.B1.1.10
UNESCO - CHINA CENTER: UTILIZING EARTH OBSERVATION FOR THE CONSERVATION OF WORLDWIDE NATURAL AND CULTURAL HERITAGE
Eytan Tepper, CHINA UNIVERSITY OF POLITICAL SCIENCE AND LAW, China

B1.2. Future Earth Observation Systems

October 13 2015, 09:45 — Eshkol 3
Co-Chair(s): Benoit Boissin , Centre National d'Etudes Spatiales (CNES), France; Gilles Corlay , Sodern, France;
Rapporteur(s): Gunter Schreier , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

IAC-15.B1.2.1
VENUS - AN INNOVATIVE SATELLITE FOR THE STUDY AND MODELLING OF LAND SURFACE PROCESSES
Pierrick Ferrier, Centre National d'Etudes Spatiales (CNES), France

IAC-15.B1.2.2
SHALOM – SPACE-BORNE HYPERSPECTRAL APPLICATIVE LAND AND OCEAN MISSION
Elad Sagi, Israel Aerospace Industries. Ltd., Israel

IAC-15.B1.2.3
NEXT GENERATION SPACE BASED COMMERCIAL HYPERSPECTRAL IMAGING ARCHITECTURE
Erik Daehler, The Boeing Company, Phantom Works, United States

IAC-15.B1.2.4
THE INNOVATIVE MICROSATELLITE-BASED CANADIAN WILDLAND FIRE MONITORING SYSTEM
Jean-Francois Hamel, NGC Aerospace Ltd., Canada

IAC-15.B1.2.5
GENERIC NANO SATELLITE CONSTELLATION FOR MONITORING FOREST-FIRES
Neelakandan Pradeesh Kumar, Noorul Islam Centre for Higher Education Noorul Islam University, India

IAC-15.B1.2.6
SPACEBORNE LASER FILAMENTATION: A NEW REMOTE SENSING TOOL FOR ATMOSPHERIC SPECTROSCOPY?
Isabelle Dicaire, European Space Agency (ESA), The Netherlands

IAC-15.B1.2.7
GAOFEN-2 MISSION INTRODUCTION AND CHARACTERISTICS
Ming Li, China Academy of Space Technology (CAST), China

IAC-15.B1.2.8
TANDEM-L: DESIGN CHALLENGES FOR A LEO SATELLITE WITH A LARGE DEPLOYABLE REFLECTOR
Frank te Hennepe, OHB System AG-Bremen, Germany

IAC-15.B1.2.9 (withdrawn)
AN OVERVIEW OF THE PROPOSED SURFACE WATER AND OCEAN TOPOGRAPHY MISSION
Parag Vaze, Caltech/JPL, United States

IAC-15.B1.2.10
ESA'S EARTH OBSERVATION MISSIONS: OUTLOOK ON CONCEPTS UNDER STUDY
Pierluigi Silvestrin, European Space Agency (ESA), The Netherlands

IAC-15.B1.2.11
UNITED STATES PLANS FOR CONTINUITY OF OPERATIONAL POLAR WEATHER AND ENVIRONMENTAL OBSERVATIONS
Harry A. Cikanek, National Oceanic and Atmospheric Administration (NOAA), United States

B1.3. Earth Observation Sensors and Technology

October 14 2015, 09:45 — Eshkol 3
Co-Chair(s): Andrew Court , TNO, The Netherlands; Ralph Girard, Canadian Space Agency, Canada;
Rapporteur(s): Yean Joo Chong , National University of Singapore, Rep. Of Singapore;

IAC-15.B1.3.1
FOCUS ON THE ITALIAN P-BAND AIRBORNE RADAR: CURRENT PERFORMANCE AND FUTURE PERSPECTIVES
Claudia Facchinetti, Italian Space Agency (ASI), Italy

IAC-15.B1.3.2 (withdrawn)
CHALLENGES IN SYSTEM DESIGN OF A HIGH-PERFORMANCE VNIR/SWIR HYPERSPECTRAL IMAGER FOR MINI-SATELLITES
Arie Leizer, Elbit Systems, Electro Optics, ELOP Ltd., Israel

IAC-15.B1.3.3
INNOVATIVE IDEAS FOR THE DETECTION OF FIRES FROM A GEOSTATIONARY ORBIT.
Shimshon (Steven) Lashansky, Elbit Systems, Electro Optics, ELOP Ltd., Israel

IAC-15.B1.3.4 (withdrawn)
VALIDATION OF THE TET-SATELLITE IMAGING SENSORS
Ralf Reulke, Humboldt University of Berlin, Germany

IAC-15.B1.3.5
FLUORESCENCE IMAGING SPECTROMETER (FLORIS): A HIGH ACCURACY INSTRUMENT WITH PROVEN TECHNOLOGIES AND ROBUST DESIGN
Peter Coppo, Selex ES S.p.A, Italy

IAC-15.B1.3.6
CMOS-TDI PERFORMANCES BY MODIFICATION OF CONTROL SIGNALS
Andreas Eckardt, DLR, German Aerospace Center, Germany

IAC-15.B1.3.7
THE PRISMA MISSION HYPERSPECTRAL PAYLOAD
Marco Meini, Selex ES, Italy

IAC-15.B1.3.8 (withdrawn)
CONCEPT OF JOINT SHORT WAVELENGTH INFRARED AND VISIBLE CAMERA FOR EARTH OBSERVATION IN NANO-SATELLITES
Gabby Sarusi, Ben-Gurion University of the Negev, Israel

IAC-15.B1.3.9
GREENHOUSE GASES MEASUREMENT INSTRUMENTS ON GOSAT-2 MASAKATSU NAKAJIMA, JAXA, Japan

IAC-15.B1.3.10 (withdrawn)
COMPACT INFRARED CAMERA(CIRC) FOR EARTH OBSERVATION
Haruyoshi Katayama, Japan Aerospace Exploration Agency (JAXA), Japan

B1.4. Earth Observation Data Management Systems

October 15 2015, 09:45 — Eshkol 3
Co-Chair(s): Gunter Schreier , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; James E. Graf , National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States;
Rapporteur(s): Na Yao , China Academy of Space Technology (CAST), China;

IAC-15.B1.4.1
COMPARISON BETWEEN VARIOUS METHODS FOR DETECTING PHASE SPEED OF WAVES IN THE OCEAN USING SATELLITE BORNE ALTIMETER
Yair De-Leon, The Hebrew University of Jerusalem, Israel

IAC-15.B1.4.2
A EARTH OBSERVATION DATA STORAGE MODEL BASED ON GLOBAL GRID SYSTEM
Fubiao Xi, China Academy of Launch Vehicle Technology, China

IAC-15.B1.4.3
EFFICIENT DATA ANALYSIS OF MODIS SATELLITE IMAGES
Marco Schmidt, Bochum University of Applied Sciences, Germany

IAC-15.B1.4.4
A SUB-PIXEL SAR AND OPTICAL IMAGE REGISTRATION METHOD
Hanmo Zhang, Shanghai Aerospace Control Technology Institute, China

IAC-15.B1.4.5 (withdrawn)
SAR SATELLITE DATA REDUCTION USING DYNAMIC 4 PATH – BLOCK GAIN TREE STRUCTURED VECTOR QUANTIZATION
Hyeon-Cheol Lee, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.B1.4.6
RESEARCH ON THE TECHNOLOGY OF MEASURING INNER SENSING ELEMENTS OF REMOTE SENSING CAMERA WITHOUT RADIATION CALIBRATION
Long Ju, Beijing Institute of Space Mechanics & Electricity, CAST, China

IAC-15.B1.4.7
A SIMPLE INDICATOR FOR ESTIMATING THE NOISE LEVEL OF A HYPERSPECTRAL DATA CUBE FOR EARTH OBSERVATION MISSIONS
Eyal Ben Dor, TAU Remote Sensing Laboratory, Israel

IAC-15.B1.4.8
SPYMESAT MOBILE APP FOR IMAGING SATELLITE AWARENESS AND ACCESS
Ella Herz, , United States

B1.5. Earth Observation Applications and Economic Benefits

October 15 2015, 14:45 — Eshkol 3
Co-Chair(s): Luigi Bussolino , Bussolino and Associates, Italy; Paul Kamoun , Thales Alenia Space France, France;
Rapporteur(s): Yean Joo Chong , National University of Singapore, Rep. Of Singapore;

IAC-15.B1.5.1
EO APPLICATIONS AND ECONOMIC IMPACTS FOR UNDERWATER CULTURAL HERITAGE (UCH): FIRST RESULTS FROM THE EU FP7 ITACA PROJECT
Rosario Pavone, SME4SPACE, Belgium

IAC-15.B1.5.2 (withdrawn)
EARTH OBSERVATION COMMODITIZATION AND GROWTH
Brigit Kelly, Space Foundation, United States

IAC-15.B1.5.3 (withdrawn)
COSMO-SKYMED® DATA FOR CROP MONITORING
Rocchina Guarini, Italian Space Agency (ASI), Italy

IAC-15.B1.5.4 (withdrawn)
IMPLEMENTATION OF ASSISTED SPACE TECHNOLOGY IN THE DEVELOPMENT OF NATIONAL INFRASTRUCTURE IN THAILAND
Ravit Sachasiri, Geo-Informatics and Space Technology Development Agency (GISTDA), Thailand

IAC-15.B1.5.5 (withdrawn)
EVALUATING THE RELATIONSHIP BETWEEN FOREST DEGRADATION, RECOVERY, AND CONSERVATION EFFORTS WITH LANDSAT IMAGERY IN SOUTHEASTERN BRAZIL
Megan Ewert, Charles University, Czech Republic

IAC-15.B1.5.6
REMOTE SENSING AND GIS A TOOL TO MAP LAND AREAS FOR FADAMA FARMING IN BASHAR PLATEAU STATE, NIGERIA.
Joy Agene, National Centre for Remote Sensing, Jos, Nigeria

IAC-15.B1.5.7
EARTH OBSERVATION FOR DEVELOPMENT - ESA
Anna Burzykowska, ESA, Italy

IAC-15.B1.5.8
MONITORING ENVIRONMENTAL EFFECTS OF HYDRAULIC FRACTURING USING REMOTE SENSING: TRACKING FRACKING
Angie Buckley, International Space University (ISU), United States

IAC-15.B1.5.9
BEIJING SERIES SMALL EARTH OBSERVATION SATELLITES AND SERVICE
Wei Sun, Twenty First Century Aerospace Technology Co.,Ltd, China

IAC-15.B1.5.9
MULTITEMPORAL COSMO-SKYMED DATA APPLICATIONS: OVERVIEW ON SMALL AND MEDIUM ENTERPRISES OPPORTUNITIES
Maria girolamo Daraio, Italian Space Agency (ASI), Italy

IAC-15.B1.5.10
WIDE AREA SURFACE MOVEMENT DETECTION AND MONITORING IN MILLIMETRE PRECISION FROM SPACE.
Frank Hensler, Airbus Defence and Space (DS), Germany

IAC-15.B1.5.11
DISCOVERING PATTERNS OF CHANGE IN DESERT-FRINGE ECOSYSTEMS
Maxim Shoshany, Technion, I.I.T., Israel

IAC-15.B1.5.12
EMERGING CAPABILITIES IN SATELLITE OBSERVATIONS OF THE ATMOSPHERE THAT WILL DECREASE UNCERTAINTY IN QUANTIFYING GLOBAL WARMING
Daniel Rosenfeld, The Hebrew University of Jerusalem, Israel

B1.6. Water resources management

October 16 2015, 09:45 — Eshkol 3
Co-Chair(s): David Brent Smith , National Oceanic and Atmospheric Administration (NOAA), United States; Ralph Girard , Canadian Space Agency, Canada;
Rapporteur(s): Simonetta Cheli , European Space Agency (ESA), Italy;



IAC-15.B1.6.1

SATELLITE AND MODEL BASED TOOL FOR SHORT TERM PREDICTION OF TRACER TRANSPORT IN EASTERN MEDITERRANEAN SURFACE WATERS

Eyal Heifetz, Tel Aviv University, Israel

IAC-15.B1.6.2

SATELLITE SERVICES FOR WATER PROBLEMS IN JORDAN: SPACEFORMED STUDY RESULTS

Michal Moroz, Blue Dot Solutions, Poland

IAC-15.B1.6.3 (withdrawn)

MEASUREMENT OF SUBSIDENCE AND LEVEE INTEGRITY IN THE SACRAMENTO-SAN JOAQUIN DELTA IN CALIFORNIA

Priyanka Sharma, Jet Propulsion Laboratory - California Institute of Technology, United States

IAC-15.B1.6.4

GLOBAL WATER INITIATIVE

Martin Jüssi, Estonia

IAC-15.B1.6.5

WATER QUALITY PRODUCTS OF THE SHALOM MISSION

Tal Feingersh, Israel Aerospace Industries. Ltd., Israel

IAC-15.B1.6.6

TANK INFORMATION SYSTEM IN KARNATAKA USING EO IMAGES AND GIS INTEGRATION

D K Prabhuraj, KRSRAC, India

IAC-15.B1.6.7

POST-2015 WATER MANAGEMENT: A CRITICAL APPLICATION FOR EARTH SATELLITES

Richard Lawford, NASA, Canada

B1.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): John Hussey, Consultant, United States; Pierre Ranzoli, Eumetsat, Germany;

IAC-15.B1.IP.1

RECOGNITION OF SPATIAL IMAGES AND THE ANALYSIS THAT MODULATE LA VARIABILITY THE SOME PEST OF BEAN CROPS IN MEXICO.

Graciela Velasco Herrera, CCADET-UNAM, Mexico

IAC-15.B1.IP.2

SMILE DISTORTION EXTENT ESTIMATION FOR HYPERSPECTRAL DATACUBES

Puneeth Shankar, KRSRAC, India

IAC-15.B1.IP.3 (withdrawn)

COSMO-SKYMED TANDEM-LIKE SAR INTERFEROMETRIC DEM: ANALYSIS AND AVALUATION

Nunzia Lombardi, ASI - Italian Space Agency, Italy

IAC-15.B1.IP.4 (withdrawn)

ANALYSIS OF CNT BASED IR DETECTOR FOR SPACE APPLICATIONS

Hitesh Agarwal, Birla Institute of Technology and Science(BITS)-Pilani, India

IAC-15.B1.IP.5 (withdrawn)

LOW COST DESIGN OF PSD BASED 2-AXIS DIGITAL SUN SENSOR FOR CUBESAT MISSIONS

Hitesh Agarwal, Birla Institute of Technology and Science(BITS)-Pilani, India

IAC-15.B1.IP.6 (withdrawn)

HIGH ACCURACY MEASUREMENT TECHNOLOGY FOR SATELLITE DEPLOYABLE BAR'S SMALL ANGLE DEFORMATION BASED ON THE LASER DEVICES AND POSITION SENSORS

Zhao Hongbo, China

IAC-15.B1.IP.7

GENESIS – GENERATOR OF SPECTRAL IMAGE SIMULATIONS

Yael Efrain, Israel Aerospace Industries. Ltd, Israel

IAC-15.B1.IP.8

RADIATION EFFECTS ON HIGH RESOLUTION DIGITAL INSB IMAGING DETECTOR

Omer Cohen, Semiconductor devices (SCD), Israel

IAC-15.B1.IP.9

WHY THE MICROSTAR ACCELEROMETER CAN IMPROVE THE GRASP MISSION?

Bernard Foulon, Office National d'Etudes et de Recherches Aérospatiales (ONERA), France

IAC-15.B1.IP.10

KLYSTRON DEVELOPMENT FOR E.O. SENSORS: FEASIBILITY STUDY AND CURRENT DEVELOPMENT

Rosario Martorana, Selex ES S.p.A, Italy

IAC-15.B1.IP.11 (withdrawn)

REAL-TIME MEASUREMENT OF LINE OF SIGHT DRIFT IN SPACE CAMERAS BY A BUILT-IN ELECTRO-OPTICAL SYSTEM

Arie Leizer, Elbit Systems, Electro Optics, ELOP Ltd., Israel

IAC-15.B1.IP.12 (withdrawn)

OPTICAL POWER CONTROL FILTERS FOR EARTH OBSERVATION SENSORS

Ariela Donval, Israel

IAC-15.B1.IP.13

HYPERSPECTRAL IMAGING IN CUBESATS : A POSSIBILITY AND PROMISING TECHNOLOGY FOR DEVELOPING NATIONS

Hemant Singh, Birla Institute of Technology and Science(BITS)-Pilani, India

IAC-15.B1.IP.14 (withdrawn)

MINIATURIZED TIME-OF-FLIGHT MASS SPECTROMETER FOR THERMOSPHERE DENSITY AND COMPOSITION MEASUREMENTS

Michelle Pyle, Utah State University, United States

IAC-15.B1.IP.15 (withdrawn)

EXPLORING CITIES FROM SPACE: THE USE OF EARTH OBSERVATION DATA AND GIS FOR SPATIAL ANALYSIS OF URBAN GROWTH ON THE ISLAND OF TAIWAN

Polina Lemenkova, Charles University, Czech Republic

IAC-15.B1.IP.16

TRMM-DERIVED RAINFALL CHARACTERISTICS OVER SALEM

Rajasri Sen Jaiswal, Sonu College of Technology, India

IAC-15.B1.IP.17

BIOMASS ESTIMATION OF SHRUB USING THE POLARIMETRIC SAR DATA

Jisung Chang, TECHNION - Israel Institute of Technology, Israel

IAC-15.B1.IP.18

SPACE DATA EXPLOITATION AND GIS MODELING AS TOOLS FOR INFRASTRUCTURE MANAGEMENT

Isabella Mazza, ESA, Italy

IAC-15.B1.IP.19 (withdrawn)

LINEAMENT STUDY IN GROUNDWATER EXPLORATION USING SPACEBASED TECHNOLOGY: A CASE STUDY OF OWO LGA, ONDO STATE, NIGERIA.

OLUWASEGUN ONIBUDO, Nigeria

IAC-15.B1.IP.20 (withdrawn)

AN ASSESSMENT OF THE RELATIONSHIP BETWEEN LINEAMENT AND GROUNDWATER PRODUCTIVITY IN A PART OF THE BASEMENT COMPLEX, SOUTHWESTERN NIGERIA

Ezekiel Yenne, University of Jos, Nigeria

IAC-15.B1.IP.21 (withdrawn)

CHALLENGES AND PROSPECTS OF SATELLITE MAPPING IN RIVERS LIKE BAGMATI

Karan Bhatta, Nepal

IAC-15.B1.IP.22

LASERS IN SPACE: THE NEXT GENERATION OF ATMOSPHERIC REMOTE SENSING

Alex Dinovitser, Australia

IAC-15.B1.IP.23

OPTIMAL RADAR SYSTEM AND CONFIGURATIONS FOR OBSERVATION OF WEAK CURRENT ON OCEAN SURFACE

Ying Yu, Science and Technology on Space Physics Laboratory, China

IAC-15.B1.IP.24

VIRTUAL SATELLITE MISSIONS FOR EARTH OBSERVATION: DEMOCRATIZING ACCESS TO SPACE

Hripsime Matevosyan, Skolkovo Institute of Science and Technology, Russian Federation

IAC-15.B1.IP.25 (withdrawn)

RESEARCH ON BASEBAND DATA PROCESSING TECHNOLOGY FOR HIGH-SPEED REMOTE SENSING SATELLITE

Gao Yue, Space Star Technology Co., Ltd. (SSTC) China Academy of Space Technology (CAST), China

IAC-15.B1.IP.26

REAL-TIME EARTH OBSERVATION SYSTEM BASED ON MICRO-NANO NETWORKS

Zhang Shaowei, Shanghai Institute of Spaceflight Control Technology, China

IAC-15.B1.IP.27

DEVELOPMENT OF A PLUG-N-PLAY MODULAR RECONFIGURABLE SPACE REMOTE SENSING PAYLOAD FOR RESPONSIVE EARTH OBSERVATION MISSIONS

Na Yao, Qian Xuesen Laboratory of Space Technology, China

IAC-15.B1.IP.28

STATE OF THE ART AND PERSPECTIVES OF ORBITAL CONSTELLATION IN RUSSIA TO EMERGENCY MONITORING

Ekaterina Tverdokhlebova, TSNIIMASH, Russian Federation

IAC-15.B1.IP.29 (withdrawn)

RADARSAT CONSTELLATION MISSION (RCM)

Guennadi Krouchnik, Canadian Space Agency, Canada

IAC-15.B1.IP.30

PROGRESS IN SPECTROSCOPIC LIDAR FOR FUTURE LASER REMOTE SENSING OF ATMOSPHERIC COMPOSITION

Alex Dinovitser, Australia

IAC-15.B1.IP.31

LITESAT PERFORMANCE OPTIMIZATION GIVEN ATTITUDE CONSTRAINTS AND UNIQUE MISSILE SHAPE STRUCTURE

Ofer Salama, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.B1.IP.32

OSCMS: OCEAN SURFACE CURRENT MISSION STUDY RESULTS

Robert Ernst, OHB System AG-Bremen, Germany

IAC-15.B1.IP.33

SPACE CLIMATE CHANGE MONITORING OF CONTRAILS AND CIRRU CLOUD AND ANTHROPOGENIC INITIATIVES FOR THEIR ABATEMENT

Harijono Djojodihardjo, Indonesia

IAC-15.B1.IP.34

THE COSMO-SKYMED CONSTELLATION MONITORING OF THE ITALIAN TERRITORY: THE MAP ITALY PROJECT

Patrizia Sacco, Italian Space Agency (ASI), Italy

IAC-15.B1.IP.35

LIGHTNING OBSERVATIONS FROM SPACE CAN PROVIDE EARLY WARNING OF SEVERE WEATHER AROUND THE GLOBE

Colin Price, Tel Aviv University, Israel

IAC-15.B1.IP.36

THE FUTURE OF THE COMMERCIAL REMOTE SENSING SECTOR: EXAMINING THE ROLE OF EVOLVING TECHNOLOGY, ECONOMIC, AND STRATEGIC FACTORS

Mariel Borowitz, Georgia Institute of Technology, United States

IAC-15.B1.IP.37

GNSS RADIO OCULTATION: A TOOL FOR CLIMATE INVESTIGATIONS

Francesco Vespe, Agenzia Spaziale Italiana (ASI), Italy

IAC-15.B1.IP.39

HIGH RESOLUTION NANO-SATELLITE IMAGERY: LIGHT-WEIGHT AND LOW-COST SYSTEM DESIGN USING MEMBRANE OPTICS

Chandra Bollepalli, Indian Institute of Technology, India

IAC-15.B1.IP.39

SEAHAWK; A NANOSATELLITE MISSION FOR SUSTAINED OCEAN OBSERVATION.

John Miller Morrison, University of North Carolina at Wilmington, United States

IAC-15.B1.IP.40

ATTITUDE STEERING TO ACHIEVE NEAR ZERO DOPPLER RESIDUAL FOR SAR BASED IMAGING - A NOVEL APPROACH

Ritu Karidhal, ISRO Satellite Centre (ISAC), India

B2. SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM

Coordinator(s): Manfred Wittig, European Space Agency (ESA), retired, The Netherlands; Otto Koudelka, Joanneum Research, Austria;

B2.1. Mobile Satellite Communications and Navigation Technology

October 12 2015, 15:15 — Dulzin Big B

Co-Chair(s): Jean-Paul Aguttes, Centre National d'Etudes Spatiales (CNES), France; Robert D. Briskman, Sirius XM Satellite Radio, United States;

Rapporteur(s): Peter Buist, Netherlands Space Society (NVR), The Netherlands;

IAC-15.B2.1.1

COGNITIVE RADIO FOR SATCOM APPLICATIONS: THE SCREEN PROJECT

Pedro Rodrigues, Tekever, Portugal

IAC-15.B2.1.2

DISASTER MANAGEMENT SCHEME BY MEANS OF NANO SATELLITE AND WIRELESS NAVIGATION SYSTEMS

Shajin Nargunam A, India

IAC-15.B2.1.3

TACTILE SATELLITE NAVIGATION SYSTEM: USING HAPTIC TECHNOLOGY TO ENHANCE THE SENSE OF ORIENTATION AND DIRECTION

Jan Walter Schroeder, Sensovo, Germany

IAC-15.B2.1.4

MOBILE SATELLITE COMMUNICATION SYSTEM BASED ON NEW DIGITAL PHASED ARRAY BEAMFORMING TECHNOLOGY

Alexander Kharlan, Yaliny, Russian Federation

IAC-15.B2.1.5

DIFFERENTIAL GPS ATTITUDE DETERMINATION CONCEPT FOR CUBESATS AND DRONES

Stefano Torresan, Italy

IAC-15.B2.1.6

THE GPS NAVIGATION AND OCULTATION EXPERIMENT (NOX) ONBOARD TET-1 – RESULTS AND EXPERIENCE AFTER ONE YEAR IN SPACE

Markus Markgraf, DLR (German Aerospace Center), Germany



IAC-15.B2.1.7 (withdrawn)

THE POSSIBILITY OF USING THE DIFFERENTIAL CORRECTION MODE FOR NAVIGATION SUPPORT OF UNIVERSITY SATELLITES
Igor V. Belokonov, Samara State Aerospace University (SSAU), Russian Federation

IAC-15.B2.1.8

AUTONOMOUS NAVIGATION OF LEO AND GEO SATELLITES USING GPS
Vishal Ray, India

IAC-15.B2.1.9

ICARUS – A NEW GLOBAL OBSERVATION SYSTEM FOR SMALL OBJECTS (ANIMALS)
Walter Naumann, Max Planck Institute for Ornithology, Germany

IAC-15.B2.1.10

SYSTEM DESIGN OF AN S-BAND NETWORK OF DISTRIBUTED NANOSATELLITES
Zizung Yoon, Technical University Berlin, Germany

IAC-15.B2.1.11

POWER FLEXIBILITY OPTIMIZATION OF MULTIBEAM COMMUNICATION SATELLITE PAYLOAD
Dong Chen, Institute of Telecommunication Satellite, China Academy of Space Technology, China

IAC-15.B2.1.12

A STUDY OF 4G LTE NETWORK ACCESS BASED ON KA BAND MULTIPLE SPOT BEAM SATELLITE COMMUNICATION SYSTEM
Xiaotian ZHENG, Space Star Technology Co., Ltd. (SSTC) China Academy of Space Technology (CAST), China

IAC-15.B2.1.13

STUDY ON SATELLITE MOTION ERROR OF TWSTFT IN GROUND-BASED NAVIGATION SYSTEM
Bilei Zhou, Shanghai Institute of Satellite Engineering, China

IAC-15.B2.1.14

ANALYTICAL PERFORMANCE OF MONOPULSE SPREAD SPECTRUM TRACKING SYSTEM IN MULTIPLE-TARGET SCENARIO
Cong Bo, China Satellite Maritime Tracking and Control Department, China

B2.2. Joint Session on Dual Use (civil and military) Aspects of Telecommunications and GNSS

October 13 2015, 09:45 — Dulzin Big B

Co-Chair(s): Eva Maria Aicher, Tesat-Spacecom GmbH & Co. KG, Germany; Rita Lollock, The Aerospace Corporation, United States;

Rapporteur(s): Stephanie Wan, Space Generation Advisory Council (SGAC), United States;

IAC-15.B2.2.1

GLOBAL INFLUENCE OF THE US SPACE BASED POSITIONING NAVIGATION AND TIMING ADVISORY BOARD
Stephanie Wan, Space Generation Advisory Council (SGAC), United States

IAC-15.B2.2.2

AN INERTIAL GUIDANCE BASED LOCALIZATION TECHNOLOGY FOR AEROCRAFT DATA LOGGER RECOVERY
Juan Lu, Beijing Institute of Aerospace Systems Engineering, China

B2.3. Space-Based Navigation Systems and Services

October 13 2015, 14:45 — Dulzin Big B

Co-Chair(s): Kristian Pauly, OHB System, Germany; Rita Lollock, The Aerospace Corporation, United States;
Rapporteur(s): Norbert Frischauf, Austria;

IAC-15.B2.3.2

WEAK GNSS SIGNAL NAVIGATION IN LUNAR MISSIONS
Norbert Witternigg, Joanneum Research, Austria

IAC-15.B2.3.3

RELATIVE NAVIGATION OF GEO SATELLITES IN FORMATION USING DOUBLE-DIFFERENCE CARRIER PHASE MEASUREMENTS WITH INTEGER AMBIGUITY RESOLUTION
Amolika Soni, Indian Institute of Technology, India

IAC-15.B2.3.4

GALILEO FOC – DESIGN, ON-ORBIT OPERATIONS & PERFORMANCE
Kristian Pauly, OHB System, Germany

IAC-15.B2.3.5

DESIGNING THE NEXT GENERATION OF GNSS: HOW TO BEST SERVE THE DIVERSE INTERESTS OF MILITARY, CIVILIAN AND PUBLIC USERS
Norbert Frischauf, SpaceTec Partners SPRL, Belgium

IAC-15.B2.3.6

THE ITALIAN APPROACH ON GNSS TRAIN CONTROL AND MANAGEMENT SYSTEMS, CHALLENGES FOR A GLOBAL SERVICE
Alberto Tuozzi, ASI - Italian Space Agency, Italy

IAC-15.B2.3.7 (withdrawn)

DESIGN OF GNSS-BASED M2M EARLY WARNING SYSTEM FOR IMPROVEMENT OF REACHABILITY OF INFORMATION
Akihiko Nishino, Keio University, Japan

IAC-15.B2.3.8

CLOCK SYNCHRONIZATION AND RF SYNTHESIS
Harsh Bhatte, SRM University, Chennai, India

IAC-15.B2.3.9

COMBINED ATTITUDE-ORBIT APPROACH FOR NAVIGATION AND STATIONKEEPING OF A PRECISION BEAM FORMING CONSTELLATION
Akash Ratheesh, SRM University, kattankulathur, Chennai, India

IAC-15.B2.3.10 (withdrawn)

SYSTEM DESIGN OF LEO SPACECRAFT POSITION DETERMINATION BASED ON GNSS AND GEO DATA BROADCAST SATELLITE
Wang Hongfeng, Mechanical Engineering College, Shijiazhuang, China

IAC-15.B2.3.11

ANALYSIS OF SIGNAL AVAILABILITY IN THE GNSS SPACE SERVICE VOLUME
LiQiang Wang, China Academy of Launch Vehicle Technology, China

IAC-15.B2.3.12

CONFIGURATION KEEPING OPTIMIZATION OF COMPASS CONSTELLATION IGSO SATELLITES
SUN Shaoming, State Key Laboratory of Astronautic Dynamics, China

IAC-15.B2.3.13

RESULTS FROM THE GNSS FLIGHT EXPERIMENT ON THE CIRCUMLUNAR FREE RETURN TRAJECTORY OF CHINA CE-5T1 SPACECRAFT
Dun Wang, Beijing Institute of Satellite Information Engineering, China

B2.4. Near-Earth and Interplanetary Communications

October 14 2015, 09:45 — Dulzin Big B

Co-Chair(s): Manfred Wittig, European Space Agency (ESA), retired, The Netherlands; Ramon P. De Paula, National Aeronautics and Space Administration (NASA), United States;
Rapporteur(s): Dipak Srinivasan, The Johns Hopkins University Applied Physics Laboratory, United States;

IAC-15.B2.4.1

AFTER ROSETTA & MYRIADE, NOW A NEW GENERATION OF RADIO EQUIPMENT FOR MERLIN & MYRIADE EVOLUTION
Miguel Angel Fernandez, SYRLINKS, France

IAC-15.B2.4.2

ROSETTA-PHILAE RF LINK: HOW THE RF LINK BEHAVIOUR HELPS THE UNDERSTANDING OF THE PHILAE REBOUNDS AND TOUCHDOWNS ON THE COMET.
Clement Dudal, Centre National d'Etudes Spatiales (CNES), France

IAC-15.B2.4.3

TELECOMMUNICATIONS MISSIONS BASED ON NANOSATELLITES
Manfred Wittig, European Space Agency (ESA), retired, The Netherlands

IAC-15.B2.4.4

ADVANCED PROCESSING AND COMMUNICATIONS PAYLOADS FOR NANOSATELLITE MISSIONS
Otto Koudelka, Graz University of Technology (TU Graz), Austria

IAC-15.B2.4.5

A GAME – CHANGING RADIO COMMUNICATION ARCHITECTURE FOR CUBE/NANO-SATELLITES
Miguel Angel Fernandez, SYRLINKS, France

IAC-15.B2.4.6

S- AND X-BAND ANTENNA DESIGN FOR ESA'S UPCOMING OPS-SAT NANOSATELLITE
Franz Teschl, Graz University of Technology (TU Graz), Austria

IAC-15.B2.4.7

LOW-COST SATELLITE COMMUNICATION NETWORK FOR EQUATORIAL REGION
Dmytro Faizullin, Kyushu Institute of Technology, Japan

IAC-15.B2.4.8 (withdrawn)

ANTI-BURST TECHNIQUE BASED ON ADAPTIVE CODE RATE ADJUST OF SATELLITE-TO-GROUND LASER COMMUNICATION
Chen Xin, Beijing Institute of Satellite Information Engineering, China Academy of Space Technology (CAST), China

IAC-15.B2.4.9

A METHOD TO IMPROVE TT&C COVERAGE OF THE RELAY ANTENNA BASED ON CHINESE SPACE STATION
Yi Yusheng, Institute of Manned Space System Engineering, China Academy of Space Technology (CAST), China

IAC-15.B2.4.10 (withdrawn)

APPLICATION OF ADAPTIVE CODING MODULATION IN HIGH-SPEED SATELLITE COMMUNICATION
Wang Hongfeng, Mechanical Engineering College, Shijiazhuang, China

B2.5. Advanced Technologies for Space Communications and Navigation

October 14 2015, 14:45 — Dulzin Big B

Co-Chair(s): Edward W. Ashford, Graz University of Technology (TU Graz), Austria; Elemer Bertenyi, E. Bertenyi & Associates Inc., Canada;

Rapporteur(s): Eva Maria Aicher, Tesat-Spacecom GmbH & Co. KG, Germany;

IAC-15.B2.5.1

PYTHAGOREAN TREE FRACTAL FOR MULTI-BAND PATCH ANTENNA.
Advait Kulkarni, India

IAC-15.B2.5.2

ADAPTIVE ANTENNA FOR HIGH BAND COMMUNICATIONS
Daniel Rockberger, Israel

IAC-15.B2.5.3 (withdrawn)

TWTAS AND SSPAS : FUTURE PROSPECTS FOR SATCOM APPLICATIONS
Catherine Girardey, Consultant, United States

IAC-15.B2.5.4

INDUSTRIALISATION APPROACH OF THE POP ATOMIC CLOCK FOR APPLICATION TO GNSS
Marina Gioia, Selex ES S.p.A, Italy

IAC-15.B2.5.5

SPACEFIBRE: ADVANCED NETWORK TECHNOLOGY FOR SPACECRAFT ON-BOARD APPLICATIONS
Steve Parkes, University of Dundee, United Kingdom

IAC-15.B2.5.6

USING INTERNATIONAL SPACE STATION FOR COGNITIVE SYSTEM RESEARCH AND TECHNOLOGY WITH SPACE-BASED RECONFIGURABLE SOFTWARE DEFINED RADIOS
Richard Reinhart, National Aeronautics and Space Administration (NASA), United States

IAC-15.B2.5.7

ENABLING INTER-SATELLITE LINK PLATFORM FOR MULTI-SATELLITE MISSIONS
Pedro Rodrigues, Tekever, Portugal

IAC-15.B2.5.8

SOFTWARE DEFINED RADIO IMPLEMENTATION OF A NEGOTIATOR NODE TESTBED FOR FEDERATED SATELLITE SYSTEMS
Rustam Akhtyamov, Skolkovo Institute of Science and Technology, Russian Federation

IAC-15.B2.5.9

SMALL PHOTON ENTANGLING QUANTUM SYSTEM (SPEQS) FOR SPACE-BASED QUANTUM KEY DISTRIBUTION (QKD).
Tang Zhongkan Xavier, National University of Singapore, Rep. Of Singapore

IAC-15.B2.5.10

VCM-OFDM TECHNIQUE FOR ADVANCED SPACE COMMUNICATIONS SYSTEM WITH HIGH SPECTRAL EFFICIENCY
Jionghui Li, National Space Science Center, Chinese Academy of Sciences, China

IAC-15.B2.5.11

A STUDY OF WIFI ACCESS TO HIGH-SPEED RAIL BASED ON KA-BAND SATELLITE COMMUNICATION
Wang Xinrong, Space Star Technology Co., Ltd. (SSTC) China Academy of Space Technology (CAST), China

IAC-15.B2.5.12

OPTICAL FEEDER LINK FROM ANTARCTIC LATITUDES - SYSTEM ARCHITECTURE AND OPERATIONS CONCEPT
Florian Sellmaier, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.B2.5.13

ADVANCED WI-FI TRANSMISSION TECHNOLOGY INNER SATELLITE COMMUNICATION MODULE: PROBLEM & SOLUTION
Tong Yang, China Academy of Space Technology (CAST), China

B2.6. Advanced Space Communications and Navigation Systems

October 15 2015, 09:45 — Dulzin Big B

Co-Chair(s): Morio Toyoshima, National Institute of Information and Communications Technology, Japan; Robert Prevau, Space Systems/Loral, United States;

Rapporteur(s): Amane Miura, National Institute of Information and Communications Technology, Japan;

IAC-15.B2.6.1

RC64 – MANY-CORE COMMUNICATION PROCESSOR FOR SPACE IP ROUTER
Ran Ginosar, , Israel

IAC-15.B2.6.2

A NEW CHAPTER BEGINS FOR EO-MISSIONS - HYBRID OPTICAL/RF PAYLOAD FOR DATA RELAY APPLICATION BECOMES OPERATIONAL
Norbert Doerflinger, Tesat-Spacecom GmbH & Co. KG, Germany

IAC-15.B2.6.3

OPTICAL INTERSATELLITE LASER COMMUNICATION LINK FOR LOW-ORBIT COMMUNICATION SATELLITE SYSTEMS
Oleg Ivanenko, Yaliny, Russian Federation

IAC-15.B2.6.4

A GAME – CHANGING RADIO COMMUNICATION ARCHITECTURE FOR CUBE/NANO-SATELLITES
Miguel Angel Fernandez, SYRLINKS, France

IAC-15.B2.6.5

AFTER ROSETTA & MYRIADE, NOW A NEW GENERATION OF RADIO EQUIPMENT FOR MERLIN & MYRIADE EVOLUTION
Miguel Angel Fernandez, SYRLINKS, France

IAC-15.B2.6.6 (withdrawn)

INTEGRATED SATELLITE TERRESTRIAL VHF DATA EXCHANGE SYSTEM (VDES)
Frank Zeppenfeldt, European Space Agency (ESA), The Netherlands

IAC-15.B2.6.7

DYNAMIC BEAM CONTROL BASED ON VISION METROLOGY OF LARGE DEPLOYABLE ANTENNA FOR MOBILE SATELLITE COMMUNICATION
Maki Akioka, National Institute of Information and Communications Technology, Japan

IAC-15.B2.6.8

FORMATION FLYING NAVIGATION EXPLOITING INTER-SATELLITE RADIO LINK STRENGTH MEASUREMENTS
Giovanni B. Palmerini, Universita' di Roma 'La Sapienza', Italy

IAC-15.B2.6.9

PLANETARY SURFACE MODELLING AND VISUALISATION FOR ASSISTING ROVER NAVIGATION SYSTEM
Deepak Kumar, Central University of Karnataka, Gulbarga, India

IAC-15.B2.6.10 (withdrawn)

SATELLITE PAYLOAD STRUCTURE ANALYSIS FOR BROADBAND SATELLITE COMMUNICATION ON HIGH-SPEED TRAINS
Naijin Liu, China Academy of Space Technology (CAST), China

IAC-15.B2.6.11

SOFTWARE DEFINED ADVANCED FLEXIBLE COMMUNICATIONS AND RELAY GEOSTATIONARY SATELLITE SYSTEM
Linghua Guo, China Academy of Space Technology (CAST), China

IAC-15.B2.6.12 (withdrawn)

THE STUDY OF SILICON DRIFT DETECTORS FOR X-RAY PULSAR TIMING AND NAVIGATION
Dong Jin, , China

B2.7. Fixed and Broadcast Communications

October 16 2015, 13:30 — **Dulzin Big B**

Co-Chair(s): Desaraju Venugopal, Devas Multimedia Pvt. Ltd., India; Joe M. Straus, The Aerospace Corporation, United States; Rapporteur(s): K.R. Sridhara Murthi, NIAS, India;

IAC-15.B2.7.1

KEY KA BAND SATELLITE COMMUNICATION SYSTEMS – APPLICATIONS AND CONFIGURATIONS
Desaraju Venugopal, Devas Multimedia Pvt. Ltd., India

IAC-15.B2.7.2

TRANSMITTER MICRO DISCHARGES IN COMMUNICATIONS AND BROADCAST SATELLITES
Robert D. Briskman, Sirius XM Satellite Radio, United States

IAC-15.B2.7.4 (withdrawn)

NEW ALGORITHM FOR ADAPTIVE RETURN CHANNEL IN VSAT NETWORKS
Rafi Heiman, Gilat Satellite Networks Ltd., Israel

IAC-15.B2.7.5 (withdrawn)

PHASE NOISE SUPPRESSION METHOD BASED ON SOFT INFORMATION DECODING IN SPACE COMMUNICATIONS
Gengbo Wang, Space Star Technology co., LTD, China

IAC-15.B2.7.6

CROSS POLARIZATION STUDY AT THE TRMM CHANNELS
Rajasri Sen Jaiswal, Sona College of Technology, India

IAC-15.B2.7.7

A STUDY OF ZIGBEE M2M HYBRID ARCHITECTURE BASED ON KA BAND MULTIPLE SPOT BEAM SATELLITE COMMUNICATION SYSTEM
Xiaotian ZHENG, Space Star Technology Co., Ltd. (SSTC) China Academy of Space Technology (CAST), China

IAC-15.B2.7.8

THE COMPLEXITY OF SPACE INFORMATION NETWORK
Hui Huang, China Academy of Launch Vehicle Technology(CALT), China

B2.8-YPVF.3. Space Communications and Navigation Young Professionals Virtual Forum

October 15 2015, 14:45 — **Kerem Carmit**

Co-Chair(s): Edward W. Ashford, Graz University of Technology (TU Graz), Austria; Kevin Shortt, Canadian Space Society, Germany;

IAC-15.B2.8-YPVF.3.1

KEYNOTE: SPACETECH - A CURRICULUM IN SPACE SYSTEMS AND BUSINESS ENGINEERING
Otto Koudelka, Graz University of Technology (TU Graz), Austria

IAC-15.B2.8-YPVF.3.1

WHOLE MTO ORBIT ACQUISITION METHOD BASED ON FPGA RESOURCE RESTRICTED PLATFORM
Jia Tian, China Academy of Space Technology (Xi'an), China

IAC-15.B2.8-YPVF.3.2

GPS C/A CODE CROSS CORRELATION MITIGATION TECHNIQUE FOR HEO ORBIT ACQUISITION
Jia Tian, China Academy of Space Technology (Xi'an), China

IAC-15.B2.8-YPVF.3.3

ENERGY EFFICIENCY OF MULTI-HOP SENSOR NETWORK ON THE SURFACE OF SOLAR SYSTEM PLANET
Aliz Szeile, , Hungary

IAC-15.B2.8-YPVF.3.4

COMMUNICATION ARCHITECTURE AND INTERNATIONAL POLICY RECOMMENDATIONS ENABLING THE DEVELOPMENT OF GLOBAL CUBESAT SPACE NETWORKS
Ozan Kara, Koc University, Turkey

IAC-15.B2.8-YPVF.3.5

ABATING THE EFFECTS OF PESTS AND DISEASES USING GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS)
Oniosun Temidayo Isaiah, Nigeria

IAC-15.B2.8-YPVF.3.6

SCENIC MODEL CONTROL: A SIMULATION SYSTEM FOR SPACE COMMUNICATIONS NETWORKS
Jeff Kraus, NASA Glenn Research Center, USA

IAC-15.B2.8-YPVF.3.7

IMPROVING SPACE COMMUNICATION AND NAVIGATION (SCAN) OPTICAL SATELLITE LINK ASSESSMENT TOOL
Jacky Lee, NASA Glenn Research Center (SCaN Summer Intern), USA

B2.IP. Interactive Presentations

October 14 2015, 13:15 — **Plasma Screens Area**

Coordinator(s): Manfred Wittig, European Space Agency (ESA), retired, The Netherlands; Otto Koudelka, Joanneum Research, Austria;

IAC-15.B2.IP.1

ADAPTIVE TRANSMISSION METHOD FOR COMMUNICATION THROUGH REENTRY PLASMA SHEATH
Guolong He, Tsinghua University, China

IAC-15.B2.IP.2

CONCEPTUAL DESIGN OF KOREAN PATHFINDER LUNAR ORBITER COMMUNICATION RF DISTRIBUTION UNIT FOR SCIENCE CUBESATS AND COMMERCIAL COMMUNICATION PAYLOAD FOR SPACE EXPLORATION MISSION
Inkyu Kim, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.B2.IP.3

PRECISE GLOBAL POSITIONING AND HIGHER ORDER RELATIVISTIC CORRECTIONS
Ignazio Ciufolini, Università del Salento, Italy

IAC-15.B2.IP.4

RESEARCH ON TIME REGISTRATION METHOD OF CELESTIAL INTEGRATED NAVIGATION SYSTEM FOR DEEP SPACE EXPLORATION
Heng Zhang, Shanghai Insitute of Satellite Engineering, China

IAC-15.B2.IP.5

THE SPREAD SPECTRUM AND ENCRYPTION METHOD BASED ON CHAOTIC TRUE RANDOM NUMBER SEQUENCE IN TT & C SYSTEM
Yongming Nie, , China

IAC-15.B2.IP.6

A MODIFIED PARALLEL CARRIER SYNCHRONIZATION STRUCTURE BASED ON APRX FOR PSK
Shen Zhou, , China

IAC-15.B2.IP.7 (withdrawn)

SPACECRAFT VLBI TRACKING USING S/X DUAL-BAND SIGNALS
Huan ZHOU, Beijing Institute of Tracking and Telecommunication Technology, China

IAC-15.B2.IP.8 (withdrawn)

SOFTWARE DEFINED NETWORK ARCHITECTURE FOR SATELLITE NETWORKS WITH INTER-SATELLITE LINKS
Liye Zhao, DFH Satellite Co. Ltd., China

IAC-15.B2.IP.9

OPPORTUNITIES OF AN OPEN-SOURCE GLOBAL SENSOR NETWORK MONITORING THE RADIO SPECTRUM FOR THE (NEW) SPACE COMMUNITY
Andreas Hornig, University of Stuttgart, Germany

IAC-15.B2.IP.10

USING CROSS-ENTROPY TO ASSESS ACCURACY OF POSITION ESTIMATORS
JEANNETTE NOUNAGNON, Virginia Tech, United States

IAC-15.B2.IP.11

PRECISE CARRIER PHASE TIME TRANSFER BASED ON BDS REGIONAL NAVIGATION SYSTEM
Hongzheng Cui, 1)Science and technology on aerospace flight dynamics laboratory, Beijing, China;2)Beijing aerospace control center, Beijing, China;, China

IAC-15.B2.IP.12

WSNOS SYSTEM MULTIUSER DESIGN
Hongfeng Du, CASC, China

B3. HUMAN SPACEFLIGHT SYMPOSIUM

Coordinator(s): Cristian Bank, EADS Astrium Space Transportation GmbH, Germany; Martin Zell, European Space Agency (ESA), The Netherlands;

B3.1. Governmental Human Spaceflight Programs (Overview)

October 12 2015, 15:15 — **Ballroom A**

Co-Chair(s): Carlo Mirra, Airbus Defence & Space, The Netherlands; Kevin D. Foley, The Boeing Company, United States;

Rapporteur(s): Rainer Willnecker, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

IAC-15.B3.1.1

THE GLOBAL EFFORT TO EXPAND HUMAN PRESENCE INTO THE SOLAR SYSTEM
William H. Gerstenmaier, National Aeronautics and Space Administration (NASA), United States

IAC-15.B3.1.2

ESA'S SPACE EXPLORATION STRATEGY
Thomas Reiter, European Space Agency (ESA), The Netherlands

IAC-15.B3.1.3

JAXA'S INITIATIVE ON HUMAN SPACEFLIGHT PROGRAM FOR FUTURE SPACE EXPLORATION
Yoshiyuki Hasegawa, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.B3.1.4 (withdrawn)

CANADA AND THE INTERNATIONAL SPACE STATION PROGRAM: OVERVIEW AND STATUS SINCE IAC 2014
Pierre Jean, Canadian Space Agency, Canada

IAC-15.B3.1.5

TRANSITIONING THE INTERNATIONAL SPACE STATION TO EXPLORATION: CHALLENGES AND OPPORTUNITIES
Sam Scimemi, National Aeronautics and Space Administration (NASA), United States

IAC-15.B3.1.6

DEVELOPMENT STATUS OF THE "EUROPEAN BUILT" ORION SERVICE MODULE
Philippe Deloo, ESA, Netherlands Antilles

B3.2. Commercial Human Spaceflight Programs

October 13 2015, 09:45 — **Ballroom A**

Co-Chair(s): Michael E. Lopez Alegria, Commercial Spaceflight Federation, United States; Michael W. Hawes, Lockheed Martin Corporation, United States; Sergey K. Shaevich, Khrunichev State Research & Production Space Center, Russian Federation;

IAC-15.B3.2.1

"NASA'S FACILITATION OF COMMERCIAL SPACEFLIGHT"
Sumara Thompson-King, National Aeronautics and Space Administration (NASA), United States

IAC-15.B3.2.2

TRENDS OF THE COMMERCIAL FLIGHTS TO SPACE
Alexander G. Derechin, S.P. Korolev Rocket and Space Corporation Energia, Russian Federation

IAC-15.B3.2.3

MODERN VISION OF BIOMEDICAL SUPPORT OF SPACE TOURIST FLIGHTS
Oleg Orlov, SSC RF-Institute of Biomedical Problems RAS, Russian Federation

IAC-15.B3.2.4

SPACESHIP TWO: A SUBORBITAL PLATFORM FOR HUMAN SPACEFLIGHT AND SPACE-BASED RESEARCH
William Pomerantz, Virgin Galactic L.L.C, United States

IAC-15.B3.2.5

VIABILITY OF THE PRIVATE SUBORBITAL FLIGHT PROJECTS IN RUSSIA: "KOSMOKURS" CASE
Alexey Belyakov, Skolkovo Foundation, Russian Federation

IAC-15.B3.2.6

MANNED LUNAR INFRASTRUCTURE AND COMMERCIALIZATION OF FLIGHTS TO THE MOON
Oleg Saprykin, TSNIIIMASH, Russian Federation

IAC-15.B3.2.7

SPACEFLIGHT PARTICIPANTS TRAINING FOR SPACEFLIGHT ON RUSSIAN MANNED VEHICLES
Maksim Kharlamov, Gagarin Cosmonaut Training Center, Russian Federation

IAC-15.B3.2.8

HELIUM: A COMMERCIAL EUROPEAN NEAR-SPACE BALLOON-BORNE LABORATORY
Annelie Schoenmaker, zero2infinity, Spain

B3.3. Utilization & Exploitation of Human Spaceflight Systems

October 13 2015, 14:45 — Ballroom A

Co-Chair(s): Kevin D. Foley , The Boeing Company, United States; Maria Stella Lavitola , Thales Alenia Space Italia, Italy;
Rapporteur(s): Shannon Ryan , Defence Science and Technology Organisation (DSTO), Australia;

IAC-15.B3.3.1

ESA'S UTILISATION PROGRAMME ON THE ISS
Martin Zell, European Space Agency (ESA), The Netherlands

IAC-15.B3.3.2 (withdrawn)

CANADIAN SPACE AGENCY UTILISATION OF THE INTERNATIONAL SPACE STATION IN 2014
Nicole Buckley, Canadian Space Agency, Canada

IAC-15.B3.3.3

RUSSIAN ISS RESEARCH PROGRAM
George Karabadzhak, Central Research Institute for Machine Building (FGUP TSNIIIMASH), Russian Federation

IAC-15.B3.3.4

ITALIAN SPACE AGENCY SCIENCE ON THE INTERNATIONAL SPACE STATION: THE FUTURA MISSION
Salvatore Pignataro, Italian Space Agency (ASI), Italy

IAC-15.B3.3.5

EXPANDED BENEFITS FOR HUMANITY FROM THE INTERNATIONAL SPACE STATION
Julie A. Robinson, National Aeronautics and Space Administration (NASA)/Johnson Space Center, United States

IAC-15.B3.3.6

TECHNOLOGY DEVELOPMENT ABOARD RUSSIAN SEGMENT OF THE ISS
Igor V. Sorokin, S.P. Korolev Rocket and Space Corporation Energia, Russian Federation

IAC-15.B3.3.7

INTEGRATION AND IMPLEMENTATION OF THE ESA 'IRISS' MISSION TO THE ISS
Petrus Batenburg, Airbus Defence and Space, The Netherlands

IAC-15.B3.3.8

STUDY OF CATASTROPHIC PHENOMENA AND ENVIRONMENTAL PROBLEMS FROM THE RUSSIAN SEGMENT OF THE ISS
Olga Yurina, Korolev RSC Energia, Russian Federation

IAC-15.B3.3.9

MINI-EUSO INSIDE ISS TO PREPARE FOR STUDYING ULTRA-HIGH ENERGY PARTICLES FROM THE OUTSIDE
Christer Fuglesang, KTH, Sweden

IAC-15.B3.3.10

ORION EFT-1 FLIGHT TEST RESULTS AND EM-1 AND EM-2 STATUS
Scott Norris, Lockheed Martin Space Systems Company, United States

IAC-15.B3.3.11

INTERNATIONAL DEEP SPACE INTEROPERABILITY STANDARDS
Matthew Duggan, The Boeing Company, United States

B3.4-B6.5. Flight & Ground Operations of HSF Systems – Joint Session of the Human Spaceflight and Space Operations Symposia

October 14 2015, 09:45 — Ballroom A

Co-Chair(s): Dieter Sabath , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; Helmut Luttmann , Airbus Defence and Space - Space Systems, Germany;
Rapporteur(s): Rachid Amekrane , Airbus DS GmbH, Germany;

IAC-15.B3.4-B6.5.1

OPERATIONS OF THE EUROPEAN AUTOMATED TRANSFER VEHICLE: A HISTORY OF TRILATERAL COOPERATION
Mauro Augelli, Centre National d'Etudes Spatiales (CNES), France

IAC-15.B3.4-B6.5.2 (withdrawn)

SPACE-TO-GROUND COMMUNICATION FOR COLUMBUS: A QUANTITATIVE ANALYSIS
Thomas Uhlig, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.B3.4-B6.5.3

CONSOLIDATING COLUMBUS OPERATIONS AND LOOKING FOR NEW FRONTIERS
Katja Leuth, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.B3.4-B6.5.4

MOBIPV: AN INNOVATIVE MOBILE PROCEDURE VIEWER FOR THE INTERNATIONAL SPACE STATION.
Antonio Fortunato, , Germany

IAC-15.B3.4-B6.5.5 (withdrawn)

INTEGRATION OF AN EXTERNALLY PROVIDED NEW PLANNING SOFTWARE INTO THE RUNNING COLUMBUS OPERATIONS.
Jérôme Campan, DLR, German Aerospace Center, Germany

IAC-15.B3.4-B6.5.6

TOWARDS A DYNAMIC MANAGEMENT OF THE SPACE LINK EXTENSION PROTOCOL SERVICES
Antonio Cassiano Julio Filho, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

IAC-15.B3.4-B6.5.7

ASI ISS SCIENCE DIRECTORY: ARCHIVING AND DISSEMINATING THE RESULTS OF THE ITALIAN SPACE AGENCY SCIENCE ON THE INTERNATIONAL SPACE STATION
Salvatore Pignataro, Italian Space Agency (ASI), Italy

IAC-15.B3.4-B6.5.8

ON ORBIT CHANGES AND NEW SCENARIOS FOR NODE 2 AND 3 AND CUPOLA: HOW TO BE PREPARED FROM THE DESIGN PHASE
Annamaria Piras, Thales Alenia Space Italia, Italy

B3.5. Astronaut Training, Accommodation, and Operations in Space

October 15 2015, 09:45 — Ballroom A

Co-Chair(s): Alan T. DeLuna , ATDL Inc., United States; Igor V. Sorokin, S.P. Korolev Rocket and Space Corporation Energia, Russian Federation;
Rapporteur(s): Tai Nakamura , Japan Aerospace Exploration Agency (JAXA), Japan;

IAC-15.B3.5.1

THE USE OF VIRTUAL REALITY (VR) IN ASTRONAUT TRAINING AND SPACE SYSTEM DESIGN
Yuval Brodsky, Italian Mars Society, Israel

IAC-15.B3.5.2

NEW APPROACHES TO THE COSMONAUT TRAINING ON THE PROGRAM OF SCIENTIFIC-APPLIED RESEARCH AND EXPERIMENTS ABOARD THE ISS RUSSIAN SEGMENT
Andrey Kuritsin, Gagarin Cosmonaut Training Center, Russian Federation

IAC-15.B3.5.3

UNESCO-42: RAPID DEVELOPMENT OF AN EARTH OBSERVATION SUPPORT SOFTWARE FOR THE INTERNATIONAL SPACE STATION.
Olivier Lamborelle, Space Applications Services N.V., Germany

IAC-15.B3.5.4

STRENGTH CAPABILITY OF ASTRONAUTS IN SPACESUIT FROM BOTH BIOMECHANICAL MODELING AND EXPERIMENTAL ASPECTS
XD Wang, China Astronaut Research and Training Center, Beijing 100094, China, China

IAC-15.B3.5.5

A PROPOSED PHOTOELASTICITY-BASED ENHANCED VISUAL INSPECTION TOOL FOR ASTRONAUT EVA
Joshua Fogel, University of Southern California, United States

IAC-15.B3.5.6

A RETROSPECTIVE ON THE BLUE DOT MISSION OF ALEXANDER GERST
Johannes Weppler, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.B3.5.7

POST-FLIGHT EXPERIMENTAL RESEARCH IN THE INTERESTS OF MANNED FLIGHTS TO DEEP SPACE
Andrey Kuritsin, Gagarin Cosmonaut Training Center, Russian Federation

IAC-15.B3.5.8

DESIGN AND ESTABLISHMENT OF AN ANALOG PLANETARY HABITAT FACILITY TO SERVE AS A BASIS FOR HUMAN MACHINE INTERFACE STUDIES
Chrishma Singh-Derewa, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

B3.7. Advanced Systems, Technologies, and Innovations for Human Spaceflight

October 16 2015, 09:45 — Ballroom A

Co-Chair(s): Lionel Suchet , Centre National d'Etudes Spatiales (CNES), France; Martin Zell , European Space Agency (ESA), The Netherlands;
Rapporteur(s): Gi-Hyuk Choi , Korea Aerospace Research Institute (KARI), Korea, Republic of;

IAC-15.B3.7.1

A CONCEPT STUDY INTO A POST ISS ARCHITECTURE
Mark Hempell, The British Interplanetary Society, United Kingdom

IAC-15.B3.7.2

SUSTAINABILITY IN HUMAN SPACEFLIGHT
Erin Mahoney, Valador, Inc., United States

IAC-15.B3.7.3 (withdrawn)

ADVANCED CREW MEDICAL SYSTEM (ACMS) FOR EXPLORATION MISSIONS BEYOND LEO
Raffi Kuyumjian, Canadian Space Agency, Canada

IAC-15.B3.7.3

RISKS AND COUNTERMEASURES OF MICROBE CONTROL IN CHINA MANNED SPACE STATION
Chuanfeng Wei, Institute of Manned Space System Engineering, China Academy of Space Technology (CAST), China

IAC-15.B3.7.4

COMBINED ENERGY PRODUCTION AND WASTE MANAGEMENT IN MANNED SPACECRAFT
Shani Elitzur, Technion – Israel Institute of Technology, Israel

IAC-15.B3.7.5

STUDY OF AIR RE-VITALIZATION FOR A FUTURE LONG DURATION MANNED SPACE MISSION
Masato Sakurai, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.B3.7.6

RESEARCH ON A DEPLOYMENT MECHANISM CAN BE APPLIED IN RENDEZVOUS AND DOCKING
Lianghao Bai, Institute of Manned Space System Engineering, CAST, China

IAC-15.B3.7.7

THE INTERNATIONAL BERTHING DOCKING MECHANISM (IBDM): DEMONSTRATING FULL COMPLIANCE TO THE INTERNATIONAL DOCKING SYSTEM STANDARD (IDSS)
Helder Dittmer, QinetiQ Space nv, Belgium

IAC-15.B3.7.8

ESCAPE TRAJECTORY ANALYSIS OF MANNED VEHICLE WITH SELF-CONTAINED PROPULSION SYSTEM
Shi Yong, Institute of Manned Space System Engineering, China Academy of Space Technology (CAST), China

IAC-15.B3.7.9

ORPHEUS: A NEW CONCEPT OF A MANNED SHORT STAY MISSION TO THE PROXIMITY OF MARS.
Antonio Magariello, International Master SEEDS, Italy

IAC-15.B3.7.9

OVERVIEW OF THRUSTER PLUME EFFECTS AND COUNTERMEASURES ANALYSIS IN CHINA TIANGONG-1 MISSION
Zhang Jian, Institute of Manned Space System Engineering, China Academy of Space Technology (CAST), China

IAC-15.B3.7.10

THERMODYNAMIC MODEL OF MARS OXYGEN ISRU EXPERIMENT (MOXIE)
Forrest Meyen, Massachusetts Institute of Technology (MIT), United States

IAC-15.B3.7.11 (withdrawn)

DEVELOPMENT OF A MASS ESTIMATION TOOL FOR FUTURE HUMAN SPACE MISSIONS

Ralf Boden, University of Tokyo, Japan

IAC-15.B3.7.12 (withdrawn)

EXPLORATION OF THE FUTURE: SPACESUIT DESIGN AND OPTIMIZATION

Keith Baggett, Zero Point Frontiers Corp., United States

IAC-15.B3.7.13 (withdrawn)

ECONOMIC EVALUATION OF REUSABLE CREW RETURN VEHICLE BASED ON LIFE CYCLE COST

Zhen Huang, Institute of Manned Space System Engineering, CAST, China

B3.9-YPVF.2. Human Spaceflight Young Professional Virtual Forum

October 14 2015, 14:45 — Kerem Carmit

Co-Chair(s): *Cristian Bank, EADS Astrium Space Transportation GmbH, Germany; Guillaume Girard, INSYEN AG, Germany;*

IAC-15.B3.9-YPVF.2.1

ENHANCING THE HUMAN-MACHINE INTERFACE USING VISR- AN INTERACTIVE 3D VISUALIZATION/ DESENSITIZATION TRAINING TOOL IN A VARIABLE GRAVITY MODEL

Poonampreet Kaur Josan, University of North Dakota, United States

IAC-15.B3.9-YPVF.2.2

THE SENSITIVITY ANALYSIS FOR SYSTEM DESIGN PARAMETERS EFFECT ON RETURN CAPSULE LANDING ATTITUDE

LIU MIN, China Academy of Space Technology (CAST), China

IAC-15.B3.9-YPVF.2.3

TOWARDS AN OPERATIONAL SATELLITE - CANADIAN SPACE AGENCY'S APPROACH TO OVERCOMING CHALLENGES FACED IN THE OPERATIONS OF NEAR EARTH OBJECT SURVEILLANCE SATELLITE.

Nimita Wadhwa, Canadian Space Agency, Canada

IAC-15.B3.9-YPVF.2.4

ATMOSPHERIC PROCESSING MODULE FOR FUEL AND WATER PRODUCTION ON MARS: AN ENGINEERING MODEL AND INTRINSIC KINETIC STUDY OF THE SABATIER REACTOR

Anne Caraccio, NASA Kennedy Space Center, USA

IAC-15.B3.9-YPVF.2.5

TECHNIQUES FOR THE USE OF VIDEO OVER DELAY TOLERANT NETWORKS AS A TOOL FOR SAFETY AND SITUATIONAL AWARENESS

Jeremy Pierce-Mayer, INSYEN AG, Germany

IAC-15.B3.9-YPVF.2.6

REVIEW OF THE INDIA'S HUMAN SPACE FLIGHT PROGRAM

Prashant Kaswekar, University of Stuttgart, Germany

B3.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): *Cristian Bank, EADS Astrium Space Transportation GmbH, Germany; Martin Zell, European Space Agency (ESA), The Netherlands;*

IAC-15.B3.IP.1

EFFECTIVE ANALYSIS OF SPACE STATION SYSTEMS REQUIREMENT FOR EXPLOITING SPACE EXPLORATION IN 2015.

THANGAVEL SANJEEVIRAJA, Hindustan University, India

IAC-15.B3.IP.2

FEASIBILITY OF MULTI-TECHNOLOGY INTEGRATION STRATEGY FOR DUST MITIGATION OF PLANETARY SPACESUITS

Kavya K. Manyapu, The Boeing Company and University of North Dakota, United States

IAC-15.B3.IP.3

THE REPORT BY NEW PROJECTS OF LOW BUDGET SCIENTIFIC AND COMMERCIAL PILOTED EXPEDITION TO MARS

Oleg Aleksandrov, AVIASTAR Inc www.aviastar.us, United States

IAC-15.B3.IP.4

THE GNC SYSTEM IDENTIFICATION OF SKIP ENTRY REENTRY TARGET BASED ON INCOMPLETE INFORMATION

Ma Hong, State Key Laboratory of Astronautic Dynamics (ADL), affiliated to Xi'an Satellite Control Center, China

IAC-15.B3.IP.5

MISSION PLANNING AND SCHEDULING FOR RENDEZVOUS AND DOCKING OF MANNED SPACECRAFT BASED ON FINIT STATE MACHINE

Sheng Yang, China Academy of Space Technology (CAST), China

IAC-15.B3.IP.6 (withdrawn)

EXPERIMENTAL AND MODELING INVESTIGATION OF CO2 DISSOCIATION IN MARS ENTRY CONDITION

Xin Lin, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.B3.IP.7

EDR/EML INTEGRATION CAMPAIGN AND LESSONS LEARNT

Maurizio Costa, Thales Alenia Space Italia, Italy

IAC-15.B3.IP.8 (withdrawn)

THE INTERNATIONAL REGIME GOVERNING EXPLOITATION OF NATURAL RESOURCES IN OUTER SPACE: POTENTIAL PROCESS OF FORMULATION

Yangzi Tao, Beijing Institute of Technology, China

B4. 22nd IAA SYMPOSIUM ON SMALL SATELLITE MISSIONS

Coordinator(s): *Alex da Silva Curiel, Surrey Satellite Technology Ltd (SSTL), United Kingdom; Rhoda Shaller Hornstein, , United States;*

B4.1. 16th Workshop on Small Satellite Programmes at the Service of Developing Countries

October 13 2015, 09:45 — Eshkol 1

Co-Chair(s): *Pierre Molette, France; Sias Mostert, Space Commercial Services Holdings (Pty) Ltd, South Africa; Rapporteur(s): Danielle Wood, The John Hopkins University, United States; Sergei Chernikov, United Nations Office at Vienna, Austria;*

IAC-15.B4.1.1

SMALLER IS BETTER?

Meir Moalem, Israel

IAC-15.B4.1.2

UNIVERSITY PARTNERSHIPS AS A MODEL FOR CAPABILITY BUILDING IN EMERGING SPACE NATIONS

Danielle Wood, The John Hopkins University, United States

IAC-15.B4.1.3

DESIGN AND DEVELOPMENT OF A NANO SATELLITE FOR SHIP MONITORING

Shobha Rekh, Karunya University, India

IAC-15.B4.1.4

WATER RESOURCES MONITORING SYSTEMS IN THE NIGER-DELTA BASIN AND THE ROLE OF NIGERSAT-X SATELLITE.

Michael Kio, Cranfield University, United Kingdom

IAC-15.B4.1.5

DESIGN CONSIDERATION FOR CONSTELLATION OF SMALL SATELLITES TO TACKLE INSECURITY CHALLENGES IN NIGERIA

BLESSING ZINOM, National Space Research and Development Agency (NASRDA), Abuja Nigeria, Nigeria

IAC-15.B4.1.6

EQUATOR-SAR: A CONSTELLATION OF SMALL SATELLITES AT THE SERVICE OF DEVELOPING NATIONS

Abdul Lawal, University of Glasgow, Space Advanced Research Team, United Kingdom

IAC-15.B4.1.7

AEROSPACE TECHNOLOGY IN PERU

Avid Roman-Gonzalez, , Peru

IAC-15.B4.1.8

ADVANCES FOR THE FIRST CENTRA-AMERICA SATELLITE: PROVIDING SOLUTIONS TO THE CHALLENGES OF ENVIRONMENTAL MONITORING IN TROPICAL DEVELOPING COUNTRIES

Luis Carlos Rosales Alpizar, Costa Rica Institute of Technology (ITCR), Costa Rica

IAC-15.B4.1.9

SCHOOL OF SATELLITES: AN ART AND SOCIAL EXPERIMENT IN MEXICO

Juan Diaz Infante, , Mexico

IAC-15.B4.1.10

LESSONS LEARNED BY THE FIRST BRAZILIAN CUBESAT PLATFORM

Eduardo Escobar Burger, National Institute for Space Research - INPE, Brazil

B4.2. Small Space Science Missions

October 12 2015, 15:15 — Eshkol 1

Co-Chair(s): *Larry Paxton, The Johns Hopkins University Applied Physics Laboratory, United States; Stamatios Krimigis, The Johns Hopkins University Applied Physics Laboratory, United States;*

IAC-15.B4.2.1

TWINKLE – A BRITISH SPACE MISSION TO EXPLORE FARAWAY WORLDS

Marcell Tessenyi, University College London, United Kingdom

IAC-15.B4.2.2

ULTRASAT – THE ULTRAVIOLET TRANSIENT ASTRONOMY SATELLITE

Ilan Sagiv, Weizmann Institute of Science, Israel

IAC-15.B4.2.3

FINDING UNIQUE EXOPLANETS WITH ULTRASAT

Aviv Ofir, Weizmann Institute of Science, Israel

IAC-15.B4.2.4 (withdrawn)

A NEW DISTRIBUTED MICROSATELLITE AND NANOSATELLITE SYSTEM FOR PRECISE ATMOSPHERIC DENSITY MEASUREMENT

Zhiming Zhao, DFH Satellite Co. Ltd., China

IAC-15.B4.2.5 (withdrawn)

PROBA-3, A FORMATION FLYING SPACECRAFT IMPLEMENTING A GIANT CORONAGRAPH

Joe Zender, European Space Research and Technology Centre, ESA-ESTEC, The Netherlands

IAC-15.B4.2.6

PIC.A.S.S.O: A STATE OF THE ART CUBESAT

Kevin Quillien, Clyde Space Ltd., United Kingdom

IAC-15.B4.2.7

DESIGN, MANUFACTURING AND TEST OF THE CUBESAT URSA MAIOR

Fabrizio Piergentili, University of Rome "La Sapienza", Italy

IAC-15.B4.2.8

LABORATORY PERFORMANCE OF X-RAY DETECTOR ON 2U CUBESAT BEEAGLESAT

Emrah Kalemci, , Turkey

IAC-15.B4.2.9 (withdrawn)

A NEW CONCEPT IN DESIGNING THE THERMAL SHIELD FOR A SMALL REENTRY SPACECRAFT

Bianca Szasz, Kyushu Institute of Technology, Japan

IAC-15.B4.2.10

EIGHT YEARS OF GAMMA-RAY ASTROPHYSICS: THE AGILE MISSION

Marco Tavani, INAF-IAPS, Italy

IAC-15.B4.2.11 (withdrawn)

SMALL EXPLORER FOR ADVANCED MISSIONS PECULIARITIES

Vira Pronenko, Lviv Centre of Institute for Space Research, Ukraine

IAC-15.B4.2.12

SCIENTIFIC PROGRAM AND OPERATION OF SMALL SATELLITES "AIST".

Ivan Tkachenko, SSAU, Russian Federation

B4.3. Small Satellite Operations

October 13 2015, 14:45 — Eshkol 1

Co-Chair(s): *Karen McBride, University of California, Los Angeles, United States; Peter M. Allan, STFC, United Kingdom; Rapporteur(s): Andreas Hornig, University of Stuttgart, Germany; Helen Walker, STFC, United Kingdom;*

IAC-15.B4.3.1

LOW COST SUCCESSFUL SPACE OPERATIONS: THE AGILE MISSION

Fabio D'Amico, Italian Space Agency (ASI), Italy

IAC-15.B4.3.2

MICROSATELLITES GROUND OPERATIONS AND BEST PRACTICES FROM THE EXPERIENCE OF UNISAT-6

Aitor Conde Rodriguez, G.A.U.S.S. Srl, Italy

IAC-15.B4.3.3

UKUBE-1 PLANNING AND OPERATIONS

Helen Walker, STFC, United Kingdom

IAC-15.B4.3.4

MISSION PAST RESULTS AND FUTURE PLANS OF SPACE TETHERED AUTONOMOUS ROBOTIC SATELLITE STARS

Masahiro Nohmi, Shizuoka University, Japan

IAC-15.B4.3.5

LESSONS LEARNED FROM IN ORBIT OPERATIONS OF THE UWE-3 PICO-SATELLITE

Alexander Kleinschrodt, University of Würzburg, Germany

IAC-15.B4.3.6

CANX-4 AND CANX-5: PRECISION FORMATION FLIGHT MISSION ACCOMPLISHED

Grant Bonin, Space Flight Laboratory, Canada

IAC-15.B4.3.7 (withdrawn)

ON-LINE COLLISION HAZARD ASSESSMENT FOR FRACTIONATED SATELLITE CLUSTERS WITH PROXIMITY RELATIVE MOTION

WEIWEI YANG, China Satellite Maritime Tracking and Control Department, China

IAC-15.B4.3.8

NANOSATCS: A GROUND CONTROL AND MONITORING SYSTEM FOR BRAZILIAN SCIENTIFIC CUBESAT – NANOSATC-BR1

Marcelo Henrique Essado de Moraes, , Brazil

IAC-15.B4.3.9 (withdrawn)

ESEO GROUND SEGMENT SOFTWARE SOLUTIONS: * DESIGN, IMPLEMENTATION AND TESTING
Marco Bosco, University of Bologna, Italy

IAC-15.B4.3.10

RAISIN - RADIO AMATEUR INTERNATIONAL SATELLITE INFORMATION NETWORK
Ramon de la Rosa, Universidad de Valladolid, Spain

IAC-15.B4.3.11

NAVIGATION DEVELOPMENT PROGRAM FOR THE ADDASAT MICROSATELLITE
Dragos Rugescu, Association Dedicated to Development in Astronautics (ADDA), Romania

IAC-15.B4.3.12

AGILE PROCESS FOR EMBEDDED SOFTWARE DEVELOPMENT OF SMALL SATELLITES' ONBOARD COMPUTER
Sendhikumar Alalasundaram, College of Engineering, Pune, India

IAC-15.B4.3.13

ACTUATION SYSTEM FOR ATTITUDE CONTROL OF TWIN-NANO-SATELLITE STUDSAT-2
Divyanshu Sahay, Nitte Meenakshi Institute of Technology, India

B4.4. Small Earth Observation Missions

October 14 2015, 09:45 — Eshkol 1

Co-Chair(s): Amnon Ginati , European Space Agency (ESA), The Netherlands; Larry Paxton , The Johns Hopkins University Applied Physics Laboratory, United States;
Rapporteur(s): Carsten Tobehn , European Space Agency (ESA), The Netherlands;

IAC-15.B4.4.1

ITALIAN CHALLENGES AND OPPORTUNITIES FOR SMALL SATELLITES: A SCIENTIFIC, TECHNOLOGICAL AND INDUSTRIAL PERSPECTIVE
Luigi Ansalone, Agenzia Spaziale Italiana (ASI), Italy

IAC-15.B4.4.2

A SATELLITE BASED LOW POWER LOW VOLUME RECEIVER SYSTEM FOR TRACKING OF MIGRATING BIRDS
Rene Fleron, Technical University of Denmark - National Space Institut (DTU Space), Denmark

IAC-15.B4.4.3

EARTH OBSERVATION AND MARINE/AIR TRAFFIC MONITORING WITH A MULTIPLE CUBESAT CONSTELLATION
Shufan Wu, Shanghai Engineering Center for Microsatellite, China

IAC-15.B4.4.4

EMSA/ESA SAT-AIS INITIATIVE – FIRST OPERATIONAL RESULTS OF THE DATA PROCESSING CENTER & SERVICES AND NEXT GENERATION PAYLOAD AND MICRO-SATELLITES
Carsten Tobehn, European Space Agency (ESA), The Netherlands

IAC-15.B4.4.5

CUBETH: NANO-SATELLITE MISSION FOR ORBIT AND ATTITUDE DETERMINATION USING LOW-COST GNSS RECEIVERS
Anton Ivanov, Ecole Polytechnique Fédérale de Lausanne (EPFL), Space Engineering Center (eSpace), Switzerland

IAC-15.B4.4.6

DRAG-FREE TECHNOLOGY ON A SMALL SATELLITE
Andreas Zoellner, Stanford University, United States

IAC-15.B4.4.7

ENVIRONMENTAL MONITORING EXPERIMENT (EM-EX) ONBOARD RYETUBESAT
Krishna Kumar, Ryerson University, Canada

IAC-15.B4.4.8

EARTH OBSERVATION WITH TIGRISAT: STRUCTURAL AND MISSION DESIGN
Paolo Teofilatto, University of Rome "La Sapienza", Italy

IAC-15.B4.4.9 (withdrawn)

FLIGHT INSTRUMENT TESTING FOR THE NEMO-HD SATELLITE
Simon Grocott, Space Flight Laboratory, Canada

IAC-15.B4.4.10

TOWARDS LONG DURATION VIDEO IMAGING FROM SMALL LEO SPACECRAFT
Alex da Silva Curriel, Surrey Satellite Technology Ltd (SSTL), United Kingdom

B4.5. Access to Space for Small Satellite Missions

October 14 2015, 14:45 — Eshkol 1

Co-Chair(s): Alex da Silva Curriel , Surrey Satellite Technology Ltd (SSTL), United Kingdom; Jeffery Emdee , The Aerospace Corporation, United States;

IAC-15.B4.5.1 (withdrawn)

SMALLSAT MARKET AT TURNING POINT IN HISTORY
Rachel Villain, Euroconsult, France

IAC-15.B4.5.2

LAUNCHERONE: VIRGIN GALACTIC'S DEDICATED LAUNCH VEHICLE FOR SMALL SATELLITES
William Pomerantz, Virgin Galactic L.L.C., United States

IAC-15.B4.5.3

TECHNICAL EFFECTS OF NASA'S CUBESAT LAUNCH INITIATIVE
Emily Nightingale, Science and Technology Policy Institute, United States

IAC-15.B4.5.4

JAMSS SMALL SATELLITE LAUNCH SERVICES OVERVIEW
Yoshihiko Uemura, Japan Manned Space Systems Corporation (JAMSS), Japan

IAC-15.B4.5.5

A REVIEW OF THE NEW GENERATION OF SMALL LAUNCH VEHICLE DEVELOPED BY CALT
Haoliang Yang, Beijing Institute of Astronautical Systems Engineering, Beijing, China

IAC-15.B4.5.6

INNOVATIVE LOW-COST APPROACH TO LAUNCHING SMALL SATELLITES TO GEO
David Lackner, , United States

IAC-15.B4.5.7 (withdrawn)

THE PIGGYBACK PROGRAM OF 4M/LM-3C
Wei Hu, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.B4.5.8

THE INTERNATIONAL SPACE STATION AS LOW-COST HOSTING PLATFORM FOR LEO MISSIONS USING THE NANORACKS EXTERNAL PLATFORM
Christian Steimle, Airbus Defence and Space, Germany

IAC-15.B4.5.9

UNISAT-6: MISSION RESULTS AND LESSONS LEARNED ABOUT AN INNOVATIVE MULTIPURPOSE MICRO SATELLITE.
Marco Truglio, G.A.U.S.S. Srl, Italy

IAC-15.B4.5.10

A STRATEGIC LAUNCH PARTNERSHIPS: SPACE SYSTEMS LORAL AND NASA'S JET PROPULSION LABORATORY
Chirshma Singh-Derewa, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.B4.5.11

OPTIMIZATION OF SMALL SATELLITES SEPARATION CONDITIONS ENSURING THEIR UNIFORM DISPERSION AND LIMITATION IN APPROACH FURTHER
Iryna Vorobiova, Yuzhnoye State Design Office, Ukraine

IAC-15.B4.5.12

FIREFLY – A NEW GENERATION OF LOW COST, SMALL LAUNCH VEHICLES DESIGNED TO SERVE THE RAPIDLY GROWING SMALL SATELLITE MARKET
Andrew Bradford, Bradspace, United Kingdom

B4.6A. Generic Technologies for Small/Micro Platforms

October 15 2015, 09:45 — Eshkol 1

Co-Chair(s): Nicholas Waltham , Rutherford Appleton Laboratory, United Kingdom; Philip Davies , Deimos Space UK Ltd, United Kingdom;
Rapporteur(s): Jian Guo , Delft University of Technology (TU Delft), The Netherlands;

IAC-15.B4.6A.1

AN ACTIVE ATTITUDE CONTROL SYSTEM FOR A DRAG SAIL SATELLITE
Willem Steyn, ESL, Inc., South Africa

IAC-15.B4.6A.2

DESIGN AND DEVELOPMENT OF THE DEORBIT SYSTEM FOR MICROSATELLITES.
Ewelina Ryszawa, Warsaw University of Technology, Poland

IAC-15.B4.6A.3

SMALL SATELLITE FOR BIOMEDICAL RESEARCH BASED ON THE "AIST" SMALL SPACECRAFT PLATFORM
Ivan Kurov, Samara State Aerospace University, Russian Federation

IAC-15.B4.6A.4

RESEARCH ON APPLICATION OF TIME SYNCHRONIZATION IN SMALL SATELLITE TEST
Cao Lijun, DFH Satellite Co. Ltd., China

IAC-15.B4.6A.5

SINGLE-BOARD ARCHITECTURE: AN INNOVATIVE WAY TOWARDS TABLET SATELLITE
Wen Yao, , China

IAC-15.B4.6A.6

GENERIC SPACE MICRO PLATFORM BAUMANETS-2: ON THE VERGE OF THE LAUNCH
Vera Mayorova, Bauman Moscow State Technical University, Russian Federation

IAC-15.B4.6A.7

JAXA SMALL GPS/WHL DEMO BOX: IN-ORBIT DEMONSTRATION EXPERIMENT OF SMALL SATELLITE COMPONENTS USING EXPOSED EXPERIMENT PLATFORM ON JEM
Yoshiyuki Miura, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.B4.6A.8

CONTROL SYSTEM DESIGN FOR MICRO SATELLITE IN-CABIN BASED ON VISUAL NAVIGATION
Zhang Yongkang, Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences, China

IAC-15.B4.6A.9

A LOW COST HIGH PERFORMANCE GYRO FOR SMALL/MICRO SATELLITES IN LEO
Alberto Torasso, Innalabs Ltd, Ireland

IAC-15.B4.6A.10

SDS-4 ATTITUDE CONTROL SYSTEM: THREE YEARS IN-ORBIT OPERATION RESULTS
Yuta Nakajima, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.B4.6A.11

X50: REDUCING COST AND SCHEDULE WHILE BEING MODULAR AND ADAPTABLE FOR REMOVEDEBRIS
Nimal Navarathinam, Surrey Satellite Technology Ltd (SSTL), United Kingdom

IAC-15.B4.6A.12

AFTER ROSETTA & MYRIADE, NOW A NEW GENERATION OF RADIO EQUIPMENT FOR MERLIN & MYRIADE EVOLUTION
Miguel Angel Fernandez, SYRLINKS, France

B4.6B. Generic Technologies for Nano/Pico Platforms

October 15 2015, 14:45 — Eshkol 1

Co-Chair(s): Nicholas Waltham, Rutherford Appleton Laboratory, United Kingdom; Philip Davies , Deimos Space UK Ltd, United Kingdom;
Rapporteur(s): Joost Elstak, Airbus Defence and Space Netherlands, The Netherlands;

IAC-15.B4.6B.1

HOBBIT – A STANDARD, HIGH RELIABILITY NANO-SATELLITE ELECTRONIC BUS
Raz Itzhaki Tamir, IAI MBT Space, Israel

IAC-15.B4.6B.2 (withdrawn)

A SUPERCOMPUTER FOR PICO-SATELLITES
Diego Barrettino, Scuola Universitaria Professionale della Svizzera Italiana, Switzerland

IAC-15.B4.6B.3

INDIVIDUAL FAULT DETECTION AND ISOLATION SYSTEM FOR CUBESATS USING NEURAL NETWORKS AND MULTIMODEL ALGORITHMS
Silvana Radu, Institute of Space Science, Romania

IAC-15.B4.6B.4

A NOVEL CONCEPT FOR EARTH REMOTE SENSING USING A BI-STATIC FEMTO-SATELLITE SWARM IN SUN SYNCHRONOUS ORBIT
Jianlin Cao, University of Strathclyde, United Kingdom

IAC-15.B4.6B.5

TETHERED ELECTROMAGNETIC CAPTURE: A CUBESAT MISSION CONCEPT
Lorenzo Olivieri, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.B4.6B.6

DEVELOPMENT OF A DUAL GIMBAL CONTROL MOMENT GYRO FOR NANO-SATELLITES
Douw Steyn, Stellenbosch University, South Africa

IAC-15.B4.6B.7

INVESTIGATION OF INNOVATIVE THRUST-VECTOR CONTROL TECHNIQUES FOR MICRO PROPULSION SYSTEMS
Marsil de Athayde Costa e Silva, Delft University of Technology (TU Delft), The Netherlands

IAC-15.B4.6B.8

AUTONOMOUS NEURO-FUZZY SOLUTION FOR FAULT DETECTION AND ATTITUDE CONTROL OF A 3U CUBESAT
Lorenzo Feruglio, Politecnico di Torino, Italy

IAC-15.B4.6B.9

A GAME – CHANGING RADIO COMMUNICATION ARCHITECTURE FOR CUBE/NANO-SATELLITES
Miguel Angel Fernandez, SYRLINKS, France

IAC-15.B4.6B.10

ENHANCED SMALL SATELLITE COMMUNICATION SYSTEMS FOR REMOTE PLANETARY EXPLORATION
RHONDA LYONS, , United States

IAC-15.B4.6B.11 (withdrawn)
INVESTIGATING METAL CORE RIGID-FLEX CIRCUIT BOARD ASSEMBLIES FOR CUBESAT STRUCTURAL DESIGN
Martin Losekamm, Technische Universität München, Germany

IAC-15.B4.6B.12
HIGH INTEGRITY SOFTWARE FOR CUBESATS AND OTHER SPACE MISSIONS
Carl Brandon, United States

IAC-15.B4.6B.13
LOW POWER HALL EFFECT THRUSTER FOR MICROSATS
Rajendrasing Uttamsing Rajput, National Aerospace University "Kharkiv Aviation Institute", Ukraine

B4.7. Space Systems and Architectures Featuring Cross-Platform Compatibility

October 16 2015, 13:30 — Eshkol 1

Co-Chair(s): JPeter Holsters, QinetiQ Space nv, Belgium
Norbert Lemke, OHB System AG - Munich, Germany
Rapporteur(s): Merlin F. Barschke, Technische Universität Berlin, Germany

IAC-15.B4.7.1
ENABLING FLEXIBLE PAYLOAD MANAGEMENT THROUGH MODULARITY
Merlin F. Barschke, Technische Universität Berlin, Germany

IAC-15.B4.7.2
P-400: A STANDARDIZED SMALL SATELLITE BUS FOR DEMANDING MISSIONS
Peter Holsters, QinetiQ Space nv, Belgium

IAC-15.B4.7.3
IAA STUDY ON LEAN SATELLITES DEFINITION AND REQUIREMENTS
Mengu Cho, Kyushu Institute of Technology, Japan

IAC-15.B4.7.4
A NEW CONCEPT OF SOFTWARE ARCHITECTURE FOR A FLEXIBLE ATTITUDE DETERMINATION AND CONTROL OF NANOSATELLITES
Karsten Gordon, Technische Universität Berlin, Germany

IAC-15.B4.7.5
EURO IOD - A JOINT BRITISH-GERMAN INITIATIVE FOR IN-ORBIT DEMONSTRATION
Norbert M.K. Lemke, OHB System AG - Munich, Germany

IAC-15.B4.7.6
MASS: A MODULAR ASSEMBLY SATELLITE STANDARD FOR 3U CUBESATS
Nicholas Velenosi, Concordia University, Canada

IAC-15.B4.7.7
USING CAN PROTOCOL IN NANOSATELLITES
Cleber Toss Hoffmann, ITA-CTA, Brazil

IAC-15.B4.7.8 (withdrawn)
DESIGN OF MODULAR SMALL SATELLITE CONSTELLATIONS FOR SCIENCE MISSIONS
Akshata Krishnamurthy, Massachusetts Institute of Technology (MIT), United States

IAC-15.B4.7.9
STANDARDIZING A FAST AND SIMPLE WAY TO REACH AN ORBIT
Laura León Pérez, Solar MEMS Technologies, Spain

B4.8. Small Spacecraft for Deep-Space Exploration

October 16 2015, 09:45 — Eshkol 1

Co-Chair(s): Leon Alkalai, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States;
Rene Laufer, Baylor University, United States;
Rapporteur(s): Amanda Stiles, SpaceX, United States;

IAC-15.B4.8.1
KEYNOTE: AN OVERVIEW OF CUBESATS FOR DEEP SPACE EXPLORATION OF NASA'S JET PROPULSION LABORATORY
Leon Alkalai, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.B4.8.2
MANFRED MEMORIAL MOON MISSION (4M): A PRIVATELY FUNDED LOW COST LUNAR FLYBY MISSION
Hubert Anton Moser, LuxSpace Sarl, Luxemburg

IAC-15.B4.8.3
SMALL HOMING VEHICLE FOR LUNAR SOUTH POLE FLYBY
Yang Chen, CASIC, China

IAC-15.B4.8.4
AUTONOMOUS NAVIGATION STRATEGY FOR SMALL SATELLITE LOW ENERGY LUNAR TRANSFER
Kuldeep Barad, SRM University, Chennai, India

IAC-15.B4.8.5 (withdrawn)
CONCEPTUAL DESIGN OF A LOW COST LUNAR MISSION USING FLIGHT-PROVEN SMALL SATELLITE TECHNOLOGIES
Yongjun Moon, Satrec Initiative, Korea, Republic of

IAC-15.B4.8.6
EMERGING SMALL SATELLITE OPERATIONS IN TURKEY: INTERPLANETARY MISSION INFRASTRUCTURE AND BENEFITS IN THE SPACE SECTOR
Cagri Kilic, Istanbul Technical University, Turkey

IAC-15.B4.8.7
COMPREHENSIVE STUDY OF SMALL SATELLITE MOON MISSIONS: ARCHITECTURE DESIGN, ELECTRIC PROPULSION SYSTEM OPTIMIZATION AND COST ANALYSIS
Ozan Kara, Koc University, Turkey

IAC-15.B4.8.8 (withdrawn)
CONCEPTUAL STUDY OF RELAY MIMO NAONOSATELLITE CONSTELLATION AROUND L2 FOR THE LUNAR FAR SIDE MISSION
Ge Zhu, China Academy of Space Technology, China

IAC-15.B4.8.9
PAYLOAD MISSION OF SMALL PROBE DEEP SPACE 'SHINEN2'
BENDOUKHA SIDI AHMED, Kyushu Institute of Technology, Japan

IAC-15.B4.8.10
SMALL BODY MASS ESTIMATION FROM SPACECRAFT SWARM FLYBY DYNAMICS
William Crowe, UNSW Australia, Australia

IAC-15.B4.8.11
SYSTEM DESIGN FOR DEEP-SPACE CUBESATS – A CASE STUDY FOR ESA ASTEROID IMPACT COPINS CUBESATS
Zhou Hao, Cranfield University, United Kingdom

IAC-15.B4.8.12
COST-EFFECTIVE ICY BODIES EXPLORATION USING SMALL SATELLITE MISSIONS
Jonas Jonsson, SGT Inc. / NASA Ames Research Center, United States

B5. SYMPOSIUM ON INTEGRATED APPLICATIONS

Coordinator(s): Amnon Ginati, European Space Agency (ESA), The Netherlands; Larry Paxton, The Johns Hopkins University Applied Physics Laboratory, United States;

B5.1. Tools and Technology in Support of Integrated Applications

October 16 2015, 09:45 — Dulzin Big B

Co-Chair(s): Carsten Tobehn, European Space Agency (ESA), The Netherlands; Larry Paxton, The Johns Hopkins University Applied Physics Laboratory, United States;
Rapporteur(s): David Y. Kusnierkiewicz, The John Hopkins University, United States;

IAC-15.B5.1.1
OVERVIEW AND SYNERGIES IN ESA IAP TRANSPORT & LOGISTICS PROJECTS
Roberta Mugellesi-Dow, European Space Agency (ESA), United Kingdom

IAC-15.B5.1.2
SPACE FOR PEACEFUL INNOVATION
Jeanne Holm, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.B5.1.3
ASIS – AUTOMATED SPECTRAL INTERPRETATION SYSTEM
Tal Feingersh, Israel Aerospace Industries. Ltd., Israel

IAC-15.B5.1.4
ASIF – AUTOMATED SYSTEM FOR IMAGE FUSION
Anat Rockah, Israel Aerospace Industries. Ltd, Israel

IAC-15.B5.1.5
"GREEN" SPACE TECHNOLOGY - NAVIGATING THE VALUE CHAIN TO ENHANCED ENVIRONMENTAL QUALITY AND SUSTAINABLE LIVING AGAINST EXTREME CLIMATE RISK
Lori Solberg, Israel

IAC-15.B5.1.6
INTEGRATED PROCESSING AND CONTROL OF MULTIPLE ENVIRONMENTAL VARIABLES THROUGH INTERNET OF THINGS (IOT) USING COTS COMPONENTS
Arys Carrasquilla-Batista, Instituto Tecnológico de Costa Rica, Costa Rica

IAC-15.B5.1.7
LANDFILL SITE SELECTION THROUGH THE INTEGRATION OF MULTI-CRITERIA DECISION ANALYSIS WITH GIS: A CASE STUDY OF AKURE, ONDO STATE, NIGERIA.
Olabanji Aladejana, Nigeria

IAC-15.B5.1.8
DESIGN OF A MECHANICAL CHAMBER FOR BIOLOGICAL PAYLOAD IN A 3U NANOSATELLITE
Matthew Driedger, University of Manitoba, Canada

IAC-15.B5.1.9
MONITORING THE GLOBAL ASTEROID IMPACT RISK
Clemens Rumpf, University of Southampton, United Kingdom

IAC-15.B5.1.10
THE INTERNATIONAL SPACE UNIVERSITY SPACE STUDIES PROGRAM 2015 PLANETARY DEFENSE PROJECT
Rémi Gourdon, International Space University (ISU), France

B5.2. Integrated Applications End-to-End Solutions

October 15 2015, 14:45 — Dulzin Big B

Co-Chair(s): Amnon Ginati, European Space Agency (ESA), The Netherlands; Boris Penne, OHB System AG-Bremen, Germany;
Rapporteur(s): Yuval Brodsky, tinTree International eHealth, South Africa;

IAC-15.B5.2.1
ESA SPACE SOLUTIONS (IAP AND TTP)
Frank M Salzgeber, ESA, The Netherlands

IAC-15.B5.2.2
INTEGRATED APPLICATIONS FOR THE EXPLOITATION OF SPACE SOLUTIONS TO RESPOND TO LOCAL, NATIONAL AND GLOBAL NEEDS: AN OVERVIEW ON THE ITALIAN PERSPECTIVE FROM THE ASI ACTIVITIES DRIVEN IN THE ARTES APPLICATIONS ENVIRONMENT.
Orietta Lanciano, ASI - Italian Space Agency, Italy

IAC-15.B5.2.3
REAL TIME DELIVERY OF "SITUATIONAL AWARENESS PICTURE" FOR RESCUE FORCES
Avi GAL, Gilat Satellite Networks Ltd., Israel

IAC-15.B5.2.4
SPACE AND SECURITY HAND IN HAND – INTEGRATED SPACE APPLICATIONS IN OPERATIONAL SUPPORT OF THE CRISIS MANAGEMENT CENTRE
Jakub Ryzenko, Crisis Informatin Centre, SRC & Warsaw University, Poland

IAC-15.B5.2.5
KARNATAKA-GIS – AN END-TO-END GOVERNANCE SOLUTION USING SPACE AND GROUND DATA
Mukund Kadursrinivas Rao, National Institute of Advanced Studies (NIAS), India

IAC-15.B5.2.6
PERSPECTIVES OF SPACE AIS DATA UTILIZATION FOR DIFFERENT CUSTOMERS IN RUSSIA
Alexander Romanov, JSC "Russian Space Systems", Russian Federation

IAC-15.B5.2.7 (withdrawn)
GLOBAL FRESHWATER MONITORING FOR REAL-TIME CONTAMINATION DETECTION
Benjamin Kraetzig, University of Stuttgart, Germany

IAC-15.B5.2.8
REMOTE SENSING IN SUPPORT OF ENDANGERED SPECIES MANAGEMENT AND ANIMAL MOVEMENT RESEARCH - THE ENV-DATA TOOL PACK
Gil Bohrer, Ohio State University, United States

IAC-15.B5.2.9 (withdrawn)
INTEGRATED SPACE SOLUTIONS FOR RAILWAY SIGNALLING APPLICATIONS (3INSAT)
Michele Castorina, ESA, The Netherlands

IAC-15.B5.2.10
LIFT TO SPACE: SPACE HAS NO LIMIT!
José Achaache, Switzerland

B6. SPACE OPERATIONS SYMPOSIUM

Coordinator(s): John Auburn, Consultant, Italy; Pierre Jean, Canadian Space Agency, Canada;

B6.1. Human Spaceflight Operations

October 15 2015, 14:45 — 313

Co-Chair(s): Mario Cardano, Thales Alenia Space France, Italy; Michael McKay, European Space Agency (ESA), Germany;
Rapporteur(s): Helmut Luttmann, Airbus Defence and Space - Space Systems, Germany;

IAC-15.B6.1.1
BASIC PRINCIPLES OF AUTOMATED INTERNATIONAL SPACE STATION RUSSIAN SEGMENT FLIGHT PLANNING SYSTEM
Andrey Belyaev, S.P. Korolev Rocket and Space Corporation Energia, Russian Federation

IAC-15.B6.1.2

AN ANALYTICAL SOLUTION FOR YAW MANEUVER OPTIMIZATION ON THE INTERNATIONAL SPACE STATION AND OTHER ORBITING SPACE VEHICLES

Tatiana Dobrinskaya, SGT, United States

IAC-15.B6.1.3

TRANSITIONING ISS DYNAMIC EVENTS FROM PROPULSIVE TO NON-PROPULSIVE CONTROL

Evgeny Menkin, ARES Aerospace, United States

IAC-15.B6.1.4

DIAGNOSIS AND EVA SERVICING OF UNPREPARED ON-ORBIT ROBOTIC HARDWARE

Andrew Masur, MDA Space Missions, Canada

IAC-15.B6.1.5

ERA GROUND CONTROL CONCEPT OF OPERATIONS

Fabio Tagliapietra, Terma B.V., The Netherlands

IAC-15.B6.1.6

INPUTS TO AN AMMONIA MODERATE LEAKAGE DETECTION AND REACTION IN COLUMBUS

Paola Parodi, Thales Alenia Space, Italy

IAC-15.B6.1.7

WPA MK II: AN INNOVATIVE PUMP PACKAGE FOR THE INTERNATIONAL SPACE STATION

Nicola di Francescantonio, Thales Alenia Space, Italy

B6.2. New Operations Concepts, Advanced Systems and Commercial Space Operations

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Co-Chair(s): Pierre LODS, Centre National d'Etudes Spatiales (CNES), France; Thomas Kuch, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

Rapporteur(s): Keiichiro Sakagami, Japan Aerospace Exploration Agency (JAXA), Japan;

IAC-15.B6.2.1 (withdrawn)

THE FUTURE OF MISSION OPERATIONS - ON THE PATH TO A SPACE TRAFFIC CONTROL SYSTEM

Trevor Sorensen, University of Hawaii, United States

IAC-15.B6.2.2

LETTING MISSION OPERATORS DO MORE : HOW CAN WE HELP HUMANS DEAL WITH SYSTEM COMPLEXITY ?

Guillaume Tanier, CGI, Germany

IAC-15.B6.2.3

VIRTUAL OPERATIONS CENTER FOR SPACE SCIENCE

Li Dalin, National Space Science Center, Chinese Academy of Sciences, China

IAC-15.B6.2.4

INTELLIGENT CONTROL SYSTEMS FOR AUTOMATED SPACECRAFT

Maxim Matiushin, Central Research Institute of Machine Building (FSUE/TSNIIIMASH), Russian Federation

IAC-15.B6.2.5

ADIA: AUTONOMOUS DETECTION, ANALYSIS AND PREDICTION OF ON-ORBIT SPACECRAFT FAILURES

Gerhard Fellinger, University of Würzburg, Germany

IAC-15.B6.2.6

INTRODUCTION OF A NEW SANDBOX INTERPRETER APPROACH FOR ADVANCED SATELLITE OPERATIONS AND SAFE ON-BOARD CODE EXECUTION

Slavi Dombrovski, University of Würzburg, Germany

IAC-15.B6.2.7 (withdrawn)

PERFORMING STATION KEEPING FOR COMSATS AS AN IN-ORBIT SERVICE

Meidad Pariente, SPACEIALIST, Effective Space Solutions, Israel

IAC-15.B6.2.8 (withdrawn)

ON-BOARD AUTONOMY FOR ON-ORBIT GEO SATELLITE PLATFORMS

Yuheng Li, Xidian University, China

IAC-15.B6.2.9

MOAPS: MISSION ORIENTED AUTOMATED PLANNING SYSTEM FOR ON-ORBIT SERVICE

Jixiang Cui, Beijing Institute of Tracking and Telecommunication Technology, China

IAC-15.B6.2.10 (withdrawn)

THE EUCLID OPERATIONS CONCEPT AND GROUND SEGMENT DESIGN - STATUS AND CHALLENGES

Andreas Rudolph, European Space Agency (ESA), Germany

B6.3. Mission Operations, Validation, Simulation and Training

October 12 2015, 15:15 — 313

Co-Chair(s): Paolo Ferri, European Space Agency (ESA), Germany; Zeina Mounzer, Telespazio Vega Deutschland GmbH, Germany; **Rapporteur(s):** Thomas Uhlig, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

IAC-15.B6.3.1

MISSION OPERATIONS AND SOH KEEPING OF FORMOSAT-2 IN TEN YEARS

Rock Jeng-Shing Chern, Ryerson University, Canada

IAC-15.B6.3.2

ESA'S BILLION STAR SURVEYOR – FLIGHT OPERATIONS EXPERIENCE FROM GAIA'S FIRST 1.5 YEARS.

David Milligan, ESA, Germany

IAC-15.B6.3.3

PHILAE : SCIENCE SCHEDULING AND UNDETERMINED CONTEXT; LESSONS LEARNED

Aurélie Moussi, Centre National d'Etudes Spatiales (CNES), France

IAC-15.B6.3.4

THE NEW TREND ANALYSIS PLAN FOR COSMO-SKYMED GROUND AND ILS&OPS SEGMENTS

Luca Fasano, Italian Space Agency (ASI), Italy

IAC-15.B6.3.5

MARS ORBITER MISSION: DESIGN APPROACH TO AUTOMATE THE PLANNING AND SCHEDULING OF PAYLOADS OPERATIONS

Naresh Kumar, ISRO Satellite Centre (ISAC), ISRO, India

IAC-15.B6.3.6 (withdrawn)

MISSION OPERATIONS SYSTEMS ENGINEERING DEVELOPMENT AND EXECUTION ON THE SOIL MOISTURE ACTIVE PASSIVE MISSION

Luke Walker, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.B6.3.7

DEVELOPMENT OF SPHERICAL IMMERSE ENVIRONMENTS SYSTEMS

Ido Bareket, Israel

IAC-15.B6.3.8

REAL-TIME SIMULATION AND TRAINING ENVIRONMENT FOR ROBOTIC SPACE SYSTEMS.

Markus Pietras, Germany

IAC-15.B6.3.9

AUTOMATIC CONTINGENCY SUPPORT OF GROUND SYSTEM FOR SATELLITE OPERATIONS AND DATA SERVICES

Wang Hongfeng, Mechanical Engineering College, Shijiazhuang, China

IAC-15.B6.3.10

MULTI-MISSION ELEMENTS FOR EUMETSAT OPERATIONS

chiara maria Cocchiara, Eumetsat, Germany

IAC-15.B6.3.11

ATV-5 DEORBITATION OPERATIONS USING A SHALLOW TRAJECTORY: AN EXAMPLE OF ADAPTIVE OPERATIONS

Rémi Lapeyre, CNES, France

IAC-15.B6.3.12

TRANSFERRING PAYLOAD OPERATIONS FROM ONE CENTRE TO ANOTHER: THE FSL CASE

Nadia This, BIRA-IASB, Belgium

IAC-15.B6.3.13

SPACE STATION SHORT-TERM MISSION PLANNING UNDER DYNAMIC RESOURCE CONSTRAINTS USING DIFFERENTIAL EVOLUTION

Dongyang Qiu, National University of Defense Technology, China

B6.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): John Auburn, Consultant, Italy; Pierre Jean, Canadian Space Agency, Canada;

IAC-15.B6.IP.1

DEEP SPACE IMAGING OPERATION FOR EARTH OBSERVATION INFRARED SENSOR CALIBRATION

Eunghyun Kim, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.B6.IP.2

A INTELLIGENT SCHEDULE METHOD FOR CHINESE TT&C NETWORK

CHEN YANG, Beijing Institute of Tracking and Telecommunication Technology, China

IAC-15.B6.IP.3 (withdrawn)

AN INTERNET WEB SERVER FOR THE ROSETTA LANDER MISSION IN THE COMET 67P/CG EXPLORATION

Joëlle DURAND, Centre National d'Etudes Spatiales (CNES), France

C1. ASTRODYNAMICS SYMPOSIUM

Coordinator(s): Alfred Ng, Canadian Space Agency, Canada; Anna Guerman, Centre for Mechanical and Aerospace Science and Technologies (C-MAST), Portugal;

C1.1. Mission Design, Operations & Optimization (1)

October 12 2015, 15:15 — Teddy B

Co-Chair(s): Johannes Schoenmaekers, European Space Operations Centre, Germany; Vincent Martinot, Thales Alenia Space France, France;

Rapporteur(s): Moriba Jah, Air Force Research Laboratory (AFRL), United States;

IAC-15.C1.1.1

PHILAE'S FLIGHT DYNAMICS CHALLENGES: REPORT OF THE LANDING ON A COMET

Elisabet Canalias, CNES, France

IAC-15.C1.1.2

APPLICABILITY OF THE TISSERAND CRITERION FOR OPTIMIZATION OF GRAVITY-ASSIST SEQUENCES FOR LOW-THRUST MISSIONS

Volker Maiwald, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.C1.1.3

SURVEY OF LOW-THRUST GRAVITY ASSIST TRAJECTORY OPTIMIZATION METHODS, WITH COMPARISONS TO A NOVEL, MULTI-IMPULSE DISCRETIZATION APPROACH

Joshua Fogel, University of Southern California, United States

IAC-15.C1.1.4

INITIAL AND FINAL BOUNDARIES TRANSFORMATION WHEN SOLVING OPTIMAL CONTROL PROBLEM WITH AVERAGING TECHNIQUES AND APPLICATION TO LOW THRUST ORBIT TRANSFER

Thierry Dargent, Thales Alenia Space France, France

IAC-15.C1.1.5

JOINT OPTIMIZATION OF THE LOW-THRUST TRAJECTORY AND THE MAIN DESIGN PARAMETERS OF ELECTRIC PROPULSION SYSTEM

Viacheslav Petukhov, RIAME, Russian Federation

IAC-15.C1.1.6 (withdrawn)

LOW THRUST MINIMUM FUEL OPTIMIZATION TO LIBRATION POINT ORBITS USING VARIABLE SPECIFIC IMPULSE ENGINE

Hao Zeng, School of Aerospace Engineering, Beijing Institute of Technology, China

IAC-15.C1.1.7

OPTIMAL CONTROL OF ELECTRIC PROPULSION SPACETAG FOR OPERATION OF THE NEAR LUNAR INFRASTRUCTURE

Olga Starinova, Samara State Aerospace University, Russian Federation

IAC-15.C1.1.8

LOW-THRUST TRAJECTORY DESIGN AND OPERATIONS OF PROCYON, THE FIRST DEEP-SPACE MICRO-SPACECRAFT

Stefano Campagnola, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.C1.1.9

OPTIMAL 3D LUNAR SOFT LANDING TRAJECTORY DESIGN AND PERFORMANCE EVALUATION OF EXPLICIT GUIDANCE LAWS

Remesh N, Vikram Sarabhai Space Centre (VSSC), India

IAC-15.C1.1.10

ASTEROID RETRIEVAL MISSIONS ENABLED BY INVARIANT MANIFOLD DYNAMICS

Joan Pau Sanchez Cuartielles, Cranfield University, United Kingdom

IAC-15.C1.1.11

TRAJECTORY OPTIONS FOR THE DART MISSION

Justin Atchison, The Johns Hopkins University Applied Physics Laboratory, United States

IAC-15.C1.1.12

TRAJECTORY OPTIONS FOR THE DART MISSION

Justin Atchison, The Johns Hopkins University Applied Physics Laboratory, United States

C1.2. Mission Design, Operations & Optimization (2)

October 13 2015, 09:45 — Teddy B

Co-Chair(s): Kathleen Howell, Purdue University, United States; Richard Epenoy, Centre National d'Etudes Spatiales (CNES), France;

IAC-15.C1.2.1

21ST JOHN V. BREAKWELL KEYNOTE LECTURE: RELATIVE MOTION

Kyle Alfriend, Texas A&M University, United States

IAC-15.C1.2.2

ORBITAL CONTROL OF GEOSTATIONARY SATELLITES – DEVELOPMENT OF AN AUTOMATED MANEUVERING PLANNING SYSTEM

Netanel Levi, Israel

IAC-15.C1.2.3

OPTIMIZATION DESIGN FOR A COMMUNICATION NANOSATELLITE CONSTELLATION

Danna Linn Barnett, Rafael Advanced Defense Systems Ltd., Israel

- IAC-15.C1.2.4**
RAPID TRAJECTORY DESIGN IN THE EARTH-MOON EPHEMERIS SYSTEM VIA AN INTERACTIVE CATALOG OF PERIODIC AND QUASI-PERIODIC ORBITS
Davide Guzzetti, Purdue University, United States
- IAC-15.C1.2.5 (withdrawn)**
OPTIMAL RENDEZVOUS IN CURVILINEAR COORDINATES
Juan Luis Gonzalo, Technical University of Madrid (UPM), Spain
- IAC-15.C1.2.6**
SOLAR SAILING WITH INVARIANT MANIFOLDS IN THE EARTH-SUN SYSTEM
Ariadna Farrés, University of Barcelona, Spain
- IAC-15.C1.2.7 (withdrawn)**
PHASING PROBLEM FOR SUN-EARTH HALO ORBIT TO LUNAR ENCOUNTER TRANSFERS
Hongru Chen, Kyushu University, Japan
- IAC-15.C1.2.8 (withdrawn)**
END-OF-LIFE EXTENSION OF L2 MISSIONS TO NEAR EARTH OBJECTS USING MANIFOLD DYNAMICS.
Daniel Garcia Yarnoz, University of Strathclyde/Advanced Space Concept Laboratory, United Kingdom
- IAC-15.C1.2.9**
AUTOMATIC PLANNING AND SCHEDULING OF ACTIVE REMOVAL OF NON-OPERATIONAL SATELLITES IN LOW EARTH ORBIT
Juan Manuel Romero Martin, University of Strathclyde, United Kingdom
- IAC-15.C1.2.10**
ORBIT TYPE SELECTION AND ORBIT KEEPING ANALYSES FOR RELAY SATELLITES AROUND THE EARTH-MOON L2
Fenglei Wu, Beijing Aerospace Control Center, China

C1.3. Orbital Dynamics (1)

- October 13 2015, 14:45 — Teddy B**
Co-Chair(s): Filippo Graziani , G.A.U.S.S. Srl, Italy; Shoji Yoshikawa , Mitsubishi Electric Corporation, Japan;
- IAC-15.C1.3.1**
COUPLED DYNAMICS ANALYSIS AROUND ASTEROIDS BY MEANS OF ACCURATE SHAPE AND PERTURBATIONS MODELING.
Andrea Colagrossi, Politecnico di Milano, Italy
- IAC-15.C1.3.2**
COMPLEXIFIED POTENTIALS AND STEADY ROTATIONS OF MUTUALLY GRAVITATING ASTEROID AND SPACECRAFT
Vasily Nikonov, Moscow Lomonosov State University, Russian Federation
- IAC-15.C1.3.3**
ESCAPE DYNAMICS IN THE SOLAR SYSTEM: APPLICATIONS TO SMALL BODIES MISSION WITH THE RTBP
Maisa Terra, Instituto Tecnológico de Aeronáutica (ITA), Brazil
- IAC-15.C1.3.4**
CONTROL MOVEMENT OF ELECTRIC PROPULSION SPACECRAFT IN IRREGULAR GRAVITATIONAL FIELD OF ASTEROID
Olga Starinova, Samara State Aerospace University, Russian Federation
- IAC-15.C1.3.5**
ON THE BOUNDED DYNAMICS OF A PROBE FLYING AROUND A COMET
Daniele Pagnozzi, University of Strathclyde, United Kingdom

- IAC-15.C1.3.6**
LONG TERM CAPTURE OF ASTEROIDS FOR RESOURCES AND SCIENTIFIC EXPLOITATION USING HYPERBOLIC OBJECTS IN THE SOLAR SYSTEM
Priscilla Sousa Silva, Instituto Tecnológico de Aeronáutica (ITA), Brazil
- IAC-15.C1.3.7**
LOW ENERGY TRANSFER STRATEGY TO EXPLORE A MULTI-BODY SYSTEM
Elbert E.N. Macau, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil
- IAC-15.C1.3.8**
A STUDY ON THE EFFECT OF SOLAR RADIATION PRESSURE ON THE STABILITY REGION NEAR THE EARTH-MOON TRIANGULAR POINTS
Marc Jorba-Cuscó, University of Barcelona, Spain
- IAC-15.C1.3.9**
MERCURY SUN-SYNCHRONOUS ORBITER WITH A SOLAR SAIL
Lei Lan, Tsinghua University, China
- IAC-15.C1.3.10**
PRECISE MODELLING OF SOLAR RADIATION ACCELERATIONS AND DISTURBANCE TORQUES ON MARS ORBITER MISSION (MOM)
Motamarri Srikanth, Isac, India
- IAC-15.C1.3.11**
BALLISTIC SCHEME SELECTION FOR MANEUVERING INSIDE A CONSTELLATION WITH CONTINUOUSLY CHANGING CONFIGURATION
Dmitriy Grishko, Bauman Moscow State Technical University, Russian Federation

C1.4. Orbital Dynamics (2)

- October 14 2015, 09:45 — Teddy B**
Co-Chair(s): Antonio Prado , INPE, Brazil; Josep J. Masdemont , Universitat Politècnica de Catalunya (UPC), Spain;
Rapporteur(s): Gwanghyeok Ju , Korea Aerospace Research Institute (KARI), Korea, Republic of;
- IAC-15.C1.4.1 (withdrawn)**
AN INVESTIGATION OF 3D PERIODIC ORBITS IN THE VICINITY OF ASTEROIDS WITH POLYHEDRAL MODEL
Yanshuo Ni, Tsinghua University, China
- IAC-15.C1.4.1**
INVARIANT MANIFOLD DYNAMICS VIA POLYHEDRAL REPRESENTATION
Mauro Pontani, University of Rome "La Sapienza", Italy
- IAC-15.C1.4.2**
LIE TRANSFORMATION METHOD APPLIED TO COLLINEAR EQUILIBRIUM SUBSTITUTES IN ELLIPTIC THREE-BODY PROBLEM
Hao Peng, Beihang University, China
- IAC-15.C1.4.3**
ON THE ADVANTAGES OF USING A STRICT HIERARCHY TO MODEL ASTRODYNAMICAL PROBLEMS
Diogene Alessandro Dei Tos, Politecnico di Milano, Italy
- IAC-15.C1.4.4**
THE INVESTIGATION OF MOTION IN ONE MODEL OF THE THREE-BODY PROBLEM
Alexandr Zlenko, Moscow , Russian Federation
- IAC-15.C1.4.5**
SEMI-ANALYTICAL PERTURBATIVE APPROACHES TO THIRD BODY RESONANT TRAJECTORIES
Joan Pau Sanchez Cuartielles, Cranfield University, United Kingdom

- IAC-15.C1.4.6**
INVARIANT MANIFOLD OF RELATIVE MOTION BETWEEN DISPLACED ORBITS
Wang Wei, College of Astronautics, Northwestern Polytechnical University, China
- IAC-15.C1.4.7 (withdrawn)**
INTERMEDIARY ORBIT PROPAGATION INCLUDING HIGHER ORDER ZONAL HARMONICS
Martin Lara , Spain
- IAC-15.C1.4.8**
GEO SATELLITES TRACKING USING OPTICAL OBSERVATIONS
Shai Kaspi, Asher Space Research Institute (ASRI), Israel
- IAC-15.C1.4.9**
AERO-GRAVITY POWERED MANEUVERS TO CHANGE THE INCLINATION OF A SPACECRAFT
Antonio Prado, National Institute for Space Research - INPE , Brazil
- IAC-15.C1.4.10**
RELATIVE ORBITAL MOTION OF A CHARGED OBJECT NEAR A SPACEBORNE RADially-DIRECTED ROTATING MAGNETIC DIPOLE
Chao Peng, Chinese Academy of Sciences, China
- IAC-15.C1.4.11**
ORBIT PREDICTIONS OF HIGH ECCENTRICITY SATELLITE ORBITS WITH LUNI-SOLAR EFFECTS USING KS ELEMENTS
Harishkumar Sellamuthu, Karunya University, India

C1.5. Attitude Dynamics (1)

- October 14 2015, 14:45 — Teddy B**
Co-Chair(s): Amalia Ercoli Finzi , Politecnico di Milano, Italy; Michael Yu Ovchinnikov , Keldysh Institute of Applied Mathematics, RAS, Russian Federation;
Rapporteur(s): Hao-Chi Chang , National Space Organization, Taiwan, China;
- IAC-15.C1.5.1**
NATURAL PERIODIC ORBIT-ATTITUDE BEHAVIORS FOR RIGID BODIES IN THREE-BODY PERIODIC ORBITS
Davide Guzzetti, Purdue University, United States
- IAC-15.C1.5.2**
ATTITUDE ESTIMATION AND CONTROL DESIGN FOR SINGLE STEERABLE SINGLE WING SATELLITE
Hao-Chi Chang, National Space Organization, Taiwan, China
- IAC-15.C1.5.3**
AN EFFICIENT MOMENTUM DUMPING METHOD THROUGH AN ALTERNATIVE SUN POINTING STRATEGY FOR SMALL NEAR EQUATORIAL ORBIT SATELLITE
Mihindukulasooriya Sheral Crescent Tissera, Nanyang Technological University, Rep. Of Singapore
- IAC-15.C1.5.4 (withdrawn)**
ROBUST OPTIMAL SUN-POINTING CONTROL OF A LARGE SOLAR POWER SATELLITE
Shunan Wu, Dalian University of Technology, China
- IAC-15.C1.5.5**
NONLINEAR H-INF VIA MODIFIED RODRIGUES PARAMETERS FOR ATTITUDE CONTROL IN THE REUSE OF RETIRED SPACECRAFT ANTENNA
Xiaoyu Lang, Research Center of Satellite Technology, Harbin Institute of Technology, China
- IAC-15.C1.5.6**
ATTITUDE DETERMINATION FOR THE UNISAT-6 MICROSATELLITE
Simone Battistini, Universidade de Brasília, Brazil

- IAC-15.C1.5.7**
ON THE ROTATIONAL CUCKER-SMALE MODEL: OPTIMAL FORMATION CONFIGURATION AND ADAPTIVE GAINS DESIGN
Fabrizio Paita, Universitat Politècnica de Catalunya (UPC), Spain
- IAC-15.C1.5.8**
MULTI-PENDULUM MODELING OF PROPELLANT SLOSHING VIA PARAMETER OPTIMIZATION
Dong-yeon Lee, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of
- IAC-15.C1.5.9**
COUPLED ATTITUDE-ORBIT DYNAMIC MODELING OF HIGH AREA-TO-MASS SPACECRAFT AND SIGNIFICANCE ANALYSIS OF PERTURBATION FACTORS
Zhongjing Ren, National Key Laboratory of Aerospace Flight Dynamics, Northwestern Polytechnical University, Xi'an, China
- IAC-15.C1.5.10**
DETERMINING HIGH RATE ANGULAR VELOCITY FROM STAR TRACKER MEASUREMENTS
Fabio Curti, Sapienza - University of Rome, Italy
- IAC-15.C1.5.11**
ADAPTIVE ATTITUDE CONTROL FOR SPACECRAFT WITH UNKNOWN DEAD-ZONE OF THRUSTER
LI DONGBAI, Research Center of Satellite Technology, Harbin Institute of Technology, China

C1.6. Attitude Dynamics (2)

- October 15 2015, 09:45 — Teddy B**
Co-Chair(s): Paolo Teofilatto , University of Rome "La Sapienza", Italy; Simei Ji , Beijing Institute of Technology, China;
Rapporteur(s): YongChun Xie , Beijing Institute of Control Engineering, China;
- IAC-15.C1.6.1**
ABSOLUTE ATTITUDE DETERMINATION SYSTEM FOR A SPHERICAL AIR BEARING TESTBED
David Bamber, Surrey Space Centre, University of Surrey, United Kingdom
- IAC-15.C1.6.2 (withdrawn)**
ATTITUDE CONTROL OF AN AGGREGATED MODULAR SPACECRAFT WITH MOMENTUM REACTION SPHERE ACTUATORS
Chunshi FAN, China Academy of Space Technology (CAST), China
- IAC-15.C1.6.3**
EQUILIBRIUM CONFIGURATIONS FOR ATTITUDE AND ORBITAL CONTROL BY TETHER SYSTEM.
Denilson Paulo Souza dos Santos, Instituto Nacional de Pesquisas Espaciais - INPE (Brasil) \ Centre for Mechanical and Aerospace Science and Technologies (C-MAST), Portugal, Brazil
- IAC-15.C1.6.4**
MODELING AND DYNAMICS OF VARIABLE MASS TETHERED SYSTEM WITH CHEMICAL PROPULSION
Liang Sun, Beihang University, China
- IAC-15.C1.6.5**
ANALYSIS AND EXPERIMENTS FOR A SYSTEM OF TWO SPACECRAFT PAIRED BY MEANS OF A FLEXIBLE LINK
Marco Sabatini, Università di Roma "La Sapienza", Italy
- IAC-15.C1.6.6**
CHAOTIC BEHAVIOR OF A PASSIVE SATELLITE DURING TOWING BY A TETHER
Vladimir S. Aslanov, Samara State Aerospace University, Russian Federation

IAC-15.C1.6.7 (withdrawn)

RESEARCH ON NOVEL INTEGRATED RUDDER ACTUATION SYSTEM FOR SPACECRAFT REENTRY AERODYNAMIC CONTROL BASED ON DOUBLE DIGITAL CLOSED CHANNELS OF POWER MANAGEMENT AND LOAD DAMPING
Yuxuan Wang, China Academy of Launch Vehicle Technology, China

IAC-15.C1.6.8

AN ANGULAR MOMENTUM RING STORAGE DEVICE PROTOTYPE FOR CUBESATS BASED ON A LIQUID METAL ACTUATOR
Sebastian Grau, Technische Universität Berlin, Germany

IAC-15.C1.6.9

DYNAMIC MODELING AND CONTROL SIMULATION OF THE CABIN TRANSFERRING ASSISTED BY MANIPULATOR FOR THE CHINA SPACE STATION
Dongming Ge, China Academy of Space Technology (CAST), China

IAC-15.C1.6.10

SPACECRAFT ATTITUDE AND TOTAL POWER OPTIMAL CONTROL WITH REDUNDANT DOUBLE-GIMBAL VARIABLE-SPEED CONTROL MOMENT GYROSCOPES
Takahiro Sasaki, Osaka Prefecture University, Japan

IAC-15.C1.6.11

LINK LOSS RECOVERY STRATEGY USING SUN SENSOR AND BEACON SIGNAL IN MARS ORBITER MISSION
Ritu Karidhal, ISRO Satellite Centre (ISAC), India

C1.7. Guidance, Navigation and Control (1)

October 15 2015, 14:45 — Teddy B

Co-Chair(s): Igor V. Belokonov, Samara State Aerospace University, Russian Federation; James O'Donnell, National Aeronautics and Space Administration (NASA)/Goddard Space Flight Center, United States;

IAC-15.C1.7.1

MODEL ESTIMATION USING HOVERING SATELLITES ABOUT ASTEROIDS
Nicola Baresi, United States

IAC-15.C1.7.2

ENERGY-BASED AUTONOMOUS CONTROL LAWS FOR BODY-FIXED HOVERING AND ORBITAL MAINTENANCE IN PROXIMITY OF UNIFORMLY ROTATING ASTEROIDS
Andrea Turconi, Surrey Space Centre, University of Surrey, United Kingdom

IAC-15.C1.7.3

APPLICATION OF OPTICAL NAVIGATION IN CHANG'E-5T1 MISSION
Peng Zhang, Beijing Aerospace Control Center, China

IAC-15.C1.7.4

AUTONOMOUS ORBIT NAVIGATION FOR A MISSION TO THE ASTEROID MAIN BELT
Graciela González Peytaví, Bundeswehr Universität München, Germany

IAC-15.C1.7.5

RECOVERY OF LUNAR LIBRATION POINT MISSIONS IN CASE OF CONTINGENCY CORRECTION MANEUVER DELAY
Mikhail Ovchinnikov, Keldysh Institute of Applied Mathematics, RAS, Russian Federation

IAC-15.C1.7.6

OPTIMIZATION OF THREE DIMENSIONAL TRAJECTORY USING LEGENDRE PSEUDO-SPECTRAL METHOD FOR LUNAR SOFT LANDING
S Mathavaraj, ISRO Satellite Centre (ISAC), India

IAC-15.C1.7.7

AUTONOMOUS GUIDANCE AND CONTROL ALGORITHM FOR LUNAR LANDING WITH HAZARD AVOIDANCE
Fabio Curti, Sapienza - University of Rome, Italy

IAC-15.C1.7.8

MODEL PREDICTIVE CONTROL FOR RELATIVE GNC DURING PLANETARY SAMPLE CANISTER RENDEZ-VOUS AND CAPTURE PHASE
Michèle Lavagna, Politecnico di Milano, Italy

IAC-15.C1.7.9

CONTROL OF A TETHER DEPLOYMENT SYSTEM FOR DELIVERY OF A RE-ENTRY CAPSULE
Vladimir S. Aslanov, Samara State Aerospace University, Russian Federation

IAC-15.C1.7.10

ESTIMATION ERROR LOWER BOUND ANALYSIS FOR MARS ENTRY NAVIGATION
Zhengshi Yu, School of Aerospace Engineering, Beijing Institute of Technology, China

IAC-15.C1.7.11

MARS ORBITER MISSION'S JOURNEY TO RED PLANET - PRECISE ORBIT ESTIMATION DURING EARTH AND HELIOCENTRIC PHASE
Anatta Sonney, ISRO Satellite Centre (ISAC), ISRO, India

C1.8. Guidance, Navigation & Control (2)

October 16 2015, 09:45 — Teddy B

Co-Chair(s): Bernhard Lübke-Ossenbeck, OHB System AG-Bremen, Germany; Daniel Scheeres, University of Colorado, United States;
Rapporteur(s): Fuyuto Terui, Japan Aerospace Exploration Agency (JAXA), Japan;

IAC-15.C1.8.1

LOW THRUST AUGMENTED SPACECRAFT FORMATION FLYING FOR ON-ORBIT INSPECTION
Callum S. Arnot, University of Strathclyde, United Kingdom

IAC-15.C1.8.2

DESIGN OF SLIDING MODE CONTROLLERS FOR FORMATION FLYING ALONG UNSTABLE PERIODIC ORBITS IN CR3BP
Hamidreza Nematy, Kyushu University, Japan

IAC-15.C1.8.3

AN INVERSE DYNAMICS APPROACH TO THE GUIDANCE OF SPACECRAFT IN CLOSE PROXIMITY OF TUMBLING DEBRIS
Albert Caubet, University of Strathclyde, United Kingdom

IAC-15.C1.8.4

DEVELOPMENT OF SATELLITE CLUSTER FLIGHT ALGORITHMS UNDER THRUSTING ERRORS
Michal Jashinski, Technion - Israel Institute of Technology, Israel

IAC-15.C1.8.5

APPROXIMATE SEMI-ANALYTICAL OPTIMAL RECONFIGURATION CONTROL FOR NONLINEAR RELATIVE MOTION
Jing Cao, State Key Laboratory of Astronautic Dynamics, Xi'an Satellite Control Center Weinan TT&C Station, China

IAC-15.C1.8.6

ROBUST MEASUREMENT PLANNING FOR RELATIVE ATTITUDE AND ORBIT ESTIMATION IN SATELLITE FORMATION FLYING
Daniel Choukroun, Ben-Gurion University of the Negev, Israel

IAC-15.C1.8.7

OPTIMIZED LOW-THRUST RECONFIGURATION MANEUVERS FOR SPACECRAFT FORMATION VIA THE ADAPTED FINITE ELEMENT METHODOLOGY
Yanchao He, School of Astronautics, Beihang University, China

IAC-15.C1.8.8

NONLINEAR LYAPUNOV-BASED COOPERATIVE CONTROL FOR MULTIPLE SATELLITES
Hao Zhang, TECHNION - Israel Institute of Technology, Israel

IAC-15.C1.8.9

OPTIMAL LOW-THRUST SPIRAL TRAJECTORIES USING LYAPUNOV-BASED GUIDANCE
Yang Dalin, Nanjing University of Aeronautics and Astronautics, China

IAC-15.C1.8.10

DIFFERENTIAL-DRAG ALGORITHMS FOR SATELLITE CLUSTER FLIGHT IN THE SAMSON MISSION
Ohad Ben-Yaacov, Asher Space Research Institute, Technion, I.I.T., Israel

IAC-15.C1.8.11

VISUAL TRAJECTORY RECONSTRUCTION OF A CUBESAT AFTER DEPLOYMENT
Jean-Sébastien Ardaens, German Aerospace Center (DLR), Germany

C1.9. Guidance, Navigation & Control (3)

October 16 2015, 13:30 — Teddy B

Co-Chair(s): Arun Misra, McGill University, Canada; Benedicte Escudier, Institut Supérieur de l'Aéronautique et de l'Espace (ISAE), France;

IAC-15.C1.9.1

APPLICATION OF GAUSS' VARIATIONAL EQUATIONS TO RELATIVE ORBIT PHASING AND ACQUISITION - A CASE STUDY
Josh Newman, Space Flight Laboratory, University of Toronto, Canada

IAC-15.C1.9.2

OPTIMAL STATION KEEPING BY ELECTRIC PROPULSION IN FAILURE MODE
Shuge Zhao, Beijing Institute of Technology, China

IAC-15.C1.9.3 (withdrawn)

SPACECRAFT ATTITUDE CONTROL DESIGN USING PENALTY FUNCTION
Manoranjan Sinha, IIT-Kharagpur, India

IAC-15.C1.9.4

DESIGN OF A RECONFIGURABLE SATELLITE CONSTELLATION
Ciara McGrath, University of Strathclyde/Advanced Space Concepts Laboratory, United Kingdom

IAC-15.C1.9.5

A MIXED H-INFINITY-GUARDIAN MAPS DESIGN APPROACH FOR THE AUTOMATIC FLIGHT CONTROL SYSTEM OF LAUNCH VEHICLES
Adrian-Mihail Stoica, University POLITEHNICA of Bucharest - Research Center for Aeronautics and Space, Romania

IAC-15.C1.9.6 (withdrawn)

ATTITUDE AND POSITION TRACKING OF A SPACECRAFT WITHOUT VELOCITY MEASUREMENT
Haichao Gui, York University, Canada

IAC-15.C1.9.7

FLIGHT RESULT OF THE ATTITUDE DETERMINATION USING SMALL SATELLITE ON-BOARD CMOS CAMERA IMAGE
Chisato Sekigawa, Japan

IAC-15.C1.9.8

THE GEODETIC VLBI EXPERIMENT OF THE CHINESE VLBI NETWORK BEFORE CHINESE CHANG'E5-T1 LUNAR EXPLORATION MISSION
Dezhen XU, Beijing Institute of Tracking and Telecommunication Technology, China

IAC-15.C1.9.9

COUPLED ORBIT-ATTITUDE CONTROL OF A HIGH AREA-TO-MASS RATIO SATELLITE
Yafei Zhao, Harbin Institute of Technology, China

IAC-15.C1.9.10

RADIO PULSAR NAVIGATION METHOD BASED ON SYNTHETIC APERTURE AND SPACECRAFT FORMATION TECHNOLOGY
Yu Liu, Shanghai Institute of Spaceflight Control Technology, China

IAC-15.C1.9.11

ADAPTIVE FAULT-TOLERANT COULOMBIC SATELLITE ATTITUDE CONTROL
Manoranjan Sinha, IIT-Kharagpur, India

C1.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Alfred Ng, Canadian Space Agency, Canada; Anna Guerman, Centre for Mechanical and Aerospace Science and Technologies (C-MAST), Portugal;

IAC-15.C1.IP.2

AN IMPROVED SHAPE-BASED METHOD USING FOURIER SERIES FOR LOW-THRUST ORBIT DESIGN
Xuefeng Wang, Northwestern Polytechnical University, China

IAC-15.C1.IP.3

GUIDE STAR CATALOG FOR SATELLITE ATTITUDE ESTIMATION
Ivan Kruzhilov, Russian Federation

IAC-15.C1.IP.4

DYNAMICS OF ORBITS FOR SPACE MISSIONS TAKING INTO ACCOUNT A DISTURBING BODY IN AN ELLIPTICAL-INCLINED ORBIT: APPLICATIONS TO PLANETARY MOONS
Josué Cardoso dos Santos, São Paulo State University - Universidade Estadual Paulista (UNESP), Brazil

IAC-15.C1.IP.5 (withdrawn)

SHORTER ROTATION PATH DESIGN IN UNDER-ACTUATED WHEEL SPACECRAFT
Hwa-Suk Oh, Korea Aerospace University, Korea, Republic of

IAC-15.C1.IP.6 (withdrawn)

MODELING AND DIRECT ADAPTIVE CONTROL OF A MANIPULATOR WITH VARIABLE-SPEED CONTROL MOMENT GYROSCOPES
Shiyuan Jia, Beihang University, China

IAC-15.C1.IP.7 (withdrawn)

STUDY ON THE SYSTEM OF A NOVEL SPACE BORNE ULTRA-QUIET PLATFORM OF DOUBLE DRAG-FREE BASED ON THE ELECTROSTATIC LEVITATION
DA FAN, China Academy of Space Technology (CAST), China

IAC-15.C1.IP.8

A GROUND ATTITUDE ANALYSIS METHOD OF THE LEO SATELLITE EMPLOYING LARGE-SCALE ROTATING INSTRUMENTS
Jie Liu, China Academy of Space Technology (CAST), China

IAC-15.C1.IP.9

CONSTRAINTS HANDLING METHOD IN INDIRECT TRAJECTORY OPTIMIZATION FOR MANNED ASTEROID EXPLORATION
Anyi Huang, State Key Laboratory of Astronautic Dynamics (ADL), affiliated to Xi'an Satellite Control Center, Xi'an, China

IAC-15.C1.IP.11

IMPLEMENTATION, TESTS AND CHARACTERIZATION RESULTS FOR CUBESAT ADCS
Stefano Rossi, Swiss Space Center, Switzerland

IAC-15.C1.IP.12

A NOVEL ATTITUDE QUATERNION FILTER FOR THE ESA EUROPEAN STUDENT EARTH ORBITER (ESEO)
Martijn Geers, Technical University Delft, Faculty of Aerospace Engineering, The Netherlands

IAC-15.C1.IP.13

ATTITUDE STABILIZATION CONTROLLER FOR UNDERATUATED SPACECRAFTS BASED ON HIERARCHICAL ADAPTIVE SLIDING-MODE CONTROL

Li Weiming, Shandong Aerospace Electro-technology Institute, China

IAC-15.C1.IP.14

USEFUL ALTERNATIVE PARAMETERIZATION OF AN ORBITAL STATE VECTOR WITH APPLICATION TO FORMATIONS OF LEO SATELLITES

Eran Rosenthal, IAI MBT Space, Israel

IAC-15.C1.IP.15

A MONOCULAR-BASED RELATIVE POSITION AND ATTITUDE FILTERING FOR UNKNOWN TARGETS

Liang Song, China Academy of Space Technology (CAST), China

IAC-15.C1.IP.16 (withdrawn)

ANALYTIC PARAMETRISATION OF PERIODIC ORBITS AROUND THE ROTATIONAL EQUILIBRIA OF AN ASTEROID PERTURBED BY SUN GRAVITY AND RADIATION PRESSURE

Marta Ceccaroni, University of Roma "Tor Vergata", Italy

IAC-15.C1.IP.17

RELATIVE ORBITAL MOTION ANALYSIS USING DUAL LIE ALGEBRA REPRESENTATIONS

Daniel Condurache, Technical University of Iasi, Romania

IAC-15.C1.IP.18 (withdrawn)

PANGU-4 SIMULATION TOOL FOR THE TESTING OF VISION-BASED NAVIGATION FOR PLANETARY LANDERS

Steve Parkes, University of Dundee, United Kingdom

IAC-15.C1.IP.19

ROBUST CONTROL AND DOUBLE FLEXIBLE VIBRATION ACTIVE SUPPRESSION OF SPACE ROBOT WITH FLEXIBLE-LINK AND FLEXIBLE JOINT THAT USED IN SPACE STATION

Jie Liang, , China

IAC-15.C1.IP.20

THE HOMOCLINIC AND HETEROCLINIC CONNECTIONS OF PLANAR SYMMETRIC RESONANT ORBITS IN THE RESTRICTED THREE-BODY EARTH-MOON SYSTEM

Chao Peng, Chinese Academy of Sciences, China

IAC-15.C1.IP.21

COMPACT FINITE-DIFFERENCE METHOD FOR PLANETARY FLYBY ORBIT DESIGN

An-Ming Wu, National Space Organization, Taiwan, China

C2. MATERIALS AND STRUCTURES SYMPOSIUM

Coordinator(s): *Constantinos P. Stavrinidis, European Space Agency (ESA), The Netherlands; Pavel M. Trivailo, RMIT University, Australia, Australia;*

C2.1. Space Structures I - Development and Verification (Space Vehicles and Components)

October 12 2015, 15:15 — Oranim 1

Co-Chair(s): *Alwin Eisenmann, IABG Industrieanlagen - Betriebsgesellschaft mbH, Germany; Andreas Rittweger, DLR (German Aerospace Center), Germany;*

Rapporteur(s): *Jochen Albus, Airbus DS GmbH, Germany;*

IAC-15.C2.1.1

CRONUS – SANDWICH COMMON BULKHEAD TANK DEMONSTRATOR

Carina Ludwig, MT Aerospace AG, Germany

IAC-15.C2.1.2

ASSESSMENT ON THE FAILURE OBSERVED IN A LIQUID FUEL TANK IN AN ABORTED MISSION OF A GEOSYNCHRONOUS VEHICLE

B Kiran Kumar, Indian Space Research Organization (ISRO), India

IAC-15.C2.1.3

THE EQUIVALENT MECHANICAL MODEL FOR SOLVING SPACECRAFT LARGE AMPLITUDE LIQUID SLOSHING PROBLEM

Shiping Xing, National Key Laboratory of Aerospace Flight Dynamics, Northwestern Polytechnical University, Xi'an, China

IAC-15.C2.1.4

A THEORETICAL STUDY ON THE STRUCTURAL LOADS ON THE IGNITER HARDWARE OF LARGE SOLID BOOSTERS AND PROOF PRESSURE TESTING ADEQUACY

Yezhil Arasu, Vikram Sarabhai Space Centre (VSSC), India

IAC-15.C2.1.5

DESIGN APPROACH ADOPTED FOR ENSURING THE STRUCTURAL INTEGRITY OF A HYDRAULIC LINE ASSEMBLY ALONG THE SOLID ROCKET MOTOR FOR A REUSABLE LAUNCH VEHICLE TECHNOLOGY DEMONSTRATION MISSION

Thomas Kurian, Indian Space Research Organization (ISRO), India

IAC-15.C2.1.6 (withdrawn)

SIZING OF THE SANDWICH DOMINATED STRUCTURE OF THE GOSSAMER-1 BOOM AND SAIL DEPLOYMENT UNIT USING ANSYS SOLIDSHHELL ELEMENTS

Johannes Boblenz, Deutsches Zentrum fuer Luft- und Raumfahrt (DLR), Germany

IAC-15.C2.1.7

DESIGN, SIMULATION AND ANALYSIS OF CARBON-FIBER COMPOSITE AND ALUMINUM HONEYCOMB ROCKET FINS USING FLUID-STRUCTURE INTERACTION FOR FLUTTER ANALYSIS

Neil Woodcock, Concordia University, Canada

IAC-15.C2.1.8

THERMAL AND MECHANICAL DESIGN AND TEST CAMPAIGN RESULTS OF A SINGLE-PIECE STRUCTURE FOR THE URSA MAIOR NANOSATELLITE

Lorenzo Arena, University of Rome "La Sapienza", Italy

IAC-15.C2.1.9

THERMAL ENVIRONMENT GENERATION AND VERIFICATION FOR ON-GROUND TESTING OF LAUNCH VEHICLE'S FAIRING

Lingling CAO, Shanghai Academy of Spaceflight Technology, China

IAC-15.C2.1.10

SPACE QUALIFICATION TESTS PERFORMED BY CIRA ON THE ALTA HALL EFFECT ELECTRIC THRUSTER HT100D

Vincenzo Quaranta, CIRA Italian Aerospace Research Center, Capua, Italy

IAC-15.C2.1.11

OPTIMIZING 3-COMPONENT FORCE SENSOR INSTALLATION FOR SATELLITE FORCE LIMITED VIBRATION TESTING

Carmine Salzano, , United States

IAC-15.C2.1.12

CREATING A RANDOM VIBRATION COMPONENT TEST SPECIFICATION FOR STSAT (SCIENCE AND TECHNOLOGY SATELLITE)

Talgat Khamitov, JSC «National Company «Kazakhstan Gharysh Sapary», Kazakhstan

C2.2. Space Structures II - Development and Verification (Deployable and Dimensionally Stable Structures)

October 13 2015, 09:45 — Oranim 1

Co-Chair(s): *Jean-Alain Massoni, Thales Alenia Space France, France; Paolo Gasbarri, Università di Roma "La Sapienza", Italy;*
Rapporteur(s): *Pierre Rochus, CSL (Centre Spatial de Liège), Belgium;*

IAC-15.C2.2.1

DESIGN AND ANALYSIS OF A COMPOSITE SANDWICH SOLAR ARRAY STRUCTURE FOR THE EU:CROPIS COMPACT SATELLITE WITH AS FEW RELEASE MECHANISMS AS POSSIBLE

Thilo Glaser, German Aerospace Center (DLR), Germany

IAC-15.C2.2.2

DEVELOPMENT OF CALCULATION MODEL OF LARGE-SIZE THERMO-DIMENSIONALLY STABLE STRUCTURE OF COMPOSITE MATERIALS

Serhii Kushnirenko, Yuzhnoye State Design Office, Ukraine

IAC-15.C2.2.3 (withdrawn)

DEVELOPMENT OF ELASTIC FORCES MODEL FOR HIGH AREA-TO-MASS RATIO FLEXIBLE SPACECRAFT

Dayu ZHANG, National Key Laboratory of Aerospace Flight Dynamics, Northwestern Polytechnical University, Xi'an,, China

IAC-15.C2.2.4

ENVIRONMENTAL TESTING AND ANALYSIS OF A BOOM DEPLOYMENT MECHANISM FOR GOSSAMER-2

Sebastian Meyer, German Aerospace Center (DLR), Germany

IAC-15.C2.2.5

DEPLOYMENT AND POST GRASPING ISSUES FOR A LIGHT WEIGHT ROBOTIC ARM MOUNTED ON A SMALL SPACE-SERVICES

Paolo Gasbarri, Università di Roma "La Sapienza", Italy

IAC-15.C2.2.6

MECHANICAL CHARACTERIZATION OF DEPLOYABLE THIN SHELL CFRP-BOOMS FOR THE CUBESAT "DE-ORBIT SAIL"

Martin Zander, Deutsches Zentrum fuer Luft- und Raumfahrt (DLR), Germany

IAC-15.C2.2.7

ASTROTUBE MAX: THE DEVELOPMENT AND TESTING OF A LOW MASS EXTENDIBLE CFRP TELESCOPIC BOOM FOR SATELLITE APPLICATIONS.

Mike Lawton, , United Kingdom

IAC-15.C2.2.8

USE OF COMPOSITE MATERIALS BASED ON CYANATE ESTER RESINS FOR MANUFACTURE OF SPACE QUALIFIED STRUCTURES WITH HIGH DIMENSIONAL STABILITY

Gabriel Szejer, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.C2.2.9

GROUND TESTING OF A 8-METER 4-QUADRANT SCALABLE SOLAR SAIL

Xinghua Zhang, Qian Xuesen Laboratory of Space Technology, China

IAC-15.C2.2.10

THERMAL DEFORMATION ON LASER RETRO-REFLECTORS OF LARES SATELLITE

Antonio Paolozzi, University of Rome "La Sapienza", Italy

IAC-15.C2.2.11

MODEL AND ANALYSIS OF BI-HOOP CIRCULAR DEPLOYABLE TRUSS

Minger Wu, Tongji University, China

C2.3. Space Structures - Dynamics and Microdynamics

October 13 2015, 14:45 — Oranim 1

Co-Chair(s): *Ijar M. Da Fonseca, ITA-DCTA, Brazil; Peter M. Bainum, Howard University, United States;*

Rapporteur(s): *Harijono Djojodihardjo, Indonesia;*

IAC-15.C2.3.1

VIBRATION CONTROL ANALYSIS AND GENETIC ALGORITHM OPTIMIZATION OF A PIEZOELECTRIC ELEMENTS BONDED STRUCTURE SUBJECT TO IMPACT

Harijono Djojodihardjo, , Indonesia

IAC-15.C2.3.2

INNOVATIVE VISCOELASTIC DAMPER SELECTION STRATEGY BASED ON DMA AND MINI-SHAKER TESTS FOR SPACECRAFT APPLICATIONS

Benjamin Kawak, Surrey Space Centre - University of Surrey, United Kingdom

IAC-15.C2.3.3

THE STUDY OF POINTING ACCRACY EVALUATION METHOD FOR HIGH PRECISE OBSERVATION SATELLITE

Osamu Takahara, Mitsubishi Electric Corporation, Japan

IAC-15.C2.3.4

DEVELOPMENT OF AN EFFICIENT ANALYSER FOR MICRO-VIBRATION DISTURBANCES EMANATING FROM SPINNING ACTUATORS

Adelia Drego, Royal Inst. of Technology (KTH), Sweden

IAC-15.C2.3.5

STUDY THE INFLUENCE OF WIND ON THE DYNAMICS OF ANGULAR MOTION THE LANDING VEHICLE WITH AN INFLATABLE BRAKING DEVICE ON THE FINAL PHASE OF TRAJECTORY

Vsevolod Koryanov, Bauman Moscow State Technical University, Russian Federation

IAC-15.C2.3.6

DYNAMIC MODELLING AND CONTROL OF A FLEXIBLE SPACECRAFT WITH FUEL SLOSH

Paolo Gasbarri, Università di Roma "La Sapienza", Italy

IAC-15.C2.3.7

ATTITUDE DYNAMICS AND CONTROL OF A SPACECRAFT LIKE A ROBOTIC MANIPULATOR WHEN IMPLEMENTING ON-ORBIT SERVICING

Ijar M. Da Fonseca, ITA-DCTA, Brazil

IAC-15.C2.3.8 (withdrawn)

INFLUENCE ANALYSIS OF THE IMPACTS AND FRICTIONS OF THE JOINTS OF THE VIBRATION ISOLATION PLATFORM FOR CONTROL MOMENT GYROSCOPE

Zixi Guo, Beijing Institute of technology(BIT), China

IAC-15.C2.3.9

DAMPING MEASUREMENT AND DEFORMATION VALIDATION OF FLEXIBLE, HIGH AREA-TO-MASS RATIO DEBRIS MODEL

Sittiporn Channumsin, School of Engineering, University of Glasgow, United Kingdom

IAC-15.C2.3.10

THRUST DEGRADATION EFFECT RESEARCH ON NON-IDEAL CONFIGURATION OF SOLAR SAIL BASED ON TIME-VARIANT SOLAR PRESSURE MODEL

Chen Yang, Qian Xuesen Laboratory of Space Technology, China

IAC-15.C2.3.11

HYBRID-TRAJECTORY BASED AUGMENTED ADAPTIVE CONTROL OF FREE-FLOATING FLEXIBLE SPACE MANIPULATOR

Xiaoyan Yu, Fuzhou University, China

IAC-15.C2.3.12

METHODS AND MODELS IN DYNAMICS OF STABILIZATION, ORIENTATION AND NAVIGATION SYSTEMS

Lyudmila Kuzmina, Kazan National Research Technical University, Russian Federation

C2.4. Advanced Materials and Structures for High Temperature Applications

October 14 2015, 09:45 — Oranim 1

Co-Chair(s): *David E. Glass, National Aeronautics and Space Administration (NASA), United States; Marc Lacoste, Herakles (Safran group), France;*

Rapporteur(s): *Zijun Hu, China Academy of Launch Vehicle Technology, China;*

IAC-15.C2.4.1

5TH PAOLO SANTINI MEMORIAL LECTURE: INVERSE METHODS IN IDENTIFICATION AND MODELING OF THERMAL PROCESSES IN AEROSPACE MATERIALS AND STRUCTURES: THEORY AND PRACTICE
Oleg Alifanov, Moscow Aviation Institute, Russian Federation

IAC-15.C2.4.2

ROLE OF EFFECTIVE ABLATIVE MATERIALS IN THE HEAT SHIELD OF ROCKETS
Shridutta Banerjee, , India

IAC-15.C2.4.3

PREDICTING METHODS OF HIGH TEMPERATURE PERFORMANCE FOR REUSABLE LAUNCH VEHICLE THERMAL PROTECTION MATERIALS
Ai Bang cheng, , China

IAC-15.C2.4.4

PROPERTIES OF CARBON AND SIC FOAM AS THERMAL INSULATOR FOR SPACE THERMAL PROTECTION SYSTEMS.
Marta Albano, University of Rome "La Sapienza", Italy

IAC-15.C2.4.5

PROPERTIES OF C/C-SIC COMPOSITES USED AS SPACE MATERIALS
Kunjie Wang, Xi'an Aerospace Composites Research Institute, China

IAC-15.C2.4.6

THERMO-CHEMICAL ABLATION MECHANISM OF EPDM INTERNAL INSULATOR
Wenli Wang, , China

IAC-15.C2.4.7 (withdrawn)

THERMO-CHEMICAL ABLATION CHARACTERISTICS OF SILICONE RUBBER BASED INSULATOR
Wei Zhang, National University of Defense Technology, China

IAC-15.C2.4.8

UNIVERSITY OF KENTUCKY PLASMA DIAGNOSTIC FACILITIES FOR THE INVESTIGATION OF GAS-SURFACE INTERACTIONS
Bradley Butler, University of Kentucky, United States

C2.5. Smart Materials and Adaptive Structures

October 14 2015, 14:45 — Oranim 1

Co-Chair(s): Hiroshi Furuya , Tokyo Institute of Technology, Japan; Pavel M. Trivailo , RMIT University, Australia, Australia;
Rapporteur(s): Paolo Gaudenzi , University of Rome "La Sapienza", Italy;

IAC-15.C2.5.1

OPTIMAL PARALLEL/SERIES CONNECTION OF MULTIPLE PIEZOELECTRIC PATCHES AND INDUCTORS FOR SSDI VIBRATION SUPPRESSION
Shigeru Shimose, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.C2.5.2

NUMERICAL SIMULATIONS AND EXPERIMENTAL TESTS RESULTS ON A SMART CONTROL SYSTEM FOR MEMBRANE STRUCTURES
Laura Bettioli, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.C2.5.3

STRUCTURAL HEALTH MONITORING DURING SUBORBITAL SPACE FLIGHT
Andrei Zagrai, New Mexico Tech, United States

IAC-15.C2.5.4

GUIDED WAVE AND ACTIVE SENSOR NETWORK BASED DAMAGE EVALUATION FOR DEEP SPACE PROBES
Xi Lu, Shanghai key laboratory of deep space exploration technology, China

IAC-15.C2.5.5

COMPOSITE STRUCTURE OF A CUBESAT SATELLITE WITH EMBEDDED SENSORS FOR STRUCTURAL MONITORING EXPERIMENT
Luca Lampani, University of Rome "La Sapienza", Italy

IAC-15.C2.5.6

COST-EFFECTIVE APERTURE WITH DEFORMABLE MIRROR FOR IMAGING SATELLITES
Brij Agrawal, Naval Postgraduate School, United States

IAC-15.C2.5.7

APPLICATION OF WAVELET PACKET TRANSFORM IN A DAMAGE PATTERN RECOGNITION PROCEDURE FOR COMPOSITE BEAMS AND TRUSS-TYPE ALUMINUM STRUCTURES
Davide Nardi, University of Rome "La Sapienza", Italy

IAC-15.C2.5.8

SPACE ANTENNA STRUCTURE VIBRATION SUPPRESSION VIA A NOVEL ELECTROMAGNET SHUNT DAMPING METHOD
Bo Yan, , China

IAC-15.C2.5.9

PSEUDOELASTIC SMA MESH WASHER GEAR WITH MICRO-JITTER ATTENUATION CAPABILITY FOR STEPPER ACTUATED MECHANISM
Seong-Cheol Kwon, Chosun University, Korea, Republic of

IAC-15.C2.5.10

SIMULATION ANALYSIS OF MATERIAL AND STRUCTURE OPTIMIZATION ON PHASE CHANGE THERMAL CONTROL OF SPACECRAFT ELECTRONIC EQUIPMENT
Ke Jin, Aerospace research institute of materials and processing technology (ARIMPT), China

C2.6. Space Environmental Effects and Spacecraft Protection

October 15 2015, 09:45 — Oranim 1

Co-Chair(s): Giuliano Marino , CIRA Italian Aerospace Research Centre, Italy;
Rapporteur(s): Anatolii Lohvynenko , Yuzhnoye State Design Office, Ukraine;

IAC-15.C2.6.1

SPACE RADIATION HARDNESS ASSURANCE OF A SATELLITE WITH THE USE OF PROTECTIVE MATERIALS SPACE RADIATION HARDNESS ASSURANCE OF A SATELLITE WITH THE USE OF PROTECTIVE MATERIALS
Oleg Dotsenko, Yuzhnoye State Design Office, Ukraine

IAC-15.C2.6.2

HEAT FLUX SENSOR FOR SPACECRAFT CHARGING THERMAL PROTECTION
Aleksy V. Nenarokomov, Moscow Aviation Institute, Russian Federation

IAC-15.C2.6.3

ATOMIC OXYGEN EXPOSURE TESTING OF NOVEL LAYERED POSS THERMOSET NANOCOMPOSITES
Jessica Piness, University of Southern Mississippi, United States

IAC-15.C2.6.4

ROBISAT MISSION: DOUBLE UNIT CUBESAT THERMAL ANALYSIS IN CONTEXT OF QB50 MISSION
Mugurel Balan, Institute of Space Science, Romania

IAC-15.C2.6.5

TEMPERATURE MONITORING OF THERMAL-VACUUM TESTS WITH OPTICAL FIBER SENSORS.
Claudio Paris, University of Rome "La Sapienza", Italy

IAC-15.C2.6.6

CMOS SENSOR AS IONIZING RADIATION DETECTOR AND THERMOLUMINESCENCE RESPONSE
Epifanio Cruz-Zaragoza, Universidad Nacional Autónoma de México, Mexico

IAC-15.C2.6.7 (withdrawn)

A COST EFFECTIVE APPROACH FOR QUALIFYING COMMERCIAL HARDWARE FOR LOW-EARTH-ORBIT APPLICATIONS
Torsten Koehne, OHB System AG-Bremen, Germany

IAC-15.C2.6.8

THE EFFECTS OF SPACE ENVIRONMENT ON THERMO-OPTICAL DEGRADATION OF SOLAR SAIL MATERIAL
Roman Ya. Kezerashvili, New York City College of Technology, The City University of New York, United States

IAC-15.C2.6.9

ACTIVE AND PASSIVE PROTECTION OF LOW EARTH ORBIT SATELLITES FROM SPACE ENVIRONMENTAL EFFECTS
Yash Vardhan Gupta, Manipal Institute of Technology, Manipal University, India

IAC-15.C2.6.10

MISSION OPTIMIZATION OF HIGH-SPEED ENTRY FLIGHT TEST FOR DEEP SPACE EXPLORATION VEHICLES
Wenrui Wu, Institute of Manned Space System Engineering, China Academy of Space Technology (CAST), China

IAC-15.C2.6.11

THERMAL EXPANSION PROPERTIES OF CARBON FIBER REINFORCED PEEK UNIDIRECTIONAL PREPREG
Jianping Han, Xi'an Aerospace Composite Materials Institute, China

IAC-15.C2.6.12

GC-MS AND IR SPECTROMETRY ANALYSES FOR COMPONENT IDENTIFICATION OF MATERIALS OUTGASSING CONTAMINATION OF SPACECRAFT
Zi-long Jiao, Beijing Institute of Spacecraft Environment Engineering, China

C2.7. Space Vehicles – Mechanical/Thermal/Fluidic Systems

October 15 2015, 14:45 — Oranim 1

Co-Chair(s): Brij Agrawal , Naval Postgraduate School, United States; Oleg Alifanov , Moscow Aviation Institute, Russian Federation;
Rapporteur(s): Guoliang Mao , Beijing Institute of Aerodynamics, China;

IAC-15.C2.7.1

PERFORMANCE ANALYSIS OF A VAPOR COMPRESSION HEAT PUMP SYSTEM FOR SOLAR POWER SATELLITES
Xiaochen Lu, China Academy of Space Technology (CAST), China

IAC-15.C2.7.2

FURTHER DEVELOPMENTS IN THE 3OMEGA THERMAL CONDUCTIVITY AND DIFFUSIVITY MEASUREMENT SYSTEM
Matthew Dalton, Active Space Technologies, Germany

IAC-15.C2.7.3

DEVELOPMENT OF THERMAL CAPACITORS FOR TEMPERATURE REGULATION IN SPACECRAFT
Siddharth Tiwari, Active Space Technologies, Germany

IAC-15.C2.7.4

EXPERIMENTAL STUDY OF THE START-UP HEAT AND MASS TRANSFER PERFORMANCES OF POROUS PLATE WATER SUBLIMATOR COMBINED WITH FLUID LOOP
Yuying WANG, Beijing Institute of Spacecraft System Engineering, China Academy of Space Technology, China

IAC-15.C2.7.5

A STUDY ON MECHANISM AND EXPERIMENT OF PUMP-ASSISTED CAPILLARY PHASE CHANGE LOOP
Xiaoyu Zhang, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.C2.7.6

INVERSE THERMAL ANALYSIS FOR REENTRY VEHICLES
Sterian Danaila, University POLITEHNICA of Bucharest - Research Center for Aeronautics and Space, Romania

IAC-15.C2.7.7

A LIGHTWEIGHT CARGO CARRIER SPACECRAFT THERMAL CONTROL SYSTEM DESIGN AND VERIFICATION
Fankong Meng, Beijing Institute of Spacecraft System Engineering, China Academy of Space Technology, China

IAC-15.C2.7.8

CRYOGENIC TECHNIQS IN RUSSIAN SCIENTIFIC SPACE MISSIONS
Anton Burdanov, Central Research Institute for Machine Building (FGUP TSNIIIMASH), Russian Federation

IAC-15.C2.7.9

A NEW CONCEPT OF VARIABLE RESISTANCE RADIATOR: STRATOSPHERIC FLIGHT TEST & PERFORMANCE ANALYSIS
Davide Paganini, University of Padova, Italy

IAC-15.C2.7.10

THERMAL LOADS SIMULATION ARRAY IN A TYPICAL SATELLITE THERMAL CONTROL SURFACE.
Marcio Bueno dos Santos, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

IAC-15.C2.7.11

ASSESSMENT OF A LOW-COST MULTILAYER INSULATION SYSTEM FOR THERMAL CONTROL OF NANOSATELLITES
Riccardo Di Roberto, G.A.U.S.S. Srl, Italy
IAC-15.C2.7.12
SOLAR ORBITER HEAT SHIELD THERMAL PERFORMANCE DEMONSTRATED ON STM
Paolo De Filippis, Thales Alenia Space, Italy

C2.8. Specialised Technologies, Including Nanotechnology

October 16 2015, 09:45 — Oranim 1

Co-Chair(s): Mario Marchetti , Associazione Italiana di Aeronautica e Astronautica (AIDAA), Italy; Pierre Rochus , CSL (Centre Spatial de Liège), Belgium;
Rapporteur(s): Bangcheng Ai , China Aerospace Science and Industry Corporation, China;

IAC-15.C2.8.1 (withdrawn)

NANO STRUCTURED TIN OXIDE THIN FILM FOR GAS SENSING APPLICATIONS
Mohamed Basyooni, National Research Institute of Astronomy and Geophysics (NRIAG), Egypt

IAC-15.C2.8.2

THE CHARACTERIZATION ON THE DISPERSIBILITY OF CARBON NANO TUBE IN EPOXY RESIN BY ANALYZING THE VISCOSITY
Zhou Fang, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.C2.8.3

POROSITY EFFECT ON HEAT TRANSFER IN A NANOCHANNEL: MOLECULAR DYNAMICS SIMULATION
Michael Kio, Cranfield University, United Kingdom

IAC-15.C2.8.4

HIGHLY POROUS THERMAL PROTECTION MATERIALS: MODELING AND PREDICTION OF THE METHODOLOGICAL EXPERIMENTAL ERRORS
Oleg Alifanov, Moscow Aviation Institute, Russian Federation

IAC-15.C2.8.5

FAILURE PREDICTION FOR COMPOSITES MATERIALS BY THE HFGMC MICROMECHANICAL METHOD
Aviad Levi-Sasson, Tel Aviv University, Israel

IAC-15.C2.8.6

EFFECT OF CARBON NANOTUBE COMPOSITES IN AEROSPACE STRUCTURES
Glenn Hinda, NASA, United States

IAC-15.C2.8.7

SURFACE ENGINEERING FOR METAL PARTS MADE BY ADDITIVE MANUFACTURING
Nicolas Nutal, CRM, Belgium

IAC-15.C2.8.8

NANODIAMONDS ARE SPACE TECHNOLOGY BEST FRIENDS
Meir Moalem, , Israel

IAC-15.C2.8.9

THERMAL CHARACTERIZATION OF A MULTIFUNCTIONAL COMPOSITE STRUCTURE IN EARLY DESIGN PHASE BASED ON THE MASCOT LANDER
Ajay Prasad Ragupathy, Delft University of Technology (TU Delft), The Netherlands

IAC-15.C2.8.10

FABRICATION AND CHARACTERIZATION OF PATTERNED CARBON NANOFIBER ARRAYS USING HOLE-MASK COLLOIDAL LITHOGRAPHY TOWARDS BIOSENSING APPLICATIONS
Jendai Robinson, University of Cincinnati, United States

IAC-15.C2.8.11

COMPARISON OF TWO CARBON FIBER REINFORCED POLYMER GRID TYPES WITH RESPECT TO STABILITY, STIFFNESS AND MASS FOR THE USE AS INTERSTAGE STRUCTURE
Heike Lohse-Busch, DLR, German Aerospace Center, Germany

IAC-15.C2.8.12

A NEW TECHNOLOGY FOR PRODUCTION OF HIGH THICKNESS CARBON/ CARBON COMPOSITES FOR LAUNCHERS APPLICATION.
Marta Albano, University of Rome "La Sapienza", Italy

C2.9. Advancements in Materials Applications and Rapid Prototyping

October 16 2015, 13:30 — **Oranim 1**

Co-Chair(s): Giuliano Marino, CIRA Italian Aerospace Research Centre, Italy; Sylvie Béland, National Research Council, Canada;
Rapporteur(s): Luigi Scatteia, Strategy& - Formerly Booz and Company, The Netherlands;

IAC-15.C2.9.1

MANUFACTURING OF LARGE SCALE FRICTION STIR WELDED AND SPIN FORMED DOMES WITH AN OPTIMIZED PROCESS CHAIN
Markus Kahnert, MT Aerospace AG, Germany

IAC-15.C2.9.2

SUCCESSFUL DEVELOPMENT AND MONITORING OF CFRP MANUFACTURING TECHNOLOGIES
Birte Hoeck, MT Aerospace AG, Germany

IAC-15.C2.9.3

MATERIALS CHARACTERIZATION OF ADDITIVELY MANUFACTURED COMPONENTS FOR ROCKET PROPULSION
Robert Carter, NASA Glenn Research Center, United States

IAC-15.C2.9.4

RAPID PROTOTYPING OF A COMBINED CHANNEL/PUMP STRUCTURE FOR LIQUID METAL ACTUATORS USED AS ANGULAR MOMENTUM STORAGE DEVICE FOR PICOSATELLITES
Sebastian Grau, Technische Universität Berlin, Germany

IAC-15.C2.9.5

INKJET PRINTING TECHNOLOGY FOR NEW SPACE SENSORICS DEVELOPMENTS AND OPTIMIZATION
Christine Hill, University of Stuttgart, Germany

IAC-15.C2.9.6

THERMO-MECHANICAL CHARACTERIZATION OF A CARBON MICRO-FIBRE REINFORCED POLYMER FOR ADDITIVE MANUFACTURING IN SPACE APPLICATIONS
Marianna Lopatriello, , Italy

IAC-15.C2.9.7 (withdrawn)

DESIGN AND OPTIMIZATION OF A VARIABLE STIFFNESS COMPOSITE WING
Yan Zhang, , China

IAC-15.C2.9.8

EMPLOYING RAPID PROTOTYPING TO REDUCE WEIGHT AND OPTIMIZE SELECTED INTRICATE STRUCTURAL COMPONENTS OF A PICOSATELLITE
Aniket Marne, College of Engineering, Pune, India

IAC-15.C2.9.9

DETAILED STRUCTURAL DESIGN AND CORRESPONDING MANUFACTURING TECHNIQUES OF THE MASCOT LANDING MODULE FOR THE HAYABUSA-2 MISSION
Michael Lange, DLR (German Aerospace Center), Germany

IAC-15.C2.9.10

STUDY OF THE LOCOMOTION PRINCIPLE OF A NEW DIELECTRIC ELASTOMER ROLLING ROVER
Silvio Cocuzza, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.C2.9.11

THERMOPLASTIC-THERMOSET CO-CURED HOMOGENEOUS NETWORK OF PEEK- ALDERENE POLYMERS AS HIGH PERFORMANCE MATRIX FOR SPACE APPLICATIONS
Satheesh Chandran, Vikram Sarabhai Space Centre, Thiruvananthapuram-695 022, INDIA, India

IAC-15.C2.9.12 (withdrawn)

ADVANCEMENTS IN MATERIALS APPLICATIONS AND RAPID PROTOTYPING
Filomena Piscitelli, CIRA Italian Aerospace Research Centre, Italy

C2.IP. Interactive Presentations

October 14 2015, 13:15 — **Plasma Screens Area**

Coordinator(s): Constantinos P. Stavrinidis, European Space Agency (ESA), The Netherlands; Pavel M. Trivailo, RMIT University, Australia, Australia;

IAC-15.C2.IP.1

DYNAMICS ANALYSIS OF FLEXIBLE CONE UNDERGOING SPACE DOCKING
Wei Han, National University of Defense Technology, China

IAC-15.C2.IP.2 (withdrawn)

KA BAND METAL WIRE MESH DEVELOPMENT FOR DEPLOYABLE REFLECTOR
XiaoFei Ma, Xi'an Institute of Space Radio Technology, China

IAC-15.C2.IP.3

A NEW MULTI-LAYER AND GRADED-DENSITY FLEXIBLE ABLATOR
Luo Lijuan, , China

IAC-15.C2.IP.4

RESEARCH ON THE FREQUENCY CHARACTERIZATION METHOD OF STRUCTURAL DESIGN
Linan SHI, Science and Technology on Space Physics Laboratory, China

IAC-15.C2.IP.5

RESEARCH ON ACTIVE FLUTTER SUPPRESSION USING ROBUSTIC CONTROL METHODOLOGY FOR REUSABLE LAUNCH VEHICLE
Junpeng Hui, China Academy of Launch Vehicle Technology, China

IAC-15.C2.IP.6

AERODYNAMIC DESIGN OF A LIFTING RE-ENTRY VEHICLE FOR REAL GAS EFFECT FLIGHT TEST
Bingyan Chen, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.7

TRANSFER PATH ANALYSIS OF DYNAMIC LOADING FOR THE SECOND STAGE LIQUID ROCKET ENGINE
Binchao Li, Xi'an Aerospace Propulsion Institute, China

IAC-15.C2.IP.8

EFFECT OF RECTANGULAR NOZZLE WATER-COOLING WALL ON THE TUBE IN EPOXY RESIN
Zhou Fang, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.C2.IP.9 (withdrawn)

EFFECT OF RECTANGULAR NOZZLE WATER-COOLING WALL ON THE TOTAL ENTHALPY LOSS OF HIGH TEMPERATURE AIRFLOW IN ARC-HEATED WIND TUNNEL
Jinlong Peng, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.10

DYNAMIC PROPERTIES STUDY AND OPTIMIZATION OF ASTRONAUTIC SEPARATION PRODUCTS WITH DIFFERENT EXTENSION AND COMPRESSION STIFFNESS
Shao-wei Feng, China Academy of Launch Vehicle Technology, China

IAC-15.C2.IP.11

STUDIES ON AERO THERMODYNAMICS PERFORMANCE OF THE RUDDER WITH ZERO SWEEPBACK IN ARC HEATED TUNNEL
Kao XU, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.12

DESIGN AND OPTIMIZATION OF FLAT TYPE LOOP HEAT PIPE WITH MULTIPLE PARALLEL EVAPORATORS
Xiaoyu Zhang, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.C2.IP.13

A NEW APPROACH BASED ON METALLOGRAPHIC ANALYSIS AND MICRO HARDNESS TEST ON EVALUATING THE TEMPERATURE OF REUSABLE RAMJET ENGINE
Ren Jiawan, , China

IAC-15.C2.IP.14

STRUCTURAL DESIGN AND TOPOLOGY OPTIMIZATION OF A UNIVERSITY MICRO-SATELLITE
Jing Guo, School of Astronautics, Beihang University, China

IAC-15.C2.IP.15

AN IMMERSED BOUNDARY METHOD FOR COMPRESSIBLE FLOW SIMULATION
YueLong He, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.16 (withdrawn)

STUDY ON SATELLITE SEGMENT VIBRATION TEST TECHNOLOGY
Hao Jiang, , China

IAC-15.C2.IP.17

STUDY ON THERMAL PROTECTION MATERIALS ABLATION RESULTING IN CHANGES OF FLOW FIELD PARAMETERS IN SUPERSONIC TURBULENT DUCT ON ARC HEATER
You-hua Zhang, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.18

EXPERIMENTAL STUDY OF LOW DENSITY THERMAL INSULATION MATERIALS ON RADIATION HEATING FACILITY WITH VARIABLE PRESSURE
Lian-zhong Chen, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.19

THE ESTABLISHMENT OF DYNAMIC MODEL FOR THE SINGLE-PHASE FLUID LOOP SYSTEM
Yanping Gu, , China

IAC-15.C2.IP.20

EXPERIMENTAL INVESTIGATION ON THE DECOMPOSITION RATE OF PHENOLIC RESIN THERMAL PROTECTION MATERIAL
Jian-qiang Tu, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.21 (withdrawn)

CVD METHODS FOR GRAPHENE GENERATION ON STAINLESS STEELS FOR CORROSION RESISTANCE
Michael Eisfelder, Monash University, Australia

IAC-15.C2.IP.22

AERODYNAMIC FORCE AND HEAT FAST PREDICTION FOR HIGH SPEED VEHICLES BASED ON EFFECTIVE NUMERICAL AND ENGINEERING METHODS
Rong Wang, , China

IAC-15.C2.IP.23

A STUDY OF COMPRESSIBILITY CORRECTIONS FOR K-OMEGA SST TURBULENCE MODEL IN HYPERSONIC FLOW APPLICATIONS
Guo-hao DING, China Aerodynamics Research and Development Center, China

IAC-15.C2.IP.24

EXPERIMENTAL STUDY ON THE THERMAL CONTROL DEVICE USING THE SOLID-LIQUID PHASE CHANGE MATERIAL
Taig Young Kim, Korea Polytechnic University, Korea, Republic of

IAC-15.C2.IP.25

STRUCTURAL ANALYSIS OF A CRITICAL DEVIATION OBSERVED AT AN INTERFACE IN A SOLID ROCKET BOOSTER MOTOR USING STRAIN BASED ACCEPTANCE CRITERIA
Paul Murugan J, Indian Space Research Organization (ISRO), India

IAC-15.C2.IP.26

A STUDY ON THE START-UP, BLOCKING-UP AND OPERATING CHARACTERISTICS OF LOOP HEAT PIPE
Dong La, Shanghai Institute of Satellite Engineering, China

IAC-15.C2.IP.27

REACTION CONTROL OF FLEXIBLE JOINT SPACE MANIPULATORS
Silvio Cocuzza, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.C2.IP.28

TIME-VARIANT RELIABILITY ANALYSIS OF CABIN'S DOOR CONSIDERING COMPONENT DAMAGE
Lin Ye, , China

IAC-15.C2.IP.29

VERIFICATION WITH QUASI-STATIC TESTS OF COMPOSITE STRUCTURES FOR LAUNCHERS, SATELLITE AND RE-ENTRY VEHICLES
Davide Santachiara, DTM srl, Italy

IAC-15.C2.IP.30

DESIGN AND VERIFICATION OF HIGH PRESSURE HIGH PURITY GAS DELIVERY SYSTEMS FOR INTERNATIONAL SPACE STATION
Davide Santachiara, DTM srl, Italy

IAC-15.C2.IP.31

INVESTIGATION OF CABIN PRESSURE PREDICTION FOR INTAKE AND EXHAUST SYSTEM ON RE-ENTRY VEHICLES
Huiling Zhan, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.32 (withdrawn)

A RAPID METHOD TO CALCULATE THE VISCOUS FORCE BASED ON LOCAL INVISCID FLOW FIELD PARAMETERS
Gong Anlong, , China

IAC-15.C2.IP.33

NUMERICAL AND EXPERIMENTAL ACTIVITIES TO ASSESS THE COMPATIBILITY OF THE IXV MOCK-UP CUSTOM AVIONIC SYSTEMS WITH THE SPLASH DOWN SHOCK LOADS.
Vincenzo Quaranta, CIRA Italian Aerospace Research Center, Capua, Italy

IAC-15.C2.IP.34

DESIGNING A STRUCTURE, ANTENNA AND SOLAR PANELS DEPLOYMENT SYSTEM FOR A STUDENT NANO SATELLITE BUS MODULE (NIUSAT MARK-I)
Neelakandan Pradeesh Kumar, Noorul Islam Centre for Higher Education Noorul Islam University, India

IAC-15.C2.IP.35

EPOXY BASED SHAPE MEMORY POLYMERS FOR SPACE APPLICATIONS
Debby Margoy, SOREQ NRC, Israel

IAC-15.C2.IP.36 (withdrawn)

RESEARCH DEVELOPMENT OF THERMAL PROTECTION MATERIAL IN HIGH ENTHALPY THERMAL ENVIRONMENT FOR LUNAR RETURN REENTRY
HE GAO, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.37

CNT-POLYIMIDE NANOCOMPOSITES FOR SPACE APPLICATIONS
Nurit Atar, SOREQ NRC, Israel

IAC-15.C2.IP.38

DYNAMIC CHARACTERISTIC ANALYSIS OF A MOMENT CONTROL UNIT WITH VIBRATION ISOLATION CAPABILITY AND ITS APPLICATION
Yao Zhang, Beijing Institute of technology(BIT), China

IAC-15.C2.IP.39

APPLICATION OF RANS/LES IN COMPUTING HYPERSONIC TURBULENT BASE HEATING
Lu Zhao, Beihang University, China

IAC-15.C2.IP.40

THE DESIGN AND TESTING OF DEPLOYMENT MECHANISMS AND STRUCTURE OF TWIN NANO-SATELLITE, STUDSAT-2.
Nikhilesh K V, NMAMIT NITTE, India

IAC-15.C2.IP.41

REDUCTION OF PROCESSING TIME AND HUMAN FACTOR EFFECTS DURING THE STRENGTH ASSESSMENT OF THE SPACECRAFT STRUCTURE
Nikolay Asmolovskiy, Space Structures GmbH, Germany

IAC-15.C2.IP.42 (withdrawn)

RESEARCH ON REPEATABLE LOCKING MECHANISM FOR SPACE SOLAR ARRAY
Lei Jia, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.C2.IP.43

FOLD-DEPLOYMENT CONCEPT AND PROTOTYPE DESIGN FOR AIR-INFLATABLE SOLAR SAIL
ZhengAi Cheng, Qian Xuesen Laboratory of Space Technology, China

IAC-15.C2.IP.44 (withdrawn)

OPTIMIZATION OF THE CABIN THERMAL ENVIRONMENT CONTROL IN A SPACECRAFT ON THE GROUND PREPARATION STAGE BEFORE LAUNCH
Qun Yu, China Academy of Launch Vehicle Technology, China

IAC-15.C2.IP.45

DESIGN ASPECTS OF HEAD END MOUNTED SAFE ARM (HMSA) FOR IGNITERS OF SOLID ROCKET MOTORS
Rajesh Mathew, ISRO, India

IAC-15.C2.IP.46

MECHANISM AND KINETIC CHARACTERIZATION OF THE ELECTRON IRRADIATION INDUCED DEGRADATION OF DGEBA/DICY
Gang Liu, China Academy of Space Technology (CAST), China

IAC-15.C2.IP.47

DEVELOPMENT AND STUDY OF MICRO-VIBRATION SIMULATION ANALYSIS SYSTEM FOR SMALL SATELLITES
Yanhui Li, DFH Satellite Co., Ltd., China Academy of Space Technology (CAST), China

IAC-15.C2.IP.48

SURFACE FIGURE PRECISION ANALYSIS RESEARCH ON NON-IDEAL THIN FILM SOLAR CELLS OF SPACE SOLAR POWER SATELLITE
Chen Yang, Qian Xuesen Laboratory of Space Technology, China

IAC-15.C2.IP.49

SHAPE OPTIMIZATION OF INSIDE-HOLE IN TRIANGULAR RIBBED PLATE
Yiqian Zhou, , China

IAC-15.C2.IP.50

A BOUNDARY ELEMENT METHOD FOR TRANSIENT NONLINEAR RADIATIVE-CONDUCTIVE COUPLED HEAT TRANSFER PROBLEMS
Wang Jing, CASC, China

IAC-15.C2.IP.51

ON THE DEVELOPMENT OF ARC TUNNEL TEST TECHNOLOGY FOR CONTROL SURFACE SEAL EVALUATIONS
Zhang Qian, China Academy of Aerospace Aerodynamics(CAAA), China

IAC-15.C2.IP.52

NOVEL IDENTIFICATION METHOD OF THE DYNAMIC PARAMETERS OF A SPACE MANIPULATOR
Silvio Cocuzza, CISAS – “G. Colombo” Center of Studies and Activities for Space, University of Padova, Italy

C3. SPACE POWER SYMPOSIUM

Coordinator(s): Koji Tanaka , ISAS, JAXA, Japan; Leopold Summerer , European Space Agency (ESA), The Netherlands;

C3.1. Space-Based Solar Power Architectures / Space & Energy Concepts

October 12 2015, 15:15 — Oranim 2

Co-Chair(s): John C. Mankins , ARTEMIS Innovation Management Solutions, LLC, United States; Leopold Summerer , European Space Agency (ESA), The Netherlands;
Rapporteur(s): Koji Tanaka , ISAS/JAXA, Japan; Nobuyuki Kaya , Kobe University, Japan;

IAC-15.C3.1.1 (withdrawn)

CONCEPTUAL DESIGN ON THE SANDWICH SOLAR POWER SATELLITE II
Nobuyuki Kaya, Kobe University, Japan

IAC-15.C3.1.2

SPACE & ENERGY: OPPORTUNITIES FOR SPACE IN A DISTRIBUTED ENERGY GRID
Thijs Versloot, European Space Agency (ESA), The Netherlands

IAC-15.C3.1.3 (withdrawn)

ENERGIZING EARTH'S FUTURE WITH CLEAN BASE LOAD POWER FROM SPACE TO EARTH
Corey Bergsrud, University of North Dakota, United States

IAC-15.C3.1.4

IN-ORBIT ASSEMBLY MISSION OF SPACE POWER STATION
ZhengAi Cheng, Qian Xuesen Laboratory of Space Technology, China

IAC-15.C3.1.5

SPACE BASED SOLAR POWER IS FOR MARS
Matthew Dalton, Active Space Technologies, Germany

IAC-15.C3.1.6

SOLAR-POWERED FREE-PISTON STIRLING – LINEAR GENERATOR MODULE CONCEPT FOR A MOON BASE
Egor Loktionov, Bauman Moscow State Technical University, Russian Federation

IAC-15.C3.1.7

THERMAL CONTROL DESIGN AND ANALYSIS RESEARCH ON SANDWICH IN SYMMETRICAL CONCENTRATOR MODULE ARCHITECTURE OF SPACE SOLAR POWER SATELLITE
Chen Yang, Qian Xuesen Laboratory of Space Technology, China

IAC-15.C3.1.8

SPACE BASED SOLAR POWER GENERATION AND TRANSMISSION SYSTEM
Sharad Chopra, University of Petroleum and Energy Studies, India

IAC-15.C3.1.9

VARIOUS REFLECTING SURFACE DEFECTS SIMULATION FOR SPACE MIRROR CONCENTRATING SYSTEMS
Victor Leonov, N.E. Bauman Moscow State Technical University, Russia, Russian Federation

IAC-15.C3.1.10

Winning paper of the 4th SPS paper competition: CARBON-NANOTUBE BASED SPACE SOLAR POWER (CASSP)

C3.2. Wireless Power Transmission Technologies, Experiments and Demonstrations

October 13 2015, 09:45 — Oranim 2

Co-Chair(s): Frank Little , Texas A&M University, United States; Nobuyuki Kaya , Kobe University, Japan;
Rapporteur(s): Massimiliano Vasile , University of Strathclyde, United Kingdom;

IAC-15.C3.2.1

THE RESULT OF GROUND EXPERIMENT OF MICROWAVE WIRELESS POWER TRANSMISSION
Shoichiro Mihara, Japan Space Systems (J-spacesystems), Japan

IAC-15.C3.2.2 (withdrawn)

REFERENCE DESIGN SATELLITE FOR IN-SPACE POWER BEAMING DEMONSTRATIONS
Corey Bergsrud, University of North Dakota, United States

IAC-15.C3.2.3

STATION-KEEPING OF A HIGH ALTITUDE BALLOON WITH ELECTRIC PROPULSION AND WIRELESS POWER TRANSMISSION: A CONCEPT STUDY
Erinn van Wynsberghe, University of Michigan, United States

IAC-15.C3.2.4

DIRECTION DETECTION AND POWER TRANSMISSION EXPERIMENT USING C-BAND MICROWAVES TOWARD SPS
Shotaro Katana, The Graduate University for Advanced Studies (SOKENDAI), Japan

IAC-15.C3.2.5

MICROWAVE POWER TRANSMISSION DEMONSTRATION SYSTEM TOWARDS SSPS
Yazhou Dong, China Academy of Space Technology (Xi'an), China

IAC-15.C3.2.6

NEW CONCEPT OF SPACE SOLAR POWER SATELLITE BASED ON DIFFRACTIVE OPTICS AND ULTRA-FAST OPTICS
Xun LIU, Beijing Institute of Space Mechanics & Electricity, CAST, China

IAC-15.C3.2.7

WIRELESS POWER TRANSFER TECHNOLOGY FOR MANNED SPACE APPLICATIONS
Hongjia Wang, (1)Institute of Manned Space System Engineering, China Academy of Space Technology (CAST); China

IAC-15.C3.2.8

CONTACTLESS POWER TRANSFER SYSTEM FOR SPACE CENTRIFUGE
Wei Lu, , China

C3.3. Advanced Space Power Technologies and Concepts

October 13 2015, 14:45 — Oranim 2

Co-Chair(s): Carla Signorini , European Space Agency (ESA), The Netherlands; Lee Mason , National Aeronautics and Space Administration (NASA)/Glenn Research Center, United States;
Rapporteur(s): Koji Tanaka , ISAS, JAXA, Japan; Matthew Perren, Airbus Defence & Space, United Kingdom;

IAC-15.C3.3.1

THERMOACOUSTIC GENERATORS IN SPACE APPLICATIONS
Matthew Dalton, Active Space Technologies, Germany

IAC-15.C3.3.2 (withdrawn)

CONCEPTUAL DESIGN OF HYBRID SYSTEM FOR LONG-TERM SPACE MISSION BY USING MEOH-H2O2
Byeongseob Park, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

IAC-15.C3.3.3

EFFICIENCY INCREASE OF STIRLING ENGINE AS AN ELEMENT OF SPACE SOLAR POWER PLANT
Sergey Finogenov, Moscow Aviation Institute (National Research University, MAI), Russian Federation

IAC-15.C3.3.4 (withdrawn)

RFCS CONCEPT FOR ORBIT PHASES AND PLANETARY HABITATS AT HIGH SYNERGETIC INTEGRATION LEVEL
Stefan Belz, University of Stuttgart, Germany

IAC-15.C3.3.5

SOLAR POWER GENERATION FOR THE EXOMARS MISSIONS
Emanuele Ferrando, Selex Galileo, Italy

IAC-15.C3.3.6

DEVELOPMENT OF SUPER-LIGHTWEIGHT LARGE SCALE POWER GENERATION SYSTEM FOR SOLAR POWER SAIL
Naoki Takaura, Tokyo University of Science, Japan

IAC-15.C3.3.7

THE LIFE PREDETERMINATION FOR LEO SATELLITE POWER SUPPLY SYSTEM IN- ORBIT EXPERIMENT
Liu Yiwei, , China

IAC-15.C3.3.8

POWER-SUPPLY SYSTEM OF SPACECRAFT ON THE BASE OF ZIRCONIA FUEL CELLS
Oleksandr Vasylyev, Institute for Problems of Materials Science, Ukraine

IAC-15.C3.3.9

GENERATION OF POWER TO CHARGE THE BATTERIES IN THE SPACECRAFT BY HARNESSING THE ENERGY FROM THE SHOCK WAVES DURING RE-ENTRY.
Rohan Kulkarni, , India

C3.4. Small and Very Small Advanced Space Power Systems

October 15 2015, 14:45 — Oranim 3-A

Co-Chair(s): Massimiliano Vasile , University of Strathclyde, United Kingdom; Shoichiro Mihara , Japan Space Systems (J-spacesystems), Japan;
Rapporteur(s): Alex Ignatiev , University of Houston, United States;

IAC-15.C3.4.1
SELECTION OF THE ARRAY CONFIGURATION OF SOLAR CELLS AND BATTERIES FOR INCREASING THE EFFICIENCY OF A BOOST CONVERTER ON NANOSATELLITES
Jesus Gonzalez, UNIVERSIDAD SERGIO ARBOLEDA, Colombia

IAC-15.C3.4.2
DESIGN AND IMPLEMENTATION OF ELECTRICAL POWER SYSTEM FOR STUDESAT 2
RANJITH H.G., Nitte Meenakshi Institute of Technology, India

IAC-15.C3.4.3
ROBISAT MISSION: DOUBLE UNIT CUBESAT POWER ESTIMATION IN CONTEXT OF QB50 MISSION
Mugurel Balan, Institute of Space Science, Romania

IAC-15.C3.4.4
OPTIMAL DESIGN OF THE POWER SYSTEM OF A SWARM OF NANOSATELLITES IN THE PROXIMITY OF AN ASTEROID
Massimiliano Vasile, University of Strathclyde, United Kingdom

IAC-15.C3.4.5 (withdrawn)
DESIGN & ANALYSIS OF UPESSAT ELECTRIC POWER SYSTEM
Surmit Bhui, University of Petroleum and Energy Studies, India

IAC-15.C3.4.6
ARCHITECTURAL DESIGN OF RADIATION-HARDENED SOC SOLUTION FOR NANOSATELLITE POWER MANAGEMENT
Teng Wang, Shanghai Institute of Space Power Sources, China

IAC-15.C3.4.7
THE SIMPLE THINGS MATTER MOST FOR MISSION SUCCESS
Andrew Strain, Clyde Space Ltd., United Kingdom

IAC-15.C3.4.8
QUALIFICATION TESTS AND PERFORMANCE VALIDATION OF POWER SYSTEM FOR SMALL SATELLITES
Dhaval Waghulde, College of Engineering Pune, India

IAC-15.C3.4.9 (withdrawn)
EFFECT OF ORBITAL PARAMETERS AND FLEXIBLE PANEL CONFIGURATIONS ON POWER SYSTEM IN TWIN NANO-SATELLITE
Shiva Abhishek, Siddaganga Institute of Technology, Tumkur, India

C3.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area
Coordinator(s): Koji Tanaka , ISAS, JAXA, Japan; Leopold Summerer , European Space Agency (ESA), The Netherlands;

IAC-15.C3.IP.1
THE PROJECTS OF THE LARGE INFORMATION-ENERGETIC SPACE PLATFORMS.
Oleg Aleksandrov, AVIATAR Inc www.aviatar.us, United States

IAC-15.C3.IP.2
FEASIBILITY STUDY ON WIRELESS POWER TRANSMISSION FOR SOLAR ARRAY DRIVE ASSEMBLY
Haipeng Jia, Qian Xuesen Laboratory of Space Technology, China Academy of Space Technology (CAST), China

IAC-15.C3.IP.3
A GENERIC FINE-GRAINED ENERGY BUDGET FOR SATELLITE APPLICATIONS
Dhaval Waghulde, College of Engineering Pune, India

IAC-15.C3.IP.4
ANALYSIS ON POWER SYSTEM DESIGN FOR DEEP SPACE PROBE
LYU Hongqiang, Shenzhen Aerospace Dongfanghong HIT Satellite. Ltd, China

IAC-15.C3.IP.5 (withdrawn)
POWER SYSTEM FOR TWIN NANO-SATELLITE BASED ON ATTITUDE DETERMINATION AND CONTROL SYSTEM
Shiva Abhishek, Siddaganga Institute of Technology, Tumkur, India

IAC-15.C3.IP.6
COMPARISON OF CCM AND DCM FLYBACK CONVERTERS FOR SATELLITE PAYLOAD POWER SUPPLY
Qingxiao Sun, Beijing Spacecrafts, China Academy of Space Technology (CAST), China, China

IAC-15.C3.IP.7
DESIGN OF HIGH RELIABILITY COMPOUND SWITCH CIRCUIT FOR AEROSPACE APPLICATION
Ru Wang, Beijing Spacecrafts, China Academy of Space Technology (CAST), China

C4. SPACE PROPULSION SYMPOSIUM

Coordinator(s): Giorgio Saccoccia , European Space Agency (ESA), The Netherlands; Helen Webber , Reaction Engines Ltd., United Kingdom; Richard Blott , Space Enterprise Partnerships Limited, United Kingdom; Toru Shimada , Japan Aerospace Exploration Agency (JAXA), Japan;

C4.1. Propulsion System (1)

October 12 2015, 15:15 — Ballroom B
Co-Chair(s): Christophe Bonhomme , Centre National d'Etudes Spatiales (CNES), France; Patrick Danous, Snecma, France;
Rapporteur(s): Vanniyaperumal Narayanan, Indian Space Research Organization (ISRO), India;

IAC-15.C4.1.1 (withdrawn)
THE DEVELOPMENT PLAN OF THE FIRST AND THE SECOND STAGE ENGINES FOR THE JAPANESE NEXT FLAGSHIP LAUNCH SYSTEM
Shusuke Hori, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.C4.1.2
CREATION OF FAMILY OF LPRE FOR ADVANCED RUSSIAN AND FOREIGN LAUNCH-VEHICLES ON THE BASIS OF RD191 ENGINE
Vladimir Sudakov, JSC NPO Energomash, Russian Federation

IAC-15.C4.1.3
ADVANCEMENT AND FUTURE APPLICATION OF SPACE PROPULSION TECHNOLOGY USING HYDROCARBON PROPELLANTS IN CHINA
LI Wenlong, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.1.4
THE FUTURE OF LIQUID PROPULSION: THE FRENCH VIEW
Christophe Bonhomme, Centre National d'Etudes Spatiales (CNES), France

IAC-15.C4.1.5 (withdrawn)
RESULTS OF LE-X ENGINE TECHNOLOGY DEMONSTRATION
Hideto Kawashima, JAXA, Japan

IAC-15.C4.1.6
VINCI®, THE EUROPEAN REFERENCE FOR ARIANE 6 UPPER STAGE CRYOGENIC ENGINE
Patrick Alliot, Snecma, France

IAC-15.C4.1.7
DEVELOPMENT OF A LM10-MIRA LOX – LNG EXPANDER CYCLE DEMONSTRATOR ENGINE
Rudnykh Mikhail, AVIO S.p.A., Italy

IAC-15.C4.1.8
FIRING TESTS FOR ADVANCED FEATURES AND LONG-LIFE DURABILITY OF THE MAIN ENGINE OF THE REUSABLE SOUNDING ROCKET
Toshiya Kimura, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.C4.1.9
APPLYING A MATURE GREEN PROPULSION SOLUTION TO ENHANCE FUTURE MISSION CAPABILITIES
Elizabeth Driscoll, Aerojet Rocketdyne, United States

IAC-15.C4.1.10
A NOVEL GREEN GEL PROPELLANT BASED PROPULSION SYSTEM
Benveniste Natan, Technion – Israel Institute of Technology, Israel

IAC-15.C4.1.11
RESEARCH ON THERMAL DECOMPOSITION OF HYDROGEN PEROXIDE.
Lukasz Mezyk, Warsaw University of Technology, Poland

IAC-15.C4.1.12
DYNAMIC CHARACTERISTICS OF OPEN-TYPE SWIRL INJECTOR WITH PULSATING MANIFOLD PRESSURE
Yunjae Chung, Seoul National University, Korea, Republic of

IAC-15.C4.1.13
A REVIEW OF CHINA'S LOX/KEROSENE STAGE COMBUSTION CYCLE ROCKET ENGINE
Chen Jianhua, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.1.14
FEATURES OF THE PROPELLANT TANKS PRESSURIZATION SYSTEMS DEVELOPMENT OF THE LV UPPER STAGES
Vadym Khomyak, Yuzhnoye State Design Office, Ukraine

C4.2. Propulsion System (2)

October 13 2015, 09:45 — Ballroom B
Co-Chair(s): Stéphane Henry, Herakles (Safran group), France; Toru Shimada, Japan Aerospace Exploration Agency (JAXA), Japan;
Rapporteur(s): M. Badrinayarana Murthy , Indian Space Research Organization (ISRO), India;

IAC-15.C4.2.1
ADVANCED BIOLOGICAL TREATMENT FOR SOLID PROPULSION - LICORNE
Guillaume Dupouy, Herakles (Safran group), France

IAC-15.C4.2.2
A SCALED-DOWN STATIC TEST METHOD FOR SOLID ROCKET MOTORS.
Olga Motsyk, Delft University of Technology (TU Delft), The Netherlands

IAC-15.C4.2.3
IMPROVEMENT ON THRUST PROFILE FLEXIBILITY BY OXIDIZER-TO-FUEL RATIO FEEDBACK CONTROL IN HYBRID ROCKET
Tomoaki Usuki, Institute of Space and Astronautical Science (ISAS), Japan Aerospace Exploration Agency, Japan

IAC-15.C4.2.4
HEAT AND MASS TRANSFER ANALYSIS FOR PARAFFIN / NITROUS OXIDE BURNING RATE IN HYBRID PROPULSION
Shani Ben-Basat, TECHNION - Israel Institute of Technology, Israel

IAC-15.C4.2.5
PERFORMANCE CALCULATIONS AND BURNING TESTS ON ALTERING-INTENSITY SWIRLING OXIDIZER FLOW TYPE HYBRID ROCKET ENGINES
Kohei Ozawa, Japan Aerospace Exploration Agency (JAXA)/ISAS, Japan

IAC-15.C4.2.6
PRELIMINARY DESIGN OF HYBRID GAS GENERATOR IN STAGED HYBRID ROCKET ENGINE
Dongun Lee, Konkuk University, Korea, Republic of

IAC-15.C4.2.7
INTEGRATED APPROACH FOR HYBRID ROCKET TECHNOLOGY DEVELOPMENT AND ANALYSIS OF POSSIBLE APPLICATIONS
Francesco Barato, University of Padova - DII/CISAS, Italy

IAC-15.C4.2.8
COMBUSTION INSTABILITY IN SARA HYBRID ROCKET MOTOR
Artur Bertoldi, University of Brasilia, Brazil

IAC-15.C4.2.9
DESIGN OF A HYBRID PARAFFIN-BASED TECHNOLOGY DEMONSTRATOR
Marco Di Clemente, CIRA Italian Aerospace Research Centre, Italy

IAC-15.C4.2.10 (withdrawn)
BENEFITS OF A HYBRID PROPULSION SYSTEM USING IN SITU PRODUCED OXIDIZER FOR A MARS ASCENT VEHICLE
Ashley Karp, Jet Propulsion Laboratory - California Institute of Technology, United States

IAC-15.C4.2.11
COMBUSTION INSTABILITY SIMULATION AND ANALYSIS OF A SOLID ROCKET MOTOR TESTING DEVICE BASED ON LES METHOD
Linqing Zhang, The 41st Institute of the Sixth Academy of Aerospace Science & Industry Corp, China

IAC-15.C4.2.12
ESTIMATION OF FLIGHT SPECIFIC IMPULSE FOR SOLID PROPELLANT ROCKET MOTORS
Chamarthi Sainadh, ISRO, India

C4.3. Propulsion Technology (1)

October 14 2015, 09:45 — Ballroom B
Co-Chair(s): Angelo Cervone , Delft University of Technology (TU Delft), The Netherlands; Didier Boury, Herakles (Safran group), France;
Rapporteur(s): John Harlow, Aerojet Rocketdyne, United Kingdom;

IAC-15.C4.3.1
JET INDUCER FOR A TURBO PUMP OF A LIQUID ROCKET ENGINE
Wolfgang Kitsche, German Aerospace Center (DLR), Germany

IAC-15.C4.3.2
ENGINE CONTROL SYSTEM FOR THE MAIN ENGINE OF THE REUSABLE SOUNDING ROCKET
Takeshi Kai, Mitsubishi Heavy Industries, Ltd., Japan

IAC-15.C4.3.3
NEW HORIZONS FOR SMA (SHAPE MEMORY ALLOY) IN SPACE PROPULSION APPLICATIONS
OFER LIVNE, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.C4.3.4
IN FLIGHT ACHIEVEMENTS AND FOLLOW-ON FOR COLD GAS MICRO PROPULSION APPLIED TO S/C FINE POINTING AND ATTITUDE CONTROL G.NOCI A.POLLI
Giovanni Enrico Noci, Selex ES, Italy

IAC-15.C4.3.5
OVERVIEW OF NASA'S GREEN PROPELLANT INFUSION MISSION AND NASA GLENN RESEARCH CENTER'S THRUSTER TESTING AND PLUME DIAGNOSTICS
Timothy Smith, NASA, United States

IAC-15.C4.3.6
THE ITALIAN LOX/LCH4 ROCKET ENGINE TECHNOLOGY DEMONSTRATOR: ACHIEVEMENTS AND OUTLOOK
Pierpaolo de Matteis, Italy

IAC-15.C4.3.7

RAFAEL PASSIVATION VALVE FOR SATELLITES PROPULSION SYSTEM
Michael Zaberchik, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.C4.3.8

COLD GAS PROPULSION SYSTEM FOR THE SAMSON NANO SATELLITES
Michael Zaberchik, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.C4.3.9

ASSESSMENT OF VARIOUS FUEL ADDITIVES FOR RELIABLE HYPERGOLIC IGNITION WITH 98+ HTP
Wojciech Florczuk, Institute of Aviation, Poland

IAC-15.C4.3.10

ANALYSIS OF INFRARED SIGNATURE OF SPACECRAFT PROPULSION PLUME
Jianwei LU, China Academy of Launch Vehicle Technology, China

IAC-15.C4.3.11

NUMERICAL SIMULATION STUDY ON COMBUSTION PERFORMANCE OF LOW THRUST LOX/METHANE ROCKET ENGINE
Shen Chibing, National University of Defense Technology, China

IAC-15.C4.3.12 (withdrawn)

PRELIMINARILY MICROEXPLOSION MODEL OF ORGANIC-GELLANT GEL FUEL DROPLETS
Zejun Liu, PLA Information Engineering University, China

IAC-15.C4.3.13

INFLUENCE OF RETRACTIVE LENGTH OF COAXIAL INJECTOR ON HIGH-FREQUENCY COMBUSTION INSTABILITY FOR STAGED COMBUSTION LOX/KEROSENE ROCKET ENGINE
Longfei Li, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.3.14

DYNAMIC CALCULATION MODEL FOR AN ATTITUDE CONTROL SYSTEM THAT USES TILTING NOZZLES
Teodor-Viorel Chelaru, University POLITEHNICA of Bucharest - Research Center for Aeronautics and Space, Romania

C4.4. Electric Propulsion

October 14 2015, 14:45 — Ballroom B

Co-Chair(s): Garri A. Popov, *Research Institute of Applied Mechanics and Electrodynamics, Russian Federation*; Norbert Puettmann, *Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany*;
Rapporteur(s): Vanessa Vial, *Snecma, France*;

IAC-15.C4.4.1

ELECTRIC PROPULSION IN GERMANY: SYSTEM ACTIVITIES, STATUS OF THE HEMP THRUSTER DEVELOPMENT, CHALLENGES COMING UP
Norbert Püttmann, DLR, German Aerospace Center, Germany

IAC-15.C4.4.2

5 KW HALL THRUSTER PROPULSION SUBSYSTEM DEVELOPMENT AND QUALIFICATION
Mariano Andrenucci, Sitael Spa, Italy

IAC-15.C4.4.3

EXPERIMENTAL INVESTIGATIONS AND OPTIMIZATION OF CAMILA HALL THRUSTER WITH STRONG LONGITUDINAL MAGNETIC FIELD
Maxim Rubanovich, Asher Space Research Institute, Technion, I.I.T., Israel

IAC-15.C4.4.4

DEVELOPMENT OF A LOW-POWER HIGH PERFORMANCE HALL EFFECT THRUSTER
Dan Lev, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.C4.4.5

MICROTHRUSTER DEVELOPMENT AND MEASUREMENT USING A MICROWAVE MICROPLASMA SOURCE
Brittani Searcy, University of Alabama in Huntsville, United States

IAC-15.C4.4.6

MICRO-CATHODE ARC THRUSTER FOR SMALL SATELLITE PROPULSION
Michael Keidar, George Washington University, United States

IAC-15.C4.4.7 (withdrawn)

EXPERIMENTAL APPROACHES FOR MICRO-CATHODE ARC THRUSTER DIAGNOSTICS
Alexey Shashurin, George Washington University, United States

IAC-15.C4.4.8

INVESTIGATION OF HOLLOW CATHODE DISCHARGE MODES TRANSITION CHARACTERISTICS
Zhang Yan, , China

IAC-15.C4.4.9

HIGH THRUST-OVER-POWER ELECTRIC PROPULSION
Amnon Fruchtman, , Israel

IAC-15.C4.4.10

ELECTRIC PROPULSION ACTIVITIES IN AIRBUS DS GMBH
Nicoletta Wagner, ASTRIUM EADS, Germany

IAC-15.C4.4.11

INTEREST OF STAGED ARCHITECTURES WITH DROP TANKS FOR SPACE VEHICLES USING ELECTRIC PROPULSION
Nicolas Bérend, Office National d'Etudes et de Recherches Aéropatiales (ONERA), France

IAC-15.C4.4.12

CIRA DEVELOPMENT ACTIVITIES IN ELECTRIC PROPULSION TESTING
Vito Salvatore, CIRA Italian Aerospace Research Center, Capua, Italy

IAC-15.C4.4.13 (withdrawn)

FLIGHT TEST OF THE 800 W HET-40 HALL EFFECT ELECTRIC PROPULSION SYSTEM ON SJ-9A SATELLITE
Guanrong Hang, Shanghai Institute of Space Propulsion, China

IAC-15.C4.4.14 (withdrawn)

IN-FLIGHT OPERATION OF THE DAWN ION PROPULSION SYSTEM THROUGH THE HIGH ALTITUDE SCIENCE ORBIT AT CERES
Charles Garner, California Institute of Technology, United States

IAC-15.C4.4.15

A SYSTEM STUDY ON DRAG COMPENSATION WITH ELECTRIC PROPULSION IN VERY LOW EARTH ORBIT
Luigi Ansalone, Agenzia Spaziale Italiana (ASI), Italy

C4.5. Propulsion Technology (2)

October 15 2015, 09:45 — Ballroom B

Co-Chair(s): Max Calabro, *The Inner Arch, France*; Walter Zinner, *European Conference for Aero-Space Sciences (EUCASS), Germany*;
Rapporteur(s): Davina Di Cara, *European Space Agency (ESA), The Netherlands*;

IAC-15.C4.5.1

REUSABLE ROCKET ENGINE AND IT'S TRIBOLOGICAL SUBJECTS
Makoto Yoshida, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.C4.5.2

ADVANCED SENSOR TECHNOLOGIES FOR CRYOGENIC LIQUID PROPELLANT FLOW PHENOMENA
Martin Siegl, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.C4.5.3

INVESTIGATION OF STRUCTURAL DYNAMICS OF HIGH THRUST LOX/KEROSENE STAGE COMBUSTION CYCLE ENGINE
Fu Ping, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.5.4

STRUCTURAL DYNAMIC ANALYSIS OF THE LOX/KEROSENE ROCKET ENGINE BASED ON SYNTHETIC TECHNOLOGY FOR SUBSTRUCTURE TEST MODEL
Feiping Du, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.5.5

SYSTEM FREQUENCY CHARACTERISTICS ANALYSIS FOR A LARGE-THRUST LOX/KEROSENE STAGED COMBUSTION CYCLE ENGINE
Du Dahua, College of Aeronautics, Northwestern Polytechnical University, China

IAC-15.C4.5.6

EXPERIMENTAL INVESTIGATION ON DISTRIBUTION CHARACTERISTICS OF MASS FLUX AND MIXTURE RATIO FOR UNLIKE IMPINGING INJECTOR
Yong Wang, China

IAC-15.C4.5.7 (withdrawn)

ANALYSIS OF FREQUENCY RESPONSE CHARACTERISTICS OF PRESSURE-COUPLED LIQUID PROPELLANT VAPORIZATION PROCESS
Ganesh Paramasivan, Vikram Sarabhai Space Centre, Thiruvananthapuram-695 022, INDIA, India

IAC-15.C4.5.8

ENERGETIC CHARACTERISTICS OF NANOPOROUS SILICON IMPREGNATED WITH DIFFERENT OXIDIZERS
Evgenia Golda Kishilev, Technion - Israel Institute of Technology, Israel

IAC-15.C4.5.9

APPLICATION OF MULTIDISCIPLINARY DESIGN OPTIMIZATION METHOD IN LIQUID ROCKET ENGINE DESIGN
Jian ZHAO, Xi'an Aerospace Propulsion Institute, China

C4.6. New Missions Enabled by New Propulsion Technology and Systems

October 15 2015, 14:45 — Ballroom B

Co-Chair(s): Giorgio Saccoccia, *European Space Agency (ESA), The Netherlands*; Jerrol Littles, *Aerojet Rocketdyne, United States*;
Rapporteur(s): Mariano Andrenucci, *Sitael Spa, Italy*;

IAC-15.C4.6.1

CONCEPTUAL DESIGN OF SMALL SCALE HYBRID SOUNDING ROCKET AND ATTITUDE CONTROL WITH BANG-BANG METHOD
Jeongmoo Huh, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

IAC-15.C4.6.2

DEVELOPMENT OF A LOW PRESSURE FREE MOLECULAR MICRO-RESISTOJET FOR CUBESAT APPLICATIONS
Dadui C Guerrieri, Delft University of Technology (TU Delft), The Netherlands

IAC-15.C4.6.3

HELICON TECHNOLOGY FOR LOW EARTH MISSION OF MINI SATELLITE
Francesco Barato, University of Padova - DII/CISAS, Italy

IAC-15.C4.6.4

DESIGN AND MODELLING OF A NEW CONCEPT OF SOLAR THERMAL COMBINED PROPULSION & POWER SYSTEM FOR SMALL SATELLITES: FEASIBILITY AND PERSPECTIVES
Jasper Preijde, , The Netherlands

IAC-15.C4.6.5 (withdrawn)

DEVELOPMENT OF A PROPULSION SYSTEM BY USING HYDROGEN PEROXIDE PROPELLANT
Tien-Chuan Kuo, National Space Organization, Taiwan, China

IAC-15.C4.6.6

FEASIBILITY ASSESSMENT OF HAN-BASED THRUSTER USED IN THE MONOPROPELLANT PROPULSION SYSTEM
Tianliang Yao, , China

IAC-15.C4.6.7

LOW-THRUST PROPULSION SYSTEMS FOR SMALL SATELLITES
Salvo Marcuccio, Università di Pisa, Italy

IAC-15.C4.6.8

RAM-EP SYSTEM CONCEPT FOR VERY LOW EARTH ORBIT MISSIONS
Pierpaolo Pergola, Sitael/Alta, Italy

IAC-15.C4.6.9

ELECTRIC PROPULSION TUG FOR MULTI-TARGET ACTIVE SPACE DEBRIS REMOVAL MISSIONS
Pierpaolo Pergola, Sitael/Alta, Italy

IAC-15.C4.6.10

HYBRID ROCKET PROPULSION SYSTEMS FOR OUTER PLANET EXPLORATION MISSIONS
Elizabeth Jens, Stanford University, United States

IAC-15.C4.6.11

INTERSTELLAR MISSION TO THE STAR WOLF 359: UTILIZATION OF A GAS CORE NUCLEAR PROPULSION SYSTEM AND ANALYSIS OF MISSION PARAMETERS
Ugur Guven, , United States

IAC-15.C4.6.12 (withdrawn)

RTMSS - A NOVEL SYSTEM FOR SPACE LAUNCH COST-REDUCTION
Haim Korach, , Israel

C3.5-C4.7 Joint Session on Nuclear Propulsion and Power

October 16 2015, 09:45 — Ballroom B

Co-Chair(s): Jacques Gigou, *European Space Agency (ESA), France*; Leopold Summerer, *European Space Agency (ESA), The Netherlands*;
Rapporteur(s): George Schmidt, *National Aeronautics and Space Administration (NASA), United States*;

IAC-15.C4.7-C3.5.1

STEP-BY-STEP REALIZATION OF THE INTERNATIONAL NUCLEAR POWER AND PROPULSION SYSTEM (INPPS) MISSION
Frank Jansen, DLR (German Aerospace Center), Germany

IAC-15.C4.7-C3.5.2 (withdrawn)

COMBINED NUCLEAR THERMAL AND ELECTRIC PROPULSION FOR MARS MISSION
Claudio Bruno, United Technology Research Center (UTRC), United States

IAC-15.C4.7-C3.5.3

A COMPARATIVE STUDY BETWEEN NUCLEAR PROPULSION SYSTEMS AND CONVENTIONAL SYSTEMS TO REACH JUPITER'S MOON EUROPA
Rohan Kulkarni, , India

IAC-15.C4.7-C3.5.4

NEW GENERATION ROBOTIC PROBES FOR SAMPLE RETURN MISSIONS: THE PHOBOS CASE
Pierpaolo Pergola, Sitael/Alta, Italy

IAC-15.C4.7-C3.5.5

RESULTS OF LPS MULTI-PHYSICS MODELING OF A NTR IN A NASA PHASE I SBIR
Roger X. Lenard, LPS, United States

IAC-15.C4.7-C3.5.6

THE NUMERICAL STUDY ON THE FLOW STRUCTURE AND LOSE MECHANISM WITHIN THE TIP CLEARANCE OF A HELIUM COMPRESSOR CASCADE
Jiang Bin, Harbin Engineering University, China

IAC-15.C4.7-C3.5.7

ON THE NECESSITY OF MODIFICATIONS TO UN PRINCIPLE III
Roger X. Lenard, LPS, United States

IAC-15.C4.7-C3.5.8

RESEARCH ON CRITICAL TECHNOLOGIES FOR EARTH-TO-MARS SPACE TRANSPORT VEHICLES BASED ON NUCLEAR-THERMAL PROPULSION
Feng Qi, Beijing Institute of Astronautical Systems Engineering, China

IAC-15.C4.7-C3.5.9

REDUCING NEUTRON EMISSION FROM SMALL FUSION ROCKET ENGINES
Samuel Cohen, Princeton Plasma Physics Laboratory, United States

C4.8. Advanced and Combined Propulsion Systems

October 16 2015, 13:30 — Ballroom B

Co-Chair(s): *Young min Yoon, KARI, Korea, Republic of; Zvika Zuckerman, Rafael Advanced Defense Systems Ltd., Israel; Rapporteur(s):* *Constanze Syring, University of Stuttgart, Germany;*

IAC-15.C4.8.1

SOLAR WIND ION FOCUSING THRUSTER (SWIFT) PERFORMANCE ANALYSIS
Thomas Gemmer, North Carolina State University, United States

IAC-15.C4.8.2 (withdrawn)

ASSESSMENT OF EFFICIENCY OF SOLAR THERMAL PROPULSION WITH MULTI-STAGED «CONCENTRATOR-SPECTRAL SELECTIVE ABSORBER—THERMAL ENERGY STORAGE» SYSTEM
Sergey Finogenov, Moscow Aviation Institute (National Research University, MAI), Russian Federation

IAC-15.C4.8.3

HELIOGYRO-CONFIGURED SMALL SPACECRAFT SOLAR SAIL
Peerawan Wiwattananon, United States

IAC-15.C4.8.4

HYPERGOLIC GREEN PROPELLANTS BASED ON THE HTP FOR A FUTURE NEXT-GENERATION SATELLITE PLATFORMS
Wojciech Florczuk, Institute of Aviation, Poland

IAC-15.C4.8.5

THE DEVELOPMENT OF OXYGEN-HYDROGEN ENGINE THAT USES WATER TO PRODUCE HYDROGEN FUEL
Valery Menshikov, Russian Federation

IAC-15.C4.8.6

COMBUSTION CHARACTER OF TURBOCHARGED SOLID PROPELLANT RAMJET(TSPR)
Wei Wang, Science and Technology on Combustion, Internal Flow and Thermal-Structure Laboratory, Northwestern Polytechnical University, China

IAC-15.C4.8.7 (withdrawn)

MAGREP PROPULSION (MAGNETIC REPULSION PROPULSION SYSTEM)
Neeraj Jerauld, Student, India

IAC-15.C4.8.8

MODELING AND TESTING OF A NOVEL THRUSTER CONCEPT FOR SEPARATION OF BODIES IN SPACE
Dan Micheals, Technion, I.I.T., Israel

IAC-15.C4.8.9

OVERHAUL APPROACH IN SPACE SHUTTLE PROPULSION; THINKING BEYOND CHEMICAL PROPULSION AN EVOLUTIONARY TREND IN AEROSPACE PROPULSION
Joshua Nyamweno, Samara State Aerospace University (SSAU), Russian Federation

C4.9. Hypersonic and Combined Cycle Propulsion

October 13 2015, 14:45 — Ballroom B

Co-Chair(s): *Helen Webber, Reaction Engines Ltd., United Kingdom; Riheng Zheng, Chinese Society of Astronautics (CSA), China; Rapporteur(s):* *Salvatore Borrelli, CIRA Italian Aerospace Research Centre, Italy;*

IAC-15.C4.9.1

NUMERICAL AND EXPERIMENTAL STUDIES OF FLAME STABILIZATION IN A CAVITY STABILIZED RBCC COMBUSTOR
Li Wenlong, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.9.2

THE SUPERSONIC WAYERIDER AERODYNAMIC CONFIGURATION WITH ROCKET BASED COMBINED CYCLE(RBCC)ENGINE AERODYNAMIC/PROPULSION INTEGRATION
Yi Li, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.C4.9.3

EFFECTS OF PRIMARY ROCKET NOZZLE EXPANSION RATIO ON COMBUSTION OSCILLATING CHARACTERISTICS IN A RBCC ENGINE COMBUSTOR
Zhiwei Huang, Northwestern Polytechnical University, NPU, China

IAC-15.C4.9.4

STUDY OF THE THERMAL ADJUSTMENT OF RBCC BASED ON TWO-STAGE INJECTIONS
Ya Jun Wang, College of Astronautics, Northwestern Polytechnical University, China

IAC-15.C4.9.5

A NOVEL TURBO-AIDED ROCKET-AUGMENTED RAMJET COMBINED CYCLE ENGINE CONCEPT
Wenhui Ling, Science and Technology on Scramjet Laboratory, Beijing Power Machinery Research Institute, China

IAC-15.C4.9.7

PRECOOLER DEVELOPMENT AND PERFORMANCE ANALYSIS OF A PRECOOLING AIR TURBO ROCKET ENGINE
Yuan Ma, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.9.8

INVESTIGATION OF THE PROPELLANT PROHEATING IN AIR TURBO ROCKET ENGINE
Yuan Ma, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.9.9 (withdrawn)

DETONATION COMBUSTION WAVE STABILIZATION IN SCRAMJETS
Ryan Clark, United States

IAC-15.C4.9.10

NUMERICAL STUDY ON MIXING OF A PASSIVE SCALAR IN SUPERSONIC MIXING LAYERS USING A HYBRID RANS/LES APPROACH
Junhong Feng, Science and Technology on Scramjet Laboratory, National University of Defense Technology, China

IAC-15.C4.9.11

COWL AND CAVITY EFFECTS ON SCRAMJET FUEL MIXING AND COMBUSTION
Won Keun Chang, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

IAC-15.C4.9.12

REAL TIME ESTIMATION OF AIR MASS FLOW RATE FOR SCRAMJET INLET BASED ON MULTI-SENSOR FUSION
Chengyi Su, Science and Technology on Scramjet Laboratory, Beijing Power Machinery Research Institute, China

IAC-15.C4.9.13

STUDY ON THE TURBO-PUMP PERFORMANCE OF THE SCRAMJET FUEL FEED SYSTEM
Shen Chibing, National University of Defense Technology, China

IAC-15.C4.9.14

EXPERIMENTAL AND NUMERICAL INVESTIGATION OF FLOW REACTION AND HEAT TRANSFER WITH SUPERCRITICAL HYDROCARBON FUEL
Zhao Yunlong, China

C4.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): *Giorgio Saccoccia, European Space Agency (ESA), The Netherlands; Helen Webber, Reaction Engines Ltd., United Kingdom; Richard Blott, Space Enterprise Partnerships Limited, United Kingdom; Toru Shimada, Japan Aerospace Exploration Agency (JAXA), Japan;*

IAC-15.C4.IP.1

SPACE GATES: REPURPOSING THE MINI-MAGNETOSPHEREIC PLASMA PROPULSION SYSTEM AS A MASS DRIVER
Zachary Riffle, United States

IAC-15.C4.IP.2

AEROTHERMODYNAMIC EXPERIMENT AND SIMULATION OF SPATIAL EFFECTS IN A DIVERT THRUST CHAMBER IN HYPERSONIC FLOW
Jian Li, Beijing Aerospace Propulsion Institute, China

IAC-15.C4.IP.3

THE MICRO THRUST AUTOMATIC MEASUREMENT SYSTEM OF PLASMA THRUSTER
Jing Li, China

IAC-15.C4.IP.4

DESIGN AND STRUCTURAL CHARACTERISTICS OF GAS GIMBALING APPARATUS IN LOX/KEROSENE ROCKET ENGINE
Jian ZHAO, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.IP.5

GROUND TESTING OF LOW-THRUST SELF-PRESSURIZED HYBRID MOTOR
Olexiy Shynkarenko, University of Brasilia, Brazil

IAC-15.C4.IP.6

QUASI-DIRECT NUMERICAL SIMULATION ON ATOMIZATION AND MIXING CHARACTERISTICS OF A PAIR OF IMPINGING JETS
Jianan Li, The 11st Institute of the Sixth Academy of CAS, China

IAC-15.C4.IP.7

FEASIBILITY STUDY ON NON-TOXIC HYPERGOLIC BI-PROPELLANT THRUSTER USING HYDROGEN PEROXIDE AS AN OXIDIZER
Hongjae Kang, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

IAC-15.C4.IP.8

GAS-PHASE NUCLEAR ROCKET ENGINES AND PROPULSIVE MASS FOR THEM.
Oleg Aleksandrov, AVIASTAR Inc www.aviastar.us, United States

IAC-15.C4.IP.9

FUNDAMENTAL ENERGY PROPULSION SYSTEMS
Leon Africa, South Africa

IAC-15.C4.IP.10 (withdrawn)

NUMERICAL SIMULATION OF GRAIN'S DYNAMIC REGRESSION PROCESS FOR N₂O/HTPB HYBRID ROCKET MOTORS
Yu Zhao, Shanghai Academy of Spaceflight Technology, China

IAC-15.C4.IP.11

EXPERIMENTAL SIMULATION INVESTIGATION OF DIAPHRAGM RUPTURE AND WASHING FOR ROCKET ENGINE IN ARC HEATED AIR FLOW
Cheng Meisha, CAS, China

IAC-15.C4.IP.12

IMPROVED METHOD FOR PIV MEASUREMENT ON HIGH TEMPERATURE VITIATED SUPERSONIC FLOW-FIELD
Xi Wenxiong, State key laboratory of laser propulsion & application, Equipment Academy of PLA, Beijing, China, China

IAC-15.C4.IP.13 (withdrawn)

RESEARCH ON DISCHARGE PLASMA CHARACTERISTICS OF AN ABLATIVE PULSED PLASMA THRUSTER VIA EMISSION SPECTROMETRY
Lei Yang, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.C4.IP.14

VERIFICATION OF THE VENUS TECHNOLOGICAL MISSION MODULE
Jacob Herscovitz, RAFAEL, Israel

IAC-15.C4.IP.15 (withdrawn)

POCKET ROCKET: A RADIO-FREQUENCY ELECTROTHERMAL PLASMA MICRO-THRUSTER
Amelia Greig, Australian National University, Australia

IAC-15.C4.IP.16

FREQUENCY BEHAVIOR OF LIQUID FUELED RAMJET WITH VARIABLE AREA NOZZLE
Qin Yan-ping, Xi'an Aerospace Propulsion Institute, China

IAC-15.C4.IP.17

WALL TEMPERATURE PREDICTION OF REGENERATIVE COOLED ROCKET ENGINE BASED ON A COUPLED HEAT TRANSFER MODEL
Guangxu Wang, The 1st Institute of the Sixth Academy of CAS, China

IAC-15.C4.IP.18

SOLAR THERMAL PROPULSION REVIEW
Marc M. Cohen, Astrotecture™, United States

IAC-15.C4.IP.19

ELECTRO-MAGNETIC VACUUM THRUST PRODUCERS (EMVTP)
Vladimir Shirin, Kazakhstan

IAC-15.C4.IP.20

INVESTIGATION OF FLOW INDUCED PRESSURE DIFFERENCE DURING HIGH ALTITUDE SIMULATION
Jianwen Yang, National Key LAB of Science and Technology on LRE, China

IAC-15.C4.IP.21

NUMERICAL STUDY FOR SIMULATING LIQUID ROCKET ENGINE EXHAUST PLUME USING MULTI-SPECIES UN-REACTED FLOW MODEL
Sunil Kang, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.C4.IP.22

PARAMETRIC STUDY AND SENSITIVITY ANALYSIS OF HYBRID ROCKET MOTORS WITH DOUBLE-TUBE CONFIGURATION
Arnau Pons Lorente, School of Astronautics, Beihang University, China

IAC-15.C4.IP.23 (withdrawn)

DESIGN AND PERFORMANCE EVALUATION OF HYDROGEN PEROXIDE OXIDIZER HYBRID THRUSTER FOR SOUNDING ROCKET SYSTEM
Minwoo Lee, Satrec Initiative, Korea, Republic of

IAC-15.C4.IP.24

ANALYSIS OF SYSTEM DAMPING EFFECT ON TIME-LAG BASED COMBUSTION INSTABILITY MODEL
Guangxu Wang, National Key LAB of Science and Technology on LRE, China

IAC-15.C4.IP.25

ANALYSIS OF A MAGNETO-HYDRO-DYNAMIC (MHD) OBLIQUE DETONATION WAVE ENGINE
Kongqian Sun, Science and Technology on Scramjet Laboratory, Beijing Power Machinery Research Inst, China

IAC-15.C4.IP.26

LIP'S ELECTRIC PROPULSION DEVELOPMENTS FOR CHINESE SATELLITE PLATFORM
Tianping Zhang, Lanzhou Institute of Physics, China

IAC-15.C4.IP.27

PROPELLANT-LESS PROPULSION SYSTEM USING MICROWAVES
Pradeep Mitra, India

IAC-15.C4.IP.28

THERMAL TEST ON AN ION THRUSTER
XINQUAN QIAO, Institute of Spacecraft System Engineering, China Academy of Space Technology (CAST), China

IAC-15.C4.IP.29

EXPERIMENTAL INVESTIGATION OF INFLUENCING FACTORS FOR RELIABLE STARTUP AND STEADY WORK OF 20W MICROWAVE ELECTROMAGNETIC THRUSTER UNDER REALISTIC SPACE CONDITIONS
Rohan M Ganapathy, Hindusthan College of Engineering and Technology, India

IAC-15.C4.IP.30 (withdrawn)

INNOVATIVE SPACE PROPULSION TECHNOLOGY USING VACUUM ARC THRUSTERS
Jonathan Lun, DENEL Spaceteq, South Africa

IAC-15.C4.IP.31

INTERSTELLAR MISSION TO BARNARD'S STAR USING ADVANCED NUCLEAR PROPULSION METHODS
Ugur Guven, United States

IAC-15.C4.IP.32

THEORETICAL MODELING OF THE COMBUSTION OF GEL FUEL DROPLETS
Benveniste Natan, Technion – Israel Institute of Technology, Israel

IAC-15.C4.IP.33

SPACE QUALIFICATIONS OF THE MEMS-BASED SOLID PROPELLANT THRUSTER ARRAY FOR ON-ORBIT VERIFICATION USING CUBE SATELLITE
Sung-Hyeon Han, Republic of Korea, Korea, Republic of

IAC-15.C4.IP.34

THREE GRIDDED ION ENGINES FOR FUTURE HIGH POWER ELECTRIC PROPULSION MISSIONS
Stephen Gabriel, University of Southampton, United Kingdom

IAC-15.C4.IP.35

A NOVEL DESIGN OF MEMS BASED MICROPROPULSION SYSTEM FOR A NANOSATELLITE
Jammalamadaka Mani Sai Suryateja, Birla Institute of Technology and Science (BITS)-Pilani, India

IAC-15.C4.IP.36

VALIDATION WITH CFD SIMULATIONS OF A SIMPLIFIED MODEL OF A HYBRID ROCKET MOTOR
Florin Mingireanu, Romanian Space Agency (ROSA), Romania

IAC-15.C4.IP.37

EXPERIMENTAL STUDY OF FLOW SEPARATION IN A SUBSCALE PARABOLIC CONTOUR NOZZLE
Yibai Wang, Beijing University of Aeronautics and Astronautics, China

IAC-15.C4.IP.38

SLIDING MODE CONTROL FOR HYPERSONIC FLIGHT VEHICLE WITH TIME DELAY ESTIMATION AND COMPENSATION
Xiao Hanshan, China Aerodynamics Research and Development Center, China

IAC-15.C4.IP.39 (withdrawn)

DEVELOPMENT OF A LOW POWER CYLINDRICAL HALL THRUSTER PROPULSION SYSTEM FOR MICROSATELLITES
Carl Pigeon, Space Flight Laboratory, University of Toronto, Canada

IAC-15.C4.IP.40 (withdrawn)

PERFORMANCE AND ENVIRONMENTAL TEST RESULTS OF A NOVEL ELECTRIC PROPULSION TECHNOLOGY FOR SMALL SATELLITES
Natalya Brikner, United States

IAC-15.C4.IP.41

"LOW POWER HALL EFFECT THRUSTER ACTIVITIES AT SITAEL"
Tommaso Misuri, Sitael Spa, Italy

IAC-15.C4.IP.42

IMPROVED MODELING OF ELECTRIC SAIL (E-SAIL) FORCE GENERATION
Thomas Gemmer, North Carolina State University, United States

IAC-15.C4.IP.43

DEVELOPMENT OF LOW POWER ELECTRIC PROPULSION SYSTEM FOR MICRO-SATELLITES
Gal Alon, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.C4.IP.44

AN OVERVIEW OF HOLLOW CATHODES ACTIVITIES AT SITAEL
Riccardo Albertoni, Sitael Spa, Italy

IAC-15.C4.IP.45

PERFORMANCE INCREASE OF LIQUID ROCKET MOTOR THROUGH PUMP MODIFICATION FOR HIGHER INJECTION PRESSURE OPERATION
Florin Mingireanu, Romanian Space Agency (ROSA), Romania

IAC-15.C4.IP.46

"MEPS: PROGRAMME OVERVIEW AND SYSTEM DEVELOPMENT STATUS"
Tommaso Misuri, Sitael Spa, Italy

IAC-15.C4.IP.47

DEVELOPMENT OF A KW-LEVEL PLASMA THRUSTER IN PROJECT SAPERE –STRONG
Fabio Trezzolani, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.C4.IP.48

MICROTHRUSTER DEVELOPMENT FOR TRAJECTORY CORRECTION ON UPPER STAGES AND SATELLITES
Florin Mingireanu, Romanian Space Agency (ROSA), Romania

IAC-15.C4.IP.49

TOWARDS GREEN PROPULSION FOR NEXT-GENERATION ROCKETS WITH HAN-BASED MONOPROPELLANTS
JUN LIU, Shanghai Institute of Space Propulsion, China

IAC-15.C4.IP.50 (withdrawn)

CENTRAL BINARY COLLISION OF POWER-LAW MODEL GEL PROPELLANT DROPLETS: EFFECTS OF N AND K ON MAXIMUM DEFORMATION
Zejun Liu, PLA Information Engineering University, China

IAC-15.C4.IP.51

DEVELOPMENT OF A MOVEABLE SLEEVE INJECTOR WITH A FIXED PINTLE FOR A THROTTLEABLE ROCKET COMBUSTOR
Min Son, Korea Aerospace University, Korea, Republic of

IAC-15.C4.IP.52 (withdrawn)

A SIMPLE DESIGN FOR ABLATIVE LIQUID-FED PULSED PLASMA THRUSTERS FOR SMALL SATELLITES
William Yeong Liang Ling, University of Tokyo, Japan

IAC-15.C4.IP.53

LOW FREQUENCY COMBUSTION INSTABILITY CHARACTERISTICS OF POLYETHYLENE-N₂O BASED HYBRID ROCKET MOTOR
Artur Bertoldi, University of Brasilia, Brazil

IAC-15.C4.IP.54

DESIGN OPTIMIZATION OF A RBCC EJECTOR MODE USING ENTROPY ANALYSIS
Yuntao Zheng, Science and Technology on Scramjet Laboratory, Beijing Power Machinery Research Institute, China

IAC-15.C4.IP.55

PROPULSION SYSTEM OF THE LUNAR LANDER BUILT FOR GOOGLE LUNAR X PRIZE
Nakul Kukar, India

IAC-15.C4.IP.56

SOLID ROCKET MOTOR BURN SIMULATION CONSIDERING COMPLEX 3D PROPELLANT GRAIN GEOMETRIES
Guilherme Mejia, Instituto Tecnológico de Aeronáutica (ITA), Brazil

IAC-15.C4.IP.57

EXPERIMENTAL INSIGHT INTO THE EFFECT OF SOUND INTENSITY ON SMOLDERING COMBUSTION
Vinayak Malhotra, Indian Institute of Technology, India

D1. SPACE SYSTEMS SYMPOSIUM

Coordinator(s): Jill Prince, National Aeronautics and Space Administration (NASA), United States; Reinhold Bertrand, European Space Agency (ESA), Germany;

D1.1. Innovative and Visionary Space Systems Concepts

October 12 2015, 15:15 — Oranim 4

Co-Chair(s): Peter Dieleman, National Aerospace Laboratory (NLR), The Netherlands; Reinhold Bertrand, European Space Agency (ESA), Germany;
Rapporteur(s): Tibor Balint, Royal College of Art, United Kingdom;

IAC-15.D1.1.1

RECENT ADVANCES IN THE CONTROL OF ELECTROACTIVE POLYMER ROLLING ROVERS
Silvio Cocuzza, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.D1.1.2 (withdrawn)

ADAPTATION OF THE CACM-RL ALGORITHM TO THE ATTITUDE CONTROL SYSTEM OF A SATELLITE
Cecilia Gordillo Pintor, Universidad Alcala de Henares, Spain

IAC-15.D1.1.3

NOVEL CONCEPT FOR REAL-TIME HIGH-ACCURACY ATTITUDE AND POSITION DETERMINATION SYSTEM THROUGH EARTH OBSERVATION SATELLITE PAYLOAD
Ran Qedar, Delft University of Technology (TU Delft), Israel

IAC-15.D1.1.4

NEW TECHNOLOGICAL AND SOCIETAL TRENDS AND THEIR CONSEQUENCES ON INNOVATION IN SPACE SYSTEMS
Gil DENIS, Airbus Defence and Space - Space Systems, France

IAC-15.D1.1.5

HIGH PRECISION PENETRATORS FOR EUROPA
Konstantinos Konstantinidis, Universität der Bundeswehr München, Germany

IAC-15.D1.1.6

VALIDATED SIMULATOR FOR SPACE DEBRIS REMOVAL WITH NETS AND OTHER FLEXIBLE TETHERS APPLICATIONS
Wojciech Gołębowski, SKA-Polska, Poland

IAC-15.D1.1.7

STRUCTURE DESIGN AND MODELLING OF AN ORIGAMI-INSPIRED PNEUMATIC SOLAR TRACKING SYSTEM FOR NPU-PHONESAT
Qiao Qiao, National Key Laboratory of Aerospace Flight Dynamics, Northwestern Polytechnical University, China

IAC-15.D1.1.8

A COMPLEX OF SIMULATION MODELS FOR ANALYSIS OF CONCEPTS OF A SATELLITE PACKETS COMMUNICATION NETWORK BASED ON CONSTELLATIONS ON ORBITS OF DIFFERENT HEIGHTS
Tatyana V. Labutkina, Dnepropetrovsk National University named after Oles' GONCHAR, Ukraine

IAC-15.D1.1.9

PHOTOSYNTHESIS AS A SOURCE OF ENERGY IN SPACE
Marco Antonio Cabero Zabalaga, School of Astronautics, Beihang University, China

IAC-15.D1.1.10

MECHANICAL PERFORMANCES ANALYSIS OF THE VARIABLE TOPOLOGY SPACECRAFTS
Xin Ning, Northwestern Polytechnical University, China

D1.2. Enabling Technologies for Space Systems

October 14 2015, 09:45 — Oranim 4

Co-Chair(s): Jean-Paul Aguttes, Centre National d'Etudes Spatiales (CNES), France; Xavier Roser, Thales Alenia Space France, France;
Rapporteur(s): Eiichi Tomita, Japan Aerospace Exploration Agency (JAXA), Japan;

IAC-15.D1.2.1 (withdrawn)

ADVANCED MATERIALS AND MANUFACTURING PROCESSES FOR NEXT GENERATION SPACECRAFT
Joao Lousada, OHB-System AG, Germany

IAC-15.D1.2.2

MPBUS DC POWERLINE COMMUNICATION ELIMINATES WIRING IN LAUNCHERS AND SPACECRAFTS
Yair Maryanka, Yamar Electronics Ltd., Israel

IAC-15.D1.2.3

FIBER-OPTICAL SENSING ON-BOARD SPACECRAFT
Norbert M.K. Lemke, OHB System AG - Munich, Germany

IAC-15.D1.2.4

RESEARCH ON THE OPTIMUM SCRUBBING STRATEGY FOR SPACE USED SRAM-BASED FPGA
Fan Zhang, Beijing Microelectronics Technology Institute, China

IAC-15.D1.2.5

THE INNOVATIVE CONCEPT VERIFICATION FOR ON-ORBIT SOFT CAPTURE USING THE SPACE MULTI-ARM SYSTEM
Zhenghong Dong, Academy of Equipment, China

IAC-15.D1.2.6

DIELECTRIC ELASTOMER SPACE MANIPULATOR: DESIGN AND TESTING
Francesco Branz, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.D1.2.7

LOW-COST PROXIMITY RELATIVE NAVIGATION SENSORS FOR MINIATURE SPACECRAFT AND DRONES
Francesco Sansone, University of Padova - DII, Italy

IAC-15.D1.2.8

SPACEBORNE LARGE-SCALE MEMBRANE PHASED ARRAY DEFORMATION COMPENSATION FOR BEAMFORMING
Bo Yang, Northwestern Polytechnical University, China

IAC-15.D1.2.9

ATTITUDE CONTROL OF SOLAR POWER SATELLITES USING FLUID-RING ACTUATORS
Krishna Kumar, Ryerson University, Canada

IAC-15.D1.2.10
10 INVESTIGATION OF DIELECTRIC SURFACE EFFECTS AND APPLIED VOLTAGE ON COMMUNICATION WINDOWS IN DC-ELECTRONEGATIVE PULSING FOR REENTRY BLACKOUT ALLEVIATION
Siddharth Krishnamoorthy, Student, United States

IAC-15.D1.2.11
TOWARDS A STANDARDIZED GRASPING AND REFUELLING ON-ORBIT SERVICING FOR GEO SPACECRAFT
Alberto Medina, GMV Aerospace & Defence SAU, Spain

IAC-15.D1.2.12
INORGANIC AND ORGANIC SOLAR CELLS FUTURE
Marco Antonio Cabero Zabalaga, China

D1.3. System Engineering - Methods, Processes and Tools (1)

October 14 2015, 14:45 — Oranim 4

Co-Chair(s): Dmitry Payson, United Rocket and Space Corporation, Russian Federation; Tibor Balint, Royal College of Art, United Kingdom;

Rapporteur(s): Franck Durand-Carrier, Centre National d'Etudes Spatiales (CNES), France;

IAC-15.D1.3.1
FRENCH INITIATIVES FOR THE IMPROVEMENT OF SPACE MISSIONS DEVELOPMENT
Thibery Cussac, Centre National d'Etudes Spatiales (CNES), France

IAC-15.D1.3.2
STATUS AND ACTUALIZATION METHODOLOGY OF SPACE ACTIVITIES OF RUSSIA 2013-2020 STATE PROGRAM
Alexander Mordvintsev, Central Research Institute for Machine Building (FGUP TSNIMASH), Russian Federation

IAC-15.D1.3.3
INTRODUCING ECO-DESIGN – ENVIRONMENTAL IMPACT ASSESSMENT IN SPACE SYSTEMS AND SYSTEM ENGINEERING
Jakob Huesing, Rhea for ESA, The Netherlands

IAC-15.D1.3.4
LOW ENERGY IMAGE PROCESSING ALGORITHM TO STUDY THE AGGREGATION OF TARDIGRADES ON A 3U NANOSATELLITE
Ahmad Byagowi, University of Manitoba, Canada

IAC-15.D1.3.5
BE AWARE OF THE SQUAD: LESSONS LEARNT FROM 50 CONCURRENT ENGINEERING STUDIES FOR SPACE SYSTEMS
Andy Braukhane, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.D1.3.6 (withdrawn)
WHEN CONCURRENT TURNS COLLABORATIVE: ADDING FLEXIBILITY TO THE CONCURRENT ENGINEERING FACILITY
Antonio Martelo, German Aerospace Center (DLR), Bremen, Germany

IAC-15.D1.3.7 (withdrawn)
VIRTUAL ENGINEERING FOR DESIGN AND MANUFACTURING OF SPACE PLATFORMS
Zvika Weissman, Siemens, Israel

IAC-15.D1.3.8
TOWARD A NEW SPACECRAFT OPTIMAL DESIGN LIFETIME: EFFECTS OF OBSOLESCENCE, COST OF DURABILITY, AND REDUCED LAUNCH PRICE
Joseph Homer Saleh, Georgia Institute of Technology, United States

IAC-15.D1.3.9 (withdrawn)
LARGE SPACE SYSTEMS RISK, SCHEDULE AND REPORTING COORDINATION
Giancarlo Filippazzo, ESA, Italy

IAC-15.D1.3.10
AUTOMATED RISK AND SUPPORTABILITY MODEL GENERATION FOR REPAIRABLE SYSTEMS
Andrew Owens, Massachusetts Institute of Technology (MIT), United States

IAC-15.D1.3.11
RELIABILITY ANALYSIS OF MULTI-LAUNCH SAMPLE RETURN MISSIONS USING THE SPACE MISSION ARCHITECTURE AND RISK ANALYSIS TOOL (SMART)
Patrick Sipei Wang, University of Stuttgart, Germany

D1.4. Space Systems Architectures

October 15 2015, 09:45 — Oranim 4

Co-Chair(s): Franck Durand-Carrier, Centre National d'Etudes Spatiales (CNES), France; Peter Dieleman, National Aerospace Laboratory (NLR), The Netherlands;

Rapporteur(s): Jill Prince, National Aeronautics and Space Administration (NASA), United States;

IAC-15.D1.4.1
CUBESAT CONSTELLATION DESIGN FOR AIR TRAFFIC MONITORING
Sreeja Nag, NASA Ames Research Center / BAERI, United States

IAC-15.D1.4.2
NETSAT: A FOUR PICO/NANO-SATELLITE MISSION FOR DEMONSTRATION OF AUTONOMOUS FORMATION FLYING
Klaus Schilling, University Wuerzburg, Germany

IAC-15.D1.4.3
COMPARISON OF SOLAR ELECTRIC AND CHEMICAL PROPULSION ARCHITECTURES
Joshua Freeh, NASA Glenn Research Center, United States

IAC-15.D1.4.4
MODULAR ON-ORBIT RENEWABLE & EVOLVABLE SATELLITE (MORE-SAT): A NOVEL SPACECRAFT ARCHITECTURE
Zhi Yang, DFH Satellite Co. Ltd., China

IAC-15.D1.4.5 (withdrawn)
A WEB-CONTROLLED AUTONOMOUS OPERATIONS AND IMAGE PROCESSING SYSTEM FOR THE HODOYOSHI-1 MISSION
Lucas Bremond, Axelspace Corporation, Japan

IAC-15.D1.4.6
NEW CHALLENGES IN THE DESIGN OF COMPONENTS FOR MICRO AND NANO SATELLITES
Stephan Roemer, Astro- und Feinwerktechnik Adlershof GmbH, Germany

IAC-15.D1.4.7
A RADIO-FREQUENCY BASED NAVIGATION METHOD FOR COOPERATIVE ROBOTIC COMMUNITIES IN SURFACE EXPLORATION.
Francisco Garcia-de-Quirós, EMXYS (Embedded Instruments and Systems S.L), Spain

IAC-15.D1.4.8 (withdrawn)
A NOVEL SOFTWARE ARCHITECTURE FOR INTELLIGENT TASK AND HEALTH MANAGEMENT ON COMMUNICATION SATELLITE
Rui Pan, China Academy of Space Technology (CAST), China

IAC-15.D1.4.9
MISSION CONCEPT AND AUTONOMY CONSIDERATIONS FOR ACTIVE DEBRIS REMOVAL
Susanne Peters, Universität der Bundeswehr München, Germany

IAC-15.D1.4.10
METHODOLOGY OF HIERARCHICAL CONTROL OPTIMIZATION FOR SPACECRAFT ORBIT GROUPS
Maxim Matiushin, Federal state unitary enterprise "Central Scientific Research Institute of machine-building" (TsNIIMASH), Russian Federation

IAC-15.D1.4.11
DESIGN AND IMPLEMENTATION OF SPACECRAFT AVIONICS SOFTWARE ARCHITECTURE BASED ON SPACECRAFT ONBOARD INTERFACE SERVICES AND PACKET UTILIZATION STANDARD
Xiongwen He, Beijing Institute of Spacecraft System Engineering, China Academy of Space Technology(CAST), China

IAC-15.D1.4.12
STRUCTURAL HEALTH MONITORING AND METHODS FOR MEASURING THE FUNDAMENTAL FREQUENCY OF SATELLITE LAUNCHER IN FLIGHT
Ilan Weissberg, Israel Aircraft Industries Ltd., Israel

D1.5. Training, Achievements, and Lessons Learned in Space Systems

October 15 2015, 14:45 — Oranim 4

Co-Chair(s): Eichi Tomita, Japan Aerospace Exploration Agency (JAXA), Japan; Klaus Schilling, University Wuerzburg, Germany;

Rapporteur(s): Otfried Liepack, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States;

IAC-15.D1.5.1
TECHDEMOSAT-1 – 'ONE YEAR ON' – IN-ORBIT RESULTS, LESSONS LEARNT AND THE FUTURE
Doug Liddle, Surrey Satellite Technology Ltd (SSTL), United Kingdom

IAC-15.D1.5.2
STSAT-2C MISSION ACHIEVEMENTS WITH ON ORBIT VERIFICATIONS
Kyungin Kang, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

IAC-15.D1.5.3
EMERGENCY COMMUNICATION BY THE WINDS "KIZUNA" IN CASE OF WIDE-AREA DISASTER
Yasuyoshi Hisamoto, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.D1.5.4
BACKUP PLAN FOR REACTION WHEEL FAILURE OF FORMOSAT-2 SATELLITE
An-Ming Wu, National Space Organization, Taiwan, China

IAC-15.D1.5.5
LESSONS LEARNED OF A SYSTEM ENGINEERING APPROACH FOR THE E-ST@R-II CUBESAT ENVIRONMENTAL TEST CAMPAIGN
Gerard Obiols-Rabasa, Politecnico di Torino, Italy

IAC-15.D1.5.6
A LOW COST THRUST STAND FOR TESTING OF NANO-SATELLITE PROPULSION SYSTEMS
Quirino Bellini, University of Rome "La Sapienza", Italy

IAC-15.D1.5.7
STUDY ON OPTICAL REMOTE SENSOR ENVIRONMENT SIMULATION TEST OF COMPLEX THERMAL RESISTANCE MEASUREMENT TECHNOLOGY
Li Xiaoke, Beijing Institute of Space Mechanics&Electricity, China

IAC-15.D1.5.8 (withdrawn)
STATISTICAL ANALYSIS OF CUBESATS IN ORBIT FAILURES
Gerard Obiols-Rabasa, Politecnico di Torino, Italy

D1.6. System Engineering - Methods, Processes and Tools (2)

October 16 2015, 09:45 — Oranim 4

Co-Chair(s): Geilson Loureiro, National Institute for Space Research - INPE, Brazil; Norbert Frischauf, Austria;

Rapporteur(s): Ming Li, China Academy of Space Technology (CAST), China;

IAC-15.D1.6.1
DESIGN DRIVEN APPROACH TO OPTIMIZE THE RESEARCH AND DEVELOPMENT PORTFOLIO OF A TECHNOLOGY ORGANIZATION
Tibor Balint, Royal College of Art, United Kingdom

IAC-15.D1.6.2
USER-CENTRED, LOW-COST, CONTINUOUSLY IMPROVED – EXPERIENCE FROM IMPLEMENTING CONCURRENT ENGINEERING IN INDUSTRY FOR EARLY PHASE SATELLITE DESIGN
Jan-Christian Meyer, OHB System AG-Bremen, Germany

IAC-15.D1.6.3
EARNED VALUE MANAGEMENT CONSIDERING TECHNICAL READINESS LEVEL FOR NEW LAUNCH VEHICLE DEVELOPMENT
Young-In Choi, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.D1.6.4
A MODEL-BASED SYSTEMS ENGINEERING APPROACH FOR VERIFICATION AND VALIDATION OF COMPLEX LARGE-SCALE SYSTEMS
Giuseppe Cataldo, National Aeronautics and Space Administration (NASA)/Goddard Space Flight Center, United States

IAC-15.D1.6.5
STARSIM: A STAND-ALONE TOOL FOR "IN THE LOOP" VERIFICATION
Fabrizio Stesina, Politecnico di Torino, Italy

IAC-15.D1.6.6 (withdrawn)
PREDICTIVE MAINTENANCE FOR FLIGHT SAFETY COMPONENTS PRONE TO SEVERE UNCERTAINTY THROUGH REANALYZING THE CHALLENGER DISASTER: AN INFO-GAP THEORY IMPLEMENTATION
Dori Nissenbaum, TECHNION - Israel Institute of Technology, Israel

IAC-15.D1.6.6
REVIEW ON SATELLITE VIRTUAL ASSEMBLY, INTEGRATION AND TESTING
Eduardo Escobar Burger, National Institute for Space Research - INPE, Brazil

IAC-15.D1.6.7
DEVELOPMENT AND EVALUATION OF SYSTEM ENGINEERING SOFTWARE TOOLS FOR THE SPACE STATION DESIGN WORKSHOP
Emil Nathanson, University of Stuttgart, Germany

IAC-15.D1.6.9
MANNED SPACECRAFT EMERGENCY SEPARATION DURING ATMOSPHERIC ASCENT
Natalia Ovsyannikova, S.P. Korolev Rocket and Space Corporation Energia, Russian Federation

IAC-15.D1.6.10
DESIGN AND APPLICATION OF VISUAL ANALYSIS TOOL OF AEROSPACE MISSION RESOURCE DATA
Deyun PENG, Beijing Aerospace Control Center, China

IAC-15.D1.6.11
THE RESEARCH OF PARTIAL RECONFIGURATION IN SATELLITE RUN-TIME COMPUTER
Rui Pan, China Academy of Space Technology (CAST), China

IAC-15.D1.6.12
THERMAL DESIGN OF LARGE-POWER MULTI-MODE SPATIAL ACTIVE SYNTHETIC APERTURE RADAR ANTENNA
Chuanqiang Zhang, China Academy of Space Technology (CAST), China

D1.7. Hosted Payloads - Concepts, Techniques and Challenges, Missions and Applications

October 16 2015, 13:30 — Oranim 4

Co-Chair(s): DAPENG WANG , China Academy of Space Technology (CAST), China; Igor V. Belokonov , Samara State Aerospace University, Russian Federation;
Rapporteur(s): Steven Arnold , The Johns Hopkins University Applied Physics Laboratory, United States;

IAC-15.D1.7.1
HOSTED PAYLOADS IN CAST: LESSONS LEARNED FROM PAST AND SUGGESTIONS FOR FUTURE
Ming Li, China Academy of Space Technology (CAST), China

IAC-15.D1.7.2
PIGGYBACK PAYLOAD ON THE JSC RSC "PROGRESS" SPACE VEHICLES
Igor V. Belokonov, Samara State Aerospace University (SSAU), Russian Federation

IAC-15.D1.7.3 (withdrawn)
SOLAR PARTICLE ANALYSER EXPERIMENT (SPAX)
Andres Russu, Universidad Alcala de Henares, Spain

IAC-15.D1.7.4
PAYLOADS INTEGRATION PROCESS ON CHINESE SPACE STATION
Yanmei Jia, Technology and Engineering Center for Space Utilization, CAS, China

IAC-15.D1.7.5
A DESIGN FRAMEWORK FOR SPACE RESOURCE-SHARING SATELLITE FEDERATIONS
Ignasi Lluch, Skolkovo Institute of Science and Technology, Russian Federation

IAC-15.D1.7.6
RESEARCH ON REUSABLE SPACE EXPERIMENT SATELLITE---- REUSESAT
Ming Li, China Academy of Space Technology (CAST), China

IAC-15.D1.7.7
METHODOLOGY FOR ASSEMBLY, INTEGRATION AND VERIFICATION OF THE AVIONIC SYSTEM OF A TECHNOLOGICAL EXPERIMENT ON-BOARD THE INTERNATIONAL SPACE STATION
Nicole Viola, Politecnico di Torino, Italy

IAC-15.D1.7.8
A MODEL-BASED SYSTEMS ENGINEERING APPROACH TO DESIGN GENERIC SYSTEM PLATFORMS AND MANAGE SYSTEM VARIANTS APPLIED TO MASCOT FOLLOW-ON MISSIONS
Caroline Lange, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.D1.7.9
NANOSATELLITE MISSION ASSURANCE – A TURNING POINT
Zeger de Groot, ISIS - Innovative Solutions In Space BV, The Netherlands

IAC-15.D1.7.10
RELIABILITY GROWTH OF A NANO-SATELLITE THROUGH TESTING
Mengu Cho, Kyushu Institute of Technology, Japan

D1.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Jill Prince , National Aeronautics and Space Administration (NASA), United States; Reinhold Bertrand , European Space Agency (ESA), Germany;

IAC-15.D1.IP.1 (withdrawn)
COLORING THE FUTURE - AN INNOVATIVE APPROACH FOR DEALING WITH "DOOMSDAY" NEOS
Meidad Pariente, SPACECIALIST, Effective Space Solutions, Israel

IAC-15.D1.IP.2 (withdrawn)
PLATFORM ROBUSTNESS FOR UNKNOWN SPACE MISSIONS
Otavio Luiz Bogossian, Brazilian National Institute for Space Research - INPE, Brazil

IAC-15.D1.IP.3 (withdrawn)
INTEGRATED CONTROL/STRUCTURE DESIGN METHOD FOR FUTURE LARGE FLEXIBLE SPACECRAFT
Jose Alvaro PEREZ GONZALEZ, ISAE - Institut Supérieur de l'Aéronautique et de l'Espace, France

IAC-15.D1.IP.4 (withdrawn)
RESEARCH ON THE CONCEPT, MECHANISM AND MODELING OF SPACE SOFT CAPTURE TECHNIQUE IN THE AREA OF ON-ORBIT SERVICING
Fan Yang, Academy of Equipment, China

IAC-15.D1.IP.5 (withdrawn)
ADAPTIVE FAULT TOLERANT SERVO SCHEME FOR LAUNCH VEHICLE CONTROL ACTUATION SYSTEM
Baby Sebastian, Indian Space Research Organization (ISRO), India

IAC-15.D1.IP.6 (withdrawn)
INDIRECT ADAPTIVE FUZZY H-INFINITE CONTROL OF THE FREE-FLOATING SPACE ROBOT SYSTEM WITH FLEXIBLE JOINTS
Lijiao Zhang, Fuzhou University, China

IAC-15.D1.IP.7 (withdrawn)
DECENTRALIZED ADAPTIVE NEURAL NETWORK STABILIZATION CONTROL AND VIBRATION SUPPRESSION OF FLEXIBLE ROBOT MANIPULATOR DURING CAPTURE A TARGET
Jing Cheng, Fuzhou University, China

IAC-15.D1.IP.8
INVESTIGATION ON DECONTAMINATION DESIGN AND CONTROL SYSTEM FOR SPACECRAFT
Kouan Hao, Aerospace System Engineering Shanghai, China, China

IAC-15.D1.IP.9
THE METHODOLOGY OF TIME-EFFICIENT ESTIMATION OF FLYING VEHICLE'S CHARACTERISTICS AT THE STAGE OF DRAFT DESIGN USING THE MULTI-DISCIPLINARY SOFTWARE
Dmitriy Grishko, Bauman Moscow State Technical University, Russian Federation

IAC-15.D1.IP.10
A MULTIFORM DATA SYNCRETIZED DISPLAY SYSTEM BASED ON VIRTUOLS
Jingqi Cai, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.D1.IP.11
REACTIONLESS WORKSPACE OF A MULTI-DEGREES-OF-FREEDOM SPACE MANIPULATOR
Silvio Cocuzza, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.D1.IP.12
SPACE MANIPULATOR DESIGN FOR A HIGH PERFORMANCE REACTION CONTROL
Silvio Cocuzza, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.D1.IP.13 (withdrawn)
ANALYSIS AND COMPARISON OF DIFFERENT FORMAL METHODS ON THE STATIC BEHAVIOR FOR FAULT-TOLERANT SYSTEMS
Zheng WANG, Zhejiang University, China

IAC-15.D1.IP.14 (withdrawn)
FRAGILITY INDEX AS A TECHNICAL PERFORMANCE MEASURE (TPM) DURING A SYSTEM LIFE CYCLE: A CASE STUDY ON ITS APPLICATION TO MONOLITHIC AND FRACTIONATED SPACECRAFT.
Antonio Pugliese, Stevens Institute of Technology, United States

IAC-15.D1.IP.15
VISION-BASED LUNAR VIRTUAL SURFACE GENERATION USING SHAPE-FROM-SHADING METHOD
Yun-young Kim, Korea Advanced Institute of Science and Technology (KAIST), Korea, Republic of

IAC-15.D1.IP.16
A PROPOSAL FOR UPDATING THE BRAZILIAN DATA COLLECTING SYSTEM
Geilson Loureiro, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

IAC-15.D1.IP.17 (withdrawn)
A SYSTEMS ENGINEERING APPROACH FOR ACCOMMODATING DISRUPTIVE SPACE TECHNOLOGIES
Tiago Henrique Matos de Carvalho, Cranfield University, United Kingdom

IAC-15.D1.IP.18
DECOUPLING GROSS MOTION AND VIBRATION OF FREE-FLOATING SPACE ROBOTS IN FREQUENCY AND TIME DOMAIN
Teng Zhang, College of Astronautics, Northwestern Polytechnical University, China

IAC-15.D1.IP.19
MISSION DESIGN "SATELLITE LIBERTAD 2"
Jorge Soliz, Sergio Arboleda University, Colombia

IAC-15.D1.IP.20
OPTIMUM OPEN-LOOP ACTUATOR DESIGN OF HIGH STABILITY POINTING MECHANISMS FOR HIGH PRECISION REMOTE SENSING SATELLITES
Rui Li, Beijing Institute of Control Engineering, China

IAC-15.D1.IP.21
A RELIABLE MULTICORE PROCESSOR DESIGN FOR SPACE APPLICATIONS
Cao Hui, Xi'an Microelectronics Technology Institute, China

IAC-15.D1.IP.22 (withdrawn)
PLATFORM ROBUSTNESS FOR UNKNOWN SPACE MISSIONS
Otavio Luiz Bogossian, Brazilian National Institute for Space Research - INPE, Brazil

D2. SPACE TRANSPORTATION SOLUTIONS AND INNOVATIONS SYMPOSIUM

Coordinator(s): John M. Horack, Teledyne Brown Engineering, United States; Ulf Palmnäs , GKN Aerospace Engine Systems, Sweden;
Secretary(s): Steve Creech , National Aeronautics and Space Administration (NASA), United States;

D2.1. Launch Vehicles in Service or in Development

October 12 2015, 15:15 — Teddy C

Co-Chair(s): Julio Aprea , European Space Agency (ESA), France; Randolph Kendall , The Aerospace Corporation, United States;
Rapporteur(s): Ko Ogasawara , Mitsubishi Heavy Industries, Ltd., Japan;

IAC-15.D2.1.1
THE ABILITY STRIDES OF NEW GENERATION LAUNCH VEHICLES OF CHINA
Zeng Dong, China Academy of Launch Vehicle Technology(CALT), China

IAC-15.D2.1.2
NASA'S SPACE LAUNCH SYSTEM PROGRAM UPDATE
Todd May, NASA Marshall Space Flight Center, United States

IAC-15.D2.1.3
SLS-ORION MISSIONS LEADING TO HUMANS ON MARS
Don Sauvageau, Orbital ATK, United States

IAC-15.D2.1.4
ARIANE 6 NEW CONCEPT, NEW GOVERNANCE STATUS AND PERSPECTIVES
Guy Pilchen, European Space Agency (ESA), France

IAC-15.D2.1.5
ARIANE 5 ECA ADAPTATION AND ARIANE 5 ES LAUNCHER PREPARATION FOR GALILEO FOC
Daniel de Chambure, European Space Agency (ESA), France

IAC-15.D2.1.6
THE STATUS OF EPSILON LAUNCH VEHICLE'S FURTHER DEVELOPMENT
Ryoma Yamashiro, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.D2.1.7
IXV, A LONG WAY FROM THE "CONCEPT MISSION DESIGN" TO VEGA 4TH CONSECUTIVE SUCCESS
Francois Battie, ELV S.p.A., Italy

IAC-15.D2.1.8
PROGRESS ON SKYLON AND SABRE
Philippa Davies, Reaction Engines Ltd., United Kingdom

IAC-15.D2.1.9
TRANSFORMING SPACE ACCESS WITH FLEXIBILITY: STRATOLAUNCH
Chuck Beames, Vulcan Aerospace Corp., United States

D2.2. Launch Services, Missions, Operations and Facilities

October 13 2015, 09:45 — Teddy C

Co-Chair(s): Luigi Bussolino , Bussolino and Associates, Italy; Yves Gérard , Astrium Space Transportation, France;
Rapporteur(s): Igor V. Belokonov , Samara State Aerospace University (SSAU), Russian Federation;

IAC-15.D2.2.1
THE NEW ARIANE U/S TEST FACILITIES P5.2
Rainer Schürmanns, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.D2.2.2 (withdrawn)
THE RESEARCH OF TEST AND LAUNCH CONTROL TECHNOLOGY ON NEW GENERATION LAUNCH VEHICLES
Guo Zhonghai, China Xichang Satellite Launch Center, China

IAC-15.D2.2.3 (withdrawn)
STAKES AND PERSPECTIVES OF THE GUIANA SPACE CENTRE, THE EUROPEAN SPACEPORT
Bernard Chemou, Centre National d'Etudes Spatiales (CNES), French Guiana

IAC-15.D2.2.4
THE PROBLEMS OF THE RATIONAL USE OF LAUNCH SITES OF THE ONE-TYPE LAUNCH VEHICLES
Svetlana Pastukhova, Central Research Institute for Machine Building (FGUP TSNIIIMASH), Russian Federation

IAC-15.D2.2.5 (withdrawn)
AN UPDATED MODEL FOR EXPENDABLE LAUNCH VEHICLES' COSTS ESTIMATION
Adam Okninski, -, Poland

IAC-15.D2.2.6 (withdrawn)
AN ANALYSIS OF THE LAUNCH INDUSTRY'S CAPABILITY TO MEET FUTURE DEMAND
Sirisha Bandla, Commercial Spaceflight Federation, United States

IAC-15.D2.2.7
THE ROLE OF EUROCKOT LAUNCH SERVICES GMBH IN LAUNCHING SENTINEL SATELLITES
Peter Freeborn, Eurockot Launch Services GmbH, Germany

IAC-15.D2.2.8
APPLICATION OF THE FRENCH SPACE OPERATION ACT FOR THE ARIANE 5 ES GALILEO MISSION AND OPERATIONS
Nicolas Verstappen, France

IAC-15.D2.2.9
MATHEMATICAL MODELS FOR RISK AND DANGER ZONES IN CASE OF SMALL ORBITAL LAUNCHERS
Teodor-Viorel Chelaru, University POLITEHNICA of Bucharest - Research Center for Aeronautics and Space, Romania

D2.3. Upper Stages, Space Transfer, Entry and Landing Systems

October 13 2015, 14:45 — Teddy C

Co-Chair(s): *Christophe Bonnal, Centre National d'Etudes Spatiales (CNES), France; Oliver Kunz, RUAG Space AG, Switzerland;*

Rapporteur(s): *Oleg Ventskovskiy, Ukraine;*

IAC-15.D2.3.1
DEVELOPMENT OF ORION EUROPEAN SERVICE MODULE PROPULSION SUBSYSTEM IN FULL SPEED TOWARDS CRITICAL DESIGN REVIEW
Markus Jäger, Astrium Space Transportation, Germany

IAC-15.D2.3.2
DISTINCTIVE FEATURES OF A TECHNICAL LAYOUT OF THE SPACE VEHICLES WITH NUCLEAR POWER PLANTS ONBOARD IN THE PERFORMANCE OF GLOBAL PROBLEMS OF MODERN AGE
Mykola M. Slyunyaev, Yuzhnoye State Design Office, Ukraine

IAC-15.D2.3.3
ROBOTIC REFUELING SYSTEM FOR SPACE PLATFORM SERVICING
Michèle Lavagna, Politecnico di Milano, Italy

IAC-15.D2.3.4
SOLID-PROPELLANT LAUNCHER GUIDANCE WITH LINEAR SEGMENTATION OF THE THRUST VARIATION
Abel Nepomuceno, Institute of Aeronautics and Space (IAE), Brazil

IAC-15.D2.3.5
ENSURING OPERATING EFFICIENCY OF ILV SPACE STAGES PROPELLANT FEEDING SYSTEMS IN DIFFERENT OPERATING CONDITIONS
Olexandr Kashanov, Yuzhnoye State Design Office, Ukraine

IAC-15.D2.3.6
ATTITUDE CONTROL OF UPPER STAGE WITH A GIMBALED THRUSTER DURING ORBIT TRANSFER
Zhaohui Wang, Beihang University, China

IAC-15.D2.3.7
ATMOSPHERIC RE-ENTRY SYSTEMS WITH FLEXIBLE AND INFLATABLE TECHNOLOGIES
Luigi Mascolo, Polytechnic of Turin, Italy

IAC-15.D2.3.8
DOCKING MECHANISM CONCEPTS FOR THE STRONG MISSION
Stefano Mauro, Politecnico di Torino, Italy

IAC-15.D2.3.9
DOCKING IMPENDER - PRELIMINARY PERFORMANCE RESULTS
Mateusz Józefowicz, Private, Poland

D2.4. Future Space Transportation Systems

October 14 2015, 09:45 — Teddy C

Co-Chair(s): *Charles Cockell, Open University, United Kingdom; Charles E. Cockrell Jr., National Aeronautics and Space Administration (NASA), United States; José Gavira Izquierdo, European Space Agency (ESA), The Netherlands;*
Rapporteur(s): *Philippa Davies, Reaction Engines Ltd., United Kingdom;*

IAC-15.D2.4.1 (withdrawn)
PANEL DISCUSSION: TRENDS IN FUTURE LAUNCHER SYSTEM CONCEPTS
Charles E. Cockrell Jr., National Aeronautics and Space Administration (NASA), United States

IAC-15.D2.4.2 (withdrawn)
MEASURING CRYOGENIC TWO-PHASE FLOW DURING COASTING FLIGHT OF S-310-43 SOUNDING ROCKET FOR UPGRADING H-IIA UPPER STAGES AND FUTURE REUSABLE ROCKETS
Hiroaki Kobayashi, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.D2.4.3
REUSABLE SPACE TUG CONCEPT AND MISSION
Nicole Viola, Politecnico di Torino, Italy

IAC-15.D2.4.4
A FEASIBILITY STUDY ON A SINGLE STAGE TO ORBIT SPACE LAUNCH VEHICLE WITH CONCEPTUAL AIRBREATHING ENGINES
Jianxing Zhou, Beijing Aerospace Technology Institute, China

IAC-15.D2.4.5
CONCEPTUAL DESIGN AND OPERATIONS OF A CREWED REUSABLE SPACE TRANSPORTATION SYSTEM
Nicole Viola, Politecnico di Torino, Italy

IAC-15.D2.4.6
OPTIMISATION OF 6DOF ASCENT AND DESCENT TRAJECTORIES FOR LIFTING BODY SPACE ACCESS VEHICLES
Federico Toso, University of Strathclyde, Glasgow, United Kingdom

IAC-15.D2.4.7
LEEM ROCKOON PROJECT: DEVELOPING A HIGH ALTITUDE PLATFORM
Benjamin Uceda Gómez, LEEM - Laboratory for Space and Microgravity Research, Spain

IAC-15.D2.4.8
OCAM-G – A GNSS TECHNOLOGY IN-ORBIT DEMONSTRATION EXPERIMENT FOR FUTURE EUROPEAN LAUNCHER APPLICATION
Markus Markgraf, DLR (German Aerospace Center), Germany

D2.5. Future Space Transportation Systems Technologies

October 14 2015, 14:45 — Teddy C

Co-Chair(s): *Patrick M. McKenzie, RUAG Space, United States; Sylvain Guédron, ESA - APT, France;*
Rapporteur(s): *Pier Paolo de Matteis, CIRA Italian Aerospace Research Centre, Italy;*

IAC-15.D2.5.1
TECHNOLOGICAL DEMONSTRATOR FOR REUSABLE LAUNCHERS
Christophe Bonnal, Centre National d'Etudes Spatiales (CNES), France

IAC-15.D2.5.2
MANUFACTURING OF NEXT GENERATION LAUNCHERS' PAYLOAD FAIRING BY MEANS OF COST EFFICIENT OUT-OF-AUTOCLAVE PROCESS
Jean-Charles Bonnet, RUAG Space AG, Switzerland

IAC-15.D2.5.3
UPDATE ON RISK REDUCTION ACTIVITIES FOR A LIQUID ADVANCED BOOSTER FOR NASA'S SPACE LAUNCH SYSTEM
Andrew Crocker, Dynetics, United States

IAC-15.D2.5.4
TECHNOLOGIES AND VERIFICATIONS FOR REUSABLE SOUNDING ROCKET SYSTEM
Satoshi Nonaka, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.D2.5.5
CRYOFENIX (CRYOGENIC SOUNDING ROCKET EXPERIMENT) RESULTS
BIANCHI SEBASTIEN, Air Liquide, France

IAC-15.D2.5.6
COST-EFFECTIVE SOLUTION FOR THRUST VECTOR CONTROL OF MICROSATELLITE LAUNCH VEHICLES
Matthias Hecht, DLR (German Aerospace Center), Germany

IAC-15.D2.5.7
IODINE PROPULSION ADVANTAGES FOR LOW COST MISSION APPLICATIONS
John Dankanich, NASA Marshall Space Flight Center, United States

IAC-15.D2.5.8
MULTIDISCIPLINARY DESIGN OPTIMIZATION OF GROUND AND AIR-LAUNCHED HYBRID ROCKETS
Francisco Miranda, Delft University of Technology (TU Delft), The Netherlands

IAC-15.D2.5.9
THERMAL AND FUNCTIONAL SOLUTIONS AND TECHNOLOGIES FOR FUTURE LAUNCHER CRYOGENIC PROPULSION MODULES
BIANCHI SEBASTIEN, Air Liquide, France

IAC-15.D2.5.10
DEVELOPMENT OF NEW AND INNOVATIVE WELDING AND FORMING TECHNOLOGIES AND THEIR APPLICATION IN THE FRAME OF THE ARIANE PROGRAM
Markus Kahnert, MT Aerospace AG, Germany

D2.6. Future Space Transportation Systems Verification and In-Flight Experimentation

October 15 2015, 09:45 — Teddy C

Co-Chair(s): *David E. Glass, National Aeronautics and Space Administration (NASA), United States; Giorgio Tumino, European Space Agency (ESA), France;*
Rapporteur(s): *Tetsuo Hiraiwa, Japan Aerospace Exploration Agency (JAXA), Japan;*

IAC-15.D2.6.1
THE IXV PROGRAMME: FROM DESIGN TO FLIGHT EXPERIENCE
Giorgio Tumino, European Space Agency (ESA), France

IAC-15.D2.6.2
MISSION AND FLIGHT MECHANICS OF IXV FROM DESIGN TO POSTFLIGHT.
Rodrigo Haya Ramos, Deimos Space S.L., Spain

IAC-15.D2.6.3
CMC WINDWARD TPS AND NOSE OF THE IXV VEHICLE : QUALIFICATION, INTEGRATION, AND FLIGHT
Thierry Pichon, Herakles, Safran, France

IAC-15.D2.6.4
IXV AVIONICS, FROM DESIGN TO MISSION RESULTS
Giovanni Malucchi, Italy

IAC-15.D2.6.5
A HIGH RELIABILITY COMPUTER FOR AUTONOMOUS MISSIONS, DEMONSTRATED ON THE ESA IXV FLIGHT
Frank Preud'homme, QinetiQ Space nv, Belgium

IAC-15.D2.6.7
THE CHALLENGES OF THE AUTONOMOUS SOFTWARE FOR THE INTERMEDIATE EXPERIMENTAL VEHICLE (IXV)
Carlos Flores, G.M.V. Space and Defence, S.A., Spain

IAC-15.D2.6.7
PAVING THE EUROPEAN RE-ENTRY WAY: THE IXV VEHICLE MODEL IDENTIFICATION SUBSYSTEM
Juan Antonio Bejar-Romero, GMV Aerospace & Defence SAU, Spain

IAC-15.D2.6.8 (withdrawn)
LESSONS LEARNED FROM THE IXV FLAP CONTROL SYSTEM DEVELOPMENT
Guillaume Dedeurwaerder, S.A.B.C.A, Belgium

IAC-15.D2.6.9
IXV RECOVERY OPERATIONS
Stefano Bologna, Thales Alenia Space Italia, Italy

IAC-15.D2.6.10
CIRA USV3 AND THE ITALIAN CONTRIBUTION TO EUROPEAN RE-ENTRY CAPABILITIES AND EXPECTATIONS
Mario De Stefano Fumo, CIRA Italian Aerospace Research Centre, Italy

D2.7. Small Launchers: Concepts and Operations

October 15 2015, 14:45 — Teddy C

Co-Chair(s): *Harry A. Cikaneck, National Oceanic and Atmospheric Administration (NOAA), United States; Nicolas Bérend, Office National d'Etudes et de Recherches Aéropatiales (ONERA), France;*
Rapporteur(s): *Emmanuelle David, German Aerospace Center (DLR), Germany;*

IAC-15.D2.7.1
LAUNCHERONE: VIRGIN GALACTIC'S DEDICATED LAUNCH VEHICLE FOR SMALL SATELLITES
William Pomerantz, Virgin Galactic L.L.C, United States

IAC-15.D2.7.2
ENABLING A ROBUST, SMALL SATELLITE LAUNCH SYSTEM
Steve Cook, Dynetics, United States

IAC-15.D2.7.3
VLM-1 MICROSATELLITE LAUNCHER
Josef Ettl, DLR (German Aerospace Center), Germany

IAC-15.D2.7.4
A DETAILED DESIGN OF A EA/LOX LIQUID ROCKET FOR A SUB-ORBITAL FLIGHT
Ryuichiro KANAI, Interstellar Technologies Inc., Japan

IAC-15.D2.7.5
DEVELOPMENT OF A FAMILY OF AIR-LAUNCHED SMALLSAT LAUNCH VEHICLES FOR AFFORDABLE AND RESPONSIVE SPACE ACCESS
Charles Lauer, Rocketplane Global, Inc., United States

IAC-15.D2.7.6 (withdrawn)
PHOENIX: THE BARRIER SOUND CROSSING EXPERIMENT BY A SOUNDING ROCKET
Alexandre Mesland, Université de Technologie de Compiègne, France

IAC-15.D2.7.7
THE INFINITE STAGING ROCKET – A PROGRESS TO REALIZATION
Vitaly Yemets, Oles Honchar Dnipropetrovsk National University, Ukraine

IAC-15.D2.7.8
BLOOSTAR: A BALLOON-ASSISTED LIGHTWEIGHT LAUNCHER TO ORBIT MICROSATELLITES
Annelie Schoenmaker, zero2infinity, Spain

IAC-15.D2.7.9
FEASIBILITY OF A LOW-COST SOUNDING ROCKOON PLATFORM
Adam Okninski, -, Poland

IAC-15.D2.7.10

DESIGN STUDY OF THE SMALL ROCKET LAUNCHER USING AN ENVIRONMENTAL-FRIENDLY PROPELLANT
Kamil Sobczak, Institute of Aviation, Poland

IAC-15.D2.7.11 (withdrawn)

RUSSIAN CARRIER ROCKET OF SUPERLIGHT CLASS FOR CHEEP ACCESS TO ORBIT: PRINCIPLES DESIGN AND POSSIBLE CREATION BASED ON EXISTING ACHIEVEMENTS
Igor V. Belokonov, Samara State Aerospace University (SSAU), Russian Federation

IAC-15.D2.7.12 (withdrawn)

CONCEPTUAL STUDY OF AN AIR-LAUNCHED ROCKET WITH LIFTING-BODY CONFIGURATION
Yi Li, Northwestern Polytechnical University, China

D2.8-A5.4. Going Beyond the Earth-Moon System: Human Missions to Mars, Libration Points, and NEO's

October 16 2015, 09:45 — Teddy C

Co-Chair(s): Charles E. Cockrell Jr., National Aeronautics and Space Administration (NASA), United States; Ernst Messerschmid, University of Stuttgart, Germany; K. Bruce Morris, Teledyne Brown Engineering, United States; Yuguang Yang, China Aerospace Science & Industry Corporation (CASIC), China;

Rapporteur(s): Gerhard Schwehm, European Space Agency (ESA), Spain; Steve Creech, National Aeronautics and Space Administration (NASA), United States;

IAC-15.D2.8-A5.4.1

NEO DEFLECTION MISSION CAPABILITIES
Nahum Melamed, The Aerospace Corporation, United States

IAC-15.D2.8-A5.4.2

NASA'S SPACE LAUNCH SYSTEM MISSION CAPABILITIES FOR EXPLORATION
Steve Creech, National Aeronautics and Space Administration (NASA), United States

IAC-15.D2.8-A5.4.3

AN EARTH-MARS CRUISER BASED ON BUZZ ALDRIN CYCLER FOR FUTURE MARTIAN BASE
Yang Chen, CASIC, China

IAC-15.D2.8-A5.4.4

CAMPAIGN-LEVEL DYNAMIC NETWORK MODELLING FOR SPACEFLIGHT LOGISTICS FOR THE FLEXIBLE PATH CONCEPT
Koki Ho, University of Illinois at Urbana-Champaign, United States

IAC-15.D2.8-A5.4.6

LIMITING VELOCITIES OF SPACECRAFT MOTION IN EARTH AND MARTIAN ATMOSPHERES
Vladimir Lapygin, Central Research Institute for Machine Building (FGUP TSNIIMASH), Russian Federation

IAC-15.D2.8-A5.4.7 (withdrawn)

MANNED ROVERS FOR MARS EXPLORATION, MOON AND OTHER PLANETS
Oleg Aleksandrov, AVIASTAR Inc www.aviastar.us, United States

IAC-15.D2.8-A5.4.8

NEXT STEPS IN THE EVOLVABLE PATH TO MARS
Joe Cassidy, Aerojet Rocketdyne, United States

IAC-15.D2.8-A5.4.9

THE JOURNEY TO MARS: NASA'S EXPLORATION PLANNING AND THE IMPORTANCE OF THE SPACE LAUNCH SYSTEM
Kathy Laurini, National Aeronautics and Space Administration (NASA), United States

D2.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): John M. Horack, Teledyne Brown Engineering, United States; Ulf Palmnäs, GKN Aerospace Engine Systems, Sweden;

IAC-15.D2.IP.1

STANDARDIZATION OF SMALL SATELLITE LAUNCH SERVICES
Abhijeet Gahlot, India

IAC-15.D2.IP.2

DESIGNING AND TESTING PARACHUTE RECOVERY SYSTEM FOR SOUNDING ROCKET
Blazej Marciniak, Institute of Aviation, Poland

IAC-15.D2.IP.3

ON A METHOD OF CONTROLLING THE ANGLE OF ENTRY IN THE ATMOSPHERE
Maxim Dzhabarov, Russian Federation

IAC-15.D2.IP.4 (withdrawn)

THE METHOD FOR CALCULATE ADDED MASS OF PARACHUTE
Huang Wei, Beijing Institute of Mechanical & Electrical Engineering, China

IAC-15.D2.IP.5

THE APPLICATION OF UPPER STAGES IN SPACE MISSIONS
Feng Qi, Beijing Institute of Astronautical Systems Engineering, China

IAC-15.D2.IP.6

INNOVATIVE LAUNCH VEHICLE TECHNOLOGIES
Borys Kovalov, Ukraine

IAC-15.D2.IP.7

RING ROCKETS
Oleg Aleksandrov, AVIASTAR Inc www.aviastar.us, United States

IAC-15.D2.IP.8

THE CHOICE OF CANDIDATE LAUNCHERS FOR OPERATION FROM A NATIONAL SPACEPORT
Gerald Webb, Commercial Space Technologies Ltd., United Kingdom

IAC-15.D2.IP.9

INTEGRATED AUTOMATED SYSTEM AS ONE OF THE KEY ELEMENTS OF THE VOSTOCHNY COSMODROME OPERATION SYSTEM
Alla Serikova, Central Research Institute of Machine Building (FSUE/TSNIIMASH), Russian Federation

IAC-15.D2.IP.10

A PRACTICAL MODEL OF CMOS INTEGRATED HALL SENSOR
Bai Xiaohu, China

IAC-15.D2.IP.11

FRAMEWORK DESIGN OF AEROSPACE VEHICLES COMMON MISSION PLANNING SYSTEM FOR PLAN OPTIMIZATION
Ziyang Song, Beijing Electro-Mechanical Engineering Institute, CASIC, China

IAC-15.D2.IP.12 (withdrawn)

STUDY ON THE FLOW COEFFICIENT RELATION BETWEEN HELIUM AND NITROGEN OF ORIFICE PLATE USED IN ROCKET PRESSURIZATION SYSTEM
Wang Huilong, Beijing Aerospace Institute of Metrology & Measurement Technology, China

IAC-15.D2.IP.13

RESPONSIVE TEST TECHNOLOGY FOR CHINESE NEXT GENERATION LAUNCH VEHICLE
Zhengyu Song, China Academy of Launch Vehicle Technology, China

IAC-15.D2.IP.14

FAST TERMINAL SLIDING MODE ATTITUDE CONTROL FOR HYPERSONIC FLIGHT VEHICLE WITH DISTURBANCE OBSERVER
Jie Liang, China

IAC-15.D2.IP.15

RENEWABLE ENERGY BASED SPACE COLONY
SOURAV KARMAKAR, India

D3. 13th IAA SYMPOSIUM ON BUILDING BLOCKS FOR FUTURE SPACE EXPLORATION AND DEVELOPMENT

Coordinator(s): Alain Pradier, European Space Agency (ESA), The Netherlands; John C. Mankins, ARTEMIS Innovation Management Solutions, LLC, United States;

D3.1. Strategies & Architectures as the Framework for Future Building Blocks in Space Exploration and Development

October 12 2015, 15:15 — 312

Co-Chair(s): John C. Mankins, ARTEMIS Innovation Management Solutions, LLC, United States; Maria Antonietta Perino, Thales Alenia Space Italia, Italy;

Rapporteur(s): Anouck Girard, University of Michigan, United States; Horst Rauck, DLR, German Aerospace Center, Germany;

IAC-15.D3.1.1

INTERNATIONAL PARTICIPATION IN A REASONABLE AND SAFE STRATEGY FOR HUMANS TO MARS
Marc M. Cohen, Astrostructure™, United States

IAC-15.D3.1.2

PARTNERSHIPS AND FUTURE OF NASA
Elizabeth Blome, NASA, United States

IAC-15.D3.1.3

BUILDING BLOCK-BASED "IBOSS" APPROACH: FULLY MODULAR SYSTEMS WITH STANDARD INTERFACE TO ENHANCE FUTURE SATELLITES
Martin Kortmann, RWTH Aachen University - Institut fuer Leichtbau, Germany

IAC-15.D3.1.4

PROMETHEUS: A NOVEL HUMAN SETTLEMENT DESIGN FOR MARS
Shrirup Nambiar, MANAV RACHNA COLLEGE OF ENGINEERING, FARIDABAD, India

IAC-15.D3.1.5

BUILDING BLOCKS OF A FLEXIBLE ARCHITECTURE FOR OUTER SPACE EXPLORATION
Pierpaolo Pergola, Sital/Alta, Italy

IAC-15.D3.1.6

MARCO POLO: ATMOSPHERIC IN-SITU RESOURCE UTILIZATION FOR MANNED MARTIAN MISSIONS
Trey Poole, NASA, United States

D3.2. Systems and Infrastructures to Implement Future Building Blocks in Space Exploration and Development

October 14 2015, 09:45 — 312

Co-Chair(s): Scott Hovland, European Space Agency (ESA), The Netherlands; William H. Siegfried, The Boeing Company, United States;

Rapporteur(s): Horst Rauck, DLR, German Aerospace Center, Germany; Paivi Jukola, Aalto University, Finland;

IAC-15.D3.2.1

STEPS2 – TECHNOLOGICAL RESEARCH ACTIVITIES FOR EXPLORATION
Maria Antonietta Perino, Thales Alenia Space Italia, Italy

IAC-15.D3.2.2

THE RUSSIAN MISSION CONTROL CENTRE. DEVELOPMENT PROSPECTS AND ROLE IN INTERNATIONAL SPACE ACTIVITIES.
Maxim Matiushin, Federal state unitary enterprise "Central Scientific Research Institute of machine-building" (TsNIIMASH), Russian Federation

IAC-15.D3.2.3

MODULAR INFRASTRUCTURES AS RESEARCH PLATFORMS FOR LUNAR EXPLORATION
Caroline Lange, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.D3.2.4

THE MOTHERSHIP MISSION ARCHITECTURE
Sebastian M. Ernst, Deep Space Industries Inc., Germany

IAC-15.D3.2.5

INNOVATIVE ORBITAL SUPPORT SERVICES FOR SUSTAINABLE LUNAR EXPLORATION AND EXPLOITATION
Juergen Hill, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.D3.2.6

CREATING A UNIVERSAL SPACE INTERFACE STANDARD
Mark Hempell, The British Interplanetary Society, United Kingdom

IAC-15.D3.2.7 (withdrawn)

CONCEPTS AND THEORIES FOR AN ECONOMICALLY ADVANTAGEOUS VENTURE FOR MINING SMALL SOLAR SYSTEM BODIES
Kiran Tikare, Université Paul Sabatier Toulouse III, France

IAC-15.D3.2.8 (withdrawn)

CONCEPTUAL DESIGN AND CONSTRUCTION ON THE MOON BY POLYMERIC LUNAR CONCRETE
Jaeho Lee, International Space Exploration Research Institute / Hanyang University, Korea, Republic of

IAC-15.D3.2.9

ROBOTICS OPERATIONS FROM SMALL SPACEPLANES FOR CUBESATS SERVICING
Giovanni B. Palmerini, Università di Roma 'La Sapienza', Italy

D3.3. Novel Concepts and Technologies for Enable Future Building Blocks in Space Exploration and Development

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Co-Chair(s): ALAIN DUPAS, France; Alain Pradier, European Space Agency (ESA), The Netherlands;
Rapporteur(s): Christopher Moore, National Aeronautics and Space Administration (NASA), United States; Junjiro Onoda, Japan Society for Aeronautics and Space Sciences (JSASS), Japan;

IAC-15.D3.3.1 (withdrawn)

THE IMPORTANCE OF SPACE-BORNE AUTOMATIC DEPENDANT SURVEILLANCE-BROADCAST (ADS-B) MONITORING
Alex Cushley, Royal Military College, Canada

IAC-15.D3.3.2

ENERGY-EFFICIENT CAPTURE OF A NON-COOPERATIVE SPACECRAFT WITH A SPACE MANIPULATOR
Silvio Cocuzza, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.D3.3.3
HYDRODYNAMIC DESIGN OF A PNEUMATIC SAMPLE ACQUISITION SYSTEM FOR VENUS SURFACE
Siddharth Pandey, University of New South Wales, Australia

IAC-15.D3.3.4
A METHOD TO MEASURE DROP SIZES IN GAS CIRCULATION PIPELINES OF MANNED SPACECRAFT
Xin Wang, China Academy of Launch Vehicle Technology, China

IAC-15.D3.3.5
LOW-TEMPERATURE CATALYTIC GASIFICATION ROUTES TO SUSTAINABLE WASTE MANAGEMENT AND FUEL GENERATION IN SPACE EXPLORATION
Joshua Cmar, Cleveland State University, United States

IAC-15.D3.3.6
TRAINABLE ANALOG NEURAL NETWORK WITH APPLICATION TO LUNAR IN-SITU RESOURCE UTILIZATION
Samantha Larson, Carleton University, Canada

IAC-15.D3.3.7
SEMI-ANDROGYNOUS MULTIFUNCTIONAL INTERFACE FOR EXPANDABLE SPACE STRUCTURES
Lorenzo Olivieri, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

D3.4. Space Technology and System Management Practices and Tools

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Co-Chair(s): John C. Mankins, ARTEMIS Innovation Management Solutions, LLC, United States; Paivi Jukola, Aalto University, Finland;
Rapporteur(s): Maria Antonietta Perino, Thales Alenia Space Italia, Italy;

IAC-15.D3.4.1
SCIENCE2BUSINESS® - FIRST RESULTS FROM A STRATEGIC INNOVATION PARTNERSHIP BETWEEN GERMAN AEROSPACE CENTER AND AIRBUS DEFENCE & SPACE – SPACE SYSTEMS
Nadja Wolf, Airbus DS GmbH, Germany

IAC-15.D3.4.2
INFLUENCES AND IMPACT OF FUNDING PARADIGMS IN ADVANCED TECHNOLOGY INFUSION
Suparna Mukherjee, George Washington University, United States

IAC-15.D3.4.3
COMBINING SYSTEM DYNAMICS WITH TRADESPACE EXPLORATION TO EXPLORE FUTURE SPACE ARCHITECTURES
Daniel Hastings, Massachusetts Institute of Technology (MIT), United States

IAC-15.D3.4.4
FUTURE APPLICATIONS AND BENEFITS OF HUMAN SPACE FLIGHT INNOVATIONS
Stefano Ferretti, European Space Agency (ESA), Italy

IAC-15.D3.4.5
STRATEGIES AND CONCEPTS FOR INFORMED INVESTING IN DISRUPTIVE TECHNOLOGIES
Paivi Jukola, Aalto University, Finland

IAC-15.D3.4.6
ANALYZING THE TRADEOFFS AMONG RESOURCE INVESTMENT PROFILES FOR NASA'S SCIENTIFIC INSTRUMENT R&D ECOSYSTEM
Alexander Burg, George Washington University, United States

IAC-15.D3.4.7
KINEMATIC MODEL FOR RESOURCE CONSTRAINED PROJECTS SCHEDULING PROBLEM WITH UNDER UNCERTAINTIES – A SPACE SEGMENT SUBSYSTEM CASE STUDY.
Giuliani Garbi, Brazilian Institute for Space Research, Brazil

D4. 13th IAA SYMPOSIUM ON VISIONS AND STRATEGIES FOR THE FUTURE

Coordinator(s): Giuseppe Reibaldi, International Academy of Astronautics (IAA), France; Horst Rauck, DLR, German Aerospace Center, Germany;

D4.1. Innovative Concepts and Technologies

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Co-Chair(s): Giorgio Saccoccia, European Space Agency (ESA), The Netherlands; Roger X. Lenard, LPS, United States;
Rapporteur(s): Paivi Jukola, Aalto University, Finland;

IAC-15.D4.1.1
IMPLEMENTATION OF 3D SCANNING AND 3D PRINTING TECHNOLOGIES IN ASTRONAUTICAL AND SPACE EXPLORATION APPLICATIONS. THE DIGITAL TELEPORTATION REVOLUTION.
Nikolai Oreshkin, United States

IAC-15.D4.1.2
MISSION CONCEPT AND PRELIMINARY SPACECRAFT DESIGN FOR RESOURCE MINING ON MAIN BELT ASTEROIDS
Alena Probst, Bundeswehr University Munich, Germany

IAC-15.D4.1.3
ETERNAL MEMORY: LONG-DURATION STORAGE CONCEPTS FOR SPACE
Melissa Guzman, France

IAC-15.D4.1.4
ELECTRO-CHEMICAL THRUSTERS: A NOVEL DESIGN FOR ADVANCED PROPULSION
Vinayak Malhotra, Indian Institute of Technology, India

IAC-15.D4.1.5
SPACE SETTLEMENT ON SATURN'S MOON: TITAN
Abbishek G, India

IAC-15.D4.1.6
PRELIMINARY RESULTS OF THE SELF DEPLOYABLE HABITAT FOR EXTREME ENVIRONMENTS (SHEE) TESTING CAMPAIGN.
Joshua Nelson, International Space University (ISU), France

IAC-15.D4.1.7 (withdrawn)
A NOVEL MEDICAL TREATMENT MICRO-SATELLITE BASED ON AUTONOMOUS ADSORPTION TECHNOLOGY
Zonggao Mu, China Academy of Space Technology (CAST), China

IAC-15.D4.1.8 (withdrawn)
NEAR EARTH ASTEROIDS CAPTURE TO LUNAR ORBIT BASED ON THE RESONANT GRAVITY ASSISTS THEORY
Changchun Bao, Tsinghua University School of Aerospace, China

IAC-15.D4.1.9
SPACEPLAN 2020: IDENTIFICATION AND ASSESSMENT OF KEY SPACE TECHNOLOGIES TOWARDS 2020
Jason Forshaw, Surrey Space Centre, University of Surrey, United Kingdom

IAC-15.D4.1.10
TOWARDS THE DEVELOPMENT OF A NEW ROLLING ROVER ACTUATED BY MEANS OF ELECTROACTIVE POLYMERS
Silvio Cocuzza, CISAS – "G. Colombo" Center of Studies and Activities for Space, University of Padova, Italy

IAC-15.D4.1.11
CLEANSAT: TECHNOLOGY DEVELOPMENT FOR THE EVOLUTION OF LEO PLATFORMS
Andrew Wolahan, ESTEC, European Space Agency, The Netherlands

IAC-15.D4.1.12
EFFECTIVE METHODOLOGIES TO DERIVE STRATEGIC DECISIONS FROM ESA TECHNOLOGY ROADMAPS
Sara Cresto Aleina, Politecnico di Torino, Italy

D4.2. Contribution of Space Activities to Solving Global Societal Issues

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Co-Chair(s): Giuseppe Reibaldi, International Academy of Astronautics (IAA), France; John C. Mankins, ARTEMIS Innovation Management Solutions, LLC, United States;

IAC-15.D4.2.1
INCORPORATING BENEFIT ASSESSMENT IN PROGRAMMATIC DECISION-MAKING
Gerhard Thiele, European Space Agency (ESA), The Netherlands

IAC-15.D4.2.2 (withdrawn)
GLOBAL TRENDS IN SPACE
Bhavya Lal, Science and Technology Policy Institute, United States

IAC-15.D4.2.3
COMMERCIALIZATION OF POST-EDUCATIONAL PROJECTS – CHALLENGES AND OPPORTUNITIES FOR SPACE INDUSTRY
Maciej Urbanowicz, Sonda Association, SSBV Polska Sp. z o.o., Poland

IAC-15.D4.2.4 (withdrawn)
CORPORATE SOCIAL RESPONSIBILITY – A STRATEGY TO MITIGATE GLOBAL SOCIETAL ISSUES
Michelle Mendes, World Space Week Association, United States

IAC-15.D4.2.5 (withdrawn)
REMOTE SENSING AS A FOUNDATION FOR HUMAN RIGHTS ASSISTANCE
Jillianne Pierce, Space Foundation, United States

IAC-15.D4.2.6
SPACE ICT ASSETS AS A CRITICAL ELEMENT IN GLOBAL SOCIETAL ISSUES
Meir Moalem, Israel

IAC-15.D4.2.7
STRATEGIC MANAGEMENT OF RESOURCES AND TECHNOLOGIES FOR A SMART AND GREEN SPACE CAMPUS
Isabella Mazza, ESA, Italy

IAC-15.D4.2.8
THE SPIRITUAL IMPERATIVE OF SPACE EXPLORATION & THE CALL FOR GLOBAL ACTION
Michael Potter, International Institute of Space Commerce, United States

IAC-15.D4.2.9
A GREATER WORLD IS POSSIBLE! EXPANDING CIVILIZATION INTO SPACE IS THE MORAL ISSUE OF OUR TIME!
Adriano Autino, Space Renaissance International, Italy

D4.3. Space Elevator Tether and Space Mineral Resources

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Co-Chair(s): Arun Misra, McGill University, Canada; Roger X. Lenard, LPS, United States;
Rapporteur(s): Susan McKenna-Lawlor, Space Technology (Ireland) Ltd., Ireland;

IAC-15.D4.3.1
DEFLECTION OF A BINARY ASTEROID SYSTEM USING TETHERS
Flaviane Venditti, McGill University, Canada

IAC-15.D4.3.2
DYNAMICS OF SPACE ELEVATOR ON ASTEROID
Alexander Burov, Dorodnitsyn Computing Center, Russian Academy of Sciences, Russian Federation

IAC-15.D4.3.3
SPACE ELEVATOR. ALTERNATIVE DESIGN SOLUTIONS.
Vadym Pasko, Yuzhnoye State Design Office, Ukraine

IAC-15.D4.3.4
REDIRECTION OF TUMBLING ASTEROIDS BY MEANS OF TETHERS
Nahum Melamed, The Aerospace Corporation, United States

IAC-15.D4.3.5
SPACE POWER - A KEY RESOURCES FOR SPACE RESOURCES
Roger X. Lenard, LPS, United States

IAC-15.D4.3.6 (withdrawn)
PROGRESS TOWARDS A LUNAR SELF-REPLICATING MACHINE – THE 3D-PRINTABLE ELECTRIC MOTOR IS THE KEY
Alex Ellery, Space Exploration and Engineering Group, Carleton University, Canada

IAC-15.D4.3.7 (withdrawn)
ASTEROID CAPTURING TECHNIQUE USING RINGED ION THRUSTER ASSEMBLY
Rohan Kulkarni, India

IAC-15.D4.3.8 (withdrawn)
A TECHNO-ECONOMIC LEGAL ANALYSIS: DEVELOPMENTS IN U.S. TECHNOLOGY, LAW AND POLICY GOVERNING SPACE RESOURCE COMMERCIAL EXPLOITATION
Michael Mineiro, Science and Technology Policy Institute, United States

IAC-15.D4.3.9
TRAJECTORY OPPORTUNITIES TO ARJUNA TYPE ASTEROIDS FOR ASTEROID MINING MISSIONS
Scott Dorrington, UNSW Australia, Australia

IAC-15.D4.3.10
ASTRONOMICAL PROSPECTING: A NECESSARY PRECURSOR TO ASTEROID MINING
Martin Elvis, Harvard-Smithsonian Center for Astrophysics (CfA), United States

IAC-15.D4.3.11
ASTEROID MINING USING A SOLAR POWERED ROVER
Sharad Chopra, University of Petroleum and Energy Studies, India

IAC-15.D4.3.12
ASTEROID MINING: A EUROPEAN VENTURE
Mansoor Shar, International Space University (ISU), France

IAC-15.D4.3.13
REALITY AND CLARITY IN UNDERSTANDING THE PROHIBITION ON NATIONAL APPROPRIATION IN ARTICLE II OF THE OUTER SPACE TREATY
Christopher Johnson, Secure World Foundation, United States

IAC-15.D4.3.14
ASTEROID CAPTURING TECHNIQUE USING MAGNETIC WAVE GENERATOR AND ION THRUSTERS.
Abbishek G, India

D4.4. Strategies for Rapid Implementation of Interstellar Missions: Precursors and Beyond

October 15 2015, 14:45 — 312

Co-Chair(s): Giancarlo Genta, Politecnico di Torino, Italy; Mae Jemison, 100 Year Starship, United States;
Rapporteur(s): Louis Friedman, The Planetary Society, United States;

IAC-15.D4.4.1

ENABLING INTERSTELLAR PROBE: SPACE LAUNCH SYSTEM (SLS) TRADES

Ralph L. McNutt, Jr., Johns Hopkins University Applied Physics Laboratory, United States

IAC-15.D4.4.2

OVERVIEW OF THE KECK INSTITUTE FOR SPACE STUDIES (KISS) WORKSHOPS ON THE SCIENCE AND ENABLING TECHNOLOGIES FOR THE EXPLORATION OF THE INTERSTELLAR MEDIUM (ISM)

Leon Alkalai, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.D4.4.3

A NOVEL MISSION CONCEPT FOR NEAR TERM EXPLORATION OF THE INTERSTELLAR MEDIUM (ISM)

NITIN ARORA, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.D4.4.4

ON BOARD VIRTUAL SOC: AN ENABLING DESIGN FOR SCIENCE OPERATIONS ON DEEP SPACE MISSIONS

Lawrence Brown, The Johns Hopkins University Applied Physics Laboratory, United States

IAC-15.D4.4.5

SPACESHIP TRITON, THE GLOBAL PROJECT TO CONQUER THE SOLAR SYSTEM

Joachim ACHLEITNER, Austria

IAC-15.D4.4.6 (withdrawn)

ENABLING CLEAN SPACE USING CUBESAT TECHNOLOGIES FOR ACTIVE SPACE DEBRIS REMOVAL

Ajay Prasad Ragupathy, Delft University of Technology (TU Delft), The Netherlands

IAC-15.D4.4.7

INTERDISCIPLINARY ROADMAP FOR ENABLING AN INTERSTELLAR WORLDSHIP MISSION

Brian Ramos, United States

IAC-15.D4.4.8 (withdrawn)

SATELLITE FOR UNDERSTANDING BLACK-HOLE

Naman Vaidya, India

D4.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Giuseppe Reibaldi, International Academy of Astronautics (IAA), France; Horst Rauck, DLR, German Aerospace Center, Germany;

IAC-15.D4.IP.1

LESSONS LEARNED ABOUT THE SOLAR GRAVITY LENS AT THE KISS-ISM 2014-2015 WORKSHOPS

Claudio Maccone, International Academy of Astronautics (IAA) and Istituto Nazionale di Astrofisica (INAF), Italy

D5. 48th IAA SYMPOSIUM ON SAFETY, QUALITY AND KNOWLEDGE MANAGEMENT IN SPACE ACTIVITIES

Coordinator(s): Jeanne Holm, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States; Roberta Mugellesi-Dow, European Space Agency (ESA), United Kingdom;

D5.1. Safety and quality: "SUCCESS" is the goal

October 14 2015, 09:45 — 302-303

Co-Chair(s): Alexander S. Filatyev, Central Aero-HydroDynamic Institute, Russian Federation; Pierre Molette, France; **Rapporteur(s):** Manola Romero, Office National d'Etudes et de Recherches Aérospatiales (ONERA), France;

IAC-15.D5.1.1

THEORETICAL KNOWLEDGE AND ADEQUATE METHODOLOGICAL APPROACHES - THE ANALYTICAL BASE TO ENSURE THE RELIABILITY AND SAFETY OF THE COMPLEX TECHNICAL SYSTEMS

Igor Barmin, Federal State Unitary Enterprise "CENTER for OPERATION of SPACE GROUND-BASED INFRASTRUCTURE" (TsENKI), Russian Federation

IAC-15.D5.1.2

MATHEMATICAL MODELS OF THE SAFETY ASSESSMENT OF GROUND FACILITIES IN CASE OF FAILURE OF THE LAUNCH VEHICLE EQUIPPED WITH ON-BOARD AUTOMATIC EMERGENCY ENGINE SHUTDOWN

Eduard Gladkiy, Yuzhnoye State Design Office, Ukraine

IAC-15.D5.1.3

OPTIMIZATION OF FLIGHT SAFETY SYSTEM ALGORITHM CONSIDERING REDUCTION OF PROBABILITY OF FALSE FLIGHT TERMINATION COMMAND INITIATION AND FULFILLMENT OF SAFETY REQUIREMENTS

Vadym Demchenko, Yuzhnoye State Design Office, Ukraine

IAC-15.D5.1.4

SPACE SYSTEMS AS CRITICAL INFRASTRUCTURE: AN APPROACH TO DEMONSTRATE RELIABILITY, RESILIENCE, AND SECURITY

Patrick Gavigan, Government of Canada, Canada

IAC-15.D5.1.5

QUALITY ASSURANCE – BENEFITS AND IMPACT ON PROJECT SCHEDULE

Andrei Cacovean, Active Space Technologies, Germany

IAC-15.D5.1.6 (withdrawn)

SUGGESTED ASPECTS FOR IMPLEMENTATION OF RISK MANAGEMENT IN THE FEI'S MICROGRAVITY PROJECTS.

Flávio de Azevedo Corrêa Jr, Instituto de Aeronáutica e Espaço (IAE), Brazil

IAC-15.D5.1.7

QUALITY ISSUES IN COMPLEX PRODUCTS EVEN CONSIDERING THE APPLICATION OF QUALITY TOOLS INITIATIVES DURING PROGRAM DEVELOPMENT

Cosimo Bertelli, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

IAC-15.D5.1.8

MANAGEMENT SYSTEM OF SUPPLIERS LOW VOLUME INDUSTRY QUALITY READINESS LEVEL - QRL

Jorge Nascimento, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

IAC-15.D5.1.9

CRITICAL ANALYSIS OF QUALITY AND SAFETY REQUIREMENTS APPLIED DURING THE SAC-D/AQUARIUS SATELLITE ENVIRONMENTAL CAMPAIGN TESTS AT INPE/LIT (BRAZIL)

Andrea F. S. Genaro, National Institute for Space Research - INPE, Brazil

IAC-15.D5.1.10

THIRD PARTY INDEPENDENT VERIFICATION & VALIDATION TECHNOLOGY OF FIELD PROGRAMMABLE GATE ARRAY IN AEROSPACE MISSIONS

Dan Wu, China Academy of Aerospace Systems Science and Engineering, China

D5.2. Knowledge Management and Collaboration in Space Activities

October 15 2015, 09:45 — 302-303

Co-Chair(s): Lionel Baize, Centre National d'Etudes Spatiales (CNES), France; Roberta Mugellesi-Dow, European Space Agency (ESA), United Kingdom;

Rapporteur(s): Jeanne Holm, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States; Patrick Hambloch, University of Alabama in Huntsville, United States;

IAC-15.D5.2.1

DEVELOPMENT OF QUALITY AND KNOWLEDGE MANAGEMENT SYSTEM FOR THE FIRST SATELLITE MISSION IN AN EDUCATIONAL INSTITUTION BASED ON ECSS STANDARDS

Mart Vihmand, Tallinn University of Technology, Estonia

IAC-15.D5.2.2

IDENTIFYING CRITICAL KNOWLEDGE AT NASA: A FOUR-PART FRAMEWORK

Edward J. Hoffman, National Aeronautics and Space Administration (NASA), United States

IAC-15.D5.2.3

DEVELOPMENT OF KNOWLEDGE MANAGEMENT UNDER THE TECHNOLOGY TRANSFER

Sultan Assipov, Kazakhstan

IAC-15.D5.2.4

KNOWLEDGE MANAGEMENT INFRASTRUCTURE: NASA'S MARS MISSION WITH GAMIFICATION TECHNIQUE & SELF-KNOWLEDGE MANAGEMENT INTANGIBLE OUTCOMES FOR YOUNG PROFESSIONALS

Ozan Kara, Koc University, Turkey

IAC-15.D5.2.5

THE EXPERT IS LEAVING - THE KNOWLEDGE IS LOST? DLR'S KNOWLEDGE MANAGEMENT SOLUTION FOR THE LEAVING EXPERT ISSUE.

Uwe Knodt, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.D5.2.6

THE ROLE OF A KNOWLEDGE MANAGEMENT OFFICER WITHIN PROJECTS

Siegmar Pallaschke, Consultant, Germany

IAC-15.D5.2.7

"GUIDANCE FOR PROJECT PORTFOLIO MANAGEMENT" – THE CONTENT AND MAKING OF THIS WORLD-WIDE ACCEPTED STANDARD

Ruediger Suess, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.D5.2.8

DOCUMENT MANAGEMENT DURING ESTABLISHING SPACE KNOWLEDGE BASE

Song Guo, National Space Science Center, Chinese Academy of Sciences, China

IAC-15.D5.2.9 (withdrawn)

THE USE OF CONTINUOUS IMPROVEMENT IN THE AEROSPACE AREA.

Federico Perazzo, Argentina

IAC-15.D5.2.10 (withdrawn)

PROPOSED A MODEL ---- ONTOLOGY-BASED KNOWLEDGE MANAGEMENT (OBKM) FOR SATELLITE

Miao Su, National Space Science Center (NSSC), China

D5.3. Prediction and measurement of space weather conditions and impacts on space missions

October 16 2015, 09:45 — 302-303

Co-Chair(s): Jean-Francois Roussel, Office National d'Etudes et de Recherches Aérospatiales (ONERA), France; Mengyu Cho, Kyushu Institute of Technology, Japan;

IAC-15.D5.3.1

ORBITAL DATA ANALYSIS OF ELECTRON-EMITTING FILM FOR SPACECRAFT MITIGATION ONBOARD A SMALL SATELLITE

Atomu Tanaka, Kyushu Institute of Technology, Japan

IAC-15.D5.3.2

REAL TIME FAULT TOLERANT DESIGN OF RF CMOS PHASE LOCKED LOOP DESIGN FOR RADIATION ENVIRONMENT

Varsha Prasad, Nitte Meenakshi Institute of Technology, India

IAC-15.D5.3.3

DEVELOPMENT OF AN ELECTROSTATIC DUST REPEALING DEVICE FOR LUNAR MISSIONS

Nima Gharib, McGill University, Canada

IAC-15.D5.3.4 (withdrawn)

ANALYSIS AND PREDICTION OF END-OF-LIFE PERFORMANCE OF GAAS SOLAR CELL IN INTENSE SPACE RADIATION ENVIRONMENTS

Xin Gao, Science and Technology on Vacuum Technology and Physics Laboratory, Lanzhou Institute of Physics, China

IAC-15.D5.3.5

DEVELOPMENT OF MISSION PAYLOADS FOR ARC EVENT GENERATOR AND INVESTIGATION SATELLITE HORYU-IV

Hiroshi Fukuda, Kyushu Institute of Technology, Japan

IAC-15.D5.3.6

A RADIATION BELTS DISTURBANCE STUDY IN THE SPACE WEATHER POINT OF VIEW S. ROCHEL, D. BOSCHER, R. BENACQUISTA, J. F. ROUSSEL

Sandrine Rochel, ONERA, France

IAC-15.D5.3.7

REM-RED SOUNDING ROCKET EXPERIMENT TO MEASURE THE COSMIC RADIATION

Balazs Zabori, MTA Centre for Energy Research, Hungary

IAC-15.D5.3.8

RISK ANALYSIS AND MITIGATION OF GEOSTATIONARY COMMUNICATIONS SATELLITES AFFECTED BY SPACE WEATHER

Hui Xu, Beijing Aerospace Control Center, China

IAC-15.D5.3.9

A NEW APPROACH TO PREDICTION AND ESTIMATE OF HSS-ASSOCIATED ENHANCEMENTS OF "KILLER" ELECTRON FLUX AT GEOSYNCHRONOUS ORBIT

Alexander Potapov, Institute of Solar-Terrestrial Physics of Siberian Branch of Russian Academy of Science, Russian Federation

D5.3. Cyber-Security Threats To Space Missions And Countermeasures To Address Them

October 15 2015, 14:45 — 302-303

Co-Chair(s): Deganit Paikowsky, Tel Aviv University, Israel; Stefano Zatti, ESA, Italy;

IAC-15.D5.4.1

CYBER HARDENING & CYBER EARLY WARNING AS BUILDING BLOCKS IN SATELLITE CYBER WORTHINESS

Nitzan Barkay, Israel Aerospace Industries. Ltd, Israel



IAC-15.D5.4.2

INTERNATIONAL COOPERATION IN RESPONDING TO CYBERSECURITY THREATS TO SPACE MISSIONS: TOWARDS A TYPOLOGY OF COUNTERMEASURES

Deborah Housen-Couriel, Tel Aviv University, Israel

IAC-15.D5.4.3

PRELIMINARY REFLECTIONS ABOUT THE ESTABLISHMENT OF A CYBER-SECURITY POLICY FOR A SUSTAINABLE, SECURE AND SAFE SPACE ENVIRONMENT

Luca del Monte, European Space Agency (ESA), France

IAC-15.D5.4.4

CYBERATTACK OF SPACE SYSTEMS - INSTRUMENTS OF DENIABLE ACTION

Ram Levi, Tel Aviv University, Israel

IAC-15.D5.4.5 (withdrawn)

SATELLITE SECURITY THREATS AND CYBER RISK MANAGEMENT STRATEGIES

Denis Bensoussan, United Kingdom

IAC-15.D5.4.6 (withdrawn)

THE CYBER THREAT TO SPACE SYSTEMS

Travis Cottom, United States

IAC-15.D5.4.7

A NOVEL SPACE NETWORK DOS SUPPRESSION APPROACH WITH CREDIBLE PROBABILISTIC PACKET MARKING

Dong Yan, Beijing Institute of Spacecraft System Engineering, China Academy of Space Technology(CAST), China

D5.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Jeanne Holm, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States; Roberta Mugellesi-Dow, European Space Agency (ESA), United Kingdom;

IAC-15.D5.IP.1

CALCULATION OF THE NUMBER OF REDUNDANT ACTUATORS FOR TOLERATING ACTUATOR FAULTS

Inseok Yang, Korea, Republic of

IAC-15.D5.IP.2

SUPPORT OF THE SPACE PROJECT MANAGEMENT IN THE CZECH REPUBLIC

Michal Kunes, Czech Space Office, Czech Republic

IAC-15.D5.IP.3

CREATING A RISK-AWARE CULTURE AS A MAJOR DRIVER FOR SYSTEM VERIFICATION

Jaqueline Vaz Maiolino, Orbital Engenharia S.A., Brazil

D6. SYMPOSIUM ON COMMERCIAL SPACEFLIGHT SAFETY ISSUES

Coordinator(s): Christophe Chavagnac, Airbus Defence and Space SAS, France; John Sloan, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States;

D6.1. Commercial Space Flight Safety and Emerging Issues

October 14 2015, 14:45 — Ballroom A

Co-Chair(s): Christophe Chavagnac, Airbus Defence and Space SAS, France; John Sloan, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States; **Rapporteur(s):** Gennaro Russo, Associazione Italiana di Aeronautica e Astronautica (AIDAA), Italy;

IAC-15.D6.1.1

ASKING THE ORACLE: THE VALIDITY OF INFORMED CONSENT UNDER EUROPEAN LAW

Michail Chatzipanagiotis, Greece

IAC-15.D6.1.2

PRESENT SITUATION AND DEVELOPMENT TREND OF CHINESE COMMERCIAL SPACE TOURISM

Wen Xu, China Academy of Launch Vehicle Technology, China

IAC-15.D6.1.3

FAA SAFETY APPROVALS IN COMMERCIAL SPACE TRANSPORTATION

George Nield, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States

IAC-15.D6.1.4

SAFETY AND CERTIFICATION OF SWISS SPACE SYSTEMS PROJECTS

Jean-Bruno MARCIACQ, Swiss Space Systems (S3), Switzerland

IAC-15.D6.1.5

A COMPARATIVE ANALYSIS OF NATIONAL LAWS GOVERNING LAUNCH SAFETY

PAUL DEMPSEY, McGill University, Canada

IAC-15.D6.1.6

FUTURE EARTH ORBIT FLYING MANAGEMENT SYSTEM FOR COMMERCIAL SPACE MISSIONS

Tao Wang, China Academy of Launch Vehicle Technology, China

IAC-15.D6.1.7 (withdrawn)

DUAL FREQUENCY ADS-B PROTOTYPE FLIGHT EXPERIMENTS FOR ENHANCED SAFETY

Nickolas Demidovich, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States

IAC-15.D6.1.8 (withdrawn)

UPDATES TO THE FAA PUBLIC RISK CRITERIA AND EVALUATION FOR MISSIONS LIKE ORION'S FIRST ENTRY FLIGHT TEST

Paul Wilde, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States

IAC-15.D6.1.9

DEVELOPMENT OF COMMERCIAL SUBORBITAL SPACE TOURISM: A REVIEW OF CURRENT STATUS AND DISCUSSION ON FUTURE PROSPECTS AFTER SPACESHIP TWO CRASH

Eva Yi-Wei Chang, University of Science & Technology, Taiwan, China

IAC-15.D6.1.10

CONJUNCTION DETECTION AND SERIES CLUSTERING OF TELEMETRY DATA FROM SPACECRAFT IN ORBIT

Shaolin Hu, State Key Laboratory of Astronautic Dynamics, China

D6.3. Enabling safe commercial spaceflight: vehicles and spaceports

October 15 2015, 09:45 — Kerem Carmit

Co-Chair(s): Christophe Chavagnac, Airbus Defence and Space SAS, France; John Sloan, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States; **Rapporteur(s):** Francesco Santoro, Altec S.p.A., Italy;

IAC-15.D6.3.1

APPROACHES TO DEVELOPMENT OF COMMERCIAL SPACEPORT AND ASSOCIATED GROUND SEGMENT DRIVEN BY SPECIFIC SPACEPLANE VEHICLE AND MISSION OPERATION REQUIREMENTS

Francesco Santoro, Altec S.p.A., Italy

IAC-15.D6.3.2

INTEGRATION OF SUBORBITAL SPACEFLIGHT AT A COMMERCIAL AIRPORT IN FRANCE

Jérôme Crevatin, France

IAC-15.D6.3.3

THE RECENT STATUS OF SPACEPORTS AS THE ANCHOR FOR SPACE ACTIVITIES IN JAPAN

Misuzu Onuki, Space Frontier Foundation, Japan

IAC-15.D6.3.4

DEVELOPMENT OF INTERNATIONAL URBAN SPACEPORTS

Charles Lauer, Rocketplane Global, Inc., United States

IAC-15.D6.3.6

THE ROCKETPLANE XS-1 MACH 12 SUBORBITAL SPACEPLANE - A CASE STUDY FOR HIGH SPEED POINT TO POINT TRANSPORTATION SAFETY & OPERATIONAL ISSUES

Charles Lauer, Rocketplane Global, Inc., United States

IAC-15.D6.3.7

THE IXV GROUND SEGMENT AS AN INITIAL APPROACH TO THE SUPPORT OF COMMERCIAL SUBORBITAL MISSIONS

Francesco Santoro, Altec S.p.A., Italy

E1. SPACE EDUCATION AND OUTREACH SYMPOSIUM

Coordinator(s): Chris Welch, International Space University (ISU), France; Naomi Mathers, Advanced Instrumentation and Technology Centre (AITC), Australia;

E1.1. Ignition - Primary Space Education

October 12 2015, 15:15 — Oranim 3-B

Co-Chair(s): Christopher Vasko, Space Generation Advisory Council (SGAC), The Netherlands; Gulnara T. Omarova, Astrophysical Institute, Kazakhstan;

Rapporteur(s): Michael Pakakis, Victorian Space Science Education Centre, Australia;

2015 Frank J. Malina Astronautics Medal Recipient

Address, Prof. Boris Pschenichner, Department of Astronomy and Cosmonautics, Russian Federation

IAC-15.E1.1.1

SCHOOL-WIDE APPLICATIONS OF ESA EDUCATIONAL MATERIALS - LESSONS LEARNED AND FUTURE FOLLOW-UPS

Oded Avraham, Israeli Astronomical Association, United States

IAC-15.E1.1.2

USING SMALL SOLAR OBSERVATORIES FOR MULTIDISCIPLINARY EDUCATION

Igal Patel, Cosmos Telescopes, Israel

IAC-15.E1.1.3 (withdrawn)

HUMAN ORRERY FOR ASTRONOMY EDUCATION AND OUTREACH

Kishor Acharya, Space Generation Advisory Council (SGAC), Nepal

IAC-15.E1.1.4

A SOPHISTICATED WEB BASED PLATFORM AIMED FOR SPACE OUTREACH PROGRAM.

Ido Bareket, Israel

IAC-15.E1.1.5

TO IGNITE THE PASSION IN CHILDREN'S HEARTS -ROLE AND EFFECT OF SPACE EDUCATION, ISSUES AND CONSIDERATION-

Ayami Kojima, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.E1.1.6

SCHOOL-WIDE SPACE ADVOCACY

Oded Avraham, Israeli Astronomical Association, United States

IAC-15.E1.1.7 (withdrawn)

EDUCATORS AND INDUSTRY – HOW INDUSTRY CAN SUPERCHARGE EDUCATION AT THE PRIMARY AND INTERMEDIATE LEVEL

Michelle Mendes, World Space Week Association, United States

E1.2. Lift-Off - Secondary Space Education

October 13 2015, 09:45 — Oranim 3-B

Co-Chair(s): Lisa Antoniadis, Space Center EPFL, Switzerland; Michael Pakakis, Victorian Space Science Education Centre, Australia;

Rapporteur(s): Lisa La Bonte, United Nations Association-UAE / AYVF, United Arab Emirates;

IAC-15.E1.2.1

ASTRO PI: LAUNCH YOUR CODE INTO SPACE

Nimal Navarathinam, Surrey Satellite Technology Ltd (SSTL), United Kingdom

IAC-15.E1.2.2

EXPERIENCING SPACE BY EXPLORING THE EARTH – EASY-TO-USE IMAGE PROCESSING TOOLS IN SCHOOL LESSONS

Andreas Rienow, University of Bonn, Germany

IAC-15.E1.2.3

TELEM BAMOT - ENCOURAGING YOUNG GIRLS TO LEARN TECHNOLOGICAL STUDIES

Asia Katz, Rafael Advanced Defense Systems Ltd., Israel

IAC-15.E1.2.4

FACTORS INFLUENCING SPACE EDUCATION FEMALE PIPELINE: AN INTERNATIONAL COMPARATIVE STUDY.

OWUSU ANSAH BOAKYE, United States

IAC-15.E1.2.5

FROM PEER LEARNING TO SELF LEARNING: COMPETITION TEAMS.

Jaime Cernuda, Spain

IAC-15.E1.2.6

BUILDING SELF-TAUGHT SCIENTISTS: STUDENTS FROM A TRADITIONALLY LOW ACADEMICALLY PERFORMING REGION EXCEL THROUGH SELF TEACHING MEDIUMS SUCH AS WIKIPEDIA AND HANDS ON LEARNING

Tara RuthAnn Sprinkle, United States

IAC-15.E1.2.7

DREAM TO SPACE - SPACE MISSION DEVELOPMENT AS AN "ENABLER" FOR KIDS INTO THE FIELDS OF MATH, SCIENCE, ENGINEERING AND TECHNOLOGY (STEM) - A COLLABORATION BETWEEN IAI - MBT SPACE, TAASIEDA AND RABIN HIGH SCHOOL IN AZUR, ISRAEL.

Elad Sagi, Israel Aerospace Industries. Ltd., Israel

IAC-15.E1.2.8

NORDIC ESERO TEACHER TRAINING COURSES AND RESOURCES

Jøran Grande, NAROM - Norwegian Centre for Space-Related Education, Norway

IAC-15.E1.2.9

SPACE EDUCATION PROGRAM USING ALOS-2 EARTH OBSERVATION DATA

Tohru Takahashi, Japan

IAC-15.E1.2.10
SPACE AND SCIENCE EDUCATION: MOTIVATING LESSONS OF PHYSICS WITH EARTH OBSERVATION SATELLITES
Gil DENIS, Planete Sciences, France

E1.3. On Track - Undergraduate Space Education

October 13 2015, 14:45 — Oranim 3-B

Co-Chair(s): David Cook , University of Alabama in Huntsville, United States; Lisa Antoniadis , Space Center EPFL, Switzerland;
Rapporteur(s): Michal Kunes , Czech Space Office, Czech Republic;

IAC-15.E1.3.1
PASSING THE BATON: ACHIEVING LONG TERM GROWTH AND SUSTAINABILITY IN UNDERGRADUATE SPACE EDUCATION AND OUTREACH ORGANIZATIONS
Ethan Hopping, University of Alabama in Huntsville, United States

IAC-15.E1.3.2
STANFORD STUDENT SPACE INITIATIVE: UNIVERSITIES AND SPACE DEVELOPMENT
Paul Warren, , United States

IAC-15.E1.3.3
AEROSPACE ENGINEERING EDUCATION IN UNIVERSITIES USING CUBESATS
Simei Ji, Beijing Institute of Technology, China

IAC-15.E1.3.4
INVESTIGATION OF USING UNIVERSITY MULTIDISCIPLINARY CAPSTONE DESIGN COURSES TO TEACH SPACE SYSTEMS ENGINEERING, FUNDAMENTAL SPACE SCIENCE, AND HUMAN FACTORS
Aaron Persad, Astronauts for Hire, Canada

IAC-15.E1.3.5
ASTRONOMY RESEARCH ACTIVITIES AND CHALLENGES IN NEPAL
Suman Gautam, Pokhara Astronomical Society, Nepal

IAC-15.E1.3.6
PROJECT BASED AEROSPACE ENGINEERING GRADUATION AT UNDERGRADUATE LEVEL FOR SUCCESS IN ASTRONAUTICS
Ugur Guven, , United States

IAC-15.E1.3.7
SPACE RESEARCH EDUCATION ACTIVITIES IN THE SPACE DOSIMETRY GROUP OF THE MTA CENTRE FOR ENERGY RESEARCH
Balazs Zabori, MTA Centre for Energy Research, Hungary

IAC-15.E1.3.8
ELEONORA, A 3U CUBESAT FOR THE CANADIAN SATELLITE DESIGN CHALLENGE
Constance Fodé, Ecole Polytechnique de Montreal, Canada

IAC-15.E1.3.9
BOLIVIA, FROM WHAT WE KNOW TO WHAT WE HAVE
Rene Horacio Michel Valencia, Agencia Boliviana Espacial, Bolivia

IAC-15.E1.3.10
ENABLING NEAR-SPACE RESEARCH WITH THE 2015 BALLOONSAT WORKSHOP
Mark Becnel, RadioBro Corporation, United States

IAC-15.E1.3.11
THE EDUCATIONAL ASPECTS OF POLISH STUDENT SATELLITE PW-SAT2
Inna Uwarowa, Students Space Association, Poland

IAC-15.E1.3.12 (withdrawn)
DESIGN AND FABRICATION OF MOBILE ARM SUPPORT SYSTEM FOR INDIVIDUALS WITH CEREBRAL PALSY GUIDED BY THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA) SYSTEMS ENGINEERING HANDBOOK
Stephanie Shelton, University of Alabama in Huntsville, United States

E1.4. In Orbit - Postgraduate Space Education

October 14 2015, 09:45 — Oranim 3-B

Co-Chair(s): Angela Diaz Phillips , , United States; Franco Bernelli-Zazzera , Politecnico di Milano, Italy;
Rapporteur(s): Maria Victoria Alonsoperez , IEETECH, Uruguay;

IAC-15.E1.4.1
ROBOTIC PLANETARY EXPLORATION MISSION SIMULATION AT ISU SSP14
Ewan Reid, Mission Control Space Services Inc., Canada

IAC-15.E1.4.2
MARS TREATYMAKING WORKSHOP RESULTS AND INSIGHTS FROM ISU SSP15
Jessica Reinert, National Aeronautics and Space Administration (NASA), United States

IAC-15.E1.4.3
WORKFORCE MANAGEMENT IN SMALL STUDENT RUN SATELLITE PROGRAM
Divya Dihuliya, Tallinn University of Technology, Estonia

IAC-15.E1.4.4
A NEW MULTI-DISCIPLINARY SPACE STUDIES PROGRAMME FOR AFRICA AT THE UNIVERSITY OF CAPE TOWN
Peter Martinez, University of Cape Town, South Africa

IAC-15.E1.4.5
SOUTHERN HEMISPHERE SPACE STUDIES PROGRAM - BUILDING CAPACITY IN THE GLOBAL SOUTH
Michael Davis, Space Industry Association of Australia, Australia

IAC-15.E1.4.6 (withdrawn)
DEVELOPMENT OF A SMALL-SCALE, LOW COST, TURN-KEY SOLUTION HELICON PLASMA SOURCE FOR THE ENHANCEMENT OF PLASMA PHYSICS RESEARCH IN DEVELOPING COUNTRIES
Esteban Echeverria, Ad Astra Rocket Company, Costa Rica

IAC-15.E1.4.7
DELICACY RISK MANAGEMENT OF SATELLITE PROJECT
Lei Zhao, DFH Satellite CO.,LTD, China

IAC-15.E1.4.8 (withdrawn)
14 YEARS OF ARCSSTE-E'S POSTGRADUATE DIPLOMA PROGRAMME: ACHIEVEMENTS, CHALLENGES AND FUTURE LOOKS.
Oladosu Olakunle, African Regional Center for Space Science and Technology Education in English (ARCSSTE-E), Nigeria

E1.5. Enabling the Future - Developing the Space Workforce

October 14 2015, 14:45 — Oranim 3-B

Co-Chair(s): Bettina Boehm , European Space Agency (ESA), France; Edward J. Hoffman , National Aeronautics and Space Administration (NASA), United States;
Rapporteur(s): Amalio Monzon , Airbus Group, United Kingdom;

IAC-15.E1.5.1
TRAINING THE NEXT GENERATION OF SPACE DOCTORS
Jeffrey Sutton, Center for Space Medicine, Baylor College of Medicine, United States

IAC-15.E1.5.2
AN ACADEMIC APPROACH TO DEVELOPING TOMORROW'S SPACE PROFESSIONAL
Michael McGrath, University of Colorado, United States

IAC-15.E1.5.3
ENCOURAGING LEGAL AWARENESS IN STEM GRADUATES: LESSONS LEARNED FROM SPACE GENERATION CONGRESS 2014
Adam Vigneron, Space Generation Advisory Council (SGAC), Canada

IAC-15.E1.5.4
INTERDISCIPLINARY SPACE BUSINESS, POLICY, GOVERNANCE, REGULATORY AND SUSTAINABILITY PRINCIPLE TRAINING AS A KEY DRIVER IN ADDRESSING CHALLENGES OF FUTURE SPACE WORKFORCE DEVELOPMENT
Kim Ellis, International Space University (ISU), Australia

IAC-15.E1.5.5
STEM AND THE HUMANITIES: HOW THE BIFURCATION OF DISCIPLINES IS HARMING THE WORKFORCE
Kathryn Robison, The University of Alabama, United States

IAC-15.E1.5.6
HUMAN RESOURCE PROGRAMS FOR SPACE TECHNOLOGY AND APPLICATION IN VIETNAM
Anh Tuan Pham, Vietnam Academy of Science and Technology, Vietnam

IAC-15.E1.5.7 (withdrawn)
CREATING A WAY FORWARD: INTERNATIONAL COOPERATION TO PROMOTE SPACE WORKFORCE DEVELOPMENT IN DEVELOPING SOCIETIES
Marlene MacLeish, , United States

IAC-15.E1.5.8
THE NEED FOR THE DEVELOPMENT OF THE SKILLED SPACE WORKFORCE IN AFRICA: THE CHALLENGES, OPPORTUNITIES AND APPROACHES
Lulekwa Makapela, , South Africa

IAC-15.E1.5.9
THE ROLE OF WOMEN IN SPACE SCIENCE AND TECHNOLOGY IN LATIN AMERICA: STORIES, CHALLENGES, OPPORTUNITIES AND FUTURE PERSPECTIVES
Adriana Chavarria Flores, Central American Association of Aeronautics and Space (ACAE), Costa Rica

IAC-15.E1.5.11
MAIN CIRCUMSTANCES FOR THE NEXT GENERATION WORKFORCE: HOW DO YOUNG PROFESSIONALS ENTER AND GROW INTO THE SPACE SECTOR?
Ozan Kara, Koc University, Turkey

IAC-15.E1.5.12 (withdrawn)
SPACE STRATEGY FOR IRELAND
James Harpur, International Space University(ISU), Ireland

E1.6. Calling Planet Earth - Space Outreach to the General Public

October 15 2015, 09:45 — Oranim 3-B

Co-Chair(s): Carol Christian , STScI, United States; Carolyn Knowles , National Aeronautics and Space Administration (NASA), United States;
Rapporteur(s): Frank Friedlaender , Lockheed Martin Space Systems Company, United States;

IAC-15.E1.6.1
PUBLIC OUTREACH ACTIVITIES OF AN ISS MISSION CONTROL CENTER DURING AN ASTRONAUT MISSION OF NATIONAL INTEREST
Thomas Uhlig, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany

IAC-15.E1.6.2
ADVOCATING SCIENCE AND SPACE - THE STORY OF ISRAEL'S ONLY DEDICATED WEBSITE, OPERATEING FROM 1997 TO DATE
Avi Blizovsky, , Israel

IAC-15.E1.6.3 (withdrawn)
CORPORATE SOCIAL RESPONSIBILITY – AN EFFECTIVE MEANS OF SPACE OUTREACH TO ALL
Michelle Mendes, World Space Week Association, United States

IAC-15.E1.6.4
THE EUROPEAN ROVER CHALLENGE AS A MOTIVATOR AND INTEGRATOR FOR YOUNG ROBOTICS TEAMS ON THEIR PATHS TO CONDUCT RESEARCH AND COMMERCIALIZE TECHNOLOGICAL SOLUTIONS.
Lukasz Wilczynski, European Space Foundation, Poland

IAC-15.E1.6.5
THE IMPORTANCE OF OFFERING SPACE EDUCATION IN AN INFORMAL MUSEUM ENVIRONMENT
Yariv Noyman, Israel National Museum of Science, Technology, and Space (Madatech), Israel

IAC-15.E1.6.6
"THE SPACESHIP" – LIVE AND INTERACTIVE SPACE NEWS IN HEBREW
Yoav Landsman, , Israel

IAC-15.E1.6.7
CELEBRATING THE WORLD SPACE WEEK, WAY TO REACH A BROADER AUDIENCE
Mario Arreola, Agencia Espacial Mexicana (AEM), Mexico

IAC-15.E1.6.8
EFFECTIVE AND SUSTAINABLE OUTREACH OF SPACE SCIENCE AND TECHNOLOGY: MIDDLE EAST AND CENTRAL AMERICA CASES
Burak Yaglioglu, Space Generation Advisory Council (SGAC), Turkey

IAC-15.E1.6.9
INCREASING IMPACT OF ASTRONAUT VISITS TO SCHOOLS BY EARLY PREPARATION, EXEMPLIFIED BY "COMMUNITY DAYS" OF THE ASE PLANETARY CONGRESS INSPIRED BY SPACE
Christer Fuglesang, KTH, Sweden

IAC-15.E1.6.10
SPACE AND THE SOCIETY, NIGERIA.
OMONZOKPIA EJALE, NASRDA, Nigeria

E1.7. New Worlds - Innovative Space Education and Outreach

October 15 2015, 14:45 — Oranim 3-B

Co-Chair(s): Olga Zhdanovich , European Space Agency (ESA), The Netherlands; Vera Mayorova , Bauman Moscow State Technical University, Russian Federation;
Rapporteur(s): Carol Christian , STScI, United States;

IAC-15.E1.7.1
SPACE OUTREACH PROGRAMS USING A DIGITAL PLANETARIUM
Ido Bareket, , Israel

IAC-15.E1.7.2
ROSETTA AND PHILAE: CAPTIVATING THE HEARTS AND MINDS OF A GLOBAL AUDIENCE
Sebastian Davis Marcu, Design & Data GmbH, Germany

IAC-15.E1.7.3
FROM EARTH TO SPACE: INNOVATIONS LEADING TO NOVEL SPACE EDUCATION TECHNIQUES TO INSPIRE THE NEXT GENERATION
Norah Patten, , Ireland

IAC-15.E1.7.4
ORGANIZATIONAL PRINCIPLES AND METHODOLOGY OF USING SPACE REMOTE SENSING DATA IN INNOVATIVE EDUCATION
Vera Mayorova, Bauman Moscow State Technical University, Russian Federation

IAC-15.E1.7.5

SPACEIL EDUCATIONAL MISSION – INSPIRING, MODELING, CONNECTING
Ayelet Weizman, SpaceIL, Israel

IAC-15.E1.7.6 (withdrawn)

AN INTERDISCIPLINARY APPROACH FOR TEACHING AND LEARNING SPACE LAW
Ram S. Jakhu, McGill Univeristy, Canada

IAC-15.E1.7.7 (withdrawn)

OPERATION OF KIBO DIVISION EARTHVIEW
Susumu Yoshitomi, Japan Space Forum, Japan

IAC-15.E1.7.8

THE INTERNATIONAL SPACE CENTER IN ASHDOD (ISRAEL)
Igal Patel, Cosmos Telescopes, Israel

IAC-15.E1.7.9

CURRENT RESULTS OF SPACE EXPERIMENT "SHADOW-BEACON" ON INTERNATIONAL SPACE STATION: SCIENTIFIC AND EDUCATIONAL ISSUES
Valentin Strashinskiy, Central Research Institute for Machine Building (FGUP TSNIMASH), Russian Federation

IAC-15.E1.7.10

SPACE CLEAN UP- AN OUTREACH PROGRAM FOR SPACE DEBRIS AWARENESS BY EUROAVIA TOULOUSE
Aishwarya Balaji, ISAE - Institut Supérieur de l'Aéronautique et de l'Espace, France

IAC-15.E1.7.11

VISION 2040: EVOLVING THE SUCCESSFUL INTERNATIONAL SPACE UNIVERSITY DECADES INTO THE FUTURE
Gary Martin, NASA Ames Research Center, United States

IAC-15.E1.7.12 (withdrawn)

EIGHT YEARS OF THE GERMAN-SWEDISH STUDENT PROGRAMME REXUS/BEXUS - OVERVIEW AND OUTLOOK -
Maria Roth, German Aerospace Center (DLR), Germany

IAC-15.E1.7.13

THE 2015 BALLOONSAT WORKSHOP: OUTREACH THROUGH FLIGHT
Nathanial Long, RadioBro Corporation, United States

E1.8. Open Space: Participatory Space Education and Outreach

October 16 2015, 09:45 — Oranim 3-B

Co-Chair(s): *Jessica Culler, The Planetary Society, United States; Lisa La Bonte, United Nations Association-UAE / AYVF, United Arab Emirates;*
Rapporteur(s): *Carol Carnett, International Space University (ISU), United States;*

IAC-15.E1.8.1

TOWARD A PEOPLE'S SPACE PROGRAM: A PARTICIPATORY TECHNOLOGY ASSESSMENT OF NASA'S ASTEROID INITIATIVE
Amy Kaminski, NASA, United States

IAC-15.E1.8.2 (withdrawn)

AFRICA2MOON - HARNESSING THE INSPIRATIONAL POWER OF SPACE EXPLORATION FOR AFRICA'S DEVELOPMENT
Peter Martinez, University of Cape Town, South Africa

IAC-15.E1.8.3

REMOTE SENSING, SPACE, AND GEO-PHYSICS IN SCIENTIFIC EDUCATION AND AS AN OUTREACH TRIGGER AT BGU
Shimrit Maman, Israel

IAC-15.E1.8.4

EDUCATION AND OUTREACH USING THE FALCON TELESCOPE NETWORK
Kimberlee Gresham, Universities Space Research Association, United States

IAC-15.E1.8.5

CONCEPT FOR A WEB-PLATFORM "WAY TO SPACE: SHARE YOUR SUCCESS SPACE STORY. INSPIRE THE OTHERS"
Olga S. Stelmakh, Parliament of Ukraine / DRS Group Int., Ukraine

IAC-15.E1.8.6

OPENING SPACE WITH OPEN EDUCATION, OPEN SOURCE, AND OPEN DATA
Jeanne Holm, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States

IAC-15.E1.8.7

PROMOTION OF SATELLITE TECHNOLOGY AND AEROSPACE ENGINEERING THROUGH AN INTERNATIONALLY DESIGNED TABLETOP WIND TUNNEL
Setshedi Rhyme, Cape Peninsula University of Technology, South Africa

IAC-15.E1.8.8

DEEP SPACE ROBOTIC IMAGING SYSTEMS [R.I.S] FOR STUDENT
Ido Bareket, Israel

E1.9. Space Culture

October 16 2015, 13:30 — Oranim 3-B

Co-Chair(s): *Jessica Culler, The Planetary Society, United States; Nelly Ben Hayoun, Royal Holloway, University of London, United Kingdom;*
Rapporteur(s): *R. Timmermans, The Netherlands;*

IAC-15.E1.9.1

PROJECT ADRIFT: THE PROCESS BEHIND AN EXPERIENTIAL ARTS PROJECT ABOUT SPACE JUNK.
Cath Le Couteur, United Kingdom

IAC-15.E1.9.2

ROSETTA, PHILAE: WHY SUCH A MEDIA SUCCESS?
Jacques Arnould, Centre National d'Etudes Spatiales (CNES), France

IAC-15.E1.9.3

SPACE PROGRAMME DEVELOPMENT IN ETHIOPIA: CHALLENGES AND ACCOMPLISHMENT
Beza Tesfaye, Space Generation Advisory Council (SGAC), Ethiopia

IAC-15.E1.9.4

SCIENTIFIC DOMESTICITY - TRANSFORMING PROSAIC DOMESTICITY AND SPACE EDUCATION THROUGH THE WONDER OF SPECULATIVE SCIENCE.
Luke Lupton, United Kingdom

IAC-15.E1.9.5

ESTABLISHING INDEPENDENT AEROSPACE RESEARCH PROGRAMS IN A DEVELOPING COUNTRY: DITSÓ PROGRAM AND THE COSTA RICA EXPERIENCE
Luis Monge, Central American Association of Aeronautics and Space (ACAE), Costa Rica

IAC-15.E1.9.6

ANALYSIS OF SPACE SOCIAL EVENT ATTENDANCE AND MAXIMIZING EFFECTIVENESS
Ryan L. Kobrick, Yuri's Night, United States

IAC-15.E1.9.7

THE MINOVITCH METHOD AIMS, IN CONVERSATION AND COLLABORATION WITH SCIENTISTS AND ENGINEERS, TO EXPLORE AND EXTEND THE WAYS IN WHICH WE ARE CAPABLE OF DEPARTING FROM EARTH, THE SOLAR SYSTEM AND BEYOND.
Sascha Pohflepp, Germany

IAC-15.E1.9.8

THE PUBLIC PICKED OPTION X, NOW WHAT? BOLSTERING NASA'S DECISION-MAKING PROCESSES BY APPROPRIATELY SOLICITING PUBLIC INPUT
Ademir Vrolijk, George Washington University, United States

IAC-15.E1.9.9 (withdrawn)

THE NEW FRONTIER OF EDUCATION AND PERSONAL WISDOM - HOW TO STUDY DIRECTLY WITH NASA LEGENDS, ROCK STARS AND AWARD WINNING ENTREPRENEURS
Dragos Bratasanu, Romanian Space Agency (ROSA), Romania

IAC-15.E1.9.10

DOWN TO EARTH: A FRAMEWORK FOR EMPHATHISING WITH SCIENTIFIC DATA AND INVISIBLE THREATS.
Pangiotis Tigas, United Kingdom

IAC-15.E1.9.11

PUBLIC CHOICE AND ASTROBIOLOGY; A CASE STUDY: THE LIFE, THE SEA AND THE SPACE VIKING; A DIGITAL APP AND OPEN DEBATE TO BIOLOGICAL SELECTION AND SPATIAL COLONIZATION.
Nelly Ben Hayoun, Royal Holloway, University of London, United Kingdom

E1.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): *Chris Welch, International Space University (ISU), France; Naomi Mathers, Advanced Instrumentation and Technology Centre (AITC), Australia;*

IAC-15.E1.IP.1

THE YOUTH FOR SPACE CHALLENGE - ODYSSEUS II PROJECT
Jaroslav Urban, Czech Space Office, Czech Republic

IAC-15.E1.IP.2

STATUS QUO AND FUTURE PERSPECTIVES OF UNISEC-GLOBAL
Rei Kawashima, UNISEC-Global, Japan

IAC-15.E1.IP.3

EU SPACE AWARENESS: INSPIRING EVERYONE WITH OUR WONDERFUL COSMOS
Pedro Russo, Leiden University, The Netherlands

IAC-15.E1.IP.4

SPACE IN MY SCHOOL
Ivo Jokin, Municipal educenter, Bulgaria

IAC-15.E1.IP.5

THE PROMOTION OF SPACE EDUCATION, RESEARCH AND TECHNOLOGY THROUGH VARIOUS GROUPS.
Judith Ananzo Awasak, Nigeria

IAC-15.E1.IP.6 (withdrawn)

THE MERCURY TRANSIT IN 2016
Joe Zender, European Space Research and Technology Centre, ESA-ESTEC, The Netherlands

IAC-15.E1.IP.7

HUMAN POWER AND SPACE INNOVATION BY DR ANA B. HELLER -VP IN EDUCATION AND OUTREACH AT SPACEIALIST
Ana B. Heller, International Space Center, Israel, Israel

IAC-15.E1.IP.8

UTILIZING NON-TRADITIONAL METHODS TO STIMULATE THE SPACE INDUSTRY
Kendra Toole, Orbital Sciences Corporation, United States

IAC-15.E1.IP.9 (withdrawn)

OBSERVING THE INFLUENCE OF PROFESSIONAL DEVELOPMENT THROUGH THE UNIVERSITY OF ARIZONA ASTRONOMY CLUB
Allison McGraw, University of Arizona, United States

E2. 45th STUDENT CONFERENCE

Coordinator(s): *Marco Schmidt, Bochum University of Applied Sciences, Germany; Stephen Brock, American Institute of Aeronautics and Astronautics (AIAA), United States;*

E2.1. Student Conference – Part 1

October 13 2015, 09:45 — Kerem Carmit

Co-Chair(s): *Benedicte Escudier, Institut Supérieur de l'Aéronautique et de l'Espace (ISAE), France; Rachid Amekrane, Airbus DS GmbH, Germany;*
Rapporteur(s): *Jeong-Won Lee, Korea Aerospace Research Institute (KARI), Korea, Republic of;*

IAC-15.E2.1.1 (withdrawn)

HYPER VELOCITY IMPACT ANALYSIS OF CUBE SAT AND SUBSEQUENT ORBIT DETERMINATION
Japneet Singh, University of Petroleum and Energy Studies, India

IAC-15.E2.1.2

ANALYSIS OF INTEGRATED THERMAL SUBSYSTEMS FOR COMPOSITE PRIMARY SPACECRAFT STRUCTURES
Ajay Prasad Ragupathy, Delft University of Technology (TU Delft), The Netherlands

IAC-15.E2.1.3

FROM THE STAKEHOLDERS ANALYSIS TO THE MISSION CONCEPT SELECTION. AN AGILE SYSTEM ENGINEERING APPROACH FOR THE DESIGN OF A SUBORBITAL TOURISTIC OR SCIENTIFIC MISSION.
Roberta Fusaro, Politecnico di Torino, Italy

IAC-15.E2.1.4

PRECISE DETERMINATION OF STATIC MARGINS FOR UNGUIDED SOUNDING ROCKETS
Dawid Cieśliński, Warsaw University of Technology and Institute of Aviation, Poland

IAC-15.E2.1.5

COOPERATIVE CONTROL METHODOLOGY FOR THE SUCCESSFUL DEMONSTRATION OF THE FORMATION FLIGHT FOR IITHSSP
Subhash Babu Kanagala, Indian Institute of Technology, India

IAC-15.E2.1.6

A NOVEL DRAG COEFFICIENT MODELING FOR NANO SATELLITES
Ori Levy, TECHNION - Israel Institute of Technology, Israel

IAC-15.E2.1.7 (withdrawn)

WAYS TO ENSURE THE SAFETY OF THE CREW OF THE SPACECRAFT AT THE LAUNCH SITE DURING THE LAUNCH
Grigori Biziukin, Moscow, Russian Federation

IAC-15.E2.1.8

DEVELOPMENT OF A LOW-THRUST MULTI-OBJECTIVE TRAJECTORY OPTIMIZATION TOOL FOR CLEANSPACE ONE
Marco Gomez, Delft University of Technology (TU Delft), The Netherlands

IAC-15.E2.1.9

A GEO-SPATIAL ASSESSMENT OF DROUGHT IN NORTHERN NIGERIA USING VEGETATION INDICES AND LAND SURFACE TEMPERATURE APPROACH.
Henry Ibitolu, Federal University of Technology Akure, Ondo state, Nigeria, Nigeria

IAC-15.E2.1.10

MARS IN INDIGENOUS AUSTRALIA
Rose Tasker, Australia

IAC-15.E2.1.11 (withdrawn)

COMBINED LAUNCH SYSTEMA MODIFICATION TO THE ROCKOON LAUNCHING CONCEPT FOR A NEW APPLICATION TO REDUCE THE LAUNCH COSTS FOR MICRO (CUBE) SATELLITES AND DEBRIS' HUNTING PROBES.

Hamed Ahmed, Cairo University, Egypt

E2.2. Student Conference – Part 2

October 14 2015, 09:45 — Kerem Carmit

Co-Chair(s): Jeong-Won Lee , Korea Aerospace Research Institute (KARI), Korea, Republic of; Marco Schmidt , Bochum University of Applied Sciences, Germany;

Rapporteur(s): Benedicte Escudier , Institut Supérieur de l'Aéronautique et de l'Espace (ISAE), France;

IAC-15.E2.2.1

QUANTIFYING MULTIDISCIPLINARY UNCERTAINTY IN SATELLITE SYSTEM DESIGN WITH ACTIVE SUBSPACES

Xingzhi Hu, National University of Defense Technology, China

IAC-15.E2.2.2

EXPERIMENTAL INVESTIGATION OF MULTIPLE CATALYST IGNITION OF HYDROGEN PEROXIDE HYBRID ROCKET MOTOR

Sheng Zhao, Beihang University (BUAA), China

IAC-15.E2.2.3

INTEGRATION AND TESTING OF VACUUM ARC THRUSTERS FOR THE PICO SATELLITE UWE-4

Alexander Kramer, University of Würzburg, Germany

IAC-15.E2.2.4

3-DOF GAS BEARING SIMULATOR FOR SMALL SATELLITE TESTS WITH AUTOMATED MASS DISPLACEMENT CONTROL TO ELIMINATE DISTURBANCE TORQUES

Alexander Schultze, Dresden University of Technology (DUT) / Technische Universität Dresden, Germany

IAC-15.E2.2.5

VISION-BASED AUTONOMOUS CHARACTERIZATION AND NAVIGATION FOR ASTEROIDS

Mehregan Dor, ISAE - Institut Supérieur de l'Aéronautique et de l'Espace, France

IAC-15.E2.2.6

MAGNETIC NAVIGATION FOR NON COLLABORATIVE SATELLITE RENDEZVOUS

Clément Masson, SUPAERO- Ecole Nationale Supérieure de l'Aéronautique et de l'Espace, France

IAC-15.E2.2.7

TRAJECTORY DESIGN FOR PLANETARY POLE-SITTER MISSIONS

Mike Walmsley, University of Edinburgh, United Kingdom

IAC-15.E2.2.8

DEVELOPMENT OF A LOW-COST, LOW-MICRO-VIBRATION CMG FOR SMALL AGILE SATELLITE APPLICATIONS

Benjamin Kawak, Surrey Space Centre - University of Surrey, United Kingdom

E2.3-YPVF.4. Student Team Competition

October 13 2015, 14:45 — Kerem Carmit

Co-Chair(s): Carolyn Knowles , National Aeronautics and Space Administration (NASA), United States; Naomi Mathers, Advanced Instrumentation and Technology Centre (AITC), Australia;

IAC-15.E2.3-YPVF.4.1

"LOOK APP", A FREE IOS APPLICATION FOR SPACE EVENTS

Alice Pellegrino, Italy

IAC-15.E2.3-YPVF.4.2

ORPHEUS - ORBITAL RECONNAISSANCE AND PHOBOS EXPLORATION BY HUMANS: A FEASIBILITY STUDY OF A SHORT STAY MISSION TO THE PROXIMITY OF MARS.

Crescenzo Ruben Xavier Amendola, ISAE - Institut Supérieur de l'Aéronautique et de l'Espace, France

IAC-15.E2.3-YPVF.4.3

TECHNICAL CHALLENGES OF THE DEBRIS DEORBIT DEMONSTRATOR AND ENVISAT OBSERVATION SATELLITE (D3EOS) MISSION

Serina T. Latzko, University of Stuttgart, Germany

IAC-15.E2.3-YPVF.4.4

FIELD TESTING OF TRACKING SATELLITE SIGNALS USING LOW COST RADIO EQUIPMENT AS AN EVALUATION FOR THE DISTRIBUTED GROUND STATION NETWORK

Kristian Buhaug Solbakken, Norwegian University of Science and Technology, Norway

IAC-15.E2.3-YPVF.4.5 (withdrawn)

NOVEL IMPLICATIONS OF SMALL SATELLITE TECHNOLOGY - A COMPREHENSIVE STUDY.

Ajay Prasad Ragupathy, Delft University of Technology (TU Delft), The Netherlands

IAC-15.E2.3-YPVF.4.6

DESIGN OF A ROCKET-POWERED TRANSONIC RESEARCH VEHICLE

Olga Motsyk, Delft University of Technology (TU Delft), The Netherlands

IAC-15.E2.3-YPVF.4.7

THE DESIGN AND ORGANIZATIONAL APPROACH TO A STUDENT-BUILT PARAFFIN-NITROUS OXIDE HYBRID SOUNDING ROCKET

Jeremy Chan-Hao Wang, University of Toronto Aerospace Team (UTAT), Canada

IAC-15.E2.3-YPVF.4.8 (withdrawn)

TRAJECTORY DESIGN OF THE TIME CAPSULE TO MARS STUDENT MISSION

Jonathan Aziz, University of Colorado Boulder, United States

IAC-15.E2.3-YPVF.4.9

PREDICTION AND IMPROVEMENT IN FATIGUE LIFE OF LEO 1U PICO-SATELLITE USING FEA TOOL TO MAXIMIZE THE MISSION'S PREDICTED LIFE

Aniket Marne, College of Engineering, Pune, India

IAC-15.E2.3-YPVF.4.10

STRAIN-RIGIDISED WIDEBAND CONICAL HELIX ANTENNA FOR CUBESAT DEPLOYMENT

Bryan Tester, University of Strathclyde, United Kingdom

IAC-15.E2.3-YPVF.4.11

FLEXIBLE ELECTROMAGNETIC LEASH DOCKING SYSTEM (FELDS) EXPERIMENT FROM DESIGN TO MICROGRAVITY TESTING

Davide Petrillo, University of Padova - DII, Italy

E2.4. Educational Pico and Nano Satellites

October 16 2015, 09:45 — Kerem Carmit

Co-Chair(s): Lisa Antoniadis , Space Center EPFL, Switzerland; Xiaozhou Yu , Northwestern Polytechnical University, China; Rapporteur(s): Franco Bernelli-Zazzera , Politecnico di Milano, Italy;

IAC-15.E2.4.1 (withdrawn)

CUBESAT VERIFICATION CAMPAIGN: EXPERIENCE FROM THE «FLY YOUR SATELLITE!» PROGRAMME

Piero Galeone, European Space Agency (ESA), The Netherlands

IAC-15.E2.4.2

DEVELOPMENT AND APPLICATION TENDENCY OF CUBESATS IN THE NEAR FUTURE

Simei Ji, Beijing Institute of Technology, China

IAC-15.E2.4.3

PROJECT MANAGEMENT AND IMPLEMENTATION OF HARDWARE AND SOFTWARE INTERFACES BETWEEN SUBSYSTEMS OF SWAYAM STUDENT SATELLITE INITIATIVE

Nikhil Sambhus, College of Engineering Pune, India

IAC-15.E2.4.4

CUBETH ADCS DESIGN, IMPLEMENTATION AND VALIDATION TESTS

Stefano Rossi, Swiss Space Center, Switzerland

IAC-15.E2.4.5

CURRENT STATUS OF BMSTU-SAIL SPACE EXPERIMENT

Vera Mayorova, Bauman Moscow State Technical University, Russian Federation

IAC-15.E2.4.6

DESIGN, DEVELOPMENT AND IN-ORBIT PERFORMANCE AND VALIDATION OF THE THERMAL SUBSYSTEM OF SRMSAT NANOSATELLITE

Vishal Latha Balakumar, Delft University of Technology (TU Delft), The Netherlands

IAC-15.E2.4.7

DESIGN AND DEVELOPMENT OF SEPARATION MECHANISM FOR TWIN NANO SATELLITE - STUDESAT-2

Sandesh Rathnavarma Hegde, Nitte Meenakshi Institute of Technology, India

IAC-15.E2.4.8

EMBEDDED RTOS IMPLEMENTATION FOR TWIN NANO- SATELLITE STUDESAT2

Kamal Lamichhane, Student, India

IAC-15.E2.4.9

A PRISTINE, VERSATILE AND COST-EFFECTIVE STANDARDIZED STRUCTURAL SYSTEM FOR CUBESATS

Aniket Marne, College of Engineering, Pune, India

IAC-15.E2.4.10

DESIGN & IMPLEMENTATION OF A CUSTOM TRANSCIEVER TO ESTABLISH DIGITAL COMMUNICATION WITH SATELLITES IN HAM BAND

Pritesh Chhajed, College of Engineering Pune, India

E3. 28th IAA SYMPOSIUM ON SPACE POLICY, REGULATIONS AND ECONOMICS

Coordinator(s): Bernhard Schmidt-Tedd , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; Jacques Masson , European Space Agency (ESA), The Netherlands;

E3.1. Regional cooperation in space: policies, governance and legal tools

October 13 2015, 09:45 — 313

Co-Chair(s): Ciro Arevalo Yepes , Colombia; Elisabeth Back Impallomeni , University of Padova, Italy;

Rapporteur(s): Laura Delgado Lopez , Secure World Foundation, United States;

IAC-15.E3.1.1

THE ESA CONVENTION: 50 YEARS OF SUCCESSFUL REGIONAL COOPERATION IN SPACE

Ulrike M. Bohlmann, ESA, France

IAC-15.E3.1.2

CENTRAL AMERICAN COOPERATION AND SPACE DEVELOPMENT: ACHIEVEMENTS AND CHALLENGES

Carlos Alvarado, Central American Association of Aeronautics and Space (ACAÉ), Costa Rica

IAC-15.E3.1.3

TACKLING EUROPEAN REGIONAL AND INTERREGIONAL NEEDS BY SPACE-BASED APPLICATIONS

Piero Messina, European Space Agency (ESA), France

IAC-15.E3.1.4

HOW AND WHAT COOPERATION COULD PREVENT CONFLICT IN SPACE

Lini ZHOU, National University of Defense Technology, China

IAC-15.E3.1.5

REGIONAL EFFORTS TO ADVANCE SPACE SUSTAINABILITY: SPOTLIGHT ON LATIN AMERICA

Laura Delgado Lopez, Secure World Foundation, United States

IAC-15.E3.1.6 (withdrawn)

PROMOTING INTERNATIONAL SPACE COOPERATION UNDER THE SILK ROAD ECONOMIC BELT SCHEME: A CONSTRAINT-CHOICE ANALYSIS

Peng Wang, Xi'an Jiaotong University School of Law, China

IAC-15.E3.1.7

THE ROLE OF SPACE IN SUPPORT OF THE COMMON OBJECTIVES OF THE EUROPEAN NORDIC COUNTRIES

Christina Giannopapa, European Space Agency (ESA), France

IAC-15.E3.1.8

RUSSIA- BELARUS SPACE COOPERATION MECHANISMS AND COMMERCIAL SPIN-OFFS EXAMPLES

Yuri Makarov, Roscosmos, Russian Federation

IAC-15.E3.1.9

POLICY ANALYSIS - SPACE PROGRAMMES OF JAPAN AND INDIA

Yuichiro Nagai, University of Tokyo, Japan

IAC-15.E3.1.10

EU AND ESA: STILL A LONG WAY TO ESTABLISH ANY APPROPRIATE RELATIONS?

Maria-del-Carmen Muñoz-Rodríguez, University of Jaen, Spain

IAC-15.E3.1.11

GEOGRAPHICAL AREAS OF INTERNATIONAL COOPERATION IN HORIZON 2020, A PRELIMINARY ANALYSIS

Silvia Ciccarelli, Italian Space Agency (ASI), Italy

IAC-15.E3.1.12 (withdrawn)

UKRAINE COOPERATION IN SPACE: REGIONAL PERSPECTIVES AND EXPECTATIONS

Yevgeniy Zakharchuk, Western Scientific Center of National Academy of Sciences of Ukraine, Ukraine

IAC-15.E3.1.13

COPERNICUS – EUROPE'S EYE ON EARTH

Agnieszka Lukaszczyk, European Commission, Belgium

E3.2. International Space Exploration Policies and Programmes

October 13 2015, 14:45 — 313

Co-Chair(s): Nicolas Peter , European Space Agency (ESA), France; Pascale Ehrenfreund , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

IAC-15.E3.2.1

IAA COSMIC STUDY: DYNAMICS OF SPACE EXPLORATION, A FINAL UPDATE

Serge Plattard, European Space Policy Institute (ESPI), Austria

IAC-15.E3.2.2 (withdrawn)

INTERNATIONAL MECHANISMS FOR COOPERATION IN THE PEACEFUL EXPLORATION AND USE OF OUTER SPACE
Amber Charlesworth, U.S. Department of State, United States

IAC-15.E3.2.3

INDIAN SPACE POLICY – “NATIONAL” ECO-SYSTEM FOR FUTURE SPACE ACTIVITIES
Mukund Kadursrinivas Rao, National Institute of Advanced Studies (NIAS), India

IAC-15.E3.2.4

MULTIDISCIPLINARY EVALUATION OF NEXT STEPS FOR HUMAN SPACE EXPLORATION: TECHNICAL AND STRATEGIC ANALYSIS OF OPTIONS
Mariel Borowitz, Georgia Institute of Technology, United States

IAC-15.E3.2.5

THE UNITED NATIONS HUMAN SPACE TECHNOLOGY INITIATIVE 2014 – 2015
Takanori Miyoshi, United Nations Office for Outer Space Affairs, Austria

IAC-15.E3.2.6

2035 THE POLITICS OF SPACE MINING – AN ACCOUNT OF A SIMULATION GAME
Deganit Paikowsky, Tel Aviv University, Israel

IAC-15.E3.2.7 (withdrawn)

THE INTERNATIONAL REGIME GOVERNING EXPLOITATION OF NATURAL RESOURCES IN OUTER SPACE: POTENTIAL PROCESS OF FORMULATION
Yangzi Tao, Beijing Institute of Technology, China

IAC-15.E3.2.8 (withdrawn)

THE DOMESTIC POLITICAL IMPACT OF CHINA'S SPACE PROGRAM
Michael Sheehan, University of Wales, Swansea, United Kingdom

IAC-15.E3.2.9

STRUCTURAL REFORM AND INDUSTRIAL POLICY DEVELOPMENT ISSUES OF RUSSIAN NATIONAL SPACE PROGRAM: AN OVERVIEW
Dmitry Payson, United Rocket and Space Corporation, Russian Federation

IAC-15.E3.2.10

FROM STRATEGY TO PROGRAMMES: HOW ESA'S EXPLORATION STRATEGY IS BEING TRANSLATED INTO CONCRETE PROGRAMMES
Valérie Zinck-Dasmien, ESA, The Netherlands

IAC-15.E3.2.11

AN INTEGRATED POLICY FRAMEWORK FOR A CAPABILITIES-DRIVEN APPROACH TO HUMAN SPACEFLIGHT
Nikolai Joseph, Space Policy Institute, George Washington University, United States

IAC-15.E3.2.12

PROBLEMS OF REGULATION OF PROPERTY RIGHTS IN SPACE, MOON AND OTHER CELESTIAL BODIES
Milan Mijovic, Space Generation Advisory Council (SGAC), Serbia

IAC-15.E3.2.13 (withdrawn)

PREDICTING THE TRAJECTORIES OF CIVIL SPACE PROGRAMS
Emily Sylak-Glassman, Science and Technology Policy Institute, United States

IAC-15.E3.2.14

KEY POLICIES TO SUCCESS OF NASA'S COMMERCIAL CREW PROGRAM: CONSIDERING LESSONS LEARNED FROM PAST PUBLIC TO PRIVATE FUNCTION TRANSFERS
Zachary Hester, Space Policy Institute, George Washington University, United States

E3.3. The space economy: what are the socio-economic impacts?

October 14 2015, 09:45 — 313

Co-Chair(s): Claire Jolly , Organisation for Economic Co-operation and Development (OECD), France; Joan Harvey , Canadian Space Agency, Canada;
Rapporteur(s): Luigi Scatteia , Strategy& - Formerly Booz and Company, The Netherlands;

IAC-15.E3.3.1 (withdrawn)

THE BRAZILIAN SPACE PROGRAM PUBLIC PROCUREMENT AS AN INSTRUMENT OF INDUSTRIAL DEVELOPMENT
Monica Elizabeth Oliveira, Instituto Nacional de Pesquisas Espaciais (INPE), Brazil

IAC-15.E3.3.2

A SOCIO-ECONOMIC IMPACT ASSESSMENT OF THE EUROPEAN LAUNCHER SECTOR
Luca del Monte, European Space Agency (ESA), France

IAC-15.E3.3.3

2025 ECONOMIC STATUS OF CHINA'S LAUNCH VEHICLE INDUSTRY: A SCENARIO ANALYSIS
Xiaoxiao Li, Central University of Finance and Economics, China

IAC-15.E3.3.4

PRIVATISING SPACE MISSIONS – THE CRITICAL ROUTE TO BOOST INDIAN SPACE ECONOMY
Mukund Kadursrinivas Rao, National Institute of Advanced Studies (NIAS), India

IAC-15.E3.3.5

THE IMPACT OF JAXA'S PROCUREMENT SYSTEM TRANSITION ON NEW ENTRY
Takahiro Ueda, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.E3.3.6

ECONOMIC EVALUATION OF BENEFITS OF THE KNOWLEDGE DERIVING FROM SPACE EXPLORATION THE CASE OF HIGH HENERGY ASTROPHYSICS MISSIONS IN WHICH ITALY IS INVOLVED
Simona di Ciaccio, Italian Space Agency (ASI), Italy

IAC-15.E3.3.7

HOW LARGE IS THE AFRICAN SPACE MARKET AND WHAT ARE GROWTH OPPORTUNITIES?
Carla Sharpe, SKA South Africa, South Africa

IAC-15.E3.3.8

SATELLITES FOR SOCIETY: REPORTING ON THE OPERATIONAL USES OF SATELLITE-BASED SERVICES AMONG PUBLIC ADMINISTRATIONS IN EUROPE
Grazia Maria Fiore, EURISY, France

IAC-15.E3.3.9

FROM ASI DISTRETTO VIRTUALE PORTAL: 20 COMMENTED CASES OF "SPINOFFS" FROM SPACE TO NON SPACE BUSINESS LINES
Giacomo Primo Sciortino, Italian Space Agency (ASI), Italy

IAC-15.E3.3.10 (withdrawn)

STUDY TO ASSESS THE SOCIAL AND ECONOMIC BENEFITS OF SMALL SATELLITES TO THE SOCIETY
Ajay Prasad Ragupathy, Delft University of Technology (TU Delft), The Netherlands

E3.4. Assuring a Safe, Secure and Sustainable Space Environment for Space Activities

October 14 2015, 14:45 — 313

Co-Chair(s): Chen Shenyan , Beihang University, China; Ray Williamson , Secure World Foundation, United States;
Rapporteur(s): Charlotte Mathieu , European Space Agency (ESA), France;

IAC-15.E3.4.1

STATUS UPDATE ON THE DEVELOPMENT OF UN COPUOS GUIDELINES FOR SPACE SUSTAINABILITY
Peter Martinez, University of Cape Town, South Africa

IAC-15.E3.4.2

SELF-DEFENSE IN SPACE: PERSPECTIVES, ANALOGIES, AND PROSPECTS
Victoria Samson, Secure World Foundation, United States

IAC-15.E3.4.3

MULTI LATERAL INITIATIVES FOR LONG TERM SUSTAINABILITY OF OUTER SPACE ACTIVITIES
V. Gopala Krishnan, Indian Space Research Organization (ISRO), India

IAC-15.E3.4.4

BEYOND THE SPACE COMMONS: AN ALTERNATIVE FRAMEWORK FOR ASSESSING SPACE DEBRIS GOVERNANCE AND SUSTAINABILITY EFFORTS
Aurélie Trur, Graduate Institute for Policy Studies GRIPS Tokyo, Japan

IAC-15.E3.4.5

ACTIVE DEBRIS REMOVAL: LEGAL OBSTACLES AND POLICY ALTERNATIVES
Jinyuan SU, Xi'an Jiaotong University School of Law, China

IAC-15.E3.4.6

INTERNATIONAL SPACECRAFT DESIGN POLICIES FOR ORBITAL SERVICING
Aureliano Rivolta, Politecnico di Milano, Italy

IAC-15.E3.4.7 (withdrawn)

KNOWLEDGE BASE FOR INFORMED SPACE SECURITY POLICY
Anna Jaikaran, Project Ploughshares, Canada

IAC-15.E3.4.8 (withdrawn)

DEVELOPING CRITERIA FOR SUSTAINABILITY IN THE ORBITAL ENVIRONMENT
Nathanael McIntyre, Arizona State University, United States

IAC-15.E3.4.9

THE ACADEMIC DEVELOPMENT OF SPACE ACTIVITIES RESEARCH IN CHINA
Hongbo Li, China Academy of Launch Vehicle Technology, China

IAC-15.E3.4.10 (withdrawn)

CORPORATE SOCIAL RESPONSIBILITY – A STRATEGY FOR SUSTAINABLE COMMERCIAL SPACE
Michelle Mendes, World Space Week Association, United States

IAC-15.E3.4.11

LOOKING AT THE GOVERNANCE SCHEME FOR THE FUTURE GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS)
Serge Plattard, European Space Policy Institute (ESPI), Austria

E3.5-E7.6. 30th IAA/IISL Scientific-Legal Roundtable: Universities as Actors in Space

October 15 2015, 09:45 — 313

Co-Chair(s): Kai-Uwe Schrogl , European Space Agency (ESA), France; Willem (Herman) Steyn , Stellenbosch University, South Africa;
Rapporteur(s): Marc Haese , DLR, German Aerospace Center, Germany; Nicola Rohner-Willsch , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;

IAC-15.E3.5-E7.6.1

UNIVERSITIES AS A STIMULUS FOR CHANGE IN THE ECONOMICS OF SPACE
Sir Martin Sweeting, Surrey Space Centre, University of Surrey, United Kingdom

IAC-15.E3.5-E7.6.2

A UNIVERSITY IN SPACE – A CASE STUDY
Klaus Schilling, University Wuerzburg, Germany

IAC-15.E3.5-E7.6.3

THE ROLE OF UNIVERSITIES IN THE DEVELOPMENT OF SPACE CAPACITIES IN EMERGENT COUNTRIES: THE COLOMBIAN CASE
Camilo Guzman Gomez, UNIVERSIDAD SERGIO ARBOLEDA, Colombia

IAC-15.E3.5-E7.6.4

LESSONS LEARNED FROM A SATELLITE PROJECT - OBSTACLES AND ACCELERATORS
Matteo Emanuelli, Institut Supérieur des Sciences Et Techniques (INSSET), France

IAC-15.E3.5-E7.6.5

FLIGHT OPPORTUNITIES FOR UNIVERSITY PAYLOADS
Abe Bonnema, ISIS - Innovative Solutions In Space B.V., The Netherlands

IAC-15.E3.5-E7.6.6 (withdrawn)

WHERE NO HUMAN HAS GONE BEFORE: THE ROLE OF UNIVERSITIES IN INCREASING PARTICIPATION BY WOMEN IN SPACE-RELATED CAREERS AND ACTIVITIES.
Juliana Scavuzzi, Brazilian Association of Air and Space Law, Canada

IAC-15.E3.5-E7.6.7

REGULATORY ISSUES FOR UNIVERSITIES AS ACTORS IN SPACE
Otto Gudiño Ramirez de Arellano, Ramirez de Arellano y Abogados, S.C. Law Firm, Mexico

IAC-15.E3.5-E7.6.8

FREQUENCY MANAGEMENT REQUIREMENTS FOR UNIVERSITIES
Yvon HENRI, ITU, Switzerland

E3.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Bernhard Schmidt-Tedd , Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; Jacques Masson , European Space Agency (ESA), The Netherlands;

IAC-15.E3.IP.1

INTRODUCTION OF PROPERTY RIGHTS IN OUTER SPACE: THE IMPERATIVENESS OF NEW TAXES?
Khafayat Olatinwo, Nigeria

IAC-15.E3.IP.2

ASTEROID MINING POLICY: FUNDAMENTAL GOALS AND POLICY CHOICES
Alanna Krolkowski, Harvard University, United States

IAC-15.E3.IP.3 (withdrawn)

NUCLEAR POWERED SPACECRAFT SAFETY
Joao Lousada, OHB-System AG, Germany

IAC-15.E3.IP.4 (withdrawn)

THE IMPORTANCE OF ASSESSING THE WIDER ECONOMIC BENEFITS OF SPACE ACTIVITIES IN EUROPE, IN THE UPSTREAM AND IN SERVICES
Luigi Scatteia, Strategy& - Formerly Booz and Company, The Netherlands

IAC-15.E3.IP.5

STUDY ON THE CURRENT STATUS OF THE SPACE SECTOR IN KOREA
Jung Ho Park, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.E3.IP.6

MODELLING SUSTAINABLE PUBLIC INVESTMENT INTO SPACE SCIENCES AND DEVELOPING THE SPACE READINESS INDEX
Carla Sharpe, SKA South Africa, South Africa

IAC-15.E3.IP.7

ANALYSIS OF THE COMMERCIAL SATELLITE INDUSTRY
Anton Dolgoplov, United States

IAC-15.E3.IP.8

DEVELOPMENT OF END-TO-END NANO-SATELLITES BUSINESSES IN THE UK
Ana Raposo, United Kingdom

IAC-15.E3.IP.9

CORPORATE SOCIAL RESPONSIBILITY IN SPACE
Thorbjørn Waal Lundsgaard, Denmark

IAC-15.E3.IP.10

LEGAL AND POLITICAL IMPLICATIONS OF FUTURE ON-ORBIT SERVICING MISSIONS
Martin Losekamm, Technische Universität München, Germany

IAC-15.E3.IP.11

A COMPARATIVE OVERVIEW OF SPACE AFFAIRS FROM EU, JAPAN AND USA: ALLIES OR COMPETITORS?
Veronica La Regina, Italian Space Agency (ASI), Italy

IAC-15.E3.IP.12

ACTUALIZING SCIENTIFIC-TECHNICAL COOPERATION OF SPACE INDUSTRY, NATIONAL ACADEMY OF SCIENCES OF UKRAINE AND INTERNATIONAL ACADEMY OF ASTRONAUTICS FOR IMPLEMENTING PROSPECTIVE INTERNATIONAL SPACE PROJECTS AND SOLVING GLOBAL SPACE PROBLEMS
A.V. Novikov, Yuzhnoye State Design Office, Ukraine

IAC-15.E3.IP.13 (withdrawn)

THE EVOLUTION OF SPACE POLICY OF INDONESIA, AND ITS IMPLEMENTATION ON INTERNATIONAL COOPERATION
Happy Rumiris Simanungkalit, LAPAN, National Institute of Aeronautics and Space, Indonesia, Indonesia

IAC-15.E3.IP.14

AFRICAN REGIONAL COOPERATION: A RISK ANALYSIS
Leehandi De Witt, Space Commercial Services, South Africa

IAC-15.E3.IP.15 (withdrawn)

SPACE COOPERATION IN EUROPE: LOOKING UP, LOOKING AHEAD!
Vera Pinto Gomes, Belgium

IAC-15.E3.IP.16

HOW CURRENT POLICY AFFECTS FUTURE COLONIZATION EFFORTS
Zachary Riffle, United States

IAC-15.E3.IP.17

SPACE PROGRAM OF TURKEY AND INTERNATIONAL COOPERATION OPPORTUNITIES FOR DISASTER MANAGEMENT AND FOR SPACE EXPLORATION
Ugur Guven, United States

IAC-15.E3.IP.18

CROWDFUNDED SPACE EXPLORATION MISSIONS
Abigail Calzada Diaz, Birkbeck College London, United Kingdom

E4. 49th IAA HISTORY OF ASTRONAUTICS SYMPOSIUM

Coordinator(s): *Ake Ingemar Skoog, Germany; Christophe Rothmund, Airbus Safran Launchers, France; Philippe Jung, Association Aéronautique & Astronautique de France (3AF), France; Tal Inbar, The Fisher Institute for Air and Space Strategic Studies, Israel;*

E4.1. Memoirs and Organisational Histories

October 12 2015, 15:15 — Dulzin Big A

Co-Chair(s): *Marsha Freeman, 21st Century Science & Technology, United States; Niklas Reinke, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany;*
Rapporteur(s): *Hervé Moulin, Institut Français d'Histoire de l'Espace, France; Theo Pirard, Space Information Center, Belgium;*

IAC-15.E4.1.1 (withdrawn)

THE EVOLVING ROLE OF THE SCIENCE COMMUNITY IN NASA'S SPACE SCIENCE PROGRAM
Jason Callahan, Georgia Institute of Technology, United States

IAC-15.E4.1.2

THE MISHIN DIARIES, A NEW SIGNIFICANT PRIMARY SOURCE OF SPACE HISTORY INFORMATION
Dmitry Payson, Russian Federation

IAC-15.E4.1.3

SPACE IN FRENCH GUIANA, 50 YEARS OF HISTORY
Antoine ARVEILLER, ESTACA, French Guiana

IAC-15.E4.1.4

COSMONAUT PHAM THUAN AND VIETNAM'S ROAD TO SPACE
Philippe Cosyn, Belgium

IAC-15.E4.1.5

REMINISCENCES ON PARTICIPATION IN THE JCIC SESSIONS ON THE PROVISION OF CONVERTED LAUNCH VEHICLE COMMERCIALISATION
Oleg A. Sokolov, The British Interplanetary Society, United Kingdom

IAC-15.E4.1.6 (withdrawn)

INTERNATIONAL INTERESTS AND TOP-DOWN APPROACHES TO TRANSPARENCY & CONFIDENCE-BUILDING MEASURES IN OUTER SPACE WITHIN THE FRAMEWORK OF UNITED NATIONS
Mia Brown, Space Policy Institute, George Washington University, United States

E4.2. Scientific and Technical Histories

October 15 2015, 09:45 — Dulzin Big A

Co-Chair(s): *Christophe Rothmund, Airbus Safran Launchers, France; Kerrie Dougherty, Australia;*
Rapporteur(s): *Paivi Jukola, Aalto University, Finland; William Jones, United States;*

IAC-15.E4.2.1

50TH ANNIVERSARY OF THE 1ST SPACE WALK BY SOVIET COSMONAUT ALEXEI LEONOV
Olga Zhdanovich, European Space Agency (ESA), The Netherlands

IAC-15.E4.2.2

THE INVENTION AND DIFFUSION OF NEUTRAL BUOYANCY TRAINING
Michael Neufeld, Smithsonian Institution, United States

IAC-15.E4.2.3

PROJECT GEMINI – AN ENGINEERING AND MANAGERIAL ASSESSMENT: WHAT YESTERDAY TEACHES ABOUT TOMORROW
Benjamin Davis, Dulles University, United States

IAC-15.E4.2.4

ENGINES FOR FIRST SPACE LAUNCH-VEHICLE
Vladimir Sudakov, JSC NPO Energomash, Russian Federation

IAC-15.E4.2.5

BMW ROCKET ENGINES
Christophe Rothmund, Airbus Safran Launchers, France

IAC-15.E4.2.6

NEW OBSERVATIONS ON REACTION-PROPELLED MANNED AIRCRAFT CONCEPTS. CA. 1670-1900: PART II (1870-1900)
Frank H. Winter, National Air and Space Museum, United States

IAC-15.E4.2.7

SOUTH AMERICAN SPACE ERA
Bruno Sarli, The Graduate University for Advanced Studies (Sokendai), Japan

IAC-15.E4.2.8

UPS AND DOWNS OF SPACE TOURISM DEVELOPMENT IN 60 YEARS FROM MOON REGISTER TO SPACESHIP TWO CRASH
Eva Yi-Wei Chang, University of Science & Technology, Taiwan, China

E4.3. History of Israeli contribution to astronautics

October 15 2015, 14:45 — Dulzin Big A

Co-Chair(s): *Otfrid Liepack, National Aeronautics and Space Administration (NASA)/Jet Propulsion Laboratory, United States; Tal Inbar, The Fisher Institute for Air and Space Strategic Studies, Israel;*

Rapporteur(s): *Charles Lundquist, University of Alabama in Huntsville, United States; John Harlow, Aerojet Rocketdyne, United Kingdom;*

IAC-15.E4.3.1

THE ORIGINS OF HUMAN SPACEFLIGHT IN ISRAEL: THE ACCOUNT OF PROPHET ELIJAH
Suki Dauda Sule, National Space Research and Development Agency (NASRDA), Nigeria

IAC-15.E4.3.2

FROM BEN-GURION TO BEGIN- PERSPECTIVES OF THE FINAL FRONTIER
Deganit Paikowsky, Tel Aviv University, Israel

IAC-15.E4.3.3 (withdrawn)

DR. DAVID V. ZAITSCHEK (1904-1990): AN ISRAELI VISIONARY ASTRONOMICAL OUTREACH PIONEER
Oded Avraham, Israeli Astronomical Association, United States

IAC-15.E4.3.4

STUDENT ROCKETS OF THE TECHNION IN THE 1960'S AND 1970'S
Tal Inbar, The Fisher Institute for Air and Space Strategic Studies, Israel

IAC-15.E4.3.5

FROM MONOBLOC TO JERICHO, HOW FRANCE PUT ISRAEL INTO SPACE
Philippe Jung, Association Aéronautique & Astronautique de France (3AF), France

IAC-15.E4.3.6

YONATAN MASS, THE FATHER OF ISRAELI REMOTE SENSING SATELLITES
Tal Inbar, The Fisher Institute for Air and Space Strategic Studies, Israel

IAC-15.E4.3.7

YITZHAK MAYO - ISRAELI ASTRONAUT CANDIDATE
Hannes Mayer, Karl Franzens Universität Graz, Austria

IAC-15.E4.3.8

ABY HAR-EVEN, A "ONE MAN SPACE AGENCY" FOR THE STATE OF ISRAEL
Tal Inbar, The Fisher Institute for Air and Space Strategic Studies, Israel

E5. 26th IAA SYMPOSIUM ON SPACE AND SOCIETY

Coordinator(s): *Geoffrey Langedoc, Canadian Aeronautics & Space Institute (CASI), Canada; Olga Bannova, University of Houston, United States;*

E5.1. Space Architecture: technical aspects, design, engineering, concepts and mission planning

October 14 2015, 09:45 — Oranim 2

Co-Chair(s): *Brent Sherwood, Caltech/JPL, United States; Olga Bannova, University of Houston, United States;*

Rapporteur(s): *Anna Barbara Imhof, Liquefier Systems Group (LSG), Austria;*

IAC-15.E5.1.1

FIRST MARS HABITATS: REVIEW OF ARCHITECTURAL CONCEPTS
Marc M. Cohen, Astrostructure™, United States

IAC-15.E5.1.2

FABRICATION AND SELF-ASSEMBLY PROCESSES ON THE MARS SURFACE
Konstantinos-Alketas Oungrinis, Technical University of Crete, Greece

IAC-15.E5.1.3

WHAT WE DON'T KNOW CAN KILL US
Marc M. Cohen, Astrostructure™, United States

IAC-15.E5.1.4

PERFORMANCE-BASED FRAMEWORK FOR THE DESIGN OF LUNAR STRUCTURES
Haym Benaroya, Rutgers University, United States

IAC-15.E5.1.5

ENHANCED MONTE CARLO SIMULATIONS OF THE SPACE RADIATION ENVIRONMENT USING GEANT4 IN A HIGH PERFORMANCE COMPUTING ENVIRONMENT FOR THE INTERNATIONAL SPACE STATION AND APOLLO MISSIONS
Matthew Lund, University of Utah, United States

IAC-15.E5.1.6

USING A HUMAN-CENTRIC DESIGN PROCESS FOR THE IMPLEMENTATION OF ADVANCED COMPUTER-BASED TOOLS IN SPACE PROGRAMS
Jackelynne Silva-Martinez, Georgia Institute of Technology, Embry-Riddle Aeronautical University, United States

IAC-15.E5.1.7 (withdrawn)

AN ENVIRONMENT OF MULTI-SENSORIAL AND TRANSPARENT TECHNOLOGIES ENABLING POSITIVE AND CREATIVE INTERACTIONS IN DEEP SPACE MISSIONS
Ludwig Pasenau, LLA-CREATIS laboratory / CRISO research platform, France

E5.2. Models for Successfully Applying Space Technology Beyond Its Original Intent

October 14 2015, 14:45 — Oranim 2

Co-Chair(s): *Nona Minnifield Cheeks, National Aeronautics and Space Administration (NASA)/Goddard Space Flight Center, United States; Olga Bannova, University of Houston, United States;*
Rapporteur(s): *Anna Barbara Imhof, Liquefier Systems Group (LSG), Austria;*

IAC-15.E5.2.1
SOCIETAL TREASURES STEMMING FROM SPACE PROGRAMS
AUTHOR: MS. NONA MINNIFIELD CHEEKS NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA) GODDARD SPACE FLIGHT CENTER UNITED STATES NONA.K.CHEEKS@NASA.GOV
Nona Minnifield Cheeks, National Aeronautics and Space Administration (NASA)/Goddard Space Flight Center, United States

IAC-15.E5.2.2
EXOHA1 DEVELOPMENT: SPIN-IN/OUT FROM SPACE HABITAT TO DISASTER MANAGEMENT FACILITY
Irene Lia Schlacht, Politecnico di Milano, Italy

IAC-15.E5.2.3
BUSINESS INCUBATION FOR FOSTERING INNOVATION IN SPACE COMMERCE: AN INDIAN PERSPECTIVE
Prateep Basu, India

IAC-15.E5.2.4 (withdrawn)
PUBLIC PRIVATE PARTNERSHIPS: LESSONS FROM EUROPE AND AN ASSESSMENT OF APPLICABILITY IN AN EMERGING SPACE MARKET.
chiara maria Cocchiara, Eumetsat, Germany

IAC-15.E5.2.6
FROM SPACE TO UNDERWATER : AIRBUS D&S AND DEEP SEA ROBOTIC EXPLORATION
Detlef Wilde, Airbus DS GmbH, Germany

IAC-15.E5.2.7
SPACE TECHNOLOGIES IMPACT ON SOCIETY - THE PEACE FACTOR
Meir Moalem, Israel

IAC-15.E5.2.8
STUDY ON THE RELATIONSHIP BETWEEN AEROSPACE SCI-TECH JOURNALS AND THE INNOVATIVE VALUE PROPOSITION FOR AEROSPACE INDUSTRY USING BIG DATA ANALYTICS
Yi Lu, Shanghai Academy of Spaceflight Technology, China

E5.4. Contemporary Arts Practice and Outer Space: A Multi-Disciplinary Approach

October 15 2015, 14:45 — Oranim 2
Co-Chair(s): Daniela de Paulis , Rietveld Academy/ASCA - University of Amsterdam, The Netherlands; Richard Clar , Art Technologies, United States;
Rapporteur(s): Nahum Romero , Equilibrio. Medio ambiente y responsabilidad social, United Kingdom;

IAC-15.E5.4.1
HOW TO DESIGN AND FLY YOUR HUMANLY SPACE OBJECT?
Tibor Balint, Royal College of Art, United Kingdom

IAC-15.E5.4.2
ULISES 1, AN ART MISSION TO SPACE
Juan Diaz Infante, Mexico

IAC-15.E5.4.3
THE VISIT – A MULTIDISCIPLINARY FILM-BASED ENQUIRY INTO HUMANITY'S FIRST ENCOUNTER WITH INTELLIGENT LIFE FROM SPACE
Chris Welch, International Space University (ISU), France

IAC-15.E5.4.4
THE MATTERS OF GRAVITY (LA GRAVEDAD DE LOS ASUNTOS)
Nahum Mantra, Laboratorio Arte Alameda, Mexico

IAC-15.E5.4.5
ASTROARTS: THE CULTURAL PROGRAMME OF ASTRONOMERS WITHOUT BORDERS
Daniela de Paulis, University of Amsterdam, Italy

IAC-15.E5.4.6
COSMOS AND ART IN OUR LIVES: DEVELOPING INTO A LOCAL COMMUNITY
Yuri Tanaka, Tokyo National University of Fine Arts and Music, Japan

IAC-15.E5.4.7
'TO SPACE'- THE CREATION OF A LIVE THEATRE PERFORMANCE PIECE ABOUT SPACE EXPLORATION, FORMED THROUGH A COLLABORATION BETWEEN ARTISTS, THEATRE MAKERS, SCIENTISTS AND SPECIALIST SPACE-RELATED RESEARCH CENTRES.
Niamh Shaw, Ireland

IAC-15.E5.4.8
'LES TEMPS FANTÔMES' - TIME CAPSULE PROJECT FOR ASTRONAUTS
Ludwig Pasenau, LLA-CREATIS laboratory / CRISO research platform, France

IAC-15.E5.4.9
ECOLOGIES OF SPACE
Ralo Mayer, Austria

IAC-15.E5.4.10
BE HOLDING EARTH – CONCEPT FOR FOSTERING GLOBAL PLANETARY AWARENESS
Tobias Kestel, Austria

E5.5. Space Assets and Disaster Management

October 16 2015, 09:45 — Oranim 2
Co-Chair(s): Geoffrey Languedoc , Canadian Aeronautics & Space Institute (CASI), Canada; Peter Swan , SouthWest Analytic Network, United States;
Rapporteur(s): Natasha Jackson , Faculty of Engineering, Carleton University, Canada;

IAC-15.E5.5.1
ENHANCING VALUE OF SPACE-BORNE SYSTEMS FOR DISASTER RISK REDUCTION RESEARCH AND DISASTER RISK MANAGEMENT
Maudood Khan, United States

IAC-15.E5.5.2
SPACE SHEPHERD: USING SPACE ASSETS TO MONITOR, TRACK, AND SEARCH-AND-RESCUE ILLEGAL IMMIGRANTS IN THE MEDITERRANEAN SEA
Francesco Toppato, Politecnico di Milano, Italy

IAC-15.E5.5.3
REMOTE SENSING AND MARITIME POLLUTION: INTEGRATED PARTNERSHIP OF OIL COMPANIES AND LOCAL AUTHORITIES.THE CASE STUDY OF NIGER DELTA.
Carlo Golda, University of Genova, Italy

IAC-15.E5.5.4 (withdrawn)
INFORMATION DISSEMINATION IN SUPPORT OF DISASTERS. FOLLOW UP OF THE CRAZY IDEA
Ghislain RUY, 1RG, Luxemburg

IAC-15.E5.5.5
"GREEN" SPACE TECHNOLOGY - NAVIGATING THE VALUE CHAIN TO ENHANCED ENVIRONMENTAL QUALITY AND SUSTAINABLE LIVING AGAINST EXTREME CLIMATE RISK
Lori Solberg, Israel

IAC-15.E5.5.6
YOUNG PROFESSIONALS AND STUDENTS INVOLVEMENT IN DISASTER RISK REDUCTION USING SPACE TECHNOLOGY APPROACHES
Meshack Ndiritu, Space Generation Advisory Council (SGAC), Ethiopia

IAC-15.E5.5.7
SAME PAGE PREPARING TO DEFEND OUR HOME – EARTH HAREL BEN-AMI ISA DELEGATE FOR SMPAG SUBCOMMITTEE, COPUOS, UNOOSA
Harel Ben-Ami, Israel Space Agency, Israel

IAC-15.E5.5.8
SPACE ASSETS FOR MITIGATING AND MANAGING IMPACT DISASTERS
James Burke, The Planetary Society, United States

IAC-15.E5.5.9
SPACE-BASED TECHNOLOGY APPLICATIONS FOR DISASTER MANAGEMENT IN ASIAN DEVELOPMENT BANK PROJECTS
Yusuke Muraki, Japan Aerospace Exploration Agency (JAXA), Japan

IAC-15.E5.5.10
SATELLITE IMAGES AND THEIR IMPACT ON THE DEVELOPMENT OF R2P
Jillianne Pierce, Space Foundation, United States

IAC-15.E5.5.11
THE PARADIGM SHIFT FROM SATELLITE TO ALTERNATIVE METHODS OF EARTH OBSERVATION DURING EMERGENCY DISASTER MANAGEMENT
Sinead O'Sullivan, Space Generation Advisory Council (SGAC), United States

E5.6. Space Societies, Professional Associations and Museums

October 15 2015, 09:45 — Oranim 2
Co-Chair(s): Scott Hatton , The British Interplanetary Society, United Kingdom;

IAC-15.E5.6.1
SPACE EXHIBITION AT A GRAND SCALE – A SPACE EDUCATION EXTRAVAGANZA: LESSONS FROM THE "SPACE MANIA" EXHIBITION
Tal Inbar, The Fisher Institute for Air and Space Strategic Studies, Israel

IAC-15.E5.6.2 (withdrawn)
UNIFYING MEASURES IN A DIVERSE WORLD
Michelle Mendes, World Space Week Association, United States

IAC-15.E5.6.3
INITIATIVES FROM SPACE MUSEUMS AND SCIENCE CENTERS HELPING TACKLE CURRENT CHALLENGES OF THE SPACE SECTOR.
Ines Prieto, SEMECCEL Cité de l'Espace, France

IAC-15.E5.6.4
SPACE GENERATION: ENGAGING THE NEXT GENERATION IN THE ASIA-PACIFIC AND SOUTH AMERICAN REGIONS
Bruno Sarli, The Graduate University for Advanced Studies (Sokendai), Japan

IAC-15.E5.6.5
SPACE EXPO, EUROPE'S FIRST PERMANENT SPACE EXPOSITION
Rob van den Berg, The Netherlands

E5.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area
Coordinator(s): Geoffrey Languedoc , Canadian Aeronautics & Space Institute (CASI), Canada; Olga Bannova , University of Houston, United States;

IAC-15.E5.IP.1
THE CONVERGENCE AND INDUSTRY-ACADEMY-INSTITUTE COOPERATION OF SPACE TECHNOLOGY IN KOREA
Jong-Bum Kim, Korea Aerospace Research Institute (KARI), Korea, Republic of

IAC-15.E5.IP.2
8 NEW MAP INVENTIONS SHOW THAT MAPS CAN STILL BE USED TO PRESENT NEW IDEAS LIKE BEYOND UNIVERSE, BETWEEN UNIVERSE, NEW ATOMS, NEW CHEMICAL ELEMENTS, ARGUABLE PRESIDENTS, AND IMAGINARY ANIMALS

James Struck, NASA, United States

IAC-15.E5.IP.3
BASIC ELEMENTS IN THE MULTI VERSE
Velliangiri Gounder, Private, India

IAC-15.E5.IP.4 (withdrawn)
THE FINAL FRONTIER: ALL THE WORLDS A STAGE
John Duggan, United States

IAC-15.E5.IP.5
THE GEOGRAPHIC INFORMATION SYSTEM AS A TOOL FOR DECISION MAKING IN THE PLANNING AND DEVELOPMENT AND SUPPORT TO LOCAL DISASTER PREVENTION
Javier Alfredo Valdiviezo Ortiz, Universidad del Azuay, Ecuador

IAC-15.E5.IP.6
EXPLORE AND SPREAD THE RECIPE FOR THE SUCCESS OF CHINA'S AEROSPACE INDUSTRY
Huifeng Xue, China Academy of Aerospace Systems Science and Engineering, China

IAC-15.E5.IP.7
THE POSITION OF SPACE WEATHER IN AFRICA-EDUCATION AND OUTREACH
ABUBAKAR BABAGANA, SEABED INTERNATIONAL, Nigeria

E6. BUSINESS INNOVATION SYMPOSIUM

Coordinator(s): Ken Davidian, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States;

E6.1. Case Studies and Prizes in Commercial Space

October 13 2015, 09:45 — Oranim 4
Co-Chair(s): Aude de Clercq , European Space Agency (ESA), The Netherlands;

IAC-15.E6.1.1
EFFECT OF SPACE LAUNCH DELAYS AND FAILURES ON STOCK MARKET RETURNS OF COMMERCIAL PAYLOAD OPERATORS
Daniil Abramov, University of Michigan, United States

IAC-15.E6.1.2
INDICATIONS OF GROWTH IN SPACE BUSINESS AND INVESTMENT IN JAPAN
Misuzu Onuki, Space Frontier Foundation, Japan

IAC-15.E6.1.3
PAPER TITLE: EXAMINING ECONOMIC MODELS FOR REMOTE SENSING SATELLITE DATA
Prof. Mariel Borowitz, Georgia Institute of Technology, United States

IAC-15.E6.1.4
THE FUTURE OF SPACE TECHNOLOGY BUSINESSES FROM A SILICON VALLEY PERSPECTIVE
Ms. Nicole Jordan, United States

IAC-15.E6.1.5
OUTER FRONTIERS OF BANKING: FINANCING SPACE EXPLORERS, AND SAFEGUARDING TERRESTRIAL FINANCE
Bruce Cahan, Stanford University, United States

IAC-15.E6.1.6
START-UP GRANTS FOR SMALL SCALE TECHNOLOGY COMPANIES IN DEVELOPING COUNTRIES
Michael Kio, Cranfield University, United Kingdom

IAC-15.E6.1.7

STARTUPWEEKEND SPACE: KICKSTARTING NEW SPACE VENTURES IN 60 HOURS
Magni Johannsson, German Aerospace Center (DLR), Germany

IAC-15.E6.1.8

START-UP SPACE: INTERIM RESULTS
Carissa Christensen, The Tauri Group, United States

IAC-15.E6.1.9

DUAL-USE TECHNOLOGIES OR "REVERSE SPIN-OFFS" AS A FRAMEWORK FOR SPACE DEVELOPMENT
Prof. Haym Benaroya, Rutgers University, United States

IAC-15.E6.1.10

CAN A MEGA-SPACE FUND MOVE HUMANITY CLOSER TO BECOMING A MULTIPLANETARY SPECIES?
Michael Potter, International Institute of Space Commerce, United States

IAC-15.E6.1.11 (withdrawn)

HYBRID BUSINESS MODELS FOR START-UPS: A EUROPEAN WAY OF NEWSPACE?
Stefan Schmidt, Space Generation Advisory Council (SGAC), The Netherlands

IAC-15.E6.1.12 (withdrawn)

MAJOR TRENDS DRIVING RECORD LEVELS OF PRIVATE INVESTMENT IN SPACE VENTURES
Chad Anderson, Space Angels Network, United States

IAC-15.E6.1.13 (withdrawn)

NEW SPACE : RISKS AND OPPORTUNITIES IN THE CURRENT CYCLE OF SPACE ENTREPRENEURSHIP
Maxime PUTEAUX, Euroconsult, France

E6.2. Public/Private Human Access to Space - Supporting Studies

October 13 2015, 14:45 — Oranim 4

Co-Chair(s): Ken Davidian , Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States;

IAC-15.E6.2.1

STOP THE MADNESS! WHY "COMMERCIAL" SPACE DOESN'T EXIST
Ken Davidian, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States

IAC-15.E6.2.2

PAPER TITLE: ANALYSIS ON THE SITUATION AND PROSPECTS OF SOCIAL CAPITAL INVESTMENT ON CHINA CIVIL SPACE INFRASTRUCTURE
Ms. Jialing Jiang, China Academy of Launch Vehicle Technology, China

IAC-15.E6.2.3

PUBLIC PRIVATE PARTNERSHIPS AND THE DEVELOPMENT OF SPACE LAUNCH SYSTEMS IN THE UNITED STATES
Dr. Eligar Sadeh, United States

IAC-15.E6.2.4

FROM AVIATION TOURISM TO SUBORBITAL SPACE TOURISM: A STUDY OF TAIWAN'S INFRASTRUCTURES
Eva Yi-Wei Chang, University of Science & Technology, Taiwan, China

IAC-15.E6.2.5

EVALUATING THE POTENTIAL FOR COMMERCIAL SPACE INDUSTRY GROWTH: AN ENTREPRENEURIAL ENVIRONMENT ANALYSIS OF JAPAN
Charlotte Kiang, Cornell University, United States

IAC-15.E6.2.6

EVALUATION OF THE POTENTIAL FOR COMMERCIAL SPACE INDUSTRY GROWTH: AN ENTREPRENEURIAL ENVIRONMENT ANALYSIS OF RUSSIA
Praskovia Milova, Politecnico di Milano, Italy

IAC-15.E6.2.7

EIC/SGAC \$PACE IS BUSINESS COMPETITION WINNER
Ken Davidian, Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States

IAC-15.E6.2.8

SPACE SERVICES FOR COMMERCIAL USE
Mr. Ravil Nurgalievich Akhmetov, JSC SRC Progress, Russian Federation

IAC-15.E6.2.9

LICENSING AS A TOOL TO ENCOURAGE TECHNOLOGY TRANSFER FROM SPACE
Paola Belingheri, Italy

IAC-15.E6.2.11 (withdrawn)

STRUCTURE ANALYSIS OF INDIAN AERONAUTICS AND SPACE INDUSTRY CLUSTERS
Shashank Khurana, Peking University, China

IAC-15.E6.2.12 (withdrawn)

THE STRUCTURE OF THE EUROPEAN SPACE INDUSTRY – CURRENT AND HISTORICAL ANALYSIS OF INDUSTRY CLUSTERS IN THE BENELUX
Charlotte Kiang, Cornell University, United States

IAC-15.E6.2.10 (withdrawn)

COLLABORATIVE ENVIRONMENTS FOR IDEATION AND VENTURE CREATION IN THE SPACE SECTOR
Nuno Loureiro, Portugal

E6.3. New Space and New Science

October 14 2015, 14:45 — 302-303

Co-Chair(s): Farnaz Ghadaki, Canadian Space Commerce Association, Canada; Luigi Scatteia, Strategy& - Formerly Booz and Company, The Netherlands;
Rapporteur(s): Daniel Faber, SHOAL, Australia;

IAC-15.E6.3.1

NEW SPACE: CHRIS HADFIELD'S LEADERSHIP TRANSFORMATION & REBRANDING OF SPACE
AZAM SHAGHAGHI, Space Tourism Society Canada, Canada

IAC-15.E6.3.2

NOVEL BUSINESS PARADIGMS FOR EARTH OBSERVATION BY SPACE CAPITALISING ON THE CLOUD REVOLUTION
Jean-pierre ANTIKIDIS, BLUE PLANET, France

IAC-15.E6.3.3

PUBLIC-PRIVATE PARTNERSHIPS TO DEVELOP NEW APPLICATIONS FROM SPACE RESOURCE UTILISATION
Dr. Silvia Ciccarelli Italian Space Agency (ASI), Italy

IAC-15.E6.3.4 (withdrawn)

TWINKLE – A BRITISH SPACE MISSION TO EXPLORE FARAWAY WORLDS
Marcell Tessenyi, University College London, United Kingdom

IAC-15.E6.3.5

THE ASTEROID MINING BUSINESS AND POLICY: FUNDAMENTAL GOALS AND CHOICES
Martin Elvis, Harvard-Smithsonian Center for Astrophysics (CfA), United States

IAC-15.E6.3.6

"IBOSS – MODULAR BUILDING BLOCK APPROACH TOWARDS MORE FLEXIBLE AND EFFICIENT FUTURE IN-ORBIT INFRASTRUCTURE"
Joerg Kreisel, JOERG KREISEL International Consultant (JKIC), Germany

IAC-15.E6.3.7

A SUSTAINABLE COMMERCIAL MICROGRAVITY PROGRAM TOWARDS SPACE MANUFACTURING
Ioana Cozmuta, NASA Ames Research Center, United States

IAC-15.E6.3.8

SPACE SOLUTIONS: BOOSTING INNOVATION FROM SPACE
Frank Salzgeber, European Space Agency (ESA), The Netherlands

IAC-15.E6.3.9

INDUSTRIAL APPROACH AND STRATEGY FOR NANOSATELLITES MASS PRODUCTION
Davide Rastelli, N.P.C. New Production Concept, Italy

IAC-15.E6.3.10

MECHANISMS LINKING GOVERNMENT OVERSIGHT TO WORK PERFORMED BY ENGINEERS
Samantha Marquart, George Washington University, United States

IAC-15.E6.3.11 (withdrawn)

MOBILE APPLICATION CONCEPT USING COPERNICUS SENTINEL EARTH OBSERVATION DATA AND SAP HANA CLOUD PLATFORM TO ADDRESS BARK BEETLES INFESTATION IN THE WORLD'S FOREST: A BUSINESS CASE
Aidan O'Toole, Ireland

E6.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Ken Davidian , Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST), United States;

IAC-15.E6.IP.1

EXAMINING ECONOMIC MODELS FOR REMOTE SENSING SATELLITE DATA
Marriel Borowitz, Georgia Institute of Technology, United States

IAC-15.E6.IP.2

THE FUTURE OF SPACE TECHNOLOGY BUSINESSES FROM A SILICON VALLEY PERSPECTIVE
Nicole Jordan, , United States

IAC-15.E6.IP.3

PUBLIC-PRIVATE PARTNERSHIPS TO DEVELOP NEW APPLICATIONS FROM SPACE RESOURCE UTILISATION: THE CASE OF GREEN AIR EXPERIMENTS ON BOARD THE ISS
Silvia Ciccarelli, Italian Space Agency (ASI), Italy

IAC-15.E6.IP.4 (withdrawn)

DEFINITION AND ANALYSIS OF THE INTERNATIONAL COMMERCIAL SPACEFLIGHT INDUSTRY, 2006-2014
Carissa Christensen, The Tauri Group, United States

IAC-15.E6.IP.5

DUAL-USE TECHNOLOGIES OR "REVERSE SPIN-OFFS" AS A FRAMEWORK FOR SPACE DEVELOPMENT
Haym Benaroya, Rutgers University, United States

IAC-15.E6.IP.6

ANALYSIS ON THE SITUATION AND PROSPECTS OF SOCIAL CAPITAL INVESTMENT ON CHINA CIVIL SPACE INFRASTRUCTURE
Jialing Jiang, China Academy of Launch Vehicle Technology, China

IAC-15.E6.IP.7

PUBLIC PRIVATE PARTNERSHIPS AND THE DEVELOPMENT OF SPACE LAUNCH SYSTEMS IN THE UNITED STATES
Eligar Sadeh, , United States

E7. 58th IISL COLLOQUIUM ON THE LAW OF OUTER SPACE

Coordinator(s): Lesley Jane Smith , Leuphana University of Lüneburg/Weber-Steinhaus & Smith, Germany; Mahulena Hofmann , University of Luxembourg, Luxembourg;

Publication officer(s): Rafael Moro-Aguilar , Orbspace, Austria;

E7.1. 7th Nandasiri Jasentuliyana Keynote Lecture on Space Law and Young Scholars Session

October 13 2015, 09:45 — Dulzin Big A

Co-Chair(s): Orna Ben Naftali , The Haim Striks School of Law, Israel; Tanja Masson-Zwaan , International Institute of Air and Space Law, Leiden University, The Netherlands;
Rapporteur(s): Neta Palkovitz , ISIS- Innovative Solutions In Space B.V., The Netherlands;

IAC-15.E7.1.1

KEYNOTE: THE LEGAL EVOLUTION OF A 'USE' OF SPACE: THE CASE OF REMOTE SENSING
Joanne Irene Gabrynowicz, University of Mississippi, United States

IAC-15.E7.1.2 (withdrawn)

LESSONS DRAWN FROM JURISDICTION AND CONTROL CONCEPTS APPLIED TO INACTIVE SPACE OBJECTS
Jean-Marie de POULPIQUET, University of Toulouse I, France

IAC-15.E7.1.3

SUSTAINABLE SPACE EXPLORATION AND USE: SPACE MINING IN PRESENT AND FUTURE PERSPECTIVES
Rishiraj Baruah, International Institute of Air and Space Law, Leiden University, India

IAC-15.E7.1.4

THE INTERNATIONAL REGIME GOVERNING EXPLOITATION OF NATURAL RESOURCES IN OUTER SPACE: POTENTIAL PROCESS OF FORMULATION
Yangzi Tao, Beijing Institute of Technology, China

IAC-15.E7.1.5

THE EFFECTS OF THE FRAGMENTATION OF INTERNATIONAL LAW ON AEROSPACE REGULATION.
Charles Stotler, , Switzerland

IAC-15.E7.1.6

RIGHT OF WAY FOR ON-ORBIT SPACE TRAFFIC MANAGEMENT
Nathan Johnson, University of Nebraska, College of Law, United States

IAC-15.E7.1.7

THE LEGAL IMPLICATIONS OF ERRONEOUS GNSS SIGNAL, RESULTING FROM HARMFUL INTERFERENCE
Simona Spassova, University of Luxembourg, Luxembourg

IAC-15.E7.1.8

EARTH OBSERVATION DATA IN EUROPE: LEGISLATIVE ACTS TOWARDS THE CREATION OF A POLICY FOR THEIR PRODUCTION AND DISSEMINATION
Amalia Dimopoulou, , Greece

IAC-15.E7.1.9

THE INTELLECTUAL PROPERTY RIGHTS REGIMES FOR THE DEVELOPMENT PHASES OF GALILEO AND COPERNICUS
Caroline Thro, , France

IAC-15.E7.1.10

DOMESTIC PATENT LAW AND SPACE ACTIVITIES: ISSUES OF ENFORCEABILITY
Brendan Cohen, Cleary Gottlieb Steen & Hamilton LLP, United States

IAC-15.E7.1.11
NASA'S TRANSACTIONAL APPROACH TO COMMERCIAL SPACE SYSTEMS ACTIVITIES: A NOVEL WAY FORWARD
Brian Stanford, NASA, United States

IAC-15.E7.1.12
THE IMPACT OF NATIONAL SPACE LEGISLATION ON PRIVATE SPACE UNDERTAKINGS: A REGULATORY COMPETITION BETWEEN STATES
Dimitri Linden, Interdisciplinary Centre for Space Studies (Catholic University of Leuven), Belgium

IAC-15.E7.1.13
IDENTIFYING ELEMENTS OF LEX MERCATORIA IN THE SPACE DOMAIN
Anja Nakarada Pecujlic, University of Vienna, Austria

E7.2. The relationship of international humanitarian law and territorial sovereignty with the legal regulation of outer space

October 13 2015, 14:45 — Dulzin Big A

Co-Chair(s): Steven Freeland, University of Western Sydney, Australia; Ulrike M. Bohlmann, ESA, France;
Rapporteur(s): Simona Spassova, University of Luxembourg, Luxembourg;

IAC-15.E7.2.1
THE APPLICABILITY OF THE UNITED NATIONS SPACE TREATIES DURING ARMED CONFLICT
Steven Freeland, University of Western Sydney, Australia

IAC-15.E7.2.2 (withdrawn)
ON THE APPLICABILITY OF INTERNATIONAL HUMANITARIAN LAW IN OUTER SPACE
Bin Li, Beijing Normal University, China

IAC-15.E7.2.3
PRACTICAL APPLICATION OF JUS IN BELLO AND JUS AD BELLUM TO THE LEGAL REGULATION OF OUTER SPACE ENVIRONMENT
OLUSOJI NESTER JOHN, African Regional Center for Space Science and Technology Education in English (ARCSSTE-E), Nigeria

IAC-15.E7.2.4
AVOIDING LEGAL BLACK HOLES: INTERNATIONAL HUMANITARIAN LAW APPLIED TO CONFLICTS IN OUTER SPACE
Cassandra Steer, Institute of Air and Space Law, McGill University, Canada

IAC-15.E7.2.5
SPACE LAW AND THE JUS AD BELLUM: RELEVANCE OF THE NOTIONS OF AGGRESSION AND SELFDEFENCE IN OUTER SPACE
Julien Mariez, Centre National d'Etudes Spatiales (CNES), France

IAC-15.E7.2.6
THE DEVELOPMENT OF SPACE WEAPONS IN THE FRAMEWORK OF INTERNATIONAL HUMANITARIAN LAW
Guillermo Duberti, Independent Researcher, Argentina

IAC-15.E7.2.7
THE SCOPE OF APPLYING THE PRINCIPLE OF THE MILITARY OBJECTIVE TO A SPACE OBJECT IN ARMED CONFLICT
Yuri Takaya-Umehara, Kobe University, Japan

IAC-15.E7.2.8
EXTENDING THE INTERNATIONAL LAW PRINCIPLE OF GOOD NEIGHBORLISS TO OUTER SPACE FADAHUNSI-BANJO MOTOLANI DEBORAH
MOTOLANI FADAHUNSI-BANJO, National Space Research and Development Agency (NASRDA), Nigeria

IAC-15.E7.2.9
ENVIRONMENTAL PROTECTION AS A LIMITATION TO THE USE OF FORCE IN OUTER SPACE
Peter Stubbe, German Aerospace Center (DLR), Germany

IAC-15.E7.2.10
HUMANITARIAN LAW IMPLEMENTED: SPACE COMMUNICATION IN THE SERVICE OF INTERNATIONAL HUMANITARIAN LAW
Mahlena Hofmann, University of Luxembourg, Luxembourg

IAC-15.E7.2.11
A LINE TO BE CROSSED: HARMFUL INTERFERENCE AS A BREACH OF SPACE AND GENERAL INTERNATIONAL LAW
Ksenia Shestakova, Russian Federation

IAC-15.E7.2.12
THE APPLICABILITY OF THE RIGHT TO SELF-DEFENCE TO THE AREA OF EXPLORATION AND EXPLOITATION OF OUTER SPACE
Olga Volynskaya, Federal Space Agency (ROSCOSMOS), Russian Federation

IAC-15.E7.2.13
CYBERSECURITY IN THE SPACE AGE
Michael Potter, International Institute of Space Commerce, United States

E7.3. The portrayal of Space (Law) in Media and Movies

October 14 2015, 09:45 — Dulzin Big A

Co-Chair(s): Melissa K. Force, MK Force Consulting, United States; Steven Mirmina, Georgetown University Law Center, United States;
Rapporteur(s): Michael Chatzipanagiotis, Greece;

IAC-15.E7.3.1
SPACE LAW AND THE MEDIA: SCIENCE FICTION MOVIES ON THE MOON
Rafael Moro Aguilar, Orbspace Engineering, Spain

IAC-15.E7.3.2
WHERE LAW MEETS CINEMA: JAMES CAMERON'S AVATAR AS FOOD FOR THOUGHT ABOUT THE ANTHROPOCENTRIC NATURE OF SPACE LAW
George Kyriakopoulos, National and Kapodistrian University Of Athens, Greece

IAC-15.E7.3.3 (withdrawn)
SAVING THE EARTH FROM A DEEP IMPACT: STATE RESPONSIBILITY AND LIABILITY FOR DAMAGES CAUSED IN PLANETARY DEFENSE
Jinyuan SU, Xi'an Jiaotong University School of Law, China

IAC-15.E7.3.4
THE HARD OR SOFT LAW OF "GRAVITY"
Larry Martinez, International Institute of Space Law (IISL), United States

IAC-15.E7.3.5
BUGS BUNNY AND PUFFY DUCK VS. MARVIN THE MARTIAN - A PERSPECTIVE FROM (EARTHLY) INTERNATIONAL SPACE LAW -
Annette Froehlich, European Space Policy Institute (ESPI), Austria

IAC-15.E7.3.6 (withdrawn)
SPACE ACTIVITIES AND THE MEDIA: FROM SCIENCE FICTION TO SCIENTIFIC REALITY?
Sylvia Ospina, S. Ospina & Associates - Consultants, United States

IAC-15.E7.3.7
THE MEANING OF LIFE AND CLOSE ENCOUNTERS OF THE COMMERCIAL KIND
George Anthony Long, United States

IAC-15.E7.3.8
THE ISSUES OF THE PROTECTION OF THE SPACE ENVIRONMENT IN MOVIES
Camilo Guzman Gomez, UNIVERSIDAD SERGIO ARBOLEDA, Colombia

IAC-15.E7.3.9
AVATAR FILM: PERSPECTIVES FROM SPACE LAW
Alvaro Fabricio Dos Santos, Advocacy General of the Union - AGU, Brazil

IAC-15.E7.3.10 (withdrawn)
REIMAGINING ICARUS: ASSESSING RISK, VALUE AND UNCERTAINTY IN SPACE THROUGH FICTION AND FILM
Sara Langston, Unit for the History and Philosophy of Science, University of Sydney, United States

E7.4. Legal Issues of Space Traffic Management

October 14 2015, 14:45 — Dulzin Big A

Co-Chair(s): Olga Volynskaya, Federal Space Agency (ROSCOSMOS), Russian Federation; Jana Robinson, Czech Republic;
Rapporteur(s): Deepika Jeyakodi, Leiden University, The Netherlands;

IAC-15.E7.4.1
UPDATE ON THE SECOND IAA STUDY ON SPACE TRAFFIC MANAGEMENT
Jana Robinson, The Prague Security Studies Institute, Czech Republic

IAC-15.E7.4.2
SPACE TRAFFIC MANAGEMENT: A CHALLENGE OF COSMIC PROPORTIONS?
Frans von der Dunk, University of Nebraska-Lincoln, The Netherlands

IAC-15.E7.4.3
SPACE TRAFFIC MANAGEMENT REGIME NEEDS AND ORGANIZATIONAL OPTIONS
James Rendleman, United States

IAC-15.E7.4.4
SPACE TRAFFIC MANAGEMENT AND THE UNITED STATES DATA SHARING ENVIRONMENT
PJ Blount, LL.M. in Air and Space Law, United States

IAC-15.E7.4.5
THE CURRENT PRACTICE OF THE EUROPEAN SPACE AGENCY IN REGISTERING ITS SPACE OBJECTS LAUNCHED INTO EARTH ORBIT OR BEYOND
Alexander Soucek, ESA/ESRIN, Italy

IAC-15.E7.4.6
LOOKING INTO THE FUTURE: THE CASE FOR AN INTEGRATED AEROSPACE TRAFFIC MANAGEMENT
Michail Chatzipanagiotis, Greece

IAC-15.E7.4.7 (withdrawn)
THE CASCADE EFFECT: SPACE DEBRIS' IN-ORBIT COLLISIONS AND INTERNATIONAL LIABILITY
OLAVO DE OLIVEIRA BITTENCOURT NETO, Catholic University of Santos, Brazil

IAC-15.E7.4.8 (withdrawn)
THE CIVILIAN AND MILITARY COOPERATION IN THE REGULATION OF AIRSPACE: A MODEL FOR NATIONAL SPACE LAW
Phetole Sekhula, SACSAs, South Africa

IAC-15.E7.4.9
AN ECONOMIC ANALYSIS OF THE LEGAL LIABILITIES OF GNSS
Hatsuru Morita, Tohoku University, Japan

IAC-15.E7.4.10
THE IMPACT ON GROWTH MARKETS IN THE DOWNSTREAM SECTOR: THE PARAMETERS FOR CONNECTIVITY AND SERVICES IN OUTER SPACE LAW
Lesley Jane Smith, Leuphana University of Lüneburg/Weber-Steinhaus & Smith, Germany

IAC-15.E7.4.11
LEGAL REGULATION OF RADIO-FREQUENCY SPECTRUM
Elena Morozova, INTERSPUTNIK International Organization of Space Communications, Russian Federation

IAC-15.E7.4.12
THE LIABILITY OF A CIVIL GNSS OPERATOR UNDER THE DOMESTIC LAW: CASE STUDIES
Makiko Shimizu, Tohoku University, Japan

IAC-15.E7.4.13
APPLICATION OF THE FRENCH SPACE OPERATION ACT FOR THE ARIANE 5 ES GALILEO MISSION AND OPERATIONS
Nicolas Verstappen, France

E7.5. Recent Developments in Space Law

October 16 2015, 09:45 — Dulzin Big A

Co-Chair(s): Martha Mejia-Kaiser, Independent Researcher, Germany; K R Sridhara Murthi, NIAS, Bangalore;
Rapporteur(s): Andreas Loukakos, University of Luxembourg, Luxembourg;

IAC-15.E7.5.1
THE CONTROVERSIAL RULES OF INTERNATIONAL LAW GOVERNING NATURAL RESOURCES OF THE MOON AND OTHER CELESTIAL BODIES
Maureen Williams, Chair, ILA Space Law Committee, UK & UBA, Conicet, Buenos Aires, Argentina

IAC-15.E7.5.2
HOW SIMPLE TERMS MISLEAD US: THE PITFALLS OF THINKING ABOUT OUTER SPACE AS A COMMONS
Henry Hertzfeld, Space Policy Institute, George Washington University, United States

IAC-15.E7.5.3 (withdrawn)
GOING ROGUE OR TAKING THE LEAD: THE BIGELOW LETTER AND ITS IMPLICATIONS ON U.S. SPACE POLICY AND INTERNATIONAL LAW
John Duggan, United States

IAC-15.E7.5.4
WHO OWNS THE NATURAL RESOURCES ON THE ASTEROIDS
Guoyu Wang, China

IAC-15.E7.5.5
HYPOTHETICAL "EXPLORATION AND USE OF OUTER SPACE ACT OF 2015"
Dennis Burnett, National Security and Export Compliance Consulting, United States

IAC-15.E7.5.6
LEGAL IMPLICATIONS ON AUTONOMOUS ORBIT SATELLITE SERVICING, ACTIVE DEBRIS REMOVAL AND ASTEROID RETRIEVAL MISSIONS
Ana Cristina van Oijhuizen Galhego Rosa, Brazilian Association of Air and Space Law, The Netherlands

IAC-15.E7.5.7
FALLEN PROMETHEUS--DID HE MAKE A SOUND? A REVIEW OF US LEGAL & REGULATORY RESPONSE (OR LACK THEREOF) TO THE VIRGIN GALACTIC ACCIDENT.
Maria-Vittoria "Giugi" Carminati, International Institute of Space Law (IISL), United States

IAC-15.E7.5.8
NATIONAL SPACE LEGISLATION FOR DEVELOPING COUNTRIES – LESSONS FROM EUROPE
KUMAR ABHIJEET, Institute of Air and Space Law, University of Cologne, Germany

IAC-15.E7.5.9

SPAIN: TOWARDS A NATIONAL SPACE LEGISLATION AND A SPANISH SPACE AGENCY?

Maria-del-Carmen Muñoz-Rodríguez, University of Jaen, Spain

IAC-15.E7.5.10

THE LATEST SPACE BASIC PLAN IN JAPAN –ITS FEATURES AND IMPLICATION

Yasuaki Hashimoto, The National Institute for Defense Studies, Japan

IAC-15.E7.5.11

SMALL BUT ON THE RADAR- THE REGULATORY EVOLUTION OF SMALL SATELLITES IN THE NETHERLANDS

Neta Palkovitz, ISIS- Innovative Solutions In Space B.V., The Netherlands

IAC-15.E7.5.12

LEGAL ISSUES IN CHINA'S FUTURE PARTICIPATION IN THE SPACE PROTOCOL TO THE CAPE TOWN CONVENTION

Yun Zhao, The University of Hong Kong, Hong Kong

IAC-15.E7.5.13

EUROPEAN EARTH OBSERVATION DATA POLICY – MEETING VARIOUS GOALS BY MULTIPLE AND DIVERSE ACTORS: A HERCULEAN TASK?

Irmgard Marboe, University of Vienna, Austria

IAC-15.E7.5.14

INTERNATIONAL LEGAL ISSUES ON CONSTRUCTION AND OPERATION OF SPACE SOLAR POWER STATION

Shouping Li, Beijing Institute of Technology, China

IAC-15.E7.5.15

EARTH IN DANGER AND SPACE LAW

José Monserrat-Filho, Brazilian Space Agency (AEB), Brazil

E7.7-B3.8. Joint IAF/IISL Session on the Legal Framework for Cooperative Space Activities

October 16 2015, 13:30 — Ballroom A

Co-Chair(s): Bernhard Schmidt-Tedd, Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR), Germany; Cristian Bank, EADS Astrium Space Transportation GmbH, Germany;

Rapporteur(s): Olga S. Stelmakh, Parliament of Ukraine / DRSB Group Int., Ukraine;

IAC-15.E7.7-B3.8.1

IDENTIFYING COMMON LEGAL ISSUES IN INTERNATIONAL COOPERATIVE MECHANISMS

Setsuko Aoki, Keio University, Japan

IAC-15.E7.7-B3.8.2 (withdrawn)

SUSTAINABILITY OF COOPERATION IN OUTER SPACE ACTIVITIES THROUGH ENDURING LEGAL FRAMEWORK

V. Gopala Krishnan, Indian Space Research Organization (ISRO), India

IAC-15.E7.7-B3.8.3

“INTERNATIONAL COOPERATION MECHANISMS USED BY THE UNITED STATES IN THE PEACEFUL EXPLORATION AND USE OF OUTER SPACE”

Sumara Thompson-King, National Aeronautics and Space Administration (NASA), United States

IAC-15.E7.7-B3.8.4

CHINA'S EXPORT CONTROL RULES AS APPLIED TO COOPERATIVE SPACE ACTIVITIES

Eytan Tepper, CHINA UNIVERSITY OF POLITICAL SCIENCE AND LAW, China

IAC-15.E7.7-B3.8.5

IMPACT OF INTERNATIONAL CODE OF CONDUCT FOR OUTER SPACE ACTIVITIES AND EU CONTRIBUTION TO COLLABORATIVE PROJECTS - DEVISING A NEW APPROACH FOR SPACE LAW IN EUROPE

Anita Rinner, Austria

IAC-15.E7.7-B3.8.6

GLOBAL SPACE GOVERNANCE FOR ENSURING RESPONSIBLE USE OF OUTER SPACE, ITS SUSTAINABILITY AND ENVIRONMENTAL SECURITY: LEGAL PERSPECTIVE

Olga S. Stelmakh, Parliament of Ukraine / DRSB Group Int., Ukraine

IAC-15.E7.7-B3.8.7 (withdrawn)

LEGAL ASPECTS OF COMMERCIAL SPACE ACTIVITIES PROVIDED BY AEROSPACE LAUNCH SYSTEMS IN MULTIJURISDICTIONAL CONTEXT

Ntorina ANTONI, Swiss Space Systems (S3), Switzerland

IAC-15.E7.7-B3.8.8 (withdrawn)

THE DEVELOPMENT OF SPACE TECHNOLOGY AND INTERNATIONAL COOPERATION IN RELATION TO THE EXPLORATION OF THE MOON.

CASE STUDY: ARGENTINA AND CHINA

Luis Fernando Castillo Argañarás, National Council of Scientific and Technical Research (CONICET) of Argentina and Universidad Argentina de la Empresa (UADE), Argentina

IAC-15.E7.7-B3.8.9 (withdrawn)

USE OF MULTILATERAL AGREEMENT TO DEVELOP SPACE RESOURCE RIGHTS REGIME

Sagi Kfir, Deep Space Industries Inc., United States

IAC-15.E7.7-B3.8.10 (withdrawn)

INTERNATIONAL MECHANISMS FOR COOPERATION IN THE PEACEFUL EXPLORATION AND USE OF OUTER SPACE

Amber Charlesworth, U.S. Department of State, United States

E7.IP. Interactive Presentations

October 14 2015, 13:15 — Plasma Screens Area

Coordinator(s): Lesley Jane Smith, Leuphana University of Lüneburg/Weber-Steinhaus & Smith, Germany; Mahulena Hofmann, University of Luxembourg, Luxembourg;

IAC-15.E7.IP.1

RECENT DEVELOPMENTS IN OUTER SPACE AND THE MOON AGREEMENT: PROMOTING A SAFER ENVIRONMENT FOR BOTH PRIVATE AND PUBLIC EXPLOITATION OF NATURAL OUTER SPACE RESOURCES

Juliana Scavuzzi, Brazilian Association of Air and Space Law, Canada

IAC-15.E7.IP.2 (withdrawn)

THE ENVIRONMENTAL ASPECTS OF SPACE MINING FROM A LEGAL PERSPECTIVE

Rada Popova, Institute of Air and Space Law, University of Cologne, Germany

IAC-15.E7.IP.3 (withdrawn)

EXTRATERRESTRIAL LAW AND ORDER

Albert Medina, Berkshire Hathaway HomeServices Florida Realty, United States

IAC-15.E7.IP.4

CHINA'S SPACE STATION PROJECT AND INTERNATIONAL COOPERATION: FEASIBILITY AND LEGAL ASPECTS

Jie Long, The University of Hong Kong, Hong Kong

IAC-15.E7.IP.5

ASSISTANCE BY THE LAUNCHING AUTHORITY - REQUIREMENT OR ENTITLEMENT?

Hannes Mayer, Karl Franzens Universität Graz, Austria

IAC-15.E7.IP.6

POLICY CONSIDERATIONS FOR NEW HUMAN SPACE EXPLORATION STRATEGIES: THE SPACE GENERATION PERSPECTIVE

Chantelle Dubois, Space Generation Advisory Council (SGAC), Canada

IAC-15.E7.IP.7 (withdrawn)

THE INTERPRETATION OF THE OUTER SPACE TREATY AND THE ACTIVITIES OF PRIVATE COMPANIES IN OUTER SPACE

Sarah Moens, Ghent University, Belgium

IAC-15.E7.IP.8

EU REGULATORY FRAMEWORK ON EARTH OBSERVATION – ARE WE THERE YET?

Konstantina Liperi, Cyprus

IAC-15.E7.IP.9

MINING OUTER SPACE: OVERCOMING LEGAL BARRIERS TO A WELL-PROMISING FUTURE

Maria Manoli, Canada

IAC-15.E7.IP.10 (withdrawn)

NON-PHYSICAL DISRUPTION OF SATELLITES OR ITS FUNCTIONS: A THREAT TO SOVEREIGNTY AND TERRITORIAL INTEGRITY OF A STATE.

Bayar Goswami, India

IAC-15.E7.IP.11

INSURING COMMERCIAL SPACEFLIGHT: CONFRONTING CHALLENGES AND CHARTING THE SCHEME

Zhuoyan Lu, University of Lapland, Finland

IAC-15.E7.IP.12

“HARMFUL INTERFERENCE” IN OUTER SPACE UNDER IHL.

Yu Fu, CHINA UNIVERSITY OF POLITICAL SCIENCE AND LAW, China

IAC-15.E7.IP.13 (withdrawn)

SPACE ODDITY: AN ANALYSIS OF MAJOR TOM'S ODYSSEY IN OUTER SPACE, AND THE IMPLICATIONS OF THE DISAPPEARANCE OF ASTRONAUTS IN OUTER SPACE.

Juan Pablo Vargas Pallini, Colombia

IAC-15.E7.IP.14 (withdrawn)

ARE OPERATORS PROTECTED FROM UNAUTHORISED CYBER ACTIVITIES UNDER THE EXISTING SPACE LAW?

Iulia-Diana Galeriu, Romania

IAC-15.E7.IP.15

GNSS AND HARMFUL INTERFERENCE: RESPONSIBILITY AND LIABILITY UNDER INTERNATIONAL SPACE LAW

Radhika Yadav, National Law School of India University, India

IAC-15.E7.IP.16

SPACE LAW PRINCIPLES IN ACTION. CASE STUDY OF HUMAN EXPLORATION IN OUTER SPACE IN MASS EFFECT, THE TRILOGY OF ROLE-PLAYING VIDEO GAMES

Kamil Dobrowolski, Jagiellonian University, Poland

IAC-15.E7.IP.18

COMPETITION LAW AND ITS RELEVANCE TO THE SUCCESS OF COMMERCIAL SPACE EXPLOITATION

Benjamyn Scott, International Institute of Air and Space Law, Leiden University, United Kingdom

IAC-15.E7.IP.19

THE INTERACTION OF THE LAW OF ARMED CONFLICT WITH OUTER SPACE

Shripad Jagdale, Space Generation Advisory Council (SGAC), India

IAC-15.E7.IP.20

BEYOND LIABILITY CONVENTION AND REGISTRATION AGREEMENT. HOW TO REGULATE SPACE ACTIVITIES OF NON-MEMBER STATES.

Ping-Yu Lin, The Netherlands

IAC-15.E7.IP.21

3D PRINTING IN SPACE LEGAL IMPLICATIONS

Deepika Jeyakodi, Leiden University, The Netherlands

IAC-15.E7.IP.22

SOFT LAW IN OUTER SPACE:MECHANISM AND RECENT PRACTICE

Jingjing Nie, China

IAC-15.E7.IP.23

TOWARD A NEW NORM OF INTERNATIONAL LAW: SATELLITE IMAGERY AND ITS INFLUENCE ON THE EVOLUTION OF THE RESPONSIBILITY TO PROTECT DOCTRINE

Jillianne Pierce, Space Foundation, United States

IAC-15.E7.IP.24

INTERNATIONAL CODE OF CONDUCT FOR OUTER SPACE ACTIVITIES: ANALYSIS FROM AN INSTITUTIONAL PERSPECTIVE

Anastasia Voronina, University of Nebraska, College of Law, United States

IAC-15.E7.IP.25

INTERNET FROM THE SKY: LEGAL CHALLENGES

Dimitrios Stratigentas, The Netherlands

6 Students and Young Professionals Events

6.1 Young Professionals events

All young professionals, please join us at these events included in your registration.

6.1.1 2015 IPMC Young Professionals Workshop

Date: Sunday 11 October 2015

Time: 09:00 - 18:00

Venue: Oranim 3-B, ICC



In connection with the IAC, the IAF's International Project Management Committee (IPMC), the Young Professionals Programme organizes an annual workshop for young professionals in the international space community to discuss topics of mutual interest with a view toward nurturing and empowering the next-generation workforce.

The **delegates** for this workshop are Young professionals who are typically defined as being age 35 and under and having at least one to two years of work experience in the aerospace field. They will be asked to take part in virtual collaborative sessions with other participants to discuss one of the workshop topics as well as to be physically present at the day of the workshop and attend the IAC. A diversity of backgrounds (e.g., engineering, management, science, policy, etc.) is encouraged in order to produce thoughtful and well-rounded observations and recommendations that will be incorporated into a report for the IPMC and IAF Member Organisations.

The **topics** for the this year's workshop have been generated by the Workshop Organising Committee in coordination with the IPMC and focus on the theme "Career Development Factors for Young Professionals." The topics to be discussed by the YP in the 2015 workshop are:

Topic 1: Young Professionals Mentoring Program Business Plan

Topic 2: Aerospace Sector Decision Factors for Young Professionals

Topic 3: Rapid engagement and accelerated learning for Young Professionals

A report summarizing the discussions and conclusions of the 2015 workshop participants will be prepared and distributed to interested IAF member organizations. Reports from previous IPMC Young Professionals workshop are available on the IAF website.

This workshop is sponsored by JAXA and Boeing.



6.1.2 2015 Young Professionals Programme

Sunday, 11 October

19:00 - 21:00 **Welcome Reception**
– Room Teddy A, ICC

Speakers include:

- IAF President, Kiyoshi Higuchi
- Director General ISA, Menachem Kidron, *(invited)*
- Chair Israeli Astronomical Association, Dr. Ygal Pat-El *(invited)*

Cocktails and light appetizers will be served.

Tuesday, 13 October

13:30 - 14:30 **Next Generation Plenary: International Space Station as the Gateway for Humankind's Future in Space and on Earth**
– Ussishkin Auditorium, ICC

19:00 - 21:00 **25 Years of Discovery and Inspiration from The Hubble Space Telescope**
– Room Teddy A, ICC

Speakers include:

- Charlie Bolden, NASA Administrator and Astronaut
- Dava Newman, NASA Deputy Administrator
- Carol Christian, Space Telescope Science Institute Hubble Outreach Project Scientist
- James Crocker, Vice President and General Manager, Civil Space, Lockheed Martin

Cocktails and light appetizers will be served.

Wednesday, 14 October

14:45 **E1.5. Enabling the Future - Developing the Space Workforce**
– Room Oranim 3-B, ICC

19:00 - 21:00 **Workforce Development- Young Professional Programme Committee, International Space University, and Space Generation Advisory Council Networking Event**
– Room Teddy A, ICC

Meet the three organizations and network with peers from around the world.

Cocktails and light appetizers will be served.

Thursday, 15 October

10:00 - 11:00 **Q&A with Dr. Jacob Cohen, Chief Scientist, NASA Ames Research Center**
– Global Networking Forum, Location: Small Dulzin, ICC

Title: NASA Ames and Future of Space Exploration, Science, and Aeronautics

6.1.3 Global Professionals Virtual Forums

Venue: All in room Karem Carnit, Crowne Plaza Hotel

V2-B3.9 Human Spaceflight: Wednesday

Date and Time: Wednesday, 14th October at 14:45

V3-B2.8 Space Communications and Navigation (SCAN)

Date and Time: Thursday, 15th October at 14:45

V4-E2.3 Student Team Competition

Date and Time: Tuesday, 13th October at 14:45

V5-A6.10 Space Debris

Date and Time: Monday, 12th October at 15:15



6.1.4 Additional YP events

- **GNF Event: SGAC: How to launch a career in space?**

Wednesday 14 October, 14:30 – 15:30, Small Dulzin Room, ICC



6.2 Students events

6.2.1 International Student competition – E.2 Symposium – Student Conference

Coordinators:

Stephen Brock and Marco Schmidt

The IAC E2 Symposium, the “Student Conference,” presents technical papers from various disciplines. Additionally, all authors present their work in the frame of an international student competition. All presentations are scientific contributions from students, undergraduate and graduate. Their papers may be on any project in space sciences, industry, or technology.

The Student Conference sessions E2.1 and E2.2 are reserved for students presenting papers of no more than two student authors (single student competition). The Student Team Competition, E2.3, addresses team projects. The project teams may be of any size, but the paper must represent the student work and be authored by three or more students at the undergraduate or graduate level.

All students presenting papers in the E2.1 and E2.2 sessions compete in the student competition for gold and silver medals. Graduate and undergraduate students will be considered separately. Additionally, a best paper prize is awarded for an outstanding technical paper. The best technical paper is selected from all entries. Students presenting in session E2.3 compete for the Hans von Muldau Team Award.

The winners of the student competition receive the prizes during the closing ceremony at the end of the IAF congress.

6.2.2 International Space Education Board (ISEB) Student Programme

Dear Students,

I extend you a most sincere welcome to the 66th International Astronautical Congress (IAC) in Jerusalem, Israel. The International Space Education Board (ISEB) has carefully constructed a unique programme where you will have the opportunity to meet and learn from the world's leading experts in space development, senior managers, distinguished specialists, young professionals and peers from around the world.

Education plays a vital role in our society's growth and development. In particular, education in science and engineering equips future citizens with the skills and competences, which today's society needs in order to remain competitive and innovative. The successes for the next 50 years are dependent on our collective capacity, and that of the space industry, to recruit new, motivated, talented, and well prepared professionals. We are therefore fully committed to inspire, educate, attract, and support you - the next generation of space scientists and engineers.

In a group effort, the ISEB members work together to develop a global educational and outreach programme related to space. Through the implementation of joint initiatives, we aim at increasing students' science, technology, engineering, and maths achievements, helping the scientific and technical workforce of the future become stronger. This year, the ISEB is sponsoring more than 30 outstanding students to attend the Congress. During your time at the IAC, I strongly encourage you not only to visit but also extensively utilize the International Student Zone (ISZ). Throughout the week, the ISZ will house the majority of the students' activities and will provide you access to a plethora of unique resources for your professional and personal growth.

The activities of this week are dedicated to helping you to connect, network and build privileged relationships within the space community. Please take this extraordinary opportunity to push boundaries, expand your vision, explore your potential, and make new contacts and friends. I am convinced that the bonds built here will help you develop future robust and durable collaborations.

On behalf of the ISEB, together with the International Astronautical Federation (IAF) and the IAC Local Organizing Committee assisting us to bring a quality program to this year's participants, I wish each of you a fruitful conference and a memorable experience in Jerusalem.

Sincerely,

Hugo Marée
Head of the Education and Knowledge Management Office
European Space Agency
Chair, International Space Education Board



International Space Education Board (ISEB) Student Programme

Sunday, 11 October: SEOC Professional Development Workshop – ICC, Room 312

08:15		Registration	
08:30	VSSEC staff + ISEB students (Michiel Zittersteijn and Christoph Montag, ESA)	Overview of day and brief intro to teaching pedagogy	In this session Ian Christie will give participants an intro to the nine classroom techniques for which there is real evidence that student outcomes are improved by teachers who use these techniques.
09:00 am		Workshop A: More than Rocket Science	Investigates the effective use of outreach programs in primary schools to deliver science lessons to students in years 5 & 6 simultaneously with teacher professional learning. Two activities: Radiation in Space & The States of Matter. Resources from VSSEC, ESA, NASA TBD

10:55		Morning Tea	
11:05	VSSEC staff + ISEB students (Michiel Zittersteijn and Christoph Montag, ESA)	Workshop B: Robotic Mission to Mars	An Online Scenario Based Educational Program for years 9 & 10 using the VSSEC Mars Rover. (The teachers can drive the Rover on the VSSEC Mars yard from Jerusalem. They have roles as engineers or scientists.) Resources from VSSEC, ESA, NASA TBD
13:00		Lunch	
14:00	ISEB students go to Meet & Greet	An introduction to the Space Generation Advisory Council	A short presentation and discussion with a representative of the SGAC covering their relevance to final year high school students and activities of the SGAC which may be of interest to teachers in general.
14:20	VSSEC staff	Afternoon Session: The use of interactive platforms in the classroom	One speaker from the Israeli Space Agency (ISA) will give a workshop on the use of interactive platforms in the classroom - computer games, apps, virtual reality etc. The idea is to use tools the kids perceive as fun and leisure-related activities in the service of space education.
15:40		Final Session	This session will be a discussion by the teachers
16:00		Finish	

Sunday, 11 October: Orientation Day – ICC, Room Teddy C

14:30 – 15:15	Student Orientation with ISEB HoEs (All ISEB Partners)
14:30 – 14:35	<i>Welcome by ISEB Chair (ESA)</i>
14:35 – 15:05	<i>ISEB HoEs Remarks (All ISEB Partners)</i> <i>During this session the ISEB Heads of Education (HoE) will be asked to address the students in preparation for the week ahead. JAXA will prepare the remarks which will be coordinated amongst the HoEs.</i>
15:05 – 15:15	<i>Time for Questions</i>
15:15 – 17:45	Cross-Cultural Awareness and Communication in an International Forum (ICC, room Teddy C) Lead by Carol Carnett and Scott Madry Presentation on culture, the IAC culture, and strategies for communication and networking
17:45 – 19:00	Icebreaker and Reception (ICC, room Teddy C)

Monday, 12 October: Commencement Day – ICC, ISZ

09:00 – 11:00	IAC Opening Ceremony
11:00 – 12:00	Opening Exhibition
13:30 – 15:00	Plenary 1: Heads of Agencies
16:00 – 17:30	Heads of ISEB Agencies Q&A Session at the International Student Zone [Open to All Students] at ISZ
18:15 – 19:30	Plenary 2: Remote Superspectral and Hyperspectral Sensing from Space
19:30 – 22:00	IAC Welcome Reception

Tuesday, 13 October: ICC, ISZ

- 08:30 – 09:30 **Plenary 3:** Space Transportation Capabilities and Future Directions
- 09:45 – 12:45 Technical Sessions
- 12:30 – 13:30 **Lunchtime Session** [Open to All Students] at ISZ
Coordinated Activity Between Agencies (AEM, ESA, JAXA, VSSEC)
- 13:30 – 14:30 **Plenary 4:** Next Generation Plenary
- 14:45 – 17:45 Technical Sessions
- 17:45– 18:45 **Highlight Lecture 1:** The International Rosetta Mission

Wednesday, 14 October: ICC, ISZ

- 08:30 – 09:30 **Plenary 5:** Small Satellites
- 09:45 – 12:45 Technical Sessions
- 12:30 – 13:30 **Lunchtime Session: Panel on Space Exploration** [Open to All Students] at ISZ
Coordinated Activity Between Agencies
- 13:30 – 14:30 **JAXA Student Presentations** at ISZ
- 14:45 – 17:45 Technical Sessions
- 17:45– 18:45 **Highlight Lecture 2:** Sustaining the Space Environment

Thursday, 15 October: ICC, ISZ

- 08:30 – 09:30 **Plenary 6:** Fifty Years of Spacewalking
- 09:45 – 12:45 Technical Sessions
- 12:30 – 13:30 **Lunchtime Session** [Open to All Students] at ISZ
Coordinated Activity Between Agencies (KARI, NASA, SANSA)
- 13:30 – 14:30 **Plenary 7:** The Moon – a continent and a gateway for our future
- 14:45 – 17:45 Technical Sessions
- 17:00 – 17:45 **Outreach Activity Training session** [mandatory for all ISEB Students] at ISZ
- 17:45 – 18:45 **Highlight Lecture 3:** Orion's exploration Flight Test-1

Friday, 16 October: ISEB Outreach Day – ICC, ISZ

- 9:30 – 12:00 Outreach Activity – 40 Local Students [mandatory for all ISEB students]
- 09:45 – 12:45 Technical Sessions
- 13:30 – 16:30 Technical Sessions
- 16:30 – 17:30 **Closing Ceremony**



6.2.3 IAF-SUAC International Student Workshop

18 October 2015 - Israel Institute of Technology- Technion, Asher Institute

This workshop is organized in cooperation with the Technion, Asher Institute, the International Astronautical Federation and the Israel Space Agency – Space Universities Administrative Committee (IAF-SUAC) in conjunction with the International Astronautical Congress (IAC) 12-16 October 2015 in International Convention Center (ICC), Jerusalem, Israel.

10 students will present their research in front of peers and senior space experts on the following topics:

- Spacecraft Formation Flying
- Astrodynamics
- International cooperation
- Small satellites
- Distributed Space Missions for Earth System Monitoring

The best presentation will be awarded a prize.

The workshop is sponsored by Technion – Asher Institute, International Astronautical Federation and Israel Space Agency.



If you wish to attend the workshop, please contact Emma Huis, emma.huis@iafastro.org.

6.3. IAF Grant and Recognition programmes for students and YP

6.3.1 Young Space Leaders Recognition Programme

These awards are issued to students and young professionals who are in the course of their academic or professional activities, and have helped promote astronautics by enhancing outreach opportunities, expanding knowledge of space among the general public or fostering deeper engagement within the international space community. The six winners will be awarded their prizes during the Closing Ceremony of the 66th IAC on 16 October. They will also be invited to the gala dinner as guests of honor of the IAF President, Mr. Kiyoshi Higuchi.



Christopher Vasko

Even before considering to embark on the road that ultimately led to working on a PhD in applied physics, I was a big space enthusiast – from the works of literature to scientific documentaries, space exerted a strong fascination. Born into a large family with many languages, I was soon able to read the classics in their original language and naturally choose for more science classes in high school. The realisation that space fascinates everybody regardless of age, cultural or educational background came slowly working in volunteer associations, organizing public outreach events on astronomy and physics. Towards the end of my master course in physics I had the chance to work in a small SME on an ion engine, preparing to graduate from university, giving me an appreciation of just how hard it is to do anything in space. Space requires a high level of cooperation – not just between engineers and researchers, but involving many areas beyond and in between. I thus volunteered as intern for the European Space Policy Institute and for the Space Generation Advisory Council. I believe that all engineers and scientists should explore similar experiences – public communication and interdisciplinary cooperation are key for many aspects of space. The IAF has played a key role in giving me the opportunity to expand my own international network. This is facilitated by the work of several IAF committees focussed on working with the next generation of STEM YPs. I decided to join SEOC and the WD-YPP committees of the IAF to allow others to make the same experiences. I am very grateful for the mentoring I received over the years, especially as Next Generation Panellist in Toronto.



Ryan L. Kobrick

My name is Dr. Ryan L. Kobrick and I have the 'space bug'. As I have explored our planet, all of my efforts have been to catalyze space technology development, with a personal passion for human spaceflight. During the day, I am the Project Manager for Research and Development at Space Florida managing competitions, grants, and educational programs. During the night, I am the Chairman and President of Yuri's Night, the World Space Party, helping connect people across the globe April 12th to celebrate and honour the past, present, and future of human spaceflight. My path from a chronic academic (Bachelors, two Master's, PhD focused on Bioastronautics and lunar dust, and Postdoc) into the commercial space industry has taken me to "Mars" in Utah four times, to the High Canadian Arctic for a four-month Mars simulation, to eight IAC events around the world, and allowed me to help fly payloads to the International Space Station. Being a Canadian-American dual citizen has opened opportunities in both of my countries and given me a unique perspective on international cooperation. As an engineer who believes that the universal language is mathematics, I know that our future will involve more 'cross-ocean' partnerships as we sail towards the stars for all of humanity out of necessity to evolve. Or as my SEDS friends would say, "Space or Die". I am proud to serve on the IAF Workforce Development/Young Professionals Program Committee (since 2010) and the IAF Space Education and Outreach Committee (inducted 2015), to help keep our successor 'Next Gen' members prepared. I have been in two Young Professionals Plenaries (2009 Moderator, 2010 Panelist) and had thirteen IAC papers with another on the way. Each experience has strengthened my international connections and taught me more about our diverse cultures, which is what brings us together.



Liz Seward

I currently work for Airbus Defence and Space in the Business Development team of the Earth Observation, Navigation and Science department, as Head of the Marketing and Communications team. It is a transnational role, with responsibilities and team members in France, Germany and the UK. I started my career as a thermal engineer, working on the meteorological MetOp satellites for EUMETSAT, and creating a thermal model of Mercury when the design of the ESA BepiColombo mission included a lander. After two years I transferred to the future programmes team as a mission systems engineer where I worked on the early design of the ExoMars rover. After a short placement with the BBC, I moved into the area of marketing and communications for my division of Earth Observation, Navigation & Science. As a graduate I became a STEM ambassador, and then took over the site coordinator role for all STEM activities for several years. As a qualified Mars rover driver I have been to outreach and publicity events with our 1st rover prototype Bridget to promote the UK space industry to the general public. One aspect of my marketing role for Airbus Defence and Space is to raise enthusiasm for science and Earth observation space programmes amongst emerging nations globally – engaging senior government and industry representatives on a regular basis. So far I have represented Airbus space activities at high level conferences and receptions in Europe, USA, China, Azerbaijan and Kazakhstan. My involvement with the IAF started when I attended an IAC, and the young professionals programme was invaluable at helping me make contacts with other young professionals and provided access to senior members of the space industry. I am now a vice-chair of the Workforce Development and Young Professionals programme and a member of the Entrepreneurship and Investment Committee. Through these positions I hope I can help to build a stronger space industry.



Yu Xiaozhou

Prof. Yu Xiaozhou got his doctor degree in 2006 in Northwestern Polytechnical University (NPU) and then he stayed in NPU as a lecture. In 2009, he became an associate professor. Now he is the vice director of Shaanxi Engineering Laboratory for Microsatellites (SELM), NPU. Prof. Yu Xiaozhou leads a research team that is mainly of students and young professionals to make their own CubeSats. He is the project manager of two CubeSat projects that is a 12U CubeSat 'star of AoXiang' and 2U CubeSat 'Aoxiang-1'. The two CubeSats will be launched in 2016. Prof. Yu Xiaozhou has mentored many undergraduate students and graduate students. He has given lectures and written lots of high quality articles of the CubeSats. He is also the one of the main organizer of A national graduate students Future Flight Vehicle Competition (FFVC). As the only one flight vehicle competition supported by Ministry of Education of the People's Republic of China, there will be thousands of students join the competition. In 2013, he has also held an Aoxiang Cup Competition in Shaanxi province. Over 100 teams have joined the competition. For his work, Prof. Yu Xiaozhou has got a first teaching achievement award of 'He Hongsen' in 2014, a teaching achievement award in Shaanxi Province and four teaching achievement awards in NPU. Also, in 2014, two of his master students got the special prize from Shaanxi Province government for participating the AoXiang-1 CubeSat research. Prof. Yu Xiaozhou plays an important role in the international CubeSats project QB50 that is funded by EU frame7. NPU is Asia coordinator of the project and he is the key person and consortium committee member. Prof. Yu Xiaozhou is the Space University Administrative Committee (SUAC) member of IAF. He helped SELM become the formal member of IAF. In 2015, he invited IAF as the main organizer of FFVC. In 2013, he invited IAF as the main organizer of QB50 Asia Workshop and funded the IAF-IPMC Young Professionals Workshop 2013.



Lulu Makapela

Project and Contract Manager: Council for Scientific and Industrial Research (CSIR)

Lulu Makapela has been professional in the field of aerospace for a period of over 10 years. Currently, Makapela works for the Council for Scientific and Industrial Research (CSIR) as Project and Contract Manager for the Aerospace and Composite Initiatives. With strong background and expertise in areas demanding strong project management, legal, policy and space treaty implementation focus in broader areas, particularly highly complex areas such as telecommunications, aerospace and space, earth observations and science, Ms Makapela has previously worked as Project Manager of the National Earth Observations and Space Secretariat, an initiative of the Department of Science and Technology previously hosted at the CSIR, and Deputy Director of the Advanced Manufacturing Unit of the Department of Trade and Industry. She has also previously worked at the legal, international and Director-General's office of the Department of Communications, as well as at the Scorpion Legal Protection and the National Prosecuting Authority during the beginning of her career. As a young professional in space, Makapela has shown her commitment and dedication to contribute in space science and technology and international cooperation in different ways. In 2013, she was appointed to serve as a Member of the South African Council for Space Affairs (SACSA), a space regulatory body responsible for the regulation of space activities and serves as the Chair of the committee responsible to review the national space legislation. With a passion to attract the Africa youth to consider undertaking space science and legal related careers, she serves as a Member of the International Institute of Space Law (IISL) and is the Africa Regional Co-ordinator for the Manfred Lachs Space Law Moot Court competition which is held annually on the Africa Continent. She is also the Co-Chair of the Africa Leadership youth Forum, which aims to promote space science among African young professionals and students. In 2012, Makapela served as the Member of the organising team for the IAF IPMC organising team, which seek to look at ways to better develop and empower the next generation.



Guillaume Girard

Guillaume Girard has been involved in the space industry for more than 10 years. With 2 masters in space engineering and project management, he started his career as a satellite propulsion engineer for Thales Alenia Space, and then moved internally to the Operations department to prepare and operate the launches and early orbit operation phases of geostationary satellites. Guillaume moved forward to Munich, Germany to operate the International Space Station (ISS) Columbus module from the German Space Operations Center (GSOC). He worked as a spaceflight controller for the past 8 years and supported consecutively the ground segment, the payloads operations and the astronaut planning till March 2015. Guillaume was also instrumental in preparing for and executing the first software transition on board the ISS Columbus module, requiring delicate coordination between the Ground segment and the flight systems. He has published 2 papers at the IAC and at Space OPS after this European premiere to explain the difficulties in synchronizing operation aboard the ISS and the ground segment during such a transition. Certified ISS controller, ESA and NASA affiliate, he has been working under the leadership of INSYEN AG, one of the prime private providers of the Columbus Control center. Recently graduated from his MBA, Guillaume has now moved up to the Business development layer in order to grow INSYEN's operational and systems engineering expertise into innovative space and aeronautic programs. Since 2010, Guillaume has engaged with the IAF aboard the Workforce Development – Young Professional Program committee (WD-YPP), and helped to develop the Young Professional Virtual Forums (YPVF) sessions at the IACs. These technical sessions offer to those young professionals who can't travel to IACs the possibility to present their selected paper or simply attend presentations they would not see if they were not broadcasted online. Proving to be a success, these technical sessions are now part of a dedicated IAC symposium that Guillaume co-chairs. Active member of the IAF, Guillaume also joined in 2012 the Human Spaceflight committee thanks to his achievements in human space operations. Eventually, Guillaume became a partner of Zero2Infinity, a Spanish based company aiming at providing manned travels to near-space and improving commercial space access to nano/micro-satellites.

6.3.2 Emerging Space Leaders Grant Programme

Fourteen students and young professionals were chosen by the Emerging Space Leaders Steering Committee composed of six highly experienced space stakeholders. They will attend the 66th International Astronautical Congress and have the opportunity to extend their network, gain knowledge and meet all the relevant people in space industry.



Hripsime Matevosyan

I am a PhD student in the field of Space Systems Engineering and Systems Architecture in Skolkovo Institute of Science and Technology in the Strategic Innovation Research Group (SIRG) led by professor Alessandro Golkar. My Bachelor's degree is in Informatics and Applied Mathematics from Yerevan State University (YSU) and Master's degree is in Control and Applied Mathematics from Moscow Institute of Physics and Technology (MIPT). I started my professional career as a software developer during my studies in YSU in a mobile development company. After being awarded a scholarship from Institute for System Programming of Russian Academy of Sciences (ISP RAS), I started working in the YSU laboratory for Systems Programming and later was invited to work in ISP RAS in Moscow. As a member of the open source software community, I was attracted to the research at SIRG by the idea of resource sharing in space. My research focuses on Virtual Satellite Missions (VSM): missions constructed by combinations of space assets already orbiting the Earth. VSMs are poised to open the boundaries to broader circles and raise the awareness of the vast applications of space assets. The space sector was always considered a private, closed playground of big players worldwide. The paradigm is shifting. Regardless of any political, religious or other affiliation, humankind is united in its wish to push the boundaries and discover new things. As Carl Sagan said "Somewhere something incredible is waiting to be known", and that is what important.



Kingsley O. Ukaegbu

Kingsley Ogochukwu Ukaegbu was born on 11th September 1990 in Imo State, Nigeria. He studied Environmental Technology at the Federal University of Technology, Owerri, Nigeria. He specializes in the use of Geographic Information System (GIS) and Remote Sensing techniques in Environmental Monitoring and Management, especially in Pollution Control. He had his early formal education in Imo State, Nigeria. He enrolled into Federal University of Technology, Owerri, Nigeria and graduated in October 2014, as one of the best graduating students, from the School of Environmental Science and Technology. He pioneered and facilitated the FUTO Geospatial Club, to educate undergraduates and other stakeholders on the role and benefits of space technology in Nigeria. He is a member of the NEMA-Emergency Management Vanguard and the Nigerian Environmental Society. Mr. Kingsley is currently participating, since May 2015, in the one year National Youth Service Corps (NYSC), a compulsory scheme for graduates in Nigeria. He was intern at National Space Research and Development Agency (NASRDA) Abuja, Nigeria, as part of the rigorous requirements for Bachelor's Degree in the University. During the training, Kingsley excelled in image processing, image interpretation and analysis, geospatial intelligence and among other space applications areas of GIS and Remote Sensing. He has served as a GIS and Remote Sensing freelance and tutorial-teacher in various High Schools and undergraduates in Federal University of Technology, Owerri, Nigeria. He has keen interest in skills development on space technology, encouraging the younger generations to have a role in understanding this technology, which holds the ace for sustainable and future development of our country. Thus, he has started collaborative community development service in space technology applications. Kingsley has also volunteered to contribute and coordinate the space education and outreach programs for local teachers in many High Schools in Akwa Ibom State, Nigeria, where he is currently serving Nigeria as a Corps Member.



Luis Zea

Dr. Luis Zea has been involved as an aerospace engineer in multiple experiments conducted onboard the U.S. Space Shuttle and the International Space Station (ISS). As a researcher, he has focused on using the space environment to find solutions to problems on Earth. For example, from the "Antibiotic Effectiveness in Space (AES-1)" experiment conducted on ISS, he is investigating bacterial resistance to antibiotics, a problem that kills around 100,000 people every year. He is also supporting his alma mater, Universidad del Valle de Guatemala, in the design and development of a satellite for monitoring contamination in the country's lakes. Luis has been granted several awards, including the AIAA Orville and Wilbur Wright Award, CASIS Student Investigator Spaceflight Award, the University of Colorado's Aerospace Graduate Student Service Award, and the DAAD Research Fellowship for Doctoral Candidates and Young Scientists, which funded his work at the German Aerospace Center (DLR) for half a year. Luis has seen first-hand the benefits that space based research and assets can have for people on Earth and therefore is passionate about the democratization of access to space. He is a strong believer that international collaboration on space exploration can be an endeavor that one day unites humanity.



Norah Patten

Dr. Norah Patten is the Communications and Outreach Manager with the Irish Centre for Composites Research (iComp). Norah is Adjunct Faculty at the International Space University and Co-Chair of the Space Humanities Department for the Space Studies Program (SSP) 2015. She is also a Space Generation Advisory Council National Contact Point in Ireland and contributes to the Astronomy Ireland magazine. Norah coordinated 'The Only Way is Up' initiative at iComp in which, through a partnership with Nanoracks, the first experiment designed by Irish secondary school students was sent to the International Space Station in July 2014. She graduated with a 1st class honours degree in Aeronautical Engineering and in 2011 received her PhD from the University of Limerick. She was Emerging Chair of the Space Management and Business Department at SSP12 and Chair in 2013. Norah has interned at the Boeing Company in Seattle, Washington, USA and Bell Labs Alcatel Lucent in Dublin; she has featured on national television and other media including national radio and newspapers; and is a regular speaker at public events. Norah's mission is to inspire the next generation of engineers and astronauts. Ireland is a country without a Space Agency or Space Strategy and Norah's perspective is that international cooperation in space activities is a fundamental need for the benefit of all humankind. Space is one of the few platforms that can draw humanity closer, and it should be leveraged and promoted for all the good it brings to life on Earth.



Rene Michel

Rene Horacio Michel Valencia has a degree in Electronic engineering, he loves technology as a way to simplify hard job and task; He is convinced that education is a the path that one has to shape in order to have better generations after us. He got interested in research and education while being a student at the university and has worked with the UWC, WHY Bolivia, among other institutions. After this, he was part of a one year technology transfer in a program in China by CAST/GWIC, as part of the TKSAT-1 project of the Bolivian Space Agency. While being in China he realized that TOT (Transfer of Technology) is not a business that implies only buying a satellite but being able to create technology in our home, he started a program with some colleagues which had as a result an Aerospace seminar in Bolivia (2014). Now he is taking the idea to a next level, working along a university (EMI) in Bolivia, is leading an Aerospace Research Program which as product will have drones and mini-satellite subsystem designed and built in Bolivia. His statement is "We do not need big economical budgets, but huge human budgets, we need students dreaming of creating technology by human for the world, for then will have a world for all beings" International cooperation is crucial for his path, because we learn from other experiences by giving a hand to those in need.



Siddharth Pandey

Siddharth Pandey is a PhD student at University of New South Wales at Canberra, Australia. His work is on Understanding Thermal Convection on Martian Surface to aid Design of a Mars bound Rover. Previously, he was an Education Associate at NASA Ames Research Center. He worked with the Space Sciences Division investigating Fluidized Granular Flows in reduced gravity to aid design of Pneumatic Sample Acquisition Systems. He also worked with the Space Biosciences Division to design and develop Microgravity Bioscience Payload for research conducted on board the International Space Station. His work on two successful spaceflight experiments was honoured when his team received the NASA Spaceflight Awareness Team Award in May 2014. He holds a Master's degree in Space Systems Engineering from Delft University of Technology, the Netherlands and a Bachelor's Degree in Aerospace Engineering from Amity University, India. As a Researcher with the Blue Marble Space Institute of Science and Mars Society Australia, Siddharth is helping coordinate joint Astrobiological field research and workshops in India with support from relevant research groups within US, Australia, New Zealand and India. His goal is to promote scientific collaboration between groups in India and elsewhere and also increase planetary science and Off-Earth surface exploration research exposure among Indian university students. On a personal level, he maintains links with students and staff at his previous educational institutions and helps mentor students with career and research relevant advice. He is also a Canberra Student Ambassador with the ACT Government, Australia.



Suman Gautam

Suman Gautam is a founder project Coordinator at Pokhara Astronomical Society (PAS). In this role, he serves as an advisor to science community and represents the science to community through Research, Education and Advocacy. In addition, he serves as a vice- chair for the Hands on Universe Nepal chapter and Board Member on Nepal Astronomical Society (NASO), where he involved in renewing scientific education at high school being deeply involved in the Galileo Teachers Training Program and the Hands- on Universe consortium. He received M.Sc. Physics from Tribhuvan University, Prithvi Narayan Campus, Pokhara. He has been involved as a freelance teacher of physics and Mathematics for high school students and gives talks about astronomy and space science in school, college and public. He has reached thousands of students and public conducting night sky observation in different places of Nepal. His research interests include the application of space science in exploring the management of natural resources through remote sensing, where he attends numerous workshops, on the application of Space Science to Agriculture, Disaster management and land use. Suman's primary interest is on Global Navigation and satellite application. His view on challenges of developing Nations in falling to adopt the integration of space science and technology in their economics can be solved by regional and international involvement.



Beza Tesfaye

My name is Beza Tesfaye born and raised in Addis Ababa, Ethiopia. I have BSc. in Global Studies and International Relation and Advance Diploma on Commuter Science. Currently I'm a post graduate student of computer Science at HiLCoE School of Computer Science and Technology in Addis Ababa. I have great passion for space science, Astronomy and space technologies. I am active member of Ethiopian Space Science Society (ESSS) since 2004, its establishment. I actively participate in space science outreach events and education programs. From 2006- 2010 I have worked as education and outreach coordinator, organize events like World Space Week, Yuri's Night World Space Party, Stargazing nights and community outreach activities. I have served as National Point of Contact of Ethiopia for two terms (2010- 2014) for Space Generation Advisory Council (SGAC) and now I am Regional Coordinator for Africa until 2016. In 2013 I was a part of SGC2013 organizing team and part of SGAC Earth Observation working group also in 2013 I have received SGAC Young Leadership Award that enabled me to attend 12th SGC in Beijing China. During my work at SGAC I have had opportunities to meet with young professionals, student around the world and influential people in space sector that motivate me to go out in the world and explore more knowledge and opportunities, also in turn to contribute my part. I believe international cooperation is the only way in using space knowledge to the fullest of its potential.



Gabriel Lapilli

Native of Argentina, graduated as a Mechanical Engineer from the National Technological University in Cordoba. Finished a MS in Aerospace Engineering and is currently a PhD candidate in Mechanical Engineering at Florida Tech. Participates in multiple aerospace-related projects including Slosh, a fluid dynamics experiment on the International Space Station that earned him a Top Engineering Development award from the American Astronautical Society. Working in the Aerospace Systems And Propulsion (ASAP) and the Mechatronics and Dynamics Systems laboratories at Florida Tech, merges fluid dynamics with control systems. Propellant behavior and spacecraft control are his main areas of study, with a dissertation topic centered on controlling flexible rockets using fiber optic systems. A new chapter in space exploration is being written with immense international cooperation. Today's young professionals will be the leaders that push boundaries in the coming years.



Jesus Gonzalez

Jesús González-Llorente received his B.S. degree in Electronics Engineering from the Universidad Nacional de Colombia in 2003. He also received a graduate diploma in Software Engineering from District University Francisco Jose de Caldas in 2005 and his M.S. degree in Electrical Engineering from the University of Puerto Rico at Mayaguez in 2009. During his master studies, emphasizing in control systems, he studied techniques for improving the efficiency of photovoltaic systems. In 2010, he worked as research intern for Cornell University in the Arecibo Observatory, the world's largest and most sensitive radiotelescope located in Arecibo, Puerto Rico. In summer 2013, he was a visiting scholar in University of Arkansas, Fayetteville, USA. He is currently a faculty member of the Universidad Sergio Arboleda in Bogotá, Colombia where he is also the team leader of the Electrical Power System for Libertad 2 nanosatellite, and he encourages undergraduate students to take part in the satellite project. He has been Principal Investigator of a research project funded by Colciencias, the Colombian Administrative Department of Science, Technology and innovation, for analyzing of collected solar energy and its efficient use on 3U Cubesat nanosatellites. His current research activities include the design of electrical power systems for nanosatellites and modeling and control of low power dc-dc converters.



Laura Leon Pérez

Laura León Pérez received the double degree in the Aerospace Engineering Master Degree from the University of Seville and the Space Engineering Master of Science from the Politecnico di Milano in April of 2013. She collaborated in the Aerospace Engineering and Fluid Mechanics Department in the University of Seville during 2010 where she developed a wing model for experimentation in the wind tunnel. From 2012 to 2013, she was employed in the Von Karman Institute of Belgium as Space Engineering Researcher for experimental investigation of the aluminum nano-powders oxidation to understand and control this phenomena. Then, she moved to the company Solar MEMS Technologies where she is currently working as Space Specialist Consultant and Mission Manager of the service Test In Space. She started coordinating the first Andalusian satellite mission, Cepheus, according to the ECSS and CubeSat specifications, where she also managed the platform design, payloads interfaces and integration procedures. After this experience, she became the Mission Manager of the Multi-Payload Satellite Program and she is in charge of the quality management of the projects and products related with Space applications. Her expectations, regarding to the professional area, are to go on learning about space systems and quality in order to grow towards the space science expertise and to reach her ambition of becoming a successful Space professional involved in innovation and challenging missions.



Sultan Assipov

My name is Sultan Assipov. I am 28 years old and for the last 5 years, I work in the space industry. I went through some internships in Airbus DS and SSTL, where I was a specialist for the electronics of optical payload. Today I'm a systems engineer for the SKTB project that aims to start the manufacturing of space components in Kazakhstan, and it is a very ambitious project. In addition, I'm a second year Masters student in Nazarbayev University for the Engineering Management program, so for the last year I'm more interested in managerial aspect of space industry than for the engineering one, but still I get excited when the high tech space technologies are involved. I'm really happy to be here, and to present my Country and the Company. My company, "Ghulam" is very young and it is important for us to become an honorable member of the world space community. International cooperation in Space is natural because there is no borders up there, and humanity should be united for the sake of better future. I really hope to make my space network here, and my LinkedIn account is ready for many new connections.



Dalin Li

I have been working in National Space Science Center (NSSC), the Chinese Academy of Sciences, for more than six years. My work mainly focus on space mission analysis and satellite operations. I have taken charge of several projects in these fields, including (1) the YH mission, which is the Chinese first Mars explore mission and out of control after launching unfortunately, (2) the software development on visualization, simulation, and analysis for more than ten earth observe satellites, (3) the software development for the Concurrent Design and Simulation Center (CDSC) at NSSC, which is used for China's space science mission design and simulation, like the Concurrent Design Facility (CDF) in ESA. I've earned fertile experience from these projects. And now my mainly work is related with the Strategic Pioneer Program on Space Science (SPPSS), which is the most important program on space science in China. The fundamental research related to this program during the "Twelfth Five-Year Plan" period focus on the properties of black hole, physical laws under extreme conditions, the nature of dark matter, kinetic theory of matter and fundamental laws governing life in space, influence of the Sun on the Earth space weather, and the analysis of non-locality of quantum mechanics. A project I'm in charge of is development of the scheduling and planning system for the operation center built for SPPSS. Another project I'm in charging of is the study on space science mission analysis techniques, which is also supported by SPPSS.



Milan Mijovic

Milan Mijovic has graduated from Law school, University Union, Belgrade, where he obtained BA and MA degree in law. He is currently enrolled at Ph.D. Studies at Law School, University Union in Belgrade. His doctoral Thesis shall question problems relating to property rights in Space, Moon and other celestial bodies, which shall be the first Space law related Thesis in Serbia. His plans are to introduce more detailed regulations regarding property rights outside the Earth, in order to establish an organized and legal system. Milan began researching Space law in 2012, when he participated in a competition organized by his Law School for best essay with a topic from Transportation law. After he won first prize for his essay with a topic: "Legal Aspects of Space Traffic", and following the publication of his work in Legal journal of his Law school, Milan became asserted to pursue a career in Space law. Since 2013, Milan is an active member of an international organization called Space Generation Advisory Council, being a National Point of Contact for Serbia. During the years, Milan provided the best efforts of introducing Space law to Serbia, especially to Universities, Legal experts and general community.

6.3.3 Future Space Leaders Grant Programme

The Future Space Leaders Foundation (FSLF) organizes the Future Space Leaders Grant Programme providing opportunities for U.S. graduate students and young professionals pursuing space and satellite-related careers to participate in the 66th International Astronautical Congress (IAC).



Justin Atchison is a young professional who received his PhD in Aerospace Engineering at Cornell University in 2010. Dr. Atchison served as a graduate exchange researcher at JAXA in 2008 and now works at the Johns Hopkins University Applied Physics Laboratory as a mission design and navigation engineer. He is the Mission Design Lead for the Double Asteroid Redirection Test (DART), which aims to test and characterize asteroid impact mitigation techniques, making our local solar system more accessible and secure.



Sarah Hefter Flanigan is a member of the Senior Professional Staff at the Johns Hopkins University Applied Physics Laboratory and holds degrees in Aerospace Engineering from both Virginia Tech and Cornell University. She was the Lead Guidance and Control Engineer on the MESSENGER mission whose spacecraft was the first to orbit Mercury. She is also the Deputy Lead Guidance and Control Engineer on the New Horizons mission whose spacecraft will fly by Pluto on July 14, 2015. She plans to share a paper on the much-anticipated New Horizons mission at the IAC.



Raphael Perrino is an M.A. student in International Science and Technology Policy with an emphasis in Space Policy at George Washington University, and plans to graduate in August 2015. He holds an M.S. in Technical and Scientific Communication from James Madison University and is an Eagle Scout. Mr. Perrino is an Aerospace Analyst at The Tauri Group and has worked on the GAO 2015 NASA Quicklook, FY16 NASA Budget Request, and Start-Up Space study. He has authored and co-authored several papers on Space Policy, including one on NASA's Commercial Crew Program that he has submitted to this year's IAC.



Jillianne Pierce. In her position as Government Affairs Associate for the Space Foundation, Jillianne regularly interfaces with the Administration, Congress, and various federal and international departments and agencies to educate key decision-makers on issues of importance in the space policy arena. A member of the Florida bar, Jillianne earned a J.D. from the University of Miami and a B.A. from the University of Central Florida. Her IAC presentation will focus on how commercial imaging satellites can provide evidence of human rights abuses, and how such image-gathering influences the evolution of the "Responsibility to Protect" doctrine.



Julia Stalder is a young professional who plans to complete her M.S. in Mechanical Engineering at UCLA in June of 2016. She currently works at the California Institute of Technology's NASA Jet Propulsion Laboratory, where she has had the opportunity to work as a mechanical engineer on the Surface Water and Ocean Topography program for CNES and the ISS instrument RapidScat. Julia is a recent recipient of the NASA Early Career Achievement Honor Award. She is also the only applicant who is a panelist at the Next Generation Plenary.



Paul Warren is a student and young professional at Stanford majoring in Computer Science. He has helped organize and has participated in numerous space and zero gravity experiments, and is now the co-president of the Stanford Space Initiative (SSI). SSI will send the first university-built rocket to space, launch two satellites, send a weather balloon across the United States, and has generated enough interest in space for Stanford to create a new Aerospace and Aeronautics program within the next three years. Warren continues to use his experience and contacts within the space industry to help fellow students develop space related careers.

7 Associated Events

7.1 IAF/ISEB Educators Professional Development Workshop

Date: Sunday, 11 October 2015
Time: 08:00 - 16:00
Venue: Room 312, ICC

Using the Science of Teaching in Teaching Science

Ian Christie, Outreach Co-Ordinator and Curriculum Designer, Victorian Space Science Education Centre (VSSEC), Melbourne, Australia, will introduce participants to the nine classroom techniques for which there is real evidence that student outcomes are improved by teachers who use these techniques.

A Creative Approach to Science Lessons and Teacher Professional Development

VSSEC will showcase the effective use of outreach programs in primary schools to deliver science lessons to students simultaneously with teacher professional learning.

Fully Immersive Scenario Based Learning: A Robotic Mission to Mars.

An online, scenario based, educational program for years 9 & 10. Participants will take control of the VSSEC Mars Rover in Melbourne using their Mission Control website.

Interactive Platforms in the Classroom

Raz Tamir from the Israeli Space Agency (ISA) will give a workshop on the use of online tools that students perceive as fun, leisure-related activities in the service of space education.

Presenters:

Philip Spencer, Director, VSSEC
Ian Christie, Outreach Co-ordinator and Curriculum Designer, VSSEC
Raz Tamir, ISA
Student Assistants:
Michiel Zittersteijn (ESA)
Christoph Montag (ESA)
Conor MacDonald (VSSEC)
Blake Edwards (VSSEC)



7.2 Cross-Cultural Communications and Presentation Workshop

Date: Sunday, 11 October 2015
Time: 8:30 - 13:30
Venue: Room 310, ICC

The Cross-Cultural Presentation Workshop is organised for Emerging and Future Space leader Grants recipients and Next Generation Plenary speakers to provide them with the opportunity to improve their oral skills for their presentations and to sensitize them to the issues of speaking at large multi-cultural events.

Session presenters:



Scott Madry

Scott Madry is a research associate professor at the University of North Carolina at Chapel Hill and a member of the faculty of the International Space University in Strasbourg, France. He has been doing international teaching and research for some 30 years and is interested in effective international communications and presentation skills.



Carol Carnett

Carol Carnett is an attorney and a teacher of English to Speakers of Other Languages. She is Director of English Programs for the International Space University Summer Space Studies Program and Southern Hemisphere Space Studies Program, where she teaches English language skills, including writing and presentation workshops focused on effective English communication in international meetings and conferences.

7.3 Academy Day

Date: Sunday, 11 October 2015
Time: 09:00 - 17:45
Venue: Crowne Plaza Jerusalem Hotel, Ball Room B

THE INTERNATIONAL ACADEMY OF ASTRONAUTICS (IAA) - IAA PLENARY SESSION - OPEN MEETING

IAA Plenary Session - Open Meeting

Crowne Plaza Jerusalem Hotel, Ball Room B

09:00	Welcome Address, <i>Madhavan Nair, President International Academy of Astronautics</i>
09:10	Laurels for Team Achievements Introduction, <i>Charles Elachi, USA (TBC)</i>
09:15	Laurels for Team Achievement Lecture: Philae team, which conducted the first-ever trajectory development for a ballistic comet landing, the first on-comet operations, and the first cometary in-situ science collection. International cooperation was essential for the success of this remarkable mission.
10:15	The future of ESA and its programs, <i>Johann-Dietrich Woerner, Director General ESA</i>
10:45	IAA Summit on Climate Change and Disaster Management, <i>Jean-Yves Le Gall, President CNES, France, IAA</i>

- 11:15 Round Table of Heads of Space Agencies on Climate Change and Disaster Management: *Prof. Isaac Ben Israel, ISA, Dr. Jean-Yves Le Gall, CNES, Dr. Johann-Dietrich Woerner, ESA, Dr. Seidu Oneilo Mohammed, NASRDA, Nigeria, Dr. Gerrit Nieuwpoort, NSO, Dr. Marius Ioan Piso, ROSA, Romania, Dr. Francisco Mendieta-Jimenez, MSA, Dr. Madhavan Nair: Moderator.*
- 12:15 IAA Luncheon (*Crowne Plaza Hotel Ballroom A In advance registration required*)

IAA Restricted Session

Crowne Plaza Jerusalem Hotel, Ball Room B

- 13:30 General Meeting of the Academy (*Meeting access restricted to IAA members and Corresponding Members*)

IAA Plenary Session - Open Meeting

Crowne Plaza Jerusalem Hotel, Ball Room B

- 14:40 Welcome Address, *Anatoly Perminov, Vice-President Scientific Activities*
- 14:45 SG 4.16 The Applications of Micro-Satellites and Cube-Sats to Planetary Science and Exploration Missions, *Alkalai/Graziani/Bousquet/Laufer*
- 15:15 SG 2.13 Space Life Sciences, Physiology and Medicine in the Exploration Era: The IAA Virtual Institute of Space Life Sciences, Physiology and Medicine, *Rupert Gerzer*
- 15:45 SG 1.11 Comparative Climatology - Studying Planetary Climate to Understand our Planet, *Ramachandran/Ocampo*
- 16:15 SG 2.8 e-Learning, education content sharing; Technical and legal issues in space Life sciences, *Kourtidou/Horneck/Bamidis*
- 16:45 SG 4.21 Distributed, Networked, Smart, Cooperating Small Satellite Formations, *Igor Belokonov/ Klaus Schilling*
- 17:15 SG 4.17 Space Systems for Biomedical Research, *Cappelletti/Graziani/Massimiani*
- 17:45 Adjourn Plenary Session
- 18:30 - 22:00 Reception and Dinner, Induction Ceremony of Newly Elected IAA members, Ballroom AB
(*In advance registration required, restricted to IAA members and Corresponding Members and their guests*)

7.4 IAC Hosts Summit

Date: Sunday 11 October 2015

Time: 09:00 – 13:00

Venue: International Convention Center, Jerusalem – Room: Oranim 1

Time:	Programme
Opening	Welcome Address by IAF President Kiyoshi Higuchi
09:00 - 09:10	Opening Address by CSAC Chairman and Moderator of the Summit, Philippe Willekens
Session 1:	Experience from previous IAC Hosts
	The Secretary General of IAC2009 Local Organising Committee will share successful practices and challenges involved in hosting the World's Premier Global Space event
09:10 - 09:50	Presentation by Amb. Heung-sik Choi, President, Korea Institute of Convention Design
	Discussion, Q&A
Session 2:	Why hosting an IAC?
	The benefits of hosting an IAC are legion. This session will present the most important motivations from an LOC perspective.
09:50 - 10:15	Presentation by Menachem Kidron, Director, Israel Space Agency (ISA)
	Discussion, Q&A
10:15 - 10:30	Coffee break
Session 3:	IAC Innovation
	It is our delegates' needs and expectations that dictate the direction of IAC. What is new at IAC2015? What will the IAC of tomorrow be?
10:30 - 10:40	Presentation by Myriam Morabet, Projects Manager, International Astronautical Federation (IAF)
10:40 - 11:40	Roundtable Discussion: IAC - What are your Expectations for the Future?
	<i>Moderator: Philippe Willekens, CSAC Chairman</i>
	Invited Participants:
	<ul style="list-style-type: none"> • Michel Arnaud, Special Advisor to IPC Co-Chairs, IAF • Carissa Bailey, Conferences & Events Associate, SpaceX (tentative) • Tanja Masson-Zwaan, President, International Institute of Air and Space Law (IISL) • Sandra Ramirez, IPC Co-Chair for IAC2016, President of the Mexican Society of Astrobiology and Professor at Universidad Autónoma del Estado de Morelos • Oshrat Slama, Director of Marketing Communications, Space IL (tentative) • Kevin Stube, Chair of IAF Workforce Development/Young Professionals Committee and member of the Advisory Board of the Planetary Society
Session 4:	IAC Sponsorship
	Sponsorship in the context of an IAC is increasingly an important source of income for IAF and LOC. How can you build a successful sponsorship program? To secure sponsorship you need to understand what sponsors are looking for and offer benefits and value that meet their needs.
11:40 - 11:50	Presentation by Christian Feichtinger, Executive Director, International Astronautical Federation (IAF)

11:50 - 12:50 Roundtable Discussion: Why is Sponsorship so Important for an IAC?
Moderator: Philippe Willekens, CSAC Chairman

Invited Participants:

- Steve Eisenhart, Senior Vice-President – Strategic & International Affairs, Space Foundation
- Guillaume Girard, Business Development Manager, INSYEN AG
- Megan Scheidt, Managing Director, Technical Activities Division, American Institute of Aeronautics and Astronautics (AIAA)
- Mary L. Snitch, Senior Manager, Industry and University Relations, Lockheed Martin Corporation
- Zvika Zuckerman, Director, Marketing & Business Development, Space Systems Directorate, Rafael Advanced Defense System Ltd. (tentative)

12:50 - 13:00 Closing remarks by CSAC Chairman and Moderator of the Summit,
Philippe Willekens

13:00 - 14:00 Hosts Summit Lunch - sponsored by Space Foundation (Room Oranim 2, ICC)



7.5 IISL Manfred Lachs Space Law Moot Court Competition

Date: Thursday, 15 October 2015

Venue: The Hebrew University, Jerusalem, Israel

**24th MANFRED LACHS SPACE LAW MOOT COURT COMPETITION
ORGANIZED BY THE INTERNATIONAL INSTITUTE OF SPACE LAW (IISL)**



The Manfred Lachs Space Law Moot Court Competition is organized annually by the International Institute of Space Law (IISL). Preliminary regional competitions are organized between April and June. The winning teams of the preliminaries meet in the World Finals held in conjunction with the annual IISL Colloquium, and traditionally have been judged by Judges of the International Court of Justice.

This year, for the 24th competition, four teams, from Africa, Asia Pacific, Europe and North America, will compete in the World Finals. These events will take place in Beijing during the IAC. The name of the 2015 Moot Problem is "Case Concerning Planetary Defense" (SPIDR v. URA). The Moot Problem presents issues relating to the response to a threat to the Earth posed by the risk of collision with a Near Earth Object (NEO). The problem also addresses the utilization of natural resources of the celestial object, and liability for damages occasioned by the NEO.



The semi-finals will be held on Tuesday, 13 October in a closed session. The Final Round will be held in the afternoon of Thursday, 15 October and will be judged by three members of the International Court of Justice in The Hague.

Following the awards ceremony at the conclusion of the Final Round, the IISL will host its annual dinner. All who are interested to attend the Final Round are welcome, but are requested to contact IISL beforehand. The IISL Dinner is reserved for guests with confirmed and paid reservations (latest deadline: Thursday 8 October). A Brochure including the names of all participating universities, judges, sponsors and a summary of the Problem will be available in advance for those attending the finals.

Exact timings and transportation arrangements will be announced at the start of the IAC.

Contact details of the Co-Chairs of the Manfred Lachs Moot Court Committee:

Dr. Martha Mejía-Kaiser, lachsmootchair2@iislweb.org

Melissa K. Force, Esq. melissakforce@aol.com

Les Tennen, Esq. lachsmootchair1@iislweb.org

Internet sites:

Lachs Space Law Moot Court: <http://www.iislweb.org/lachsmoot/>

Facebook: Lachs Moot Court: <http://www.facebook.com/spacemoot>

Twitter: Lachs Moot Court: <http://twitter.com/SpaceLawMoot>

IISL: www.iislweb.org

7.6 14th Space Generation Congress (SGC)

Date: 8 – 10 October 2015
Venue: Bloomfield Science Museum, Sderot HaMuze'onim, 91904 Jerusalem, Israel (1.3km from IAC venue)
Website: www.spacegeneration.org

THE GLOBAL SPACE CONGRESS FOR UNIVERSITY STUDENTS AND YOUNG PROFESSIONALS INTERESTED IN TODAY'S KEY SPACE ISSUES



The Space Generation Congress (SGC) is the annual meeting of the Space Generation Advisory Council (SGAC) held in conjunction with the International Astronautical Congress. SGC gathers a select group of top university students and young professionals from various areas of the international sector – government, industry, and academia, who have a passion for space.

With SGC, SGAC aims to hone and promote the perspectives of tomorrow's space leaders on today's key space issues. SGC delegates also have the opportunity to meet many high-level international space leaders through networking events. SGC is proudly endorsed by the United Nations Office of Outer Space Affairs.

Aims

The aim of the SGC is threefold:

- **First**, to strengthen the international network of the Space Generation Advisory Council. From the perspective of the individual delegate, many of whom come from developing countries, it is a chance to interact and engage with the incoming generation of space policy professionals from all over the world. From the perspective of the Space Generation Advisory Council, it allows us to consolidate our international links in order to best represent and facilitate the voice of the next space generation.
- **Second**, to examine and consider key questions that are facing the space and international community at large and to provide input to international thinking from the next generation of space professionals.
- **Third**, to allow tomorrow's space sector leaders to grow their network within their generation and to also have the opportunity to interact with today's space leaders by way of our high-level speakers.



SGC 2015 Programme – See SGC website for detailed schedule, speakers, and sessions

Thursday, 8 October

09:00 - 18:00 SGC Sessions
20:00 SGC Opening Dinner

Friday, 9 October

09:00 – 18:00 SGC Sessions
20:00 SGC International Night

Saturday, 10 October

09:00 - 14:00 SGC Sessions
14:00 - 16:00 SGC Final Presentations
16:30 - 17:30 SGAC/WSW Panel
17:30 - 18:30 SGAC/WSW Tweet-Up Reception
20:00 SGC 2015 Gala Reception and Dinner

** Note:

All sessions require advanced registration unless specified. Booking is essential.
 "SGC Sessions" include featured speakers, Working Group time, networking opportunities**

SGC GALA DINNER – Saturday, 10 October

20:00 SGC 2015 Closing Reception and Dinner (*advanced booking required*)
Address: Beit Belgium (Belgium House) Giv'at Ram Campus, Hebrew University of Jerusalem (1.8km from IAC Venue).

Wrapping up three days of SGAC's 14th Space Generation Congress, the annual SGC Closing Gala Dinner honors the extraordinary work of SGAC's volunteer members, and appreciation of the continuous support of our partners to inspire the next generation of space leaders.

SGAC would like to thank all the Sponsors and Supporters of the Space Generation Congress 2015.

The Space Generation Advisory Council in support of the United Nations



Programme on Space Applications (SGAC) is a non-governmental, non-profit organisation, which aims to represent students and young space professionals to the United Nations, industry, agencies and academia. SGAC has permanent observer status in the UN Committee on the Peaceful Uses of Outer Space (COPUOS). SGAC has a long history, and was conceived at the Third United Nations Conference on the Exploration and Peaceful Uses of Space (UNISPACE-III) in Vienna in 1999. The SGAC Executive Council is made up of representatives from each of the six UN regions, and has a larger body of representatives from nation states. Our focus is on pragmatic space policy advice to policy makers based on the interests of students and young professionals, broadly in the age range 18-35, interested in space from around the world.

For more information, please contact:
 Minoo Rathnasabapathy
 SGAC Executive Director
minoo.rathnasabapathy@spacegeneration.org

Jan Svoboda
 SGC 2015 Congress Manager
jan.svoboda@spacegeneration.org

SGAC at the IAC

Sunday, 11 October 2015, 11:00 - SGAC Space Operations Workshop (advance registration required)

Learn how to carry space operations for big satellites as well as for cubesats from three points of view: Agency, Commercial operator and Small company. EUMETSAT will be representing the Agency point of view, Telespazio Vega the commercial point of view and, Gauss srl, the small company point of view. The SGAC Space Operations Workshop is open to students and Young Professionals.

Sunday, 11 October 2015, 17:30 - SGAC Educational Outreach Event

SGAC will partner with Bob Richards (co-founder of ISU) to conduct a space outreach event. The event will take place in one of Israeli's best high schools, IASA, and will include several presentations on different aspects of space.

Tuesday, 13 October 2015, 7:30- SGAC Alumni Breakfast (advance registration required)

As the network of SGAC members around the world increase, the SGAC Alumni Breakfast is an opportunity to build connections and network with SGAC alumni. Reconnect with fellow SGAC Alumni and learn about current SGAC events and projects.

Tuesday, 13 October 2015, 16:00 - SGAC Booth Reception

Join SGAC and Space Foundation for drinks at our Booth (Booth #5) and get acquainted with fellow SGAC members, IAC delegates, speakers and panelists.

Wednesday, 14 October 2015, 13:30 - GNF Panel Discussion - "How to Launch Your Career in Space"

The panel will offer advice for young professionals looking to enter or advance within the space industry, drawing from the personal experiences of senior leaders in the field. The discussion will focus on creative ways to gain insight and experience, while learning how to measure your own self-worth while learning to identify opportunities for advancement.

Wednesday, 14 October 2015, 19:00 - SGAC/ISU/YPP Reception

This is the annual reception of the SGAC in partnership with the International Space University (ISU) and the IAF's Workforce Development/YPP Committee. Join the reception, and enjoy some drinks and nibbles while you network with other young professionals in the space sector! -No registration needed, this event is FREE to all SGC 2015 delegates, registered IAC 2015 Young Professionals, and invited guests. Collect your invitation at the SGAC or ISU Booth.

On-site contact: Minoo Rathnasabapathy, SGAC Executive Director

Tel: +43 6604113552

Email: minoo.rathnasabapathy@spacegeneration.org

Web: www.spacegeneration.org

The Space Generation Advisory Council in support of the United Nations Programme on Space Applications (SGAC) is a non-governmental, non-profit organisation, which aims to represent students and young space professionals to the United Nations, industry, agencies and academia. SGAC hosts conferences around the world to mobilize today's young minds on key space issues.

SGAC 2015 Young Space Leaders Scholarship

The Space Generation Advisory Council (SGAC) provides opportunities for the next generation of space professionals, enabling them to have their input and ideas heard on an international platform. SGAC is proud to recognise exceptional students and Young Professionals through the annual SGAC Young Space Leaders Scholarship allowing the recipients to participate in the Space Generation Congress and International Astronautical Congress.



Bruno Sarli

After graduating in Aeronautics in Brazil and Space Engineering in Europe, Bruno moved to Japan where he has been working in Astrodynamics for the Japanese Aerospace Exploration Agency (JAXA). During this time, he worked in different missions with the latest launched last year. Bruno has been with SGAC since 2012 when he was elected NPoC Brazil. After his term, he took the role of Regional Coordinator in South America and together with the South American team organized the first South American Space Generation Congress held in Buenos Aires, Argentina.



Giampietro Tonoli

Giampietro Tonoli is a Master Student in Industrial Engineering at the Technical University of Brunswick, Germany. During his Master studies he worked at the German Aerospace Center (DLR) as a student assistant in the DLR_School_Lab Braunschweig, where he helped inspiring and motivating teenagers to get involved in science and engineering. He earned a Bachelor of Science in Aerospace Engineering at the Politecnico di Milano, Italy in 2013. Giampietro joined SGAC in 2014 after participating at the SpaceUp in Bremen, Germany. His interests in space are the international project management, lean processes and science application. Giampietro is currently writing his Master Thesis, with a focus on helping in the development of an experiment for the ISS. Giampietro has many years of international experience due to volunteer activities and student jobs abroad.



Henry Ibitolu

Henry was born and raised in Nigeria. He is currently a Geospatial Data Analyst at Onidex Geospatial Solutions, a company he co-founded while he was an undergraduate. He is currently also a Science Teacher at a Community School, where he initiated a Space Club and hopes to construct an Amateur Telescope to help inspire the students. He earned his Bachelor of Technology degree in Meteorology at the Federal University of Technology, Akure, Nigeria in December 2014. Henry completed his Internship at the Nigerian National Space Research and Development Agency, where he was exposed to issues relating to application of Space-based technology for humanity. He has participated at the Inaugural Astronomy Summer School for West African Students, where he gained more insights in Space Science. Since he was a child, Henry has been amazed by the stars, astronauts and everything related to space. It is since then that he knew he wanted to become a space scientist and be involved in research that would touch the lives of others, especially those under-privileged in society.



Sirisha Bandla

Sirisha Bandla currently works at Virgin Galactic in the DC operations office on Government Affairs and Business Development. Previously, Sirisha served as the Associate Director for the Commercial Spaceflight Federation, an industry association of commercial spaceflight companies. At CSF, Sirisha works on various policies with the aim to promote the commercial space industry and make commercial human spaceflight a reality. Before CSF, she worked as an aerospace engineer designing components for advanced aircraft at L-3 Communications in Greenville, Texas. While at Purdue University, Sirisha lead a team in the NASA-supported Reduced Gravity Student Flight Opportunities Program in which she flew onboard the ZERO-G aircraft and managed a group of engineers who designed, fabricated, and flew a microgravity science payload. She has a Bachelors of Science degree in aeronautical/astronautical engineering from Purdue, and holds a Masters of Business Administration from the George Washington University. Sirisha has been active in SGAC since 2013, attending her first Space Generation Congress in 2014 in Toronto. Sirisha was the Fusion Forum manager for the 2015 Space Generation Fusion Forum in Colorado Springs.



Kyle Acierno

Kyle Acierno was born in the Canadian Rocky Mountains and began exploring at a young age. His interest in space stems from his passion to discover the undiscovered and preserve and extend consciousness. Kyle graduated with a BA in International Security from Simon Fraser University and received a M.Sci of Space Studies from the International Space University in 2015. His thesis focused on the exploitation of lunar resources and soon after graduation he was hired by Ispace technologies and Team Hakuto, a front runners in the Google Lunar X Prize, to direct global business development activities.

8 IAF Awards 2015

8.1 The Allan D. Emil Memorial Award

Allan D. Emil (1898 – 1976) was a noted U.S. lawyer and philanthropist who became one of the foremost lawyers in the field of flight, and was appointed counsel to the Institute of the Aeronautical Sciences. Since 1977, the IAF's Allan D. Emil Memorial Award has been presented annually for an outstanding contribution to space science, space technology, space medicine or space law. This contribution either involved the participation of more than one nation or furthered the possibility of greater international cooperation in astronautics.

The recipient of this year's award is Dr. Jha



Allan D. Emil
(1898 – 1976)



2015 Awardee
Virendra Jha

Dr. Jha has over 42 years of experience in the Canadian Space Program ranging from in-depth engineering work to senior management positions in both the Private and the Public Sectors. Dr. Jha began his space career in 1972 when he joined the Aerospace group of RCA Limited Montreal, which later became Spar Aerospace Limited. In 1988, he became the Director of Engineering at Spar Aerospace Limited. In 1991 Dr. Jha joined the Canadian Space Agency as Director of the Space Mechanics Group. In 1996 he was promoted to the position of Director General, Space Technologies Branch of the CSA. From 2003 till 2008, he was the Vice-President responsible for Science, Technology and Programs at the Canadian Space Agency. As Vice President, Dr. Jha provided strategic direction, vision and leadership to all core technical sectors of the Agency. From November 2005 until February 2006, Dr. Jha also served as the Acting President of the Canadian Space Agency. He was Chief Engineering Adviser at the Canadian Space Agency until his retirement in 2014. Dr. Jha received his B. Tech. degree in Mechanical Engineering from the Indian Institute of Technology Delhi India, his Master's degree in Mechanical engineering from McMaster University, Hamilton, Canada, and his Ph.D. degree in Mechanical Engineering from Concordia University, Montreal, Canada and the C.Dir. (Chartered Director) Degree from McMaster University, Hamilton, Canada.

Dr. Jha's technical contributions in Canadian Space Program as well as in International Space activities have been significant. His initiatives in forging international partnerships led to CSA's cooperation with India in the form of Astrosat, with NASA on Cloudsat, with Argentina on SAC-D and SAOCOM project. His leadership and commitment to the profession is reflected by his recognition and active participation in many groups, committees and advisory boards. Some of his specific awards are: Queen's Jubilee Medal recipient in 2002 (this Medal is given to a few selected Canadians who have made a significant contributions to Canada), honorary member of the "Golden Key – International Honorary Society" since 2001 (this society promotes academic excellence amongst universities in North America); recipient of the Canadian Aeronautics and Space Institute (CASI)'s "Alouette Award" for 1999 (this award is given each year to one person who has made a very significant contribution to the Canadian Space Program), appointed full member of the International Academy of Astronautics (IAA) in 2004, and the recipient of the Professional Man of the Year award in 2004 from the Indo Canadian Chamber of Commerce. Some of the specific committee memberships are; Co-Chair of "International Program Committee" (IPC) in 2003-2004 and in 2013-2014, Vice President of International Astronautical Federation (IAF) from 2004 to 2008, Canadian representative on the Independent Assessment Panel for the International Space Station (1994-1999). Canadian delegate to the European Space Agency Council (1996-2006), Canadian representative for the Committee for Earth Observing Satellites (CEOS) (1997-2006), Canadian representative for Group on Earth Observation (GEO) (2003-2007). Dr. Jha has published and presented more than twenty papers on space related subjects. Dr. Jha has also served as a Board member for five technology related non for profit organizations

8.2 The Frank J. Malina Astronautics Medal

Since 1986, the IAF's Frank J. Malina Astronautics Medal has been presented annually to an educator who has demonstrated excellence in taking the fullest advantage of the resources available to them to promote the study of astronautics and related space sciences. The International Astronautical Federation is delighted to announce that the winner of the 2015 Malina Medal is Prof. Boris Pschenichner.



Frank J. Malina
(1912 – 1981)



2015 Awardee
Boris Pschenichner

Boris Pschenichner began his space and astronomical education activity since 1955, when he was a teacher of astronomy in Moscow secondary school. Since 1958, when everybody was extremely interested in space due to launch of first satellites orbiting Earth, B. Pshenichner started working in Moscow Planetarium, where classes for astronomical education were organized. In 1962 B. Pshenichner was invited to just opened "Moscow Palace of Pioneers" (today named "Moscow State Palace of Child and Youth Creativity") with task to organize the first in USSR Department of Astronomy and Cosmonautics for schoolchildren. Since that time he was the head of the Department for more than 40 years. In that Department he organized courses for Astronomy, Astrophysics, Space biology and medicine, Crew of young cosmonauts, and even Rocket constructing. Since the very beginning of the Department activity he established a very productive cooperation with scientists, researchers and teachers of colleges and universities, scientific and industrial organizations. Lot of his students became astronomy teachers, space researchers, and engineers after they spent their school years at the Pshenichner classes at the "Pioneer Palace". From 1996 to 2003 B. Pshenichner took part in creation of the concept of the Russian National Program for Space Education. From 2004 till 2013 B. Pshenichner was the head of Open scientific-educational program "Space experiment", which was founded by Lomonosov Moscow State University, Space Corporation Energia and the Pioneer Palace. In framework of that program 13 projects proposed by schoolchildren have been realized onboard the International Space Station and Earth-orbiting satellites. Up to now Boris Pshenichner is working as a consultant of the Department of Astronomy and Cosmonautics for schoolchildren.

8.3 IAF Hall of Fame



2015 Awardee
Hans E.W. Hoffmann

With an aeronautical engineering degree (University of Aachen, 1961) and masters (University of Wichita, Kansas, 1962), Hans Hoffmann began his career in 1961, as project manager of the "Third Stage" European ELDO-I Launcher at Weser Flugzeugbau GmbH /ERNO Raumfahrttechnik GmbH in Bremen, Germany. In 1969, he became vice-president of the European Launcher Development Organisation (ELDO), in Paris, responsible for the development of a new launcher, "EUROPA-III", and for negotiations with NASA of the European contribution to the Post Apollo Programme. Four years later, Hoffmann returned to Bremen, as Managing Director and "Spacelab" Project Director at ERNO Raumfahrttechnik GmbH/MBB-ERNO. In 1985, he created and became managing director of Intospace, an umbrella organisation of 90 European microgravity user organisations. Between 1989 to 1990, Hoffmann was managing director of Dornier International; marketing director of DASA, Munich, responsible for all international marketing and sales of aerospace products; and president of DASA(MBB) MSG in Bremen, in charge of UAV development, mine-hunting technology and simulator development. As President of STN-Systemtechnik Nord GmbH in Bremen between 1990-1994, Hoffmann was responsible for the German/French development of the UAV "KZO Brevel" target location – a \$200M contract. This UAV is now produced by the German DOD. He also managed the German torpedo developments and was prime contractor for 10 German fast Minesweepers and 12 German Minehunters. Between 1994 and 2000, he was president of STN Atlas Elektronik GmbH in Bremen, a 5,200-employees merger of STN-Systemtechnik Nord GmbH and the former KRUPP-ATLAS ELEKTRONIK GmbH. In 1997, he also joined the Supervisory Board of STN Atlas Elektronik and became a full-time

consultant for the company. After retirement in 2000, Hoffmann has held various consultant positions. He was much involved in ORBCOMM LLC, United States, initially as CEO and President, later as consultant and member of the Board of Directors, resigning from his duties in 2012. Hoffmann's other roles and functions included: membership and vice-presidency of the Senate Committee of the German Aerospace Centre (DLR) (1988-2000); chairmanship of the CALS Committee of the German Industry Association (1990-2000); and fellowship and membership of the American Institute for Aeronautics and Astronautics and the American Astronautical Society. He was IAF Vice-President from 1992 to 1996 and has served as the Federation's Honorary Secretary since 2009. Hoffmann received several awards including the IAF Allan D. Emil Memorial Award (1986), the Engineering Science Award by the International Academy of Astronautics (1993) and the Ordre National du Merit by French President for German/French cooperation (1997). He was named "Man of the Year" by Aviation Week for the creation of Intospace in 1987.



2015 Awardee
Paolo Ferri

Paolo Ferri studied theoretical physics at the University of Pavia, Italy. He joined the European Space Agency in 1984, as visiting scientist in support of science operations for the EXOSAT X-ray astronomy satellite at the European Space Operations Centre (ESOC). He moved to the mission operations field in 1986, to work on the operations preparation of EURECA, the first ESA unmanned microgravity platform, which he supported throughout its flight operations until the retrieval from orbit by Space Shuttle Atlantis in 1993. He then was assigned to the CLUSTER mission, a fleet of four satellites for magnetosphere research, in his first assignment as Spacecraft Operations Manager. After the launcher failure in June 1996, exploded 37 seconds after lift-off, he started the preparation of the operations of the follow on mission, which was successfully launched in summer 2000. In November 1996 he was nominated Spacecraft Operations Manager for the Rosetta mission, the first historical mission to rendezvous with and land on a comet nucleus. ESA had at that time very limited experience and no infrastructure for the operations of interplanetary missions. Together with a small group of engineers, Dr. Ferri specified all the elements of the ground infrastructure required for this type of operations. As operations responsible, he designed the operations concept and selected and built up the flight control team which had to accompany Rosetta on its 10 years journey to the comet. Thanks to the foundation work of the Rosetta team, within less than a decade ESOC had a fully functional and operationally validated infrastructure of hardware and software tools for the operations of interplanetary missions, and a group of engineers and technicians with a unique in-flight experience operating interplanetary missions, very successfully operating the three ESA missions, Rosetta, Mars Express and Venus Express. After the launch of Rosetta in March 2004 Dr. Ferri continued to lead the flight operations until August 2006, when he was nominated head of the newly created Solar and Planetary Mission Operations Division, in charge of ground segment management, mission operations preparation and execution for all ESA solar and planetary science missions (at that time Rosetta, Mars Express, Venus Express, Ulysses, Smart-1 and Cluster in flight, BepiColombo in preparation). During his period as head of the Solar and Planetary Division more missions were approved for future launch, ExoMars and Solar Orbiter, and the preparation activities on the ground segment side were assigned to the Division's responsibility. In the meantime he continued to support critical operations activities as Flight Director, e.g. for the launch (2005) and arrival at Venus (2006) of Venus Express, for the Rosetta Mars Swing-by (2007) and for the launch (2009) of the GOCE gravity mission of the Earth Observation programme. Since 2013 he is head of ESA's Mission operations Department, in charge of mission operations preparation and execution for all ESA unmanned missions (currently 9 missions – 14 satellites – in flight and other 20 in preparation, mainly interplanetary, astronomy and Earth observation missions). The Department is also responsible for operation ESOC's ground facilities, including the worldwide ground stations network. Dr. Ferri is member of the Space Operations Committee of the International Astronautical Congress and has been supporting numerous IAC activities since 1999, initially as paper author, session chair, committee member and lecturer to students and young professionals. He devoted throughout his career constant attention to education and training in the field of operations. He developed several lectures on ground segment and mission operations, which are given regularly as part of various ESA internal and external training courses. His lectures on interplanetary mission operations have recently been included in a book on spacecraft operations. He also regularly supports specialist conferences like SpaceOps, and published numerous articles on specialised journals. His passion for space is combined with his interest in education and outreach. Thanks to the popularity of the Rosetta mission, which has been the project of his life and on which he has worked for the past 20 years, he has been lecturing to a large number of Universities, schools and general public audiences, bringing the subjects of space exploration and operations closer to a large audience of enthusiastic people of all ages. For the historical achievement of the Rosetta mission Dr. Ferri has been granted various awards, among which the Sir Arthur Clarke Award and the Galileo Medal of the City of Padova.

8.4 IISL Awards 2015

8.4.1 IISL Lifetime Achievement Award



Marcia S. Smith

In recognition of her four decades of outstanding services to the international community of nations and the International Institute of Space Law, to which she has made invaluable contributions as a director and as Vice President, played notable roles in the promotion of research and discourse on policy and legal aspects throughout her distinguished professional career, making significant contributions to the development of literary resources and rendering immense service to academies and policy making bodies at national and international level in the fields of space and astronautics.

8.4.2 IISL Distinguished Service Award



Prof. Dr. Sergio Marchisio

In recognition of his outstanding and dedicated services to the International Institute of Space Law and to the international legal community, his distinguished leadership in the development of international space law and institutions such as the European Centre for Space Law; his stewardship in organisation of Manfred Lachs Space Law Moot Court Competitions in Europe; his exceptional contributions to academics and space law literature, and his leading role for advancing international space law in the United Nations and other intergovernmental bodies.

8.4.3 IISL Award of Appreciation



Dr. Martin Stanford & Dr. Bernhard Schmidt-Tedd

In recognition of their initiative, drive and organization of the Berlin conference of States and their valuable contributions towards the drafting and successful negotiations of the Space Protocol of the UNIDROIT Cape Town Convention, which after a long duration resulted in a binding new instrument of space law.

8.4.4 IISL Certificate of Gratitude



Japan Aerospace Exploration Agency (JAXA)

In recognition of its nurturing an exemplary spirit of international cooperation in promoting the capacity for space law among students in the Asia Pacific Region, its longstanding support to the organisation of the Manfred Lachs Space Law Moot Court Competition by financing the winning team of the Asia Pacific Regional to attend the World Finals, and its contribution to the organisation of the 2013 Asia Pacific Regional Round in Tokyo.

8.4.5 Diederiks-Verschoor Award for Best Paper by a Young Author

To be announced

9 Exhibition

9.1 General Information

Stand Set-up: Delivery of Exhibits and Stand Construction

- Thursday, October 8 12:00 - 20:00
- Friday, October 9 07:00 - 18:00
- Saturday, October 10 08:00 - 18:00
- Sunday, October 11 08:00 - 18:00

Ribbon-cutting ceremony and VIP Exhibition Tour:

- Monday, October 12 11:15 - 12:00

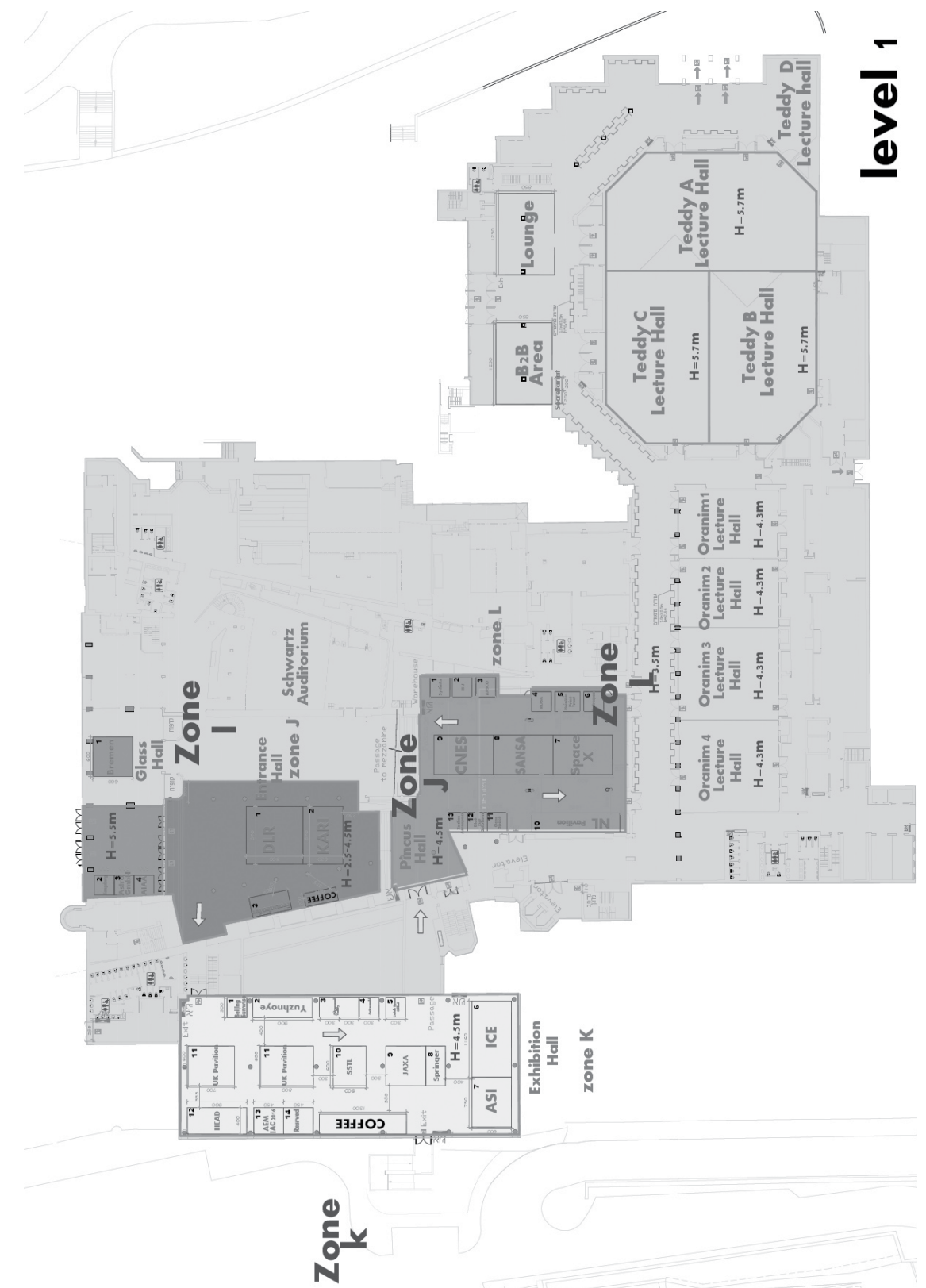
Exhibition Hours:

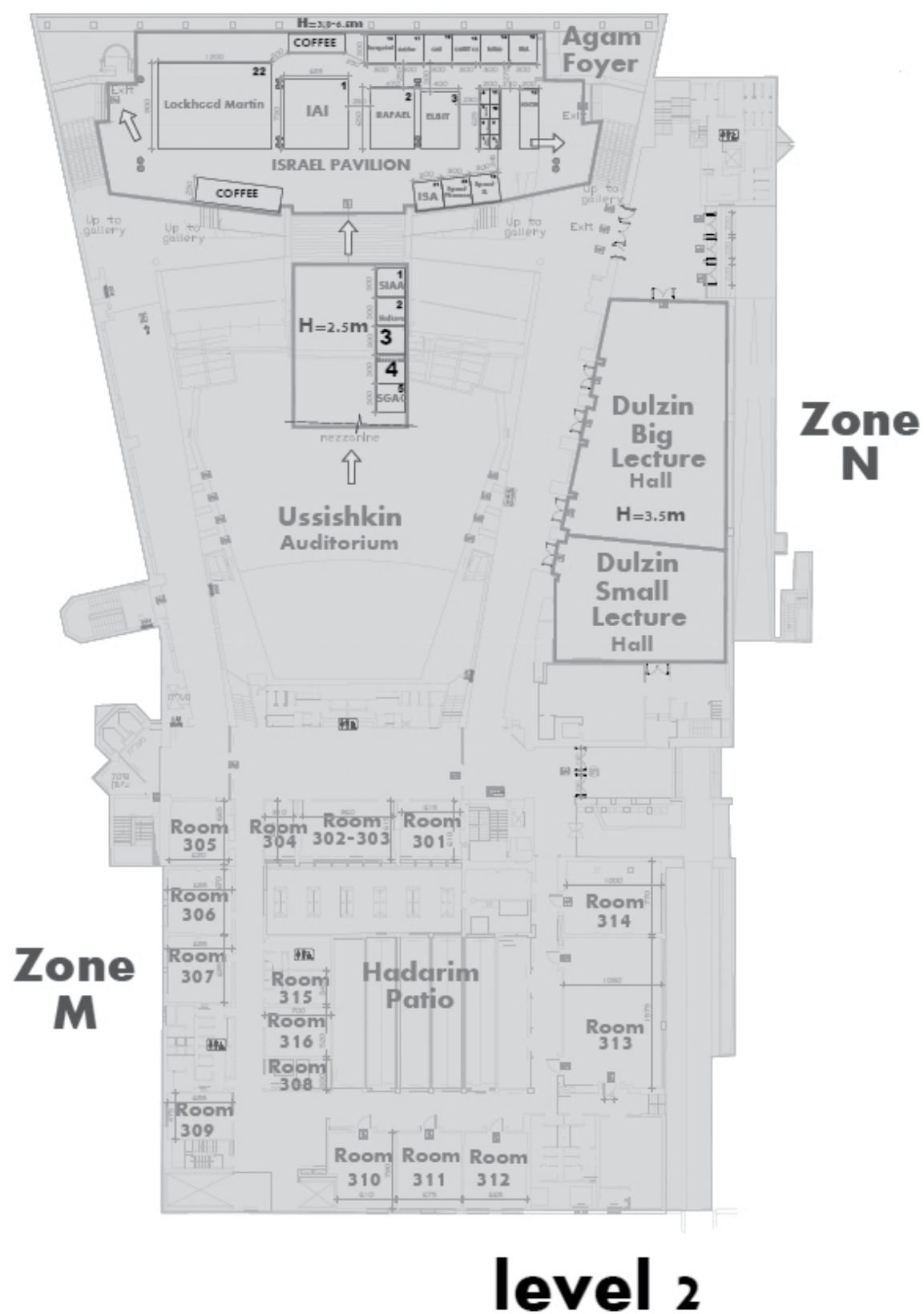
- Monday, October 12 12:00 - 18:00
- Tuesday, October 13 09:00 - 18:00
- Wednesday, October 14 09:00 - 18:00
- Thursday, October 15 09:00 - 18:00
- Friday, October 16 09:00 - 14:00

Stand Dismantling:

- Friday, October 16 – 14:00 - 22:00
- Saturday, October 17 – 08:00 - 18:00

9.2 Exhibition Area Layout





9.3 Exhibitors in alphabetical order

Exhibitors	Booth	Exhibitors	Booth
AEM - IAC 2016	K - 13	Ayecka Communication Systems, Ltd.	N - 5
AIAA	I - 4	CMI Electronic Industries Trading Ltd	N - 16
Airbus Defence and Space	Sponsor	Elbit Systems Electro-Optics - Elop Ltd.	N - 3
APSCO	L - 3	HSL - Herzliya Science Laboratory	N - 13
ASI-Italian Space Agency	K - 7	IAI - Israel Aerospace Industries	N - 1
Astro- und Feinwerktechnik Adlershof GmbH	I - 3	ImageSat International	N - 18
Astroscale PTE. LTD.	K - 4	ISERD - The Israel-Europe R&D Directorate	N - 14
Austrospace	L - 6	Israel Space Agency	N - 21
Beijing Sunwise Space Technology Ltd.	K - 1	New Rocket Ltd.	N - 8
Blue Dot Solutions Sp. z o.o.	L - 12	NSLComm Ltd	N - 7
Boeing Space Exploration	Sponsor	Orbit CS	N - 15
Bremen Invest Pavilion	I - 1	Rafael Advanced Defense Systems Ltd.	N - 2
Airbus Defence and Space GmbH	I - 1	Ramon Chips, Ltd.	N - 4
AVIABELT Bremen e. V.	I - 1	Space IL	N - 19
Bremen Invest	I - 1	Space Pharma R&D	N - 20
Center of Applied Space Technology and Microgravity (ZARM)	I - 1	Teva Pharmaceutical Industries Ltd	Sponsor
DSI Informationstechnik GmbH	I - 1	ISU - International Space University	L - 2
Enterprise Europe Network Bremen	I - 1	JAXA - Japan Aerospace Exploration Agency	K - 9
Eurokot Launch Services GmbH	I - 1	KARI - Korea Aerospace Research Institute	J - 2
HE Space Operations GmbH	I - 1	Kongsberg Seatex AS	I - 2
OHB SE - European Space Company	I - 1	Lockheed Martin	N - 22
Robotics Innovation Center, DFKI GmbH	I - 1	Romanian Space Agency	L - 4
China HEAD Aerospace Technology Co.	K - 12	South African Pavilion	L - 8
CNES	L - 9	CubeSpace	L - 8
Czech Space Office	K - 5	Denel Spaceteq	L - 8
DLR - German Aerospace Center	J - 1	F'SATI - French South African Institute of Technology	L - 8
Excalibur Almaz Limited	L - 5	NewSpace Systems	L - 8
Fraunhofer Space Alliance	J - 3	SCS Aerospace Group	L - 8
GomSpace Aps	L - 11	The South African Council for Space Affairs	L - 8
ICE - Italian Trade Agency Pavilion	K - 6	The South African National Space Agency - SANSA	L - 8
CBL Electronics S.r.l.	K - 6	SGAC	M - 3
D-Orbit S.r.l.	K - 6	SIAA - Space Industry Association	M - 1
DTM Technologies S.r.l.	K - 6	Skolkovo Institute of Science and Technology	M - 2
G.A.U.S.S.	K - 6	Space X	L - 7
ICE-Italian Trade Agency	K - 6	Space Foundation	Sponsor
Merletti Aerospace	K - 6	Springer	K - 8
Planetek Italia S.r.l.	K - 6	SSL	Sponsor
Sitael S.p.A.	K - 6	Surrey Satellite Technology	K - 10
Space Engineering S.p.A.	K - 6	SYRILNKS	L - 1
Techno System Developments S.r.l.	K - 6	The NL Pavilion - The Netherlands	L - 10
Technosprings Italia S.r.l.	K - 6	ATG Europe	L - 10
Telematic Solutions S.r.l.	K - 6	Airbus Defence and Space Netherlands B.V.	L - 10
Israel Pavilion	N	Hyperion Technologies B.V.	L - 10
Acktar, Ltd.	N - 17	ISIS	L - 10
Arazim Ltd.	N - 12		

Exhibitors	Booth	Exhibitors	Booth
Moog Bradford	L - 10	Semelab	K - 11
NLR - Netherlands Aerospace Centre	L - 10	Seradata	K - 11
NSO	L - 10	STAR-Dundee	K - 11
SpaceNed	L - 10	The British Interplanetary Society (BIS)	K - 11
TNO	L - 10	The UK Space Agency	K - 11
TU Delft Space Institute	L - 10	Universal Space Interface Standard (USIS)	K - 11
Utwente	L - 10	The Robert A. and Virginia Heinlein Prize Trust	L - 5
THE UK PAVILION	K - 11	Tyvak Nano-Satellite Systems, Inc	Sponsor
Clyde Space	K - 11	Yuzhnoye State Design Office	K - 2
QinetiQ Space nv	K - 11	Zodiac Aerospace / Ormic Components Ltd.	L - 13
RAL Space	K - 11		

9.4 Exhibitor and Sponsor List

Booth: I - 1	BREMEN INVEST PAVILION <i>Participating Organisations</i>
I - 1	<p>Airbus Defence and Space GmbH <i>On-site contact: Ludger Fröbel, Space Technology Innovation (TSOEI), Head of Technology Partnerships & Fundraising</i> <i>Contact for Follow up: Siegfried Monser</i></p> <p>Tel: +49(0)421 539 5815, Email: Siegfried.monser@airbus.com Web: www.airbusdefenceandspace.com</p> <p>Airbus Defence and Space is a division of the Airbus Group and is the second largest space company worldwide. It employs some 38,000 employees generating revenues of approximately €14 billion per year. The company develops and engineers cutting-edge products and solutions for both institutional and commercial markets.</p>
I - 1	<p>AVIABELT Bremen e. V. <i>Contact person: Mona Ellermann</i></p> <p>Tel: mona.ellermann@aviabelt.de Email: mona.ellermann@aviabelt.de Web: www.aviabelt.de</p> <p>AVIABELT Bremen e. V. is a network of dedicated companies and application-oriented research institutes in the metropolitan region of Bremen-Oldenburg. The network is organised as an association based in Bremen.</p>
I - 1	<p>Bremen Invest <i>Contact person: Andreas Gerber</i></p> <p>Tel: gerber@bremen-invest.com Email: gerber@bremen-invest.com Web:</p> <p>The Bremen Invest office offers a single point of contact for international companies, entrepreneurs and institutions to find growth opportunities in Bremen, Germany and throughout Europe. If you are a company looking for business expansion in Germany, let Bremen Invest help. Bremen is the Key to Germany, and the rest of Europe. In addition to our head office you will find Bremen Invest offices in Atlanta, Izmir and Shanghai.</p>

I - 1	<p>Center of Applied Space Technology and Microgravity (ZARM) <i>Contact person: Dr.-Ing. Thorben Könemann</i></p> <p>Mobile: +49 (0)175 227 9376 Email: thorben.koenemann@zarm.uni-bremen.de, Web:</p> <p>The Center of Applied Space Technology and Microgravity is a research institute at the University of Bremen focusing on the scientific investigation of phenomena under the condition of weightlessness and questions related to space technology. Its main laboratory is the Bremen Drop Tower.</p>
I - 1	<p>DSI Informationstechnik GmbH <i>Contact person: Elias Hashem</i></p> <p>Tel: hashem@dsi-it.de Email: hashem@dsi-it.de Web:</p> <p>DSI Informationstechnik GmbH has been developing airborne and space-based designs since 1997 and currently employs 45 engineers for electronics and software development as well as project management and product assurance. The fields of activity are dedicated to the engineering and development of solutions for computers, information technologies, control systems and advanced communication systems.</p>
I - 1	<p>Enterprise Europe Network Bremen <i>On-site contact: Dr. Barbara Cembella</i> <i>Contact for Follow up: Ellen Horstmann</i></p> <p>Email: barbara.cembella@wfb-bremen.de Email: ellen.horstmann@wfb-bremen.de Web:</p> <p>Enterprise Europe Network is supporting small and medium companies in seizing their business opportunities in Europe and beyond. Bremeninvest is host organization to the Enterprise Europe Network contact point Bremen, facilitating trade promotion and innovation activities of enterprises from Bremen. During IAC, Enterprise Europe Network Bremen serves as a co-organizer for the IAC 2015 B2B Matchmaking Event.</p>
I - 1	<p>Eurockot Launch Services GmbH <i>On-site contact: Peter Freeborn</i></p> <p>Mobile: +49 (0)171 443 95 23 Email:</p> <p>Eurockot Launch Services GmbH is the Bremen, Germany, based joint venture of Airbus Safran Launches and Khronichev Space Center and performs launches of climate research, remote sensing and science satellites into Low Earth Orbits (LEO) for institutional and commercial satellite operators.</p>
I - 1	<p>HE Space Operations GmbH <i>Contact person: Claudia Kessler</i></p> <p>Tel: ckessler@hespace.com Email: ckessler@hespace.com Web:</p> <p>At HE Space, we are passionate about space and passionate about people! We specialize in personnel recruitment with an exclusive focus on the space sector. This makes us one of a kind, since no other engineering services company combines the exclusive focus on space with the international network, which we have built over 30 years.</p>
I - 1	<p>OHb SE - European Space Company <i>On-site contact: Dr. Fritz Merkle, Executive Board Member</i> <i>Contact for Follow up: Martin Stade</i></p> <p>Email: fritz.merkle@ohb.de Email: martin.stade@ohb.de Web:</p> <p>Family managed and domiciled in Bremen, OHb SE (ISIN: DE0005936124, Prime Standard) is Germany's first listed space company. It employs some 2,200 employees generating total revenues of approximately € 800 million per year. Two business units offer international customers sophisticated space systems and satellite constellations.</p>

I - 1 Robotics Innovation Center, DFKI GmbH



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Email: Swantje.Schmidt@dfki.de
Web: www.dfki.de/robotics

The Robotics Innovation Center (RIC), headed by Prof. Dr. Frank Kirchner, is a research department of the German Research Center for Artificial Intelligence (DFKI GmbH).

The scope of Space Robotics – one of several main application areas of the RIC – deals with the development of intelligent robots for complex extraterrestrial exploration.

Booth: I - 2 Kongsberg Seatex AS



KONGSBERG

Contact person: Stig Erik Christiansen
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Web: http://www.km.kongsberg.com/seatex

Kongsberg Seatex AS is a leading international marine electronics manufacturer specializing in the development and production of precision positioning and motion sensing systems. We provide quality products and solutions for safe navigation and operations at sea in the commercial offshore, maritime, hydrographics and defence industries, also including AIS payload solutions.

Booth: I - 3 Astro- und Feinwerktechnik Adlershof GmbH



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Email: sales@astrofein.com
Web: www.astrofein.com

Small satellite buses (up to 350 kg) and payloads/components for small satellites (1 to 400 kg) are the core business activities of the company. We are specialized in attitude control components, complete AOC-subsystems, power subsystem components, structures & mechanism and scientific & optical payloads. Additional to that we offer ground support equipment and AOCS test beds.

Booth: I - 4 American Institute of Aeronautics and Astronautics (AIAA)



Contact person: Megan Scheidt,
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Web: www.aiaa.org

The American Institute of Aeronautics and Astronautics (AIAA) is more than 30,000 engineers and scientists from 88 countries dedicated to the global aerospace profession. AIAA convenes five yearly forums; publishes books, technical journals, and Aerospace America; hosts a collection of 140,000 technical papers; develops and maintains standards; honors and celebrates achievement; and advocates on policy issues. AIAA serves aerospace professionals around the world—who are shaping the future of aerospace—by providing the tools, insights, and collaborative exchanges to advance the state of the art in engineering and science for aviation, space, and defense. Visit www.aiaa.org.

Booth: J - 1 DLR - German Aerospace Center



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DLR is the national aeronautics and space research centre of the Federal Republic of Germany. Its extensive research and development work in aeronautics, space, energy, transport and security is integrated into national and international cooperative ventures. In addition to its own research, as Germany's space agency, DLR has been given responsibility by the federal government for the planning and implementation of the German space programme. DLR is also the umbrella organisation for the nation's largest project management agency.

DLR has approximately 8000 employees at 16 locations in Germany: Cologne (headquarters), Augsburg, Berlin, Bonn, Braunschweig, Bremen, Goettingen, Hamburg, Juelich, Lampoldshausen, Neustrelitz, Oberpfaffenhofen, Stade, Stuttgart, Trauen, and Weilheim. DLR also has offices in Brussels, Paris, Tokyo and Washington D.C.

Booth: J - 2 KARI - Korea Aerospace Research Institute



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KARI is contribution to the sound development of the national economy improving the quality of people's lives through the development of aerospace technology, and realizing the dream of sky and space of the Republic Korea.

Booth: J - 3 Fraunhofer Space Alliance



On-site and follow-up contact person:
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Bringing together 15 Fraunhofer-Institutes, the Fraunhofer Space Alliance conducts applied research in the field of industrial space technology. Fraunhofer acts as systems provider, developing a wide range of top-quality components, integrating them into an overall system and delivering that system to the customer.

Booth: K - 1 Beijing Sunwise Space Technology Ltd.



On-site contact: Mrs. Wang Hong
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Web: www.sunwisospace.com

Sunwise space technology Ltd. (Sunwise Space) is a wholly owned subsidiary of Beijing Institute of Control Engineering. With aerospace background, Sunwise Space adheres to integrating aerospace and commercial application. Sunwise Space, relying on advanced aerospace technology and brand influence, has established the self R&D platform in the fields of testing product R&D, industry and aerospace testing system integration, aerospace product testing, robot control and wind power. Sunwise Space – the leading enterprise in aerospace testing and control.

Booth: K - 2 Yuzhnoye State Design Office



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Email: yuzhnoye.sdo@gmail.com
Web: http://www.yuzhnoye.com/en/home/

Yuzhnoye SDO is a well-known and famous scientific and design organization for development of space rocketry. It creates rocket complexes, launch vehicles, spacecraft of various purposes and rocket engines. It provides commercial services of spacecraft injection. Yuzhnoye SDO develops new materials and promising technologies.

Booth: K - 4 Astroscale PTE. LTD.



On-site and follow-up contact person:
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ASTROSCALE is a Singapore-based private space company that was founded in 2013 with the objective of developing innovative solutions against the growing number of space debris. The company's mission is to actively contribute to the sustainable use of the space environment by crafting scalable and cost effective on-orbit technologies, and to safely remove the most threatening pieces of debris. It is also incubating technologies to collect essential data of small-size debris that cannot be tracked using existing technologies. With its global headquarter in Singapore and a brand new engineering lab in Tokyo, the company is actively preparing for its first capabilities demonstration planned for 2016.

Booth: K - 5 Czech Space Office



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Czech Space Office (CSO) is a private non-profit organization that, since its inception in 2003, has been seeking to develop space activities in the Czech Republic. CSO provides consultations and networking, promotes Czech space organizations, publishes analysis and organizes seminars. CSO also cooperates with XCOR Aerospace and offers flights with Lynx spacecraft.

Booth: K - 6 ICE - ITALIAN TRADE AGENCY PAVILION



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ICE-Italian Trade Agency is the Governmental organization entrusted with the promotion of trade, business opportunities and industrial cooperation between Italian and foreign companies, as well as research centers and universities. Headquartered in Rome, it operates through over 70 branch offices worldwide. It supports the internationalization of Italian firms, ensuring their presence and consolidation in foreign markets. Its activities are financed by the Italian Ministry for Economic Development and encompass services such as information on business opportunities, advice on marketing planning, promotion, multilateral cooperation and training, within the framework of the Ministry of Foreign Affairs and International Cooperation and its Diplomatic Missions.

Following an agreement signed with A.I.A.D. (Italian Industries Federation for Aerospace, Defense and Security), a dedicated Desk is now active at the Headquarters in Rome, as focal point for aerospace companies.

In addition to its participation at IAC 2015 in Jerusalem, the Italian Trade Agency will be present with Italian aerospace enterprises, at the following shows:

- AEROMART (Munich, Germany, 03/11 - 05/11 - 2015)
- EXPODEFENSA (Bogotá, Colombia, 30/11 - 02/12 - 2015)
- FIDAE (Santiago, Chile, 29/03 - 03/04 - 2016)
- AAD - AFRICA AEROSPACE AND DEFENSE (Centurion, Johannesburg, South Africa, 14/09 - 18/09 - 2016)
- IAC 2016- International Astronautical Congress (Guadalajara, Mexico, 26/09 -30/09 - 2016)

For more information visit www.italtrade.com or email to tecnologia@ice.it
<https://www.facebook.com/pages/ICE-Tel-Aviv/435413449898395>

Participating Organisations

K - 6 CBL Electronics S.r.l.



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CBL Electronics offers customized technological solutions for leading companies in aerospace, avionics and defense, granting valid and continuous assistance from design to manufacturing. Our team is highly specialized in test systems development, semiconductors testing and Hardware - Software design. Intuition, innovation and reliability are the reference values in our work.

K - 6 D-Orbit S.r.l.



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D-Orbit's vision is to become the industry leader in innovative satellite platforms and space debris mitigation solutions. Our mission is to prevent the increasing concentration of uncontrolled objects in space, promoting a sustainable and profitable future for the space industry by providing a clean and safe environment for the future space missions. D-Orbit is a European and U.S. based space technology company, with a mission to prevent the systematic increase in concentration of uncontrolled space objects, promoting a sustainable and profitable future for the Space Industry. Our innovative D3 technology enables operators to quickly and safely dispose of end-of-mission satellites and launcher stages.

K - 6 DTM Technologies S.r.l.



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DTM since 1994 offers competitive "turnkey" solutions in the design (CAD, structural, thermal, CFD) manufacture and testing of mechanical systems for ISS, satellites, launchers and Space vehicles. DTM is specialised in the design and qualification of composite mechanical systems and is also involved in the automotive and biomedical fields. Facilities include CAD and FEM software, autoclave, tools, acquisition devices, testing equipments for static and dynamic tests, thermal vacuum chamber, ISO5 clean room. DTM quality management system is EN 9100 (AS 9100) certified.

K - 6 G.A.U.S.S.



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G.A.U.S.S. activities include design, realization and integration of microsattellites, subsystems and payloads and all the ground segment operations. The main project of the Company is called UniSat which led to the launch of 8 satellites. Recently, UniSat became a platform, thus letting G.A.U.S.S. being a small satellites launch provider.

K - 6 Merletti Aerospace



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Merletti Aerospace. Manufacturing and assembly of components and sub-assy for aerospace industry and verticalized management of customer orders. Design and manufacturing of tools for machining of mechanical parts.

K - 6 Planetek Italia S.r.l.



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Planetek Italia is an Italian SME with a sound experience in the design and implementation of Software for Space and Ground Systems for Earth Observation and Space Exploration missions. Planetek Italia develops software for on board payload data processing, Instrument EGSE, ground segment radar and optical data processors.

K - 6 Sitael S.p.A.



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Sitael is able to cover all the processes needed for the design, development and production of Small Satellites for Earth observation, science and telecommunications, advanced propulsion systems for station keeping, orbit raising and planetary exploration, innovative payloads, platform and payload avionics from equipment down to complex component level.

K - 6 Space Engineering S.p.A.



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Space Engineering is a leading Italian Space Industry with outstanding expertise in R&D, engineering, simulation, prototyping, integration, testing, small-scale production for Space & Ground segments. Space Engineering is part of Airbus Defence and Space, Space Systems Programs, division ENS. A reliable partner for space agencies, satellite operators and principal industries, proven over 25 years of experience, contributing to several major national and international programs.

K - 6



Techno System Developments S.r.l.

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Techno System Developments is a private SME developing on board and ground electronic equipment for space with specific focus on real time processing and small platform applications. The main products are Electronics for Optical Payloads and Video Systems, Spacecraft Avionics, Control and Data Management Systems for Scientific Payloads & Instruments, EGSE & SCOE. TSD long track record includes flight proven applications for Satellites, Capsules, ISS, Sounding Rockets, UAV/USV, Stratospheric Balloon.

K - 6



Technosprings Italia S.r.l.

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Technosprings is specialized in the production of high quality springs, microsprings, release systems (pin-pullers) and findings according to drawings or samples; springs made with stainless steel, carbon steel, titanium, Inconel, and shape memory. Wire diameter from 0,06 to 20 mm Production of Shape Memory Alloys springs, pin-pullers and actuators for aerospace applications. Organization and certification in according to AS/EN 9100 specifications.

K - 6



Telematic Solutions S.r.l.

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Telematic Solutions is an Italian company specialized in EPC (Engineering, Procurement and Construction) projects, maintenance and exploitation services within the space sector, specifically in the ground segment and telemetry domains. The company has a continued and valued presence in major European space programs, and in many other projects in low current & security, fluids, TT&C at the Guyana Space Center (CSG) where the company has a permanent work force through Telematic Solutions Guyane.

Booth: K - 7



ASI-Italian Space Agency

On-site and follow-up contact persons: *Fabrizio Zucchini, Stefania Arena, Donatella Marucci*

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The Italian Space Agency was founded in 1988. Its purpose was to coordinate all of Italy's efforts and investments in the space sector that had begun in the 1960s. Within over twenty years' time, ASI became one of the most significant players in the world in space science, satellite technologies and the development of mobile systems for exploring the Universe. Today, ASI has a key role at the European level where Italy is the third contributor country to the European Space Agency. It also is involved at the international level. For example, ASI has a close working relationship with NASA, which has led to its participation in many of the most interesting scientific missions of recent years. One of the most fascinating projects has been the construction and activities of the International Space Station where Italian astronauts are by now at home.

Booth: K - 8



Springer

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Web: www.springer.com

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Booth: K - 9



JAXA - Japan Aerospace Exploration Agency

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In 2003, JAXA was launched through the merger of three aerospace-related institutions. Since then, we have marked numerous achievements, from rocket and satellite launches to the involvement in the ISS and space science research. In addition, we are achieving world firsts symbolized by the Epsilon Launch Vehicle and the Asteroid Explorer "Hayabusa 2." We will continue to improve people's daily lives and lead the world to prosperity through aerospace technology.

Booth: K - 10



Surrey Satellite Technology

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Web: www.sstl.co.uk

Surrey Satellite Technology Limited was formed in 1985 as a spin-off University company. Its innovative approach to satellite engineering has resulted in worldwide success and to date the company has launched 47 satellites. Based in Guildford, UK, SSTL employs 500 staff and is an independent company within the Airbus Group.

Booth: K - 11

THE UK PAVILION

Participating Organisations

K - 11



The British Interplanetary Society (BIS)

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Web: www.bis-space.com

The British Interplanetary Society (BIS) is Britain's leading think tank on space development. Founded in 1933, the world's longest established organisation devoted solely to supporting and promoting the exploration and use of space for the benefit of humanity, by connecting people to create, education and inspire, and advance knowledge in all aspects of astronautics.

K - 11



STAR-Dundee

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Email: enquiries@star-dundee.com
Follow-up contact person: *Stuart Mills*
Web: https://www.star-dundee.com/

STAR-Dundee is a leading supplier of spacecraft on-board data-handling technology, delivering a comprehensive range of SpaceWire and SpaceFibre test and development equipment, chip designs and IP cores to the international aerospace industry. SpaceWire is the de facto standard for spacecraft on-board data handling applications; SpaceFibre is a new, multi-Gbits/s technology.

K - 11



Seradata

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Seradata produces SpaceTrak3, a newly-released version of the renowned online satellite and launch database which is available via annual subscription. SpaceTrak3 is used by space agencies, manufacturers, operators and insurers worldwide. Seradata, with Commercial Space Technologies, also publishes the World Launch Review which is available as an annual printed volume.

K - 11



The UK Space Agency

On-site contact person: *Laura Bocarro*

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Email: correspondence@ukspaceagency.bis.gsi.gov.uk
Web: www.gov.uk/ukspaceagency

The UK Space Agency is at the heart of UK efforts to explore and exploit space, space-based applications and technology and support our academic and industrial communities. We lead the UK's civil space programme to win sustainable economic growth, secure new scientific knowledge and provide benefits to all citizens.

K - 11



Semelab

Contact person: Rob Coleman **Mobile:** +44 7836 501749
Email: Robert.coleman@semelab-tt.com
Web:

Founded in 1974 Semelab is a 100% subsidiary company of TTe PLC. Semelab undertake full design of semiconductors manufacture and environmental test operating via our class 10,000 and 100,000 clean rooms. Semelab having operated in the Space market for over 25 years is now regarded as one of Europe's leading semiconductor manufacturers.

K - 11



Clyde Space

Contact person: Jenni Doonan – Head of Business Development **Tel:** +44 7973419989
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Celebrating our 10th anniversary Clyde Space stands as a world-leader in the CubeSat sector, with expertise ranging from bespoke & Off-The-Shelf subsystems for SmallSats and CubeSats, to complete Nanosatellite mission design and spacecraft integration: throughout 2015 and 2016 over thirty CubeSats will be constructed at our headquarters in Glasgow, UK.

K - 11



Universal Space Interface Standard (USIS)

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The USIS Association is an organisation develop and control a Universal Space Interface Standard (USIS) that can undertake all the system to system connection roles for both human and robotic spacecraft. The Association is planned to be owned by corporate bodies who would be stakeholders in the standard.

K - 11



RAL Space

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Web:

RAL Space, is based at the Science and Technology Facilities Council's Rutherford Appleton Laboratory. RAL Space work alongside the UK Space Agency and undertake world-leading space research and technology development, provide space test and ground-based facilities, design and build instruments, analyse and process data and operate ground-station facilities.

K - 11



QinetiQ Space nv

On-site and follow-up contact person: Frank Preud'homme **Tel:** +32 (0)3 250 14 14
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Web: www.QinetiQ.be

QINETIQ Space, the leading provider of Small space Systems, has more than 30 years of space record in developing complex space systems. We provide advanced small satellites, scientific instruments and facilities for microgravity research, advanced subsystems such as on-board computers, docking system, electrical propulsion and ground operations.

Booth: K - 12



China HEAD Aerospace Technology Co.

Contact person: Roger Hsu **Tel:** +86 10 8289 0174 ext. 8017
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Web: http://www.cgwic.com/

China HEAD Aerospace Technology Co. (HEAD) is the leading space company engaged in promote the international cooperation between China and worldwide.

The core businesses of HEAD are space products import, exports of Chinese Space Products, Technology Cooperation, we also develop our micro satellites and so on.

Many years of operation in space area, we know the best way for space companies outside China to enter local market. HEAD has established a business bridge proved to be effective, which enable us to be a shortcut to access China space market, a surprising company you can find to support procuring Chinese space products and services for your space missions, a reliable partner of your business development with China.

Booth: K - 13



AEM - IAC 2016

Contact person: **Tel:**
Email:
Web: www.aem.gob.mx

MEXICAN SPACE AGENCY

The Mexican Space Agency (AEM) is a public decentralized organism, with legal personality, own budget, with technical and management autonomy in order to fulfill its attributions, objectives and goals. It is sectorized and coordinated by the Ministry of Communications and Transports (SCT).

To transform Mexico into a country with scientific activities and technological developments of international-class, both focused in the attention of social needs; articulating industrialization programs, advanced technologies and services that contribute to increase the country competitiveness. Additional information about AEM can be obtained by visiting the company website at www.aem.gob.mx

Booth: L - 1



Syrlinks

On-site contacts: Miguel Fernandez & Gwenaël Guillois **Tel:** 06-86-56-00-68
Email:
Web: http://www.syrlinks.com/

Syrlinks is an advanced and cost-effective Radio-communication manufacturer, for small Satellites (Mini, Micro, Cube/ Nano) with 20 years experience. Syrlinks offers High Data Rate transmitters, TT&C and ISL transponders, GNSS receivers, OCXO, focused on reliability, low consumption, and miniaturization.

A pioneer in qualified active COTS use, more than 50 Flight Models that have cumulated more than 190 years in orbit, with 100% reliability. Some well-known missions and platforms: Rosetta, Deep- Impact, Myriade series (CNES-French Space Agency), Proba-V (ESA-European Space Agency).

Our portfolio is mainly focused on 3 product lines :

- **Mini Satellite** (ESA Class 3, NASA Level II), for missions lasting **7-10 years in orbit**. (ECSS components)
- **Microsatellite**, for missions up to **5 years in orbit**.
- **Cube/Nanosatellite**, for missions up to **2 years in orbit**. Ultra miniature and High End Transmitters & Transceivers.

Micro & Cube/Nanosatellite product line are mainly based on mastery of COTS, and stressing tests on Qualified Models.

Booth: L - 2



ISU - International Space University

On-site and follow-up contact: Ms Geraldine Moser **Tel:** +33 3 88 65 54 30
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Web: www.isunet.edu

The International Space University, founded in 1987 is the world's premier international space education institution. ISU offers the Master of Space Studies program at its Central Campus in Strasbourg. Since 1988, ISU has conducted the nine-week Space Studies Program at different host institutions. Since its founding, more than 4,000 students from over 100 countries have completed ISU programs. www.isunet.edu

Booth: L - 3



APSCO

On-site and follow-up contact: Ms. GAO Yoyo **Tel:** 86 10 63702677 ext.610
– Secretary of External Relations and Legal Affairs **Mobile:** 86 13801215918
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The Asia-Pacific Space Cooperation Organization (APSCO), as a Regional Organization for inter-governmental cooperation aims to enhance the multilateral cooperation in space science, space technology, and its applications; benefits to sustainable development and economic aspects of Member States with peaceful uses of outer space.

Booth: L - 4



Romanian Space Agency

Contact person: Oana Sandu – ROSA Communication and PR Officer **Tel:**
Email:
Web: www.rosa.ro

Established in 1991, the Romanian Space Agency (ROSA) coordinates Romania's national and international space activities and represents the Government in international space cooperation programmes. ROSA coordinates the National Space Program and its implementation through space research and applications programs. The Agency supports Romania's participation to ESA programmes, as ESA's 19th Member State.

Booth: L - 5 The Robert A. and Virginia Heinlein Prize Trust



Web: <http://www.heinleinprize.com>

The Heinlein Prize® honors the memory of Robert A. Heinlein™, renowned American author. The purpose of the Heinlein Prize is to encourage and reward progress in commercial space activities that advances Robert and his wife Virginia's dream of humanity's future in space. Efforts include: the Heinlein Prize for Accomplishments in Commercial Space Activities, the Microgravity Research Competition, the Heinlein Commercial Space Activity Prize, the "Flight Into the Future" international contests, the Have Space Suit — Will Travel educational program, and the online Heinlein Archives.

L - 5 Excalibur Almaz Limited



On-site contact person: Gilly Tsuker
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Excalibur Almaz Limited (EA) is an international commercial space transportation company based in the Isle of Man. Its goal is the affordable and reliable transportation of humans and cargo to Low Earth Orbit, libration point, the Moon and beyond.

Booth: L - 6 Austrospace



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AUSTROSPACE, the association of Austrian space industries and research institutions, is a non-profit organization focusing on:

- Comprehensive information about Austrian space activities
- Representation of common interests of Austrian suppliers and users of space technologies vis-à-vis Austrian authorities and international organizations

Booth: L - 7 SpaceX



On-site and follow-up contact person: Carissa Bailey – Conferences & Events Associate
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SpaceX designs, manufactures, and launches the world's most advanced rockets and spacecraft. The company was founded in 2002 by Elon Musk to revolutionize space transportation, with the ultimate goal of enabling people to live on other planets. Today, SpaceX is advancing the boundaries of space technology through its Falcon launch vehicles and Dragon spacecraft.

Booth: L - 8 SOUTH AFRICAN PAVILION

Participating Organisations

L - 8 CubeSpace



Contact person:
Tel:
Email:
Web:

CubeSpace is a South African venture that provides nano-satellite components and services to the international market. Our area of focus is the attitude determination and control subsystem (ADCS) of a satellite. Our mission is to provide modular ADCS components with class-leading performance that integrate seamlessly into any CubeSat. We provide a personalised service through which we customise solutions to fit our clients' specific ADCS needs.

L - 8 Denel Spaceteq



Contact person:
Tel:
Email:
Web:

Spaceteq, a business unit in Denel Dynamics since July 2013 is using the intellectual property from DST, the ex-Sunspace people, and the heritage from work previously done by Houwteq, as a solid foundation on which to develop new generation satellites for the South African National Space Agency, SANSA and International Clients.

L - 8 F'SATI - French South African Institute of Technology



Contact person:
Email: VanZyll@cput.ac.za
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F'SATI (French South African Institute of Technology) is a French South African graduate institute for teaching, research and development, located in South Africa, that contributes to the creation of knowledge and transfer of technology in South Africa.

L - 8 NewSpace Systems



Contact person:
Tel:
Email:
Web:

A South African company, NewSpace Systems specialises in the development and supply of small satellite components. Current components on offer include; Reaction Wheel, Fine Sun Sensor, Torque Rods, GPS Receiver, and a Magnetometer. Currently under development is a Stellar Gyro and a Patch Antenna. Additionally, NewSpace is also the African representative for the wider SSBV product offering.

L - 8 SCS Aerospace Group



Contact person:
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Founded and directed by experienced space professionals, SCS Aerospace Group is a South African entity that comprises of eight subsidiary companies. The satellite engineering function supports the development and manufacturing of high performance satellites and ground stations, with functions including processing chains and data distribution systems. The applications team consists of regulatory, geospatial, telecoms and socioeconomic development specialists to offer our clients a complete service package in support of satellite programmes and other ICT infrastructure. Underlying all of this, the Space Engineering Academy provides training that spans space engineering (missions, satellites, payloads and components) to commercial GIS-applications and technological applications for social development.

L - 8 The South African Council for Space Affairs



Contact person:
Tel:
Email:
Web:

The Space Affairs Act No 84 of 1993 provides the legal framework for matters pertaining to outer space in South Africa. The South African Council for Space Affairs is established under the authority of the Minister of Trade and Industry to exercise regulatory functions and advise the Minister on all space-related matters.

L - 8 The South African National Space Agency - SANSA



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The South African National Space Agency provides for the promotion and use of space and cooperation in space-related activities, foster research in space science, advance scientific engineering through human capital and support the creation of an environment conducive to industrial development in space technologies within the framework of national government policy. The intent is to converge and optimise resources and maximise the benefits of space services and applications to society.

Booth: L - 9 CNES



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As a Public establishment, the CNES proposes France's space policy to the public authorities and implements it within five key strategic areas : Ariane, the Sciences, Observation, Telecommunications and Defence.

Etablissement public, le CNES propose aux pouvoirs publics la politique spatiale de la France et la met en oeuvre, dans cinq grands domaines stratégiques : Ariane, les Sciences, l'Observation, les Télécommunications et la Défense.

Booth: L - 10 THE NL PAVILION - THE NETHERLANDS

Participating Organisations

L - 10 ATG Europe



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ATG Projects provides high-end mechanical engineering services to high-tech industries. We are involved in R&D programs focusing on composites and their application in the aerospace industry. By combining a research level expertise with a down-to-earth problem solving approach, we offer innovative solutions to complex issues on time, within budget.

L - 10 Airbus Defence and Space Netherlands B.V.



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Airbus Defence and Space Netherlands B.V. is supplier of high-tech products and services for the international aerospace industry. Since its founding in 1968, the company has build-up expertise in space technology in areas such as Earth observation, telecommunications and science. The portfolio includes solar arrays, launcher structures and instruments & systems.

L - 10 Hyperion Technologies B.V.



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Hyperion Technologies develops best-in-class nano-satellite components, enabling satellite builders to construct next generation CubeSats and small satellites. The components of Hyperion Technologies are small, use little power due to their very high efficiency and are robust. One of the assets offered by Hyperion's products over competing products is an increase in expected lifetime, as all products are designed and verified to be radiation tolerant. This gives the highest component lifetime and gives satellite builders an increased level of confidence in their mission.

The product portfolio of Hyperion Technologies includes amongst others star trackers and highly integrated attitude determination and control systems. Hyperion also offers custom design services for satellite components, and testing (thermal vacuum, vibration and radiation), in cooperation with our partners. One of the achievements of Hyperion Technologies is an interface and data acquisition unit, currently operating on the ISS.

L - 10 ISIS – Innovative Solutions In Space BV



Contact person: Jeroen Rotteveel
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Web: www.isispace.nl
 www.isilaunch.com
 www.cubesatshop.com

ISIS – Innovative Solutions In Space is a vertically integrated small satellite company from Delft with 45 engineers. The company is focused on satellites in the range of 1 – 20 kilograms and provides R&D services, products and subsystems, launch services, satellite platforms and turn-key solutions to a broad range of customers.

L - 10 Moog Bradford



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Moog Bradford is a high-tech European developer and manufacturer of satellite attitude and orbit control subsystems, propulsion and thermal subsystems and components. The activities are organized in product lines; each of which ranks top positions (first or second) within the European supplier field.

L - 10 NLR - Netherlands Aerospace Centre



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NLR, the Netherlands Aerospace Centre serves the space sector with capabilities that include design of satellites and development of heat transfer systems. NLR is specialist in the field of earth observation and navigation. In partnership with ESA, NLR is contributing to the development of European satellite-navigation system.

L - 10 NSO



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The Netherlands Space Office acts as the Dutch agency for space affairs. The Netherlands Space Office (NSO) was established by the Dutch government in order to develop the Netherlands' space programme and to bring that programme to action. The NSO is the face of the Dutch space community for international space organisations like ESA, NASA and JAXA as well as the central point of contact for the space community within the Netherlands.

L - 10 SpaceNed



Contact person: Jeroen Rotteveel
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SpaceNed is the Association of Space companies in The Netherlands, rebranded from NISO in 2009. The objective of SpaceNed is to strengthen the position of its members in the international space market. Members cover Industry, SME, research institutes and universities, active in both the upstream and the downstream space markets.

L - 10 TNO



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TNO has been active in the field of advanced space instruments for over 50 years, developing instruments for earth observation (optical, radar) and astronomy. Examples include the development of instruments for measuring the ozone layer and air quality (SCIAMACHY, OMI and TROPOMI) and instrumentation for space telescopes (HIPPARCOS, ISO and GAIA).

L - 10 TU Delft Space Institute



Contact person: Mariëlle Hoefakker
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The TU Delft Space Institute bundles and creates expertise on Space for local, regional and global impact on research, education and valorization. There is special attention for new technologies that enable extreme miniaturization and demonstrating them in Space. The institute has three focal themes: Sensing from Space, Distributed Space Systems and Space Robotics.

L - 10 University of Twente

UNIVERSITY OF TWENTE. **Contact person:** *M.J. Bentum* **Tel:** +31-53-4892108
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The University of Twente is a young and enterprising university that prepares young people for the future. We accomplish this through innovative, attractive and future-focused education and through fulfilling a global function in technological and social research. 3300 researchers and professionals work on pioneering research, relevant innovations and inspiring education for more than 9000 students.

Booth: L - 11 GomSpace Aps

On-site and follow-up contact person: *Annette Marquart* **Tel:** +45 23280689
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At GomSpace, we provide an extensive portfolio of off the shelf subsystems and software components for nanosatellites, and we provide turnkey nanosatellite projects to customers.

We export space hardware to customers in more than 45 countries and our customers range from technical universities, ambitious science groups, national space agencies, and commercial businesses, to military and national authorities.

Booth: L - 12 Blue Dot Solutions Sp. z o.o. (Space Sector Poland)

On-site contact person: *Michał Moroz* **Tel:** +48 601 878 252
Email: michal.moroz@bluedotsolutions.eu
Contact person: *Maciej Mickiewicz* **Tel:** +48 502 173 888
Email: maciej.mickiewicz@bluedotsolutions.eu
Web: www.spacesector.pl

The booth presents several leading Polish companies (i.e. Blue Dot Solutions and SpaceForest) active in space and space-related sectors, such as IT, electronics or automation. Poland joined the EU in 2004 and became the 20th ESA member state in 2012. Right now the Polish space sector consists of c.a. 100 entities.

Booth: L - 13 Zodiac Aerospace / Ormic Components Ltd.

Contact person: *Alexandre Thily* **Tel:** +33630482523
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Zodiac Data Systems a high technology company that designs, manufactures and supplies a broad range of products and solutions for airborne & ground telemetry, mission video and flight test recorders, satellite command control, data collection from observation satellites and products and solutions for satellite communications QoS monitoring.

L - 13 Ormic Components Ltd.

Contact person: *Ofer Kleiner* **Tel:** +972-54-5239114
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Contact person: *Alexandre Thily* **Tel:** +972-54-5239105
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Established in 1997 in Tel-Aviv, Israel, Ormic offers End-to-End Innovative solutions utilizing advanced technologies & systems:

- Ground Systems for Space: TT&C, Remote Sensing, Monitoring
- Airborne & Ground Telemetry Solutions
- Mission Critical Data: Recorders, Acquisition modules
- Antennas, Radomes & Reflectors
- High Power Amplifiers
- RF to Fiber-Optic Links
- Thermal Management Solutions for Payloads & Electronic Systems
- Radar Front-End
- RF & Microwave Components and Sub-Systems: Frequency Converters, Filters, Switches, Attenuators.

Booth: M - 1 SIAA - Space Industry Association



On-site and follow-up contact person: *Brett Biddington – Chief Executive for IAC 2017* **Mobile:** +61 401 890 368
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http://www.iac2017.org/

The Space Industry Association of Australia (SIAA) is a peak body representing companies, governments, research institutes and universities. We are committed to a unified national space program that benefits the economy and enhances international partnerships. The SIAA will host the 68th IAC in Adelaide South Australia from 25--29 September 2017.

Booth: M - 2 Skoltech Institute of Science and Technology



Contact person: *Tatyana Boldyreva* **Email:** T.Boldyreva@skoltech.ru
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We offer an MIT-designed hands-on experience in brand-new facilities with world-class professors — all in English, just outside of Moscow, with plentiful international exchange opportunities — all leading toward one goal: preparing our students and graduates to impact the world through scientific discovery and technological innovation.

Applications to join our growing community as an MSc student are being accepted for the following interdisciplinary programs:

- Biomedical Science and Technology
- Information Science and Technology
- Energy Science and Technology
- Space Science and Technology
- Product Design and Advanced Manufacturing

Booth: M - 3 SGAC



On-site contact person: *Yevgeny Tsodikovich* **Tel:** +972-52-8718099
Email: Yevgeny.tsodikovich@spacegeneration.org
Executive Director: *Minoo Rathnasabapathy* **Email:** Minoo.rathnasabapathy@spacegeneration.org
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The Space Generation Advisory Council is a global non-governmental, non-profit organization and network which aims to represent university students and young space professionals to the United Nations, space agencies, industry, and academia

Booth: N ISRAEL PAVILION

Participating Organisations

N - 1 IAI- Israel Aerospace Industries



Contact person: **Tel:** +972 (3) 9358295
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Web: www.iai.co.il

IAI is a globally recognized leader in development and production of commercial and military aerospace and defense systems. IAI provides world leading unique solutions for a broad spectrum of needs in space, air, land, sea, cyber and homeland defense. With 60 years of experience IAI exports its products to over 90 countries and has over 30 subsidiaries worldwide.

IAI's Defense and Commercial Products & Services: services include: the development, manufacture, overhaul, upgrading, repair and maintenance of aircraft and aerospace equipment, electronic systems, avionics suites, advanced radars, tactical weaponry and law enforcement systems, training and simulation systems, network and situational awareness systems.

N - 2 Rafael Advanced Defense Systems Ltd.



Contact person: **Tel:** +972-4-879-4444
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RAFAEL – Advanced Defense Systems Ltd. is a member of the IAF (International Astronautical Federation).

Rafael develops and manufactures advanced defense systems for the Israeli Defense Forces and the defense establishment, as well as international customers around the world. The company offers its customers a diversified array of innovative solutions at the leading edge of global technology.

Rafael's space activities are focused on Space Propulsion Solutions, Micro-Satellite Systems, Advanced light Weight Composite Space Structures, and MEMS Technologies.

N - 3

Elbit Systems Electro-Optics - Elop Ltd.



Contact person: Ilan Porat – Head of Space directorate
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Web:

Elbit Systems – ISTAR Division (Formally Elop) is a globally recognized leader in development and production of complex space borne electro-optic observation systems. Elbit Systems invests heavily in advanced research, concentrating on space telescopes and space cameras, in different wavelengths, for military, government and civilian space applications. Elbit Systems' products high resolution in the compact, cost effective packages.

For three decades, Elbit Systems – ISTAR Division has been engaged in the development, manufacture and testing of advanced EO systems for a variety of space applications including:

- Research space telescopes
- Space cameras, including EROS A, EROS B, MSC, Neptune, Jupiter, Venus and Ofeq Cameras
- Hyperspectral systems

N - 4

Ramon Chips, Ltd.



Contact person:
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Email: info@ramon-chips.com
Web: http://www.ramon-chips.com/

Ramon Chips makes radiation-hardened high-performance computers for satellites and spacecrafts: An image compression ASIC, a dual core microprocessor with spacewire and other interfaces (marketed globally by Cobham Gaisler) and a 64-core DSP providing 40 GFLOPS, 76GMAC/sec and 120 Gbit/sec over 12 SpaceFibre links.

N - 5

Ayecka Communication Systems, Ltd.



On-site and follow-up contact person: Baruch Kagan - CTO
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Email: baruchk@ayecka.com
Web: www.ayecka.com

Addressing the consumer market Ayecka Communication Systems Ltd. is leading the next generation of satellite communication. The Smart LNB - The most cost effective platform for Interactive TV, M2M and IoT applications.

The CG-VSAT - The first consumer grade VSAT with cost reaching 99\$ per terminal (including antenna!). Based on the RCS2 standard, the CG-VSAT offers DTH operators a clear path to triple play of TV, Internet and Voice.

Ayecka's RFModem® is the technology behind the revolution, integrating the feed, filters, LNB, BUC and digital parts into a single low cost platform. Ayecka offers its RFModem® as a platform for implementing applications. Ayecka's RFModem® is also offered in combination with flat antenna for low profile installations and SOTM applications.

Ayecka offers a full range of solutions for IP over DVB-S2. IP receiver (SR1), Modulator and encapsulator (ST1), SCPC and Managed SCPC modem (SM1), all supporting GSE encapsulation, AU/PC, ACM, Pre-Distortion and more.

Ayecka is your partner for Satcom – HW, SW, RF and system design and implementation. Ayecka's experience and proved capabilities is offered in design services as well as in professional services.

N - 7

NSLComm Ltd



On-Site contact person: Daniel Rockberger
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Email: daniel@nslcomm.com
Web: www.nslcomm.com

NSLComm Ltd, will revolutionize satellite telecommunications by increasing bandwidth by a factor of ten and more and introducing real time Antenna shaping.

NSLComm provides satellite manufacturers with unprecedented expandable Antennas for satellite telecommunications. NSLComm can provide light weight expandable antennas with optimization that are compact when stowed in the satellite, benefits include high bandwidth for faster internet, HDTV and in-flight adaptive connectivity.

N - 8

New Rocket Ltd.



Contact person: Moti
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Web: http://www.newrocket.co.il/

New Rocket is developing advanced, environmentally friendly ("Green Propulsion"), rocket engines based on innovative gel-propellant technology. New Rocket gel-propellant rocket engines are combining the best of both solid and liquid rockets – they are safe and simple to use while featuring high performance and controllability.

New Rocket is aiming high – To become a world leader in Green Propulsion rocket systems for the Space and Aviation markets.

N - 12

Arazim Ltd.



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arazim Ltd is leading provider of advanced sensors for static & dynamic analysis as well as sub-systems for attitude, navigation and control applications. Arazim Ltd. Will exhibit at it's booth Ultra-Miniature Hi-Performance MEMS-Based Navigation Systems, advanced MEMS-Based Sun-Sensors, miniature Star-Tracker, TEST-In-Space Multi-Payload Satellite service, Accelerometers & Pressure sensors for dynamic analysis and more, all from leading US&EU companies.

N - 13

HSL - Herzliya Science Laboratory – Hoopoe project



On-Site contact person: Sharon Mishaal
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Web: www.h-space-lab.org

The DUCHIFAT NanoSatellite Series – Herzliya Science Center
 DUCHIFAT 1 is the first Israeli nanosatellite and the first European satellite developed by high school students. It was successfully launched into space aboard the "Dnepr" on June 19, 2014. DUCHIFAT 2 (Hoopoe) - a QB50 nanosatellite for in-situ measurements in the lower thermosphere, is being designed and built by Israeli high school students from Ofakim, Yeruham, Ofra, Hura (Bedouin community) and Herzliya.

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ISERD - the Israel-Europe R&D Directorate promotes the participation of Israeli entities in R&D ventures within the European Research Area. ISERD is operated through the Office of the Chief Scientist of the Ministry of Economy, and is Israel's official contact point (NCP) with the EU, for all the activities of the Framework Programs.

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Founded in 1950, The Company boasts an international sales and customer support network that includes the United States, Europe and the Far East in addition to its international technical service centers located around the world. ORBIT's end-to-end solutions are installed at leading Navies, major Air Forces, government and private organizations and used by airborne integrators, space agencies and earth observation imagery and connectivity providers world-wide.

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Acktar is world leader in manufacturing of Super Black Materials and Coatings for UV, Visible and Infrared Wavelength. Acktar Fractal Black TM and Magic Black TM are used in key space programs of ESA & NASA. Fully comply with REACH and RoHS. Can be provided on all metals, composite materials, glass and polymers.

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ImageSat International

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ImageSat International N.V. is the owner and operator of the EROS A and EROS B very high resolution imaging satellites, whose global coverage provides high-quality imaging services, satisfying national defense, homeland security, emergency services and national development needs, as well as a wide range of civilian applications worldwide.

The national security sector is able to obtain Earth imagery from ImageSat's EROS constellation of satellites with maximum autonomy, secrecy and flexibility. Through tailored service packages, ImageSat enables customers to directly access the satellites, allowing real-time data download and direct tasking, as well as access to processing systems and services to utilize the acquired data.

The civilian sector enjoys flexibility in obtaining high-resolution satellite imagery in small quantities or in packages to suit their project requirements.

For certain scenarios and applications, ImageSat offers direct data download with the "MiniTer" light ground receiving station with a very small (1.5 meter) antenna.

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Space IL

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SpaceIL is a nonprofit organization working to land the first Israeli spacecraft on the Moon. Our mission is part of the international competition Google Lunar XPRIZE: A modern Moon race. SpaceIL is committed to using the potential prize money to promote science education in Israel and recreate a new "Apollo Effect".

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SpacePharma provides simple and valuable, end-to-end solutions for microgravity research. Our Nano-labs can be remote-controlled by users everywhere, and can be mounted on multiple microgravity platforms, including simulators, parabolic-flights, and our state-of-the-art Nano-satellites. This year, SpacePharma will launch the first-ever commercial Nano-satellite for microgravity research... the first of many.

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Israel Space Agency

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Israel Space Agency – ISA is affiliated with the Ministry of Science Technology and Space, State of Israel. ISA is activity engaged in promoting Israel scientific and technological capabilities, for usage of space for peaceful purposes.

Empowering Israel's space industries aptitude is ISA major objective, agenda, and strategy; consisting mainly on R&D support via international partnerships and cooperation with space agencies and international organizations, through bilateral and multilateral agreements. In recent years, Israel Space Agency- ISA is diligently expanding its existing and new international cooperation.

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Lockheed Martin



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Lockheed Martin is a global security and aerospace company principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. Our display will feature the Orion deep space exploration vehicle with highlights from its first orbital test flight. We will also highlight work being done on human and robotic space exploration missions, as well as our dedication to employing the latest advancements in technology to solve our customers' biggest challenges.

Sponsors

Airbus Defence and Space



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 Ellerbrock

Airbus Defence and Space is one of the three divisions of the Airbus Group. It is Europe's number one defence and space company, the second largest space business worldwide, and within the top ten defence enterprises globally. It employs some 38,600 employees generating revenues of approximately €13 billion per year.

Boeing Space Exploration



Web: www.boeing.com

Boeing is a leading provider of human spaceflight and space exploration systems and services. Boeing leverages five decades of human spaceflight experience to provide reliable access to Low Earth Orbit, full utilization of the International Space Station, robust development of the Space Launch System, and an international cislunar exploration platform.

Teva Pharmaceutical Industries Ltd



Web: http://www.tevapharm.com/

Teva is a leading global pharmaceutical company that delivers high-quality, patient-centric solutions to millions of patients every day. Headquartered in Israel, Teva is the world's largest generic medicines producer, with a wide range of products in nearly every therapeutic area. Teva also has a world-leading position in innovative treatments, focused on the central nervous system and respiratory conditions. Teva draws upon Israel's culture of innovation to help fuel its R&D activities. In the past decade, Teva has invested NIS 15 billion in its R&D and technological innovation efforts in Israel, and grants millions each year in awards and scholarships to promote innovation and excellence in science across all ages.

Space Foundation



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The Space Foundation is a full-time space advocacy organization with a core competency in large-scale conferences. Our goals align closely with those of the IAF and we are intimately engaged with the international space community and are accomplished at providing the kind of top quality conference events it requires.



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SSL is a leading provider of commercial satellites with broad expertise to support satellite operators and innovative space related missions. As a Silicon Valley innovator for more than 50 years, SSL's advanced product line also includes state-of-the-art small satellites, and sophisticated robotics and automation solutions for remote operations. For more information, visit www.sslmda.com.

Tyvak Nano-Satellite Systems, Inc



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Terran Orbital is a leading provider of nanosatellite and microsatellite vehicles, services, and solutions. Terran Orbital invests in leading-edge solutions for customers focused on achieving world-class space-based research, observation and communications at a fraction of the cost of traditional spacecraft developers. Through their Tyvak and Tyvak International brands, based in the U.S. and Europe, Terran Orbital partners with customers to produce advanced mission solutions with industry leading turn-times and price-points.

10 Social Events

10.1 Social Events

Pickup point: "HaAliya" access road to the Jerusalem ICC. Please wait next to the registration marquee

Enchanting Tastes and Smells at the "MACHANE YEHUDA" Market

Date: October 14, 2015 (Wednesday)
Time: Pick up time: 17:30
Cost: €65 pp

The "Machane Yehuda" Tour draws from the abundance of the market, allowing participants a taste of the lively atmosphere. The tour winds through the colourful streets of the market and through its history, as the story of the neighbourhood and its famed marketplace unfolds up until its modern incarnation. During the tour, you will have the chance to stop and taste some of the offerings of the most interesting stands of the market, Speak with the merchants and hear some of the fascinating and fun stories about the history of the "Machane Yehuda" community.

The tour will also include a short excursion to the nearby "Nachlaot" neighbourhood, to tell the story of the neighbourhood's furnace and its water pits.

The tour stops for explanations and tastings at some of the following types of purveyors: Spices, Israeli olive oil, Jerusalem-style tahini and halva, Health drinks and natural healing products, Bakeries, Chocolates and sweets stands.

A breathtaking adventure at The Tower of David Museum

Date: October 15, 2015 (Thursday)
Time: Pick up time: 18:30
Cost: €45 pp

The Tower of David Museum of the History of Jerusalem is located in the medieval citadel known as the Tower of David, near the Jaffa Gate, the historic entrance to the Old City.

The walls of the Citadel serve as a stage for a night time show which is a celebration of sight and sound. Amidst the archaeological remains in the Citadel's courtyard and to the sound of original music, the story of Jerusalem unfolds through giant breathtaking, virtual reality images. The stones of the walls and structures fade into the scenes and the screened images envelop the viewers and whisk them off to a one-of-a-kind multi-sensory experience.

A rich cultural experience at The Israel Museum

Date: October 13, 2015 (Tuesday)
Time: Pick up time: 18:30
Cost: €65 pp

The Israel Museum is the country's largest cultural institution, comprising several wings and large collections of art, archaeological findings and Judaica. One of the major highlights of the museum—and one of the city's more recognizable landmarks—is the distinctly shaped Shrine of the Book, which houses many ancient manuscripts including the Dead Sea Scrolls. Nearby, lending historical context to some of these priceless manuscripts, is a definitive grand model of the Second Temple and surrounding Jerusalem neighbourhoods circa 2000 years ago. The tour in the Israel Museum includes The Shrine of the Book, the Second Temple Model and The Archaeology Gallery.

In the Archaeology Wing, visitors can take stock of the many cultures which called the Land of Israel home over the centuries. The objects are organized chronologically, through seven different “chapters” beginning with prehistoric finds.

10.2 Gala Dinner

Gala Dinner, Friday 16 October from 18:00 – 22:00

Location: Naura Restaurant, Abu Ghosh

Pickup point: “HaAliya” access road to the Jerusalem International Convention Center (ICC). Please wait next to the registration marquise.

The Gala Dinner will be held on the evening of Friday, 16 October. It concludes the Congress and is meant to put a refined – and relaxed – finish to the week that is likely to have been full of meetings, presentations, networking and sightseeing. The Gala Dinner will be an unforgettable night of unique Middle-Eastern culture and cuisine in the historical village of Abu Gosh.

On the way up to Jerusalem, among turns and bends of the hilly scenery, lies the village of Abu Gosh. It is a Christian-Arab village built on a mountainside, rich in history that dates back 6,000 years. Abu Gosh is synonymous with Middle-Eastern cuisine, a wonderful, delightful mixture served in a variety of ways and with spicy garnishing. In fact, in recent years Abu Gosh has become a “hot spot” for visitors from Israel and around the world looking to experience authentic Arabic food. Entering the village of Abu Gosh you will immediately become engulfed by the richness of smells and colors.

Arabic culture, culinary traditions, hospitality, and generosity will surround you throughout the night, with much sharing and a great deal of warmth over the dinner table – which the Middle East is famous for. And to top it all off, unique and delicious desserts will be served accompanied by an enchanting display of belly dancing.

Share one last meal in Israel with old friends and new, reflect on the success of the Congress and look ahead to 2016 in Guadalajara ... the Gala Dinner is an event everyone should plan to attend! The dinner ticket includes complimentary transportation to the venue, dinner and a performance.

Cost: €80 pp

Tickets available online at www.iacon2015.org and on site at the Registration Desk. Seats are limited.



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A = Author CA = Co-author

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Arras, Melissa	CA	IAC-15.C2.1.8
Arreola, Mario	A	IAC-15.E1.6.7
Artusi, Matteo	CA	IAC-15.A3.IP.43
Arumanayagam Jeevi, Anugraha	CA	IAC-15.C1.4.11
ARVEILLER, Antoine	A	IAC-15.E4.1.3
AS, Rajshekhkar	CA	IAC-15.B1.6.6
Aslan, Alim Rustem	CA	IAC-15.B4.8.6
Aslan, Alim Rustem	CA	IAC-15.B4.2.8
Aslanov, Evgeniy V.	CA	IAC-15.C1.6.6
Aslanov, Vladimir S.	A	IAC-15.C1.6.6
Aslanov, Vladimir S.	A	IAC-15.C1.7.9
Asmar, Sami W.	CA	IAC-15.A3.5.6
Asmolovskiy, Nikolay	A	IAC-15.C2.IP.41
Assad, Christopher	CA	IAC-15.A5.3-B3.6.5
Assipov, Sultan	A	IAC-15.D5.2.3
Assis, Sheila	CA	IAC-15.C1.3.3
Atapuerca Rodríguez de Dios, Francisco Javier	CA	IAC-15.A7.3.1
Atar, Nurit	A	IAC-15.C2.IP.37
Atchison, Justin	A	IAC-15.C1.1.11
Atkinson, Peter	CA	IAC-15.B5.1.9

Augelli, Mauro	A	IAC-15.B3.4-B6.5.1
Auster, Hans-Ulrich	CA	IAC-15.A3.4.6
Austin, Julian	CA	IAC-15.D1.3.3
Autino, Adriano	A	IAC-15.D4.2.9
AVANZI, Thomas	CA	IAC-15.B2.6.1.4
AVANZI, Thomas	CA	IAC-15.E7.7-B3.8.7
Aviely, Peleg	CA	IAC-15.B2.6.1
Avilés Rodríguez, Marcos	CA	IAC-15.A3.2B.7
Avilés Rodríguez, Marcos	CA	IAC-15.A3.3B.11
Avraham, Oded	A	IAC-15.E1.1.1
Avraham, Oded	A	IAC-15.A1.6.6
Avraham, Oded	A	IAC-15.E4.3.3
Awesak, Judith Ananzo	A	IAC-15.E1.IP.5
Axthelm, Robert	CA	IAC-15.A6.6.3
Ayllon, Natanael	CA	IAC-15.B1.IP.10
Ayre, Mark	CA	IAC-15.A7.1.4
Ayre, Mark	CA	IAC-15.A7.1.5
Azari, Abigail	CA	IAC-15.A7.3.2
Azari, Pouyan	A	IAC-15.A6.IP.41
Aziz, Jonathan	A	IAC-15.E2.3-YPVF.4.8
Aziz, Sarmad	CA	IAC-15.B6.1.5

B

Name	Role	Paper
BABAGANA, ABUBAKAR	A	IAC-15.E5.IP.7
Bacsardi, Laszlo	CA	IAC-15.E7.IP.6
Bacsardi, Laszlo	CA	IAC-15.B2.8-YPVF.3.3
Baessler, Kai	CA	IAC-15.B4.8.2
Baevsky, Roman	CA	IAC-15.A1.2.2
Baevsky, Roman	CA	IAC-15.A1.3.3
Baevsky, Roman	CA	IAC-15.A1.3.5
Baevsky, Roman	CA	IAC-15.A1.IP.1
Baevsky, Roman	CA	IAC-15.A1.IP.9
Baggett, Keith	A	IAC-15.B3.7.12
Baghi, Quentin	A	IAC-15.A2.1.2
Bai, Lianghao	A	IAC-15.B3.7.6
Bai, Yanqiang	CA	IAC-15.A1.4.4
Bai, Zhifu	CA	IAC-15.D6.1.2
Bais, Lokeshsingh	CA	IAC-15.E2.4.10
Baj, Girish	CA	IAC-15.E2.4.10
Bakambu, Joseph Nsasi	CA	IAC-15.A3.IP.46
Baker, John	CA	IAC-15.A3.5.8
Bakirov, Rashid	CA	IAC-15.B2.1.3
Baklanov, Evgeniy	CA	IAC-15.D3.2.2
Balabanov, Vladimir	CA	IAC-15.C4.3.3
Balaji, Aishwarya	A	IAC-15.E1.7.10
Balakrishnan, Asha	A	IAC-15.B4.5.3
Balan, Mugurel	A	IAC-15.C2.4.8
Balan, Mugurel	CA	IAC-15.B4.6B.3
Balan, Mugurel	A	IAC-15.C3.4.3
Balint, Tibor	A	IAC-15.E5.4.1
Balint, Tibor	A	IAC-15.D1.6.1
Balogh, Barnabás	CA	IAC-15.D5.3.7
Balomenaki, Christina	CA	IAC-15.E5.2.11
Balucani, Marco	CA	IAC-15.B4.2.7
Bamber, David	CA	IAC-15.D4.1.9
Bamber, David	A	IAC-15.C1.6.1
Banda, Francesco	CA	IAC-15.E5.5.2
Bandini, Flavio	CA	IAC-15.A5.1.8
Bandla, Sirisha	A	IAC-15.D2.2.6
Bando, Mai	CA	IAC-15.C1.8.2
Banerdt, William Bruce	CA	IAC-15.A3.3A.1
Banerjee, Shridutta	A	IAC-15.C2.4.3
Bang cheng, Ai	A	IAC-15.C2.4.3
Bangert, Philip	CA	IAC-15.D1.4.2
Bangert, Philip	CA	IAC-15.B6.2.6
Bannova, Olga	CA	IAC-15.A5.2.11
Bannova, Olga	CA	IAC-15.E5.1.2
Bao, Changchun	A	IAC-15.D4.1.8
Bao, Tong	CA	IAC-15.C2.4.7
Baogui, Qiu	CA	IAC-15.A3.IP.11
Baogui, Qiu	CA	IAC-15.A3.2C.4
Baoyin, Hexi	CA	IAC-15.D4.1.8

Baoyin, Hexi	CA	IAC-15.C1.4.1
Baoyin, Hexi	CA	IAC-15.A3.2C.14
Baoyin, Hexi	CA	IAC-15.A3.2C.15
Baoying, Luo	CA	IAC-15.D2.IP.12
Bar-Nun, Akiva	CA	IAC-15.A3.IP.32
Bar-Nun, Akiva	CA	IAC-15.A3.IP.41
Barad, Kuldeep	A	IAC-15.B2.3.9
Barad, Kuldeep	A	IAC-15.B4.8.4
Baranov, Andrey	CA	IAC-15.C1.3.11
BARANOV, Dimitri	CA	IAC-15.A6.IP.15
Baranov, levgen	CA	IAC-15.A3.IP.16
Barash, Yefim	CA	IAC-15.A3.IP.3
Barato, Francesco	A	IAC-15.C4.2.7
Barato, Francesco	A	IAC-15.C4.6.3
Barber, Tracie	CA	IAC-15.A2.3.6
Barcinski, Tomasz	CA	IAC-15.A3.IP.34
Bareket, Ido	A	IAC-15.B6.3.7
Bareket, Ido	A	IAC-15.E1.1.4
Bareket, Ido	A	IAC-15.A6.IP.8
Bareket, Ido	A	IAC-15.E1.7.1
Bareket, Ido	A	IAC-15.E1.8.8
Baresi, Nicola	CA	IAC-15.A3.4.7
Baresi, Nicola	A	IAC-15.C1.7.1
Barinov, Alexander	CA	IAC-15.D1.1.8
Barkay, Nitzan	A	IAC-15.D5.4.1
Barmin, Igor	A	IAC-15.D5.1.1
Barmin, Igor	CA	IAC-15.D5.1.1
Baroni, Marco	CA	IAC-15.B1.2.2
Barracough, Simon	CA	IAC-15.A6.6.3
Barrentine, Emily	CA	IAC-15.A7.3.3
Barrera, Sebastiano	CA	IAC-15.A5.3-B3.6.3
Barrettino, Diego	A	IAC-15.B4.6B.2
Barrios, Ricardo	CA	IAC-15.B2.5.12
Barschke, Merlin F.	A	IAC-15.B4.7.1
Barschke, Merlin F.	CA	IAC-15.B4.7.4
Barthol, Peter	CA	IAC-15.A3.IP.36
Bartkowiak, Bartosz	CA	IAC-15.D2.7.10
Bartolini, Alana	CA	IAC-15.E7.IP.6
Barton, Andrew	CA	IAC-15.A3.2A.7
Bartsev, Sergey	CA	IAC-15.A3.1.6
Baruah, Rishiraj	A	IAC-15.E7.1.3
Bas, Mustafa Erdem	CA	IAC-15.B4.2.8
Basile, Francesco	CA	IAC-15.B2.6.8
Basu, Prateep	A	IAC-15.E5.2.3
Basyooni, Mohamed	A	IAC-15.C2.8.1
Batenburg, Petrus	A	IAC-15.B3.3.7
Battagliere, Maria Libera	CA	IAC-15.B1.IP.34
Battagliere, Maria Libera	CA	IAC-15.B1.5.9
Battat, Jonathan	CA	IAC-15.E3.2.4
Battie, Francois	A	IAC-15.D2.1.7
Battipede, Manuela	CA	IAC-15.D2.3.7
Battista, Francesco	CA	IAC-15.C4.3.6
Battista, Francesco	CA	IAC-15.C4.4.12
Battista, Umberto	CA	IAC-15.D1.1.6
Battista, Umberto	CA	IAC-15.A2.3.4
Battista, Umberto	CA	IAC-15.A6.IP.23
Battistelli, Enrico	CA	IAC-15.B1.3.5
Battistini, Simone	A	IAC-15.C1.5.6
Battler, Melissa M.	CA	IAC-15.E1.4.1
Battocchio, Luciano	CA	IAC-15.D2.3.7
Baturkin, Volodymyr	CA	IAC-15.A3.4.6
Bauer, Waldemar	CA	IAC-15.C4.7-C3.5.1
Baumann, Wolfgang	CA	IAC-15.A1.3.7
Baur, Oliver	CA	IAC-15.A6.IP.45
Bausch, Lars	CA	IAC-15.B2.IP.9
Bavdaz, Marcos	CA	IAC-15.A7.1.4
Bavdaz, Marcos	CA	IAC-15.A7.1.5
Bavdaz, Marcos	CA	IAC-15.A3.IP.28
Bawden, Gerald	CA	IAC-15.B1.6.3
Baxter, Sarah	CA	IAC-15.E5.4.7
Bayle, Olivier	CA	IAC-15.A3.3A.2
Beames, Chuck	A	IAC-15.D2.1.9
Bebout, Brad	CA	IAC-15.A1.8.6
Beck, James	CA	IAC-15.A6.IP.23
Becker, Marcel	A	IAC-15.A6.IP.22

Beckmann, Sabrina	CA	IAC-15.A1.6.6
Becnel, Mark	A	IAC-15.E1.3.10
Becnel, Mark	CA	IAC-15.E1.7.13
Becucci, Simone	CA	IAC-15.C1.5.10
Bedington, Robert	CA	IAC-15.B2.5.9
Behar, Ehud	CA	IAC-15.A7.2.4
Behar, Ehud	CA	IAC-15.C1.4.8
Behar, Ehud	CA	IAC-15.C4.4.3
Beitia, Jose	CA	IAC-15.B4.6A.9
Bejar-Romero, Juan Antonio	A	IAC-15.D2.6.7
Belakovskiy, Mark	CA	IAC-15.B3.2.3
Belakovskiy, Mark	CA	IAC-15.A1.IP.4
Beldavs, Vid	A	IAC-15.A3.2B.10
Beliaev, Mikhail	CA	IAC-15.B2.1.9
Belikov, Vladimir	CA	IAC-15.D1.1.8
Belikov, Vladimir	CA	IAC-15.A6.IP.48
Belingheri, Paola	A	IAC-15.E6.2.9
Belkin, Michael	CA	IAC-15.A1.4.2
Bell, Jonathan	CA	IAC-15.E1.2.1
Bell, Robert	CA	IAC-15.E1.5.3
Bellini, Niccolò	CA	IAC-15.E1.3.8
Bellini, Niccolò	A	IAC-15.A6.IP.30
Bellini, Niccolò	CA	IAC-15.A6.IP.31
Bellini, Niccolò	CA	IAC-15.E6.3.9
Bellini, Quirino	A	IAC-15.D1.5.6
Belloni, Paolo	A	IAC-15.C4.1.7
Bellomo, Alessandro	CA	IAC-15.D6.3.1
Bellomo, Alessandro	CA	IAC-15.D6.3.7
Belloni, Federico	CA	IAC-15.B4.4.5
Belloni, Federico	CA	IAC-15.A6.6.2
Belokonov, Igor V.	A	IAC-15.B2.1.7
Belokonov, Igor V.	A	IAC-15.D2.7.11
Belokonov, Igor V.	CA	IAC-15.D1.7.2
Belov, Anton	CA	IAC-15.D3.2.2
Belser, Valentin	A	IAC-15.A2.5.4
Belyaev, Andrey	A	IAC-15.B6.1.1
Belyaev, Mikhail Yu.	CA	IAC-15.B3.3.8
Belyakov, Alexey	A	IAC-15.B3.2.5
Belz, Stefan	A	IAC-15.C3.3.4
Belz, Stefan	A	IAC-15.A1.7.7
Ben Dor, Eyal	A	IAC-15.B1.4.7
Ben Hayoun, Nelly	A	IAC-15.E1.9.11
Ben-Ami, Harel	A	IAC-15.E5.5.7
Ben-Basat, Shani	A	IAC-15.C4.2.4
Ben-Haim, Yakov	CA	IAC-15.D1.6.6
Ben-Yaacov, Ohad	A	IAC-15.C1.8.10
Benaroya, Haym	A	IAC-15.E5.1.4
Benaroya, Haym	A	IAC-15.E6.IP.5
Benassai, Mario	CA	IAC-15.A1.IP.8
Benedetto, Catia	CA	IAC-15.B1.IP.37
Benedictus, Rinze	CA	IAC-15.A6.IP.2
Benkhoff, Johannes	CA	IAC-15.E1.IP.6
Benner, Daniel	CA	IAC-15.A1.4.2
Benoist, Olivier	CA	IAC-15.D1.2.11
Bensoussan, Denis	A	IAC-15.D5.4.5
Bensoussan, Denis	A	IAC-15.A6.8.2
Benvenuto, Riccardo	A	IAC-15.A2.3.3
Benvenuto, Riccardo	CA	IAC-15.A6.IP.26
Benvenuto, Riccardo	CA	IAC-15.A6.5.8
Berchenko, Yakir	CA	IAC-15.A1.4.2
Berendeeva, Tatiana	CA	IAC-15.A1.IP.5
Bergamasco, Federico	CA	IAC-15.E7.1.9
Bergamini, Elisabetta	CA	IAC-15.E3.3.9
Berger, Jay	CA	IAC-15.A5.2.9
Berger, Michael	CA	IAC-15.B1.3.3
Bergman, Dean	CA	IAC-15.A3.3B.6
Bergsrud, Corey	A	IAC-15.C3.1.3
Bergsrud, Corey	A	IAC-15.C3.2.2
Bergé, Joël	CA	IAC-15.A2.1.2
Bernaciak, Robert	CA	IAC-15.C3.2.2
Bernal, Cesar	CA	IAC-15.A6.6.3
Bernasconi, Pietro	CA	IAC-15.A3.4.10
Bernelli-Zazzera, Franco	CA	IAC-15.A3.4.3
Bersenev, Evgenii	CA	IAC-15.A1.IP.1
Bersenev, Evgeny	CA	IAC-15.A1.IP.9



Bertelli, Cosimo	A	IAC-15.D5.1.7
Bertoldi, Artur	A	IAC-15.C4.2.8
Bertoldi, Artur	CA	IAC-15.C4.IP.5
Bertoldi, Artur	A	IAC-15.C4.IP.53
Bertolotto, Delfina	CA	IAC-15.B3.3.4
Bertrand, Pierre	CA	IAC-15.A5.2.8
Bertrand, Pierre	CA	IAC-15.E3.IP.3
Betelin, Vladimir	CA	IAC-15.A2.2.4
Betelin, Vladimir	CA	IAC-15.A2.4.5
Betti, Barbara	CA	IAC-15.B4.2.7
Bettiol, Laura	CA	IAC-15.A6.3.1
Bettiol, Laura	CA	IAC-15.A6.IP.21
Bettiol, Laura	A	IAC-15.C2.5.2
Bevilacqua, Marco	CA	IAC-15.A3.3A.12
Bewick, Charlotte	CA	IAC-15.B1.2.8
Beyermann, Ulrich	CA	IAC-15.B2.IP.9
Bhan, Rakesh	CA	IAC-15.B1.1.9
Bharadwaj, B. Kapil	CA	IAC-15.C2.6.9
Bhate, Harsh	A	IAC-15.B2.3.8
Bhatta, Karan	A	IAC-15.B1.IP.21
Bhattacharjee, Shambo	A	IAC-15.A1.6.7
Bhattarai, Suresh	CA	IAC-15.E1.1.3
Bhide, Ojas	CA	IAC-15.E2.4.9
Bhui, Surmit	A	IAC-15.C3.4.5
Bi, Lei	CA	IAC-15.A1.3.2
Biamonti, Davide	CA	IAC-15.A6.7.2
Bian, Wei	CA	IAC-15.D5.2.8
Bianchi, Stefano	CA	IAC-15.D2.1.4
Biard, Arnaud	CA	IAC-15.D2.2.8
Biard, Arnaud	CA	IAC-15.E7.4.13
Bibring, Jean-Pierre	CA	IAC-15.B6.3.3
Bibring, Jean-Pierre	CA	IAC-15.A3.4.6
Bidaux-Sokolowski, Ambroise	CA	IAC-15.A3.3B.11
Biebricher, Alexander	CA	IAC-15.E1.2.8
Biele, Jens	CA	IAC-15.A3.4.2
Biele, Jens	CA	IAC-15.A3.4.6
Bielicki, Damian M.	CA	IAC-15.E3.IP.18
Biesbroek, Robin	A	IAC-15.A6.6.5
Biggs, James	CA	IAC-15.C1.8.3
Billig, Gerhard	CA	IAC-15.D6.3.7
Billot, Carole	CA	IAC-15.A6.6.5
Bin, Jiang	A	IAC-15.C4.7-C3.5.6
Bin, Li	CA	IAC-15.C4.IP.16
Bingxin, Yang	CA	IAC-15.C3.2.6
Binnig, Marco	CA	IAC-15.A1.7.7
Birkeland, Roger	CA	IAC-15.E2.3-YPVF.4.4
Birkeland, Roger	CA	IAC-15.B2.IP.9
Birkeland, Roger	CA	IAC-15.B2.8-YPVF.3.4
Bissonnette, Vincent	CA	IAC-15.E2.2.5
Biziukin, Grigori	A	IAC-15.E2.1.7
Blanco, Gonzalo	CA	IAC-15.D2.6.2
Blanco, Juanjo	CA	IAC-15.D1.7.3
Blancquaert, Thierry	CA	IAC-15.A3.3A.2
Blasberger, Avigdor	A	IAC-15.A7.2.3
Blazic, Saso	CA	IAC-15.B4.4.9
Blessed Nayagam, PV Samuel	CA	IAC-15.B2.1.2
Blizovsky, Avi	A	IAC-15.E1.6.2
Block, Ulfert	A	IAC-15.E6.2.8
Blome, Elizabeth	A	IAC-15.D3.1.2
Blount, PJ	A	IAC-15.E7.4.4
Blumberg, Dan Gabriel	CA	IAC-15.E1.8.3
Bo, Cong	A	IAC-15.B2.1.14
BOAKYE, OWUSU ANSAH	A	IAC-15.E1.2.4
Bobade, Pradip	CA	IAC-15.E2.4.9
Bobade, Pradip	CA	IAC-15.C2.9.8
Bobe, Leonid	A	IAC-15.A1.7.1
Boblenz, Johannes	A	IAC-15.C2.1.6
Bobrovskiy, Sergei	CA	IAC-15.B2.5.12
Boccia, Gennaro	CA	IAC-15.A1.IP.8
Boccia, Valentina	CA	IAC-15.E1.4.2
Boden, Ralf	A	IAC-15.B3.7.11
Boehm, Kirk	CA	IAC-15.A2.5.4
Boehringer, Felix	CA	IAC-15.E2.3-YPVF.4.3
Boggiatto, Dario	CA	IAC-15.D3.2.1
Bogomolov, Valery	CA	IAC-15.B3.2.3

Bogossian, Otavio Luiz	A	IAC-15.D1.IP.2
Bogossian, Otavio Luiz	A	IAC-15.D1.IP.22
Bohlmann, Ulrike M.	A	IAC-15.E3.1.1
Bohrer, Gil	A	IAC-15.B5.2.8
Boissinot, Valentine	CA	IAC-15.B2.1.1
Boldrini, Franco	CA	IAC-15.C1.5.10
Bolker, Asaf	CA	IAC-15.C2.IP.35
Bolker, Asaf	CA	IAC-15.C2.IP.37
Bollepalli, Chandra	A	IAC-15.B1.IP.39
Bologna, Stefano	A	IAC-15.D2.6.9
Bombardelli, Claudio	CA	IAC-15.C1.2.5
Bondre, Mugdha	CA	IAC-15.E2.4.3
Bonerba, Michele	CA	IAC-15.B1.2.8
Bonerba, Michele	CA	IAC-15.B1.IP.32
Bonerba, Michele	CA	IAC-15.D1.6.2
Bonetti, Davide	CA	IAC-15.D2.6.2
Bonfanti, Alice	CA	IAC-15.A6.4.2
Bonhomme, Christophe	A	IAC-15.C4.1.4
Bonin, Grant	A	IAC-15.B4.3.6
Bonin, Grant	CA	IAC-15.C4.IP.39
Bonin, Grant	CA	IAC-15.C1.9.1
Bonnal, Christophe	A	IAC-15.D2.5.1
Bonema, Abe	A	IAC-15.E3.5-E7.6.5
Bonnet, Jean-Charles	A	IAC-15.D2.5.2
Boominathan, Subramanian	CA	IAC-15.C1.7.11
Boone, Chris	CA	IAC-15.B1.1.7
Boratar, Adheesh	CA	IAC-15.C2.6.9
Borgeaud, Maurice	CA	IAC-15.B1.2.10
Borgs, Belinda	CA	IAC-15.A3.4.6
Borisov, Kirill	CA	IAC-15.B5.2.6
Borowitz, Mariel	A	IAC-15.E3.2.4
Borowitz, Mariel	A	IAC-15.B1.IP.36
Borowitz, Mariel	A	IAC-15.E6.IP.1
Borriello, Ciro	CA	IAC-15.E3.4.6
Bosnac, Natasha	CA	IAC-15.C1.2.4
Bosco, Marco	A	IAC-15.B4.3.9
Bosi, Franco	CA	IAC-15.C4.IP.47
Boswell, Rod	CA	IAC-15.C4.IP.15
Botta, Eleonora	A	IAC-15.A6.5.6
Bottacini, Massimiliano	A	IAC-15.A5.1.3
Boulanger, Damien	CA	IAC-15.A2.1.1
Bousquet, Pierre W.	A	IAC-15.A3.1.3
Bowman, Portia	CA	IAC-15.E2.3-YPVF.4.2
Bowman, Portia	CA	IAC-15.B3.7.9
Boyd, Andrea	CA	IAC-15.B3.4-B6.5.4
Bracali Cioci, Davide	CA	IAC-15.A6.9.8
Brack, Daniel	CA	IAC-15.E5.5.8
Bradford, Andrew	A	IAC-15.B4.5.12
Bradford, John	CA	IAC-15.A5.2.5
Bradford, John	CA	IAC-15.A5.2.12
Braithwaite, Timothy	CA	IAC-15.B3.1.4
Branco, Joao	CA	IAC-15.A3.3B.11
Brandon, Carl	A	IAC-15.B4.6B.12
Brandt, Joshua	A	IAC-15.A2.3.6
Branz, Francesco	CA	IAC-15.E2.3-YPVF.4.11
Branz, Francesco	A	IAC-15.D1.2.6
Branz, Francesco	CA	IAC-15.D1.2.7
Branz, Francesco	CA	IAC-15.C2.5.2
Branz, Francesco	CA	IAC-15.B4.6B.5
Branz, Francesco	CA	IAC-15.C2.7.9
Bratasanu, Dragos	A	IAC-15.E1.9.9
Bratlie, Terje	CA	IAC-15.E2.3-YPVF.4.4
Braukhane, Andy	A	IAC-15.D1.3.5
Braun, Benjamin	CA	IAC-15.C2.IP.41
Braun, Vitali	CA	IAC-15.A6.9.5
Braun, Vitali	A	IAC-15.A6.7.9
Brauner, Christian	CA	IAC-15.A3.IP.10
Brauner, Christian	CA	IAC-15.A3.3B.8
Bredin, Andrew	CA	IAC-15.A1.IP.20
Bredin, Andrew	CA	IAC-15.A1.6.4
Bredin, Andrew	CA	IAC-15.B5.1.8
Bremer, Stefanie	CA	IAC-15.A2.1.3
Bremond, Lucas	A	IAC-15.D1.4.5
Bressanin, Nicola	CA	IAC-15.A2.5.7
Bretschneider, Jens	CA	IAC-15.A1.7.7

Breuninger, Jakob	CA	IAC-15.A2.5.4
Briess, Klaus	CA	IAC-15.B2.1.10
Brieß, Klaus	CA	IAC-15.C1.6.8
Brieß, Klaus	CA	IAC-15.C2.9.4
Brikner, Natalya	A	IAC-15.C4.IP.40
Brinkman, Phillip	CA	IAC-15.D6.1.3
Brinkman, Phillip	CA	IAC-15.D6.1.8
Briskman, Robert D.	A	IAC-15.B2.7.2
Brito, André	CA	IAC-15.D1.2.11
Brito, André	CA	IAC-15.A6.IP.33
Brito, André	CA	IAC-15.A6.IP.36
Brito, André	CA	IAC-15.A6.6.6
Brocksopp, Samuel	CA	IAC-15.E2.3-YPVF.4.2
Brocksopp, Samuel	CA	IAC-15.B3.7.9
Brodsky, Yuval	A	IAC-15.B3.5.1
Brodsky, Yuval	A	IAC-15.A5.3-B3.6.1
Broekhuizen, Lisa Karina	CA	IAC-15.E6.3.3
Brotzu, Andrea	CA	IAC-15.C2.9.6
Brown, Ari	CA	IAC-15.A7.3.3
Brown, Lawrence	A	IAC-15.D4.4.4
Brown, Melrose	CA	IAC-15.A6.9.2
Brown, Mia	A	IAC-15.E4.1.6
Brown, Mia	CA	IAC-15.E3.2.14
Brownbill, Emily	CA	IAC-15.D1.5.1
Brunner, Melanie	CA	IAC-15.B2.8-YPVF.3.4
Bruno, Claudio	A	IAC-15.C4.7-C3.5.2
Bryant, Robert	CA	IAC-15.C4.8.3
Brzytwa, Phillip	A	IAC-15.A3.1.7
Bu, Huijiao	CA	IAC-15.B6.3.13
Bucci, Lorenzo	CA	IAC-15.D2.3.3
Buchman, Sasha	CA	IAC-15.B4.4.6
Buchwald, Robert	CA	IAC-15.A3.IP.10
Buchwald, Robert	CA	IAC-15.A3.3B.8
Buckley, Nicole	A	IAC-15.B3.3.2
Buckley, Nicole	CA	IAC-15.B3.3.5
Budnik, Sergey	CA	IAC-15.C2.4.4
Budnik, Sergey	CA	IAC-15.C2.6.2
Bueno dos Santos, Marcio	A	IAC-15.C2.7.10
Buffenoir, François	CA	IAC-15.D2.6.3
Bugnet, Olivier	CA	IAC-15.D2.1.4
Bugrova, Anna	CA	IAC-15.A1.IP.10
Bukley, Angie	A	IAC-15.A2.3.8
Bukley, Angie	A	IAC-15.B1.5.8
Bulavin, Iliya	A	IAC-15.A1.8.11
Bulgarelli, Andrea	CA	IAC-15.B4.2.10
Bulgarelli, Andrea	CA	IAC-15.B4.3.1
Buonomo, Marco	CA	IAC-15.E2.3-YPVF.4.11
Burdanov, Anton	A	IAC-15.C2.7.8
Burg, Alexander	A	IAC-15.D3.4.6
Burger, Eduardo Escobar	A	IAC-15.B4.1.10
Burger, Eduardo Escobar	A	IAC-15.D1.6.6
Burger, Eduardo Escobar	CA	IAC-15.B4.7.7
Burger, Winfried	CA	IAC-15.A1.7.7
Burgett, Taylor	CA	IAC-15.E1.5.11
Burke, James	A	IAC-15.E5.5.8
Burmann, Bastian	CA	IAC-15.B1.2.8
Burmann, Bastian	A	IAC-15.A7.3.1
Burmeister, Soenke	CA	IAC-15.A1.5.2
Burnett, Dennis	A	IAC-15.E7.5.5
Burov, Alexander	CA	IAC-15.C1.3.2
Burov, Alexander	CA	IAC-15.C1.6.3
Burov, Alexander	CA	IAC-15.D4.3.2
Burri, Gaëtan	CA	IAC-15.C1.IP.11
Burri, Gaëtan	CA	IAC-15.E2.4.4
Burzykowska, Anna	A	IAC-15.B1.5.7
Busch, Stephan	CA	IAC-15.D1.4.2
Bushra, Nayab	CA	IAC-15.C3.3.1
Bussey, Ben	A	IAC-15.A3.1.2
Butler, Bradley	A	IAC-15.C2.4.8
Byagowi, Ahmad	CA	IAC-15.A1.IP.20
Byagowi, Ahmad	A	IAC-15.D1.3.4
Byagowi, Ahmad	A	IAC-15.A1.6.4
Byagowi, Ahmad	CA	IAC-15.B5.1.8
Byer, Robert	CA	IAC-15.B4.4.6
Byers, Anthony	CA	IAC-15.B3.1.6

Byun, Yung-Hwan	CA	IAC-15.C4.2.6
Bérend, Nicolas	A	IAC-15.C4.4.11
Böhle, Martin	CA	IAC-15.C4.3.1
Bönnhardt, Hermann	CA	IAC-15.B6.3.3
Büskens, Christof	CA	IAC-15.A3.IP.15

C

Name	Role	Paper
C, Rajeev	CA	IAC-15.C4.IP.55
C Guerrieri, Dadui	CA	IAC-15.B4.6B.7
C Guerrieri, Dadui	A	IAC-15.C4.6.2
C.Sandoval Goes, Luiz	CA	IAC-15.C2.3.7
Cabas, Ramiro	CA	IAC-15.A3.2A.8
Cabon, Betty	CA	IAC-15.C2.3.2
Cabrera, Carlos	CA	IAC-15.A2.3.5
Cacovean, Andrei	A	IAC-15.D5.1.5
Cagnani, Ivan	A	IAC-15.A2.1.5
Cahan, Bruce	A	IAC-15.E6.1.5
Cai, Jingqi	A	IAC-15.D1.IP.10
CAI, Qiong	CA	IAC-15.C2.1.9
CAI, Wenyi	A	IAC-15.A3.1.11
CAI, Wenyi	CA	IAC-15.E6.IP.6
Calderoni, Carlo	CA	IAC-15.C2.IP.29
Calderoni, Carlo	CA	IAC-15.C2.IP.30
Callahan, Jason	A	IAC-15.E4.1.1
Callens, Natacha	CA	IAC-15.E1.7.12
Calvo-Alvarado, Julio	A	IAC-15.B4.1.8
Calvo-Obando, Ana Julieta	A	IAC-15.B4.1.8
Calzada Diaz, Abigail	A	IAC-15.E3.IP.18
Cambioni, Saverio	CA	IAC-15.E2.3-YPVF.4.1
Cambioni, Saverio	CA	IAC-15.A6.IP.28
Camisassa, Marco	CA	IAC-15.A2.6.8
Camisassa, Marco	CA	IAC-15.D1.7.7
Campagnola, Stefano	A	IAC-15.C1.1.8
Campan, Jérôme	A	IAC-15.B3.4-B6.5.5
Campanelli, Vincenzo	CA	IAC-15.C1.7.8
Canalias, Elisabet	A	IAC-15.C1.1.1
Canas Ferreira, Joao	CA	IAC-15.B2.1.1
Cang, Zhongya	A	IAC-15.A6.IP.20
Cantwell, Brian	CA	IAC-15.C4.6.10
Canu, Claudio	CA	IAC-15.A6.IP.28
Caio, Caixia	CA	IAC-15.B4.3.2
Cao, Jianlin	A	IAC-15.B4.6B.4
Cao, Jing	A	IAC-15.C1.8.5
CAO, Lingling	A	IAC-15.C2.1.9
Cao, QiPeng	CA	IAC-15.C2.IP.47
Cao, Xibin	CA	IAC-15.A6.IP.18
Cao, Xibin	CA	IAC-15.A6.IP.44
Cao, Xibin	CA	IAC-15.C1.5.5
Cao, Yan	CA	IAC-15.A6.3.8
Cao, Yingjian	CA	IAC-15.C1.6.7
Capitaine, Thierry	CA	IAC-15.E3.5-E7.6.4
Caporicci, Marco	CA	IAC-15.B3.7.7
Cappelletti, Chantal	CA	IAC-15.B4.3.2
Cappelletti, Chantal	CA	IAC-15.B4.5.9
Cappelletti, Chantal	CA	IAC-15.C1.5.6
Capponi, Luigi	CA	IAC-15.B2.3.2
Caprara, Agnese	CA	IAC-15.E2.3-YPVF.4.1
Capuano, Maurizio	A	IAC-15.A3.3A.2
Carapellese, Stefano	A	IAC-15.C4.1.7
Carbognani, Franco	CA	IAC-15.B3.5.1
Carbognani, Franco	CA	IAC-15.A5.3-B3.6.1
Carbone, Davide	CA	IAC-15.E2.3-YPVF.4.1
Cardona, Tommaso	A	IAC-15.A6.1.3
Cardona, Tommaso	CA	IAC-15.B4.2.7
Cardona, Tommaso	CA	IAC-15.A6.IP.28
Cardone, Mauro	CA	IAC-15.B6.3.4
Cardoso dos Santos, Josué	A	IAC-15.C1.IP.4
Cardoso dos Santos, Josué	CA	IAC-15.E4.2.7
Carl Feldman, Gene	CA	IAC-15.B1.IP.39
Carmen, Christina	CA	IAC-15.E1.8.7
Carmen, Christina L.	CA	IAC-15.E1.3.12
Carminati, Maria-Vittoria "Giugi"	A	IAC-15.E7.5.7



Carnelli, Ian	A	IAC-15.A3.4.9
Carnicero Domínguez, Bernardo	CA	IAC-15.B1.1.4
Carpanelli, Elena	CA	IAC-15.E7.1.10
Carpenter, James	CA	IAC-15.A3.2B.2
Carpenter, Kalind	CA	IAC-15.A2.3.1
Carrasco, Jose Antonio	CA	IAC-15.D1.4.7
Carrasquilla-Batista, Arys	A	IAC-15.B4.1.8
Carrasquilla-Batista, Arys	A	IAC-15.B5.1.6
Carrera, Albano	CA	IAC-15.B4.3.10
Carrie, Christian	CA	IAC-15.B3.9-YPVF.2.3
Carron, Andrea	CA	IAC-15.D1.2.6
Carron, Andrea	CA	IAC-15.C2.5.2
Carta, Riccardo	CA	IAC-15.A2.3.3
Carter, Robert	A	IAC-15.C2.9.3
Carvajal-Godínez, Johan	CA	IAC-15.B4.1.8
Carvalho, Jean Paulo dos Santos	CA	IAC-15.C1.IP.4
Casler, James	CA	IAC-15.C3.1.3
Cassady, Joe	A	IAC-15.D2.8-A5.4.8
Cassese, Ferdinando	CA	IAC-15.E6.IP.3
Cassi, Carlo	CA	IAC-15.A3.3B.2
Cassiano Julio Filho, Antonio	A	IAC-15.B3.4-B6.5.6
Castejon Garcia, Ezio	CA	IAC-15.C2.7.10
Castiglione, Luigi	CA	IAC-15.A2.6.6
Castillo, Julie	CA	IAC-15.A3.5.8
Castillo Argañarás, Luis Fernando	A	IAC-15.E7.7-B3.8.8
Castorina, Michele	A	IAC-15.B5.2.9
CASTRO, Jean-Paul	CA	IAC-15.E1.2.10
Castronuovo, Marco M.	CA	IAC-15.A3.IP.36
Cataldo, Giuseppe	A	IAC-15.A7.3.3
Cataldo, Giuseppe	A	IAC-15.D1.6.4
Catalo, Claudio	CA	IAC-15.B1.2.2
Cau, Cristian	CA	IAC-15.E2.3-YPVF.4.1
Caubet, Albert	A	IAC-15.C1.8.3
Cavenago, Francesco	CA	IAC-15.D2.3.3
Cavinato, Alessandro	CA	IAC-15.E2.3-YPVF.4.11
Cawthorne, Andrew	CA	IAC-15.B4.4.10
Ccrébasol, Philippe	CA	IAC-15.B1.2.1
Ceccarelli, Francesco	CA	IAC-15.C4.3.6
Ceccaroni, Marta	A	IAC-15.C1.IP.16
Celine, Loisel	CA	IAC-15.B2.4.1
Celine, Loisel	CA	IAC-15.B2.4.2
Celine, Loisel	CA	IAC-15.B2.6.5
Celine, Loisel	CA	IAC-15.B4.6A.12
Canini, Elisa	A	IAC-15.A3.IP.43
Ceppi, Giulio	CA	IAC-15.A3.IP.43
Ceppi, Giulio	CA	IAC-15.E5.2.2
Cercós Pita, Lorenzo	CA	IAC-15.A3.2B.7
Cercós Pita, Lorenzo	CA	IAC-15.A6.5.8
Cerini, Corinna	CA	IAC-15.E2.3-YPVF.4.1
Cerriotti, Matteo	CA	IAC-15.B4.1.6
Cerriotti, Matteo	CA	IAC-15.C2.3.9
Cernuda, Jaime	A	IAC-15.E1.2.5
Cernusco, Alberto	CA	IAC-15.D2.3.8
Cerone, Marco	CA	IAC-15.B4.2.10
Cerone, Marco	CA	IAC-15.B4.3.1
Cervone, Angelo	CA	IAC-15.C4.2.2
Cervone, Angelo	CA	IAC-15.B4.6B.7
Cervone, Angelo	CA	IAC-15.C4.6.2
Cervone, Angelo	CA	IAC-15.C4.6.4
Cesare, Stefano	CA	IAC-15.A3.IP.36
Cesaretti, Giovanni	CA	IAC-15.C4.4.2
Cetin, Ediz	CA	IAC-15.A2.3.6
Chabot, Thomas	CA	IAC-15.A6.6.3
Chacon-Rodriguez, Alfonso	CA	IAC-15.B5.1.6
Chagas, Milton	CA	IAC-15.D3.4.7
Chagas, Misael	A	IAC-15.A1.IP.16
Chagas Junior, Milton	CA	IAC-15.D5.1.6
Chagas Junior, Milton	CA	IAC-15.A2.6.7
Chaieb, Sofiane	CA	IAC-15.C3.2.2
Chalotra, Deeksha	CA	IAC-15.D4.1.4
Chandran, Satheesh	A	IAC-15.C2.9.11
Chandrasekara, Rakhitha	A	IAC-15.B2.5.9
Chandrasekhar, M.G.	CA	IAC-15.B2.7.1
Chang, Byung Chul	A	IAC-15.A3.2A.6
Chang, Byung Chul	CA	IAC-15.D3.2.8

Chang, Chih-Hung	CA	IAC-15.E6.2.4
Chang, Cuiyan	CA	IAC-15.D1.2.8
Chang, Douglas	CA	IAC-15.A1.2.6
Chang, Eva Yi-Wei	A	IAC-15.E6.2.4
Chang, Eva Yi-Wei	A	IAC-15.D6.1.9
Chang, Eva Yi-Wei	A	IAC-15.E4.2.8
Chang, Guey-Shin	CA	IAC-15.B1.1.6
Chang, Guey-Shin	CA	IAC-15.D1.5.4
Chang, Hao-Chi	A	IAC-15.C1.5.2
Chang, Hao-Chi	CA	IAC-15.D1.5.4
Chang, Jisung	A	IAC-15.D1.IP.17
Chang, Won Keun	A	IAC-15.C4.9.11
Chanik, Abadi	CA	IAC-15.C1.6.1
Chanunmsin, Sittiporn	A	IAC-15.C2.3.9
Chanoine, Augustin	CA	IAC-15.D1.3.3
Chapin, Peter	CA	IAC-15.B4.6B.12
Chappell, Laurie	CA	IAC-15.B4.5.6
Charania, A. C.	CA	IAC-15.B3.2.4
Charania, A. C.	CA	IAC-15.A2.3.9
Charania, A. C.	CA	IAC-15.B4.5.2
Charania, A. C.	CA	IAC-15.D2.7.1
Charlebois, Denis	CA	IAC-15.B3.3.2
Charles, Christine	CA	IAC-15.C4.IP.15
Charles, John	CA	IAC-15.E4.2.2
Charlesworth, Amber	A	IAC-15.E3.2.2
Charlesworth, Amber	A	IAC-15.E7.7-B3.8.10
Chatwin, Chris	CA	IAC-15.A6.6.9
Chatzipanagiotis, Michail	A	IAC-15.D6.1.1
Chatzipanagiotis, Michail	A	IAC-15.E7.4.6
Chaudhari, Gitesh	CA	IAC-15.E2.4.9
Chaumette, Francois	CA	IAC-15.A6.6.3
Chavarria Flores, Adriana	A	IAC-15.E1.5.9
Chavarria Flores, Adriana	CA	IAC-15.E1.6.8
Chaves Jimenez, Adolfo	CA	IAC-15.B4.1.8
Cheganças, Jean	CA	IAC-15.D1.3.1
Chelaru, Adrian	CA	IAC-15.D2.2.9
Chelaru, Adrian	CA	IAC-15.C4.3.14
Chelaru, Teodor-Viorel	A	IAC-15.D2.2.9
Chelaru, Teodor-Viorel	A	IAC-15.C4.3.14
Chemoul, Bernard	A	IAC-15.D2.2.3
Chen, Anhong	CA	IAC-15.B1.IP.23
Chen, Bingyan	A	IAC-15.C2.IP.6
Chen, Bo	CA	IAC-15.E3.3.3
Chen, Bowen	CA	IAC-15.D1.4.11
Chen, Changya	CA	IAC-15.C2.IP.49
Chen, Chao	A	IAC-15.A5.1.12
Chen, Dong	A	IAC-15.B2.1.11
Chen, Dong	CA	IAC-15.B2.6.10
Chen, Dong	CA	IAC-15.B2.6.11
Chen, Erhu	CA	IAC-15.C2.IP.17
Chen, Hai-qun	CA	IAC-15.C2.IP.18
Chen, Hai-qun	CA	IAC-15.C2.IP.20
Chen, Hailong	CA	IAC-15.A1.3.2
Chen, Han	CA	IAC-15.C2.IP.26
Chen, Hongru	CA	IAC-15.C1.1.8
Chen, Hongru	A	IAC-15.C1.2.7
Chen, Jiangping	CA	IAC-15.C2.7.7
Chen, Jianhua	CA	IAC-15.C4.5.4
Chen, Junjie	CA	IAC-15.C1.6.7
Chen, Li	CA	IAC-15.C2.3.11
Chen, Li	CA	IAC-15.C1.IP.19
Chen, Li	CA	IAC-15.D1.IP.6
Chen, Li	CA	IAC-15.D1.IP.7
Chen, Lian-zhong	CA	IAC-15.C2.IP.9
Chen, Lian-zhong	CA	IAC-15.C2.IP.11
Chen, Lian-zhong	CA	IAC-15.C2.IP.17
Chen, Lian-zhong	A	IAC-15.C2.IP.18
Chen, Lian-zhong	CA	IAC-15.C2.IP.20
Chen, Lian-zhong	A	IAC-15.C2.IP.36
Chen, Lianzhong	CA	IAC-15.B3.IP.6
Chen, Lianzhong	CA	IAC-15.C4.IP.11
Chen, Lingsong	CA	IAC-15.E1.3.3
Chen, Lingsong	CA	IAC-15.E2.4.2
Chen, Lv	CA	IAC-15.A3.3.7
Chen, Meir	CA	IAC-15.B1.2.2

Chen, Ping	CA	IAC-15.A6.IP.5
Chen, Shuhua	CA	IAC-15.C2.6.11
Chen, Siyuan	CA	IAC-15.C2.4.3
Chen, Wen	CA	IAC-15.B4.4.3
Chen, Xianfeng	CA	IAC-15.D1.6.10
Chen, Xiang	CA	IAC-15.D1.6.10
Chen, Xiangxian	CA	IAC-15.D1.IP.13
Chen, Xiao	CA	IAC-15.B2.IP.4
Chen, Xiaofei	CA	IAC-15.C2.IP.10
Chen, Xiaoguang	A	IAC-15.A6.IP.32
Chen, Xiaoping	CA	IAC-15.A1.3.8
Chen, Xiaoqian	CA	IAC-15.C2.IP.1
Chen, Xiaoqian	CA	IAC-15.B4.6A.5
Chen, Xiaoyan	CA	IAC-15.A6.4.11
Chen, Xinlong	CA	IAC-15.A6.9.7
Chen, Xinlong	A	IAC-15.A6.5.2
Chen, Yang	A	IAC-15.B4.8.3
Chen, Yang	A	IAC-15.D2.8-A5.4.3
Chen, Yonggang	CA	IAC-15.C3.IP.6
Chen, Zhi-ming	CA	IAC-15.C2.IP.17
Chen, Zhi-ming	CA	IAC-15.C2.IP.18
Cheng, Andy	CA	IAC-15.C1.1.11
Cheng, Andy	A	IAC-15.A3.4.8
Cheng, Andy	CA	IAC-15.A3.4.10
Cheng, Guosheng	CA	IAC-15.A6.IP.20
Cheng, Haowen	A	IAC-15.A6.IP.38
Cheng, Jing	A	IAC-15.D1.IP.7
Cheng, Mei	CA	IAC-15.C2.5.4
Cheng, Ming-Chih	A	IAC-15.B1.1.6
Cheng, Tan	CA	IAC-15.A1.3.8
Cheng, ZhengAi	A	IAC-15.C3.1.4
Cheng, ZhengAi	CA	IAC-15.C2.2.9
Cheng, ZhengAi	CA	IAC-15.C3.2.5
Cheng, ZhengAi	CA	IAC-15.C2.3.10
Cheng, ZhengAi	A	IAC-15.C2.IP.43
Cheng, ZhengAi	CA	IAC-15.C3.IP.2
Cheng, ZhengAi	CA	IAC-15.C1.6.2
Cherciu, Claudiu	CA	IAC-15.C2.6.4
Cherciu, Claudiu	CA	IAC-15.B4.6B.3
Cherciu, Claudiu	CA	IAC-15.C3.4.3
Cherepanov, Valery	A	IAC-15.C2.8.4
Cherian, Rex	CA	IAC-15.E7.IP.19
Chern, Rock Jeng-Shing	A	IAC-15.B6.3.1
Chern, Rock Jeng-Shing	CA	IAC-15.E6.2.4
Chern, Rock Jeng-Shing	CA	IAC-15.D6.1.9
Chern, Rock Jeng-Shing	CA	IAC-15.E4.2.8
Chernikova, Anna	CA	IAC-15.A1.IP.1
Chernikova, Anna	A	IAC-15.A1.IP.9
Chernov, Victor	CA	IAC-15.E1.6.6
Chhahjed, Pritesh	CA	IAC-15.E2.4.3
Chhahjed, Pritesh	A	IAC-15.E2.4.10
CHIANG, Wen-Lung	CA	IAC-15.C1.5.2
CHIARELLI, Cosimo	CA	IAC-15.A3.1.3
Chiariotti, Federico	CA	IAC-15.E2.3-YPVF.4.11
Chiba, Takehisa	CA	IAC-15.B1.1.6
Chibel, Ron	CA	IAC-15.A1.4.2
Chibing, Shen	CA	IAC-15.C4.9.10
Chibing, Shen	A	IAC-15.C4.9.13
Chibing, Shen	A	IAC-15.C4.3.11
Chiesa, Alessandro	A	IAC-15.A6.6.7
Chinick, Tom	CA	IAC-15.D2.2.6
Chinick, Tom	CA	IAC-15.E3.2.11
Chinner, John	CA	IAC-15.E1.2.1
Chintamani, Keshav	CA	IAC-15.A5.3-B3.6.6
Chiovini, Andrea	CA	IAC-15.A6.IP.28
Chirtu, Cris	CA	IAC-15.B6.1.4
Chitu, Cristian Corneliu	A	IAC-15.A3.IP.34
Chiuri, Daniele Emanuele	A	IAC-15.A6.IP.42
Chiuri, Daniele Emanuele	CA	IAC-15.E3.5-E7.6.4
Chizhukhin, Vladimir	CA	IAC-15.D2.7.11
Cho, Mengu	CA	IAC-15.B4.1.2
Cho, Mengu	CA	IAC-15.E1.IP.2
Cho, Mengu	CA	IAC-15.D5.3.1
Cho, Mengu	CA	IAC-15.D5.3.5
Cho, Mengu	A	IAC-15.B4.7.3

Cho, Mengu	A	IAC-15.D1.7.10
CHO, YEON	CA	IAC-15.C2.IP.24
Choi, ChungHyeon	CA	IAC-15.A6.IP.1
Choi, Seok Weon	CA	IAC-15.B6.IP.1
Choi, Young-In	A	IAC-15.D1.6.3
Chopinet, Jean-noël	CA	IAC-15.C4.1.4
Chopra, Sharad	A	IAC-15.C3.1.8
Chopra, Sharad	CA	IAC-15.D4.1.5
Chopra, Sharad	CA	IAC-15.C3.3.9
Chopra, Sharad	CA	IAC-15.D4.3.7
Chopra, Sharad	A	IAC-15.D4.3.11
Chopra, Sharad	CA	IAC-15.D4.3.14
Chopra, Sharad	CA	IAC-15.C4.7-C3.5.3
Chougule, Onkar	CA	IAC-15.E2.4.3
Choukroun, Daniel	CA	IAC-15.C1.IP.12
Choukroun, Daniel	A	IAC-15.C1.8.6
Christensen, Carissa	A	IAC-15.E6.1.8
Christensen, Carissa	CA	IAC-15.E3.IP.7
Christensen, Carissa	A	IAC-15.E6.IP.4
Christophe, Bruno	CA	IAC-15.A2.1.2
Christophe, Bruno	CA	IAC-15.B1.IP.9
Christopher, Palma	CA	IAC-15.E1.8.4
Christoulakis, Marios	CA	IAC-15.A5.2.11
Christoulakis, Marios	CA	IAC-15.E5.1.2
Chuan, Ma	CA	IAC-15.C1.4.6
Chun, Francis	CA	IAC-15.E1.8.4
Chung, Yunjae	A	IAC-15.C4.1.12
Chvanov, Vladimir	CA	IAC-15.C4.1.2
Chvanov, Vladimir	CA	IAC-15.E4.2.4
Ciarambino, Marco	CA	IAC-15.A3.2B.5
Ciaramicoli, Mario	CA	IAC-15.B6.1.4
Ciccarelli, Silvia	A	IAC-15.E3.1.11
Ciccarelli, Silvia	A	IAC-15.E6.IP.3
Ciccarelli, Silvia	CA	IAC-15.B1.5.1
Ciccarelli, Silvia	CA	IAC-15.A6.5.5
Cieśliński, Dawid	A	IAC-15.E2.1.4
Cieśliński, Dawid	CA	IAC-15.D2.7.10
Cikanek, Harry A.	A	IAC-15.B1.2.11
Cilliers, Pierre	CA	IAC-15.A7.1.6
Cimmino, Nicola	CA	IAC-15.E1.7.10
Cipriani, Federico	CA	IAC-15.C2.7.9
Cisbani, Andrea	CA	IAC-15.B1.2.2
Ciufolini, Ignazio	A	IAC-15.A2.1.8
Ciufolini, Ignazio	CA	IAC-15.C2.2.10
Ciufolini, Ignazio	A	IAC-15.B2.IP.3
Ciufolini, Ignazio	CA	IAC-15.C2.6.5
Claassen, Friedhelm	CA	IAC-15.B2.1.9
Clark, Craig	CA	IAC-15.B4.2.6
Clark, Craig	CA	IAC-15.B1.IP.39
Clark, Craig	CA	IAC-15.E3.4.7
Clark, Ryan	A	IAC-15.C4.9.9
Clark, Vanessa	CA	IAC-15.E6.1.7
Clark, Vanessa	CA	IAC-15.E6.2.10
Clark, Vanessa	CA	IAC-15.E3.IP.3
Clark, Vanessa	CA	IAC-15.D1.3.6
Cleave, Mary	CA	IAC-15.B1.IP.39
Clemens, Joachim	CA	IAC-15.A3.IP.15
Clemens, Joachim	CA	IAC-15.C1.7.4
Clement, Ryan David	CA	IAC-15.E1.7.11
Clemente, Carmine	CA	IAC-15.B4.6B.4
Clementini, Gisella	CA	IAC-15.A7.2.5
Clervoy, Jean-Francois	CA	IAC-15.A2.3.2
Clifford, Andrew	CA	IAC-15.B4.6A.9
Close, Sigrid	CA	IAC-15.D1.2.10
Cmar, Joshua	A	IAC-15.D3.3.5
Cocchiara, chiara maria	A	IAC-15.B6.3.10
Cocchiara, chiara maria	A	IAC-15.E5.2.4
Cocco, Francesco	CA	IAC-15.C2.7.9
Cockrell Jr., Charles E.	A	IAC-15.D2.4.1
Cocuzza, Silvio	A	IAC-15.D1.1.1
Cocuzza, Silvio	A	IAC-15.D3.3.2
Cocuzza, Silvio	A	IAC-15.D4.1.10
Cocuzza, Silvio	A	IAC-15.A2.4.8
Cocuzza, Silvio	A	IAC-15.A2.IP.2
Cocuzza, Silvio	A	IAC-15.C2.IP.27



Cocuzza, Silvio	A	IAC-15.C2.IP.52
Cocuzza, Silvio	A	IAC-15.D1.IP.11
Cocuzza, Silvio	A	IAC-15.D1.IP.12
Cocuzza, Silvio	A	IAC-15.C2.9.10
Cohen, Brendan	A	IAC-15.E7.1.10
Cohen, Dan	CA	IAC-15.B5.2.7
Cohen, Luchino	CA	IAC-15.B3.3.2
Cohen, Marc M.	A	IAC-15.D3.1.1
Cohen, Marc M.	A	IAC-15.E5.1.1
Cohen, Marc M.	A	IAC-15.E5.1.3
Cohen, Marc M.	A	IAC-15.C4.IP.18
Cohen, Noam	CA	IAC-15.B1.IP.7
Cohen, Omer	CA	IAC-15.B1.3.3
Cohen, Omer	A	IAC-15.B1.IP.8
Cohen, Samuel	A	IAC-15.C4.7-C3.5.9
Coker, Adesina	CA	IAC-15.E7.2.3
Coker, Adesina	CA	IAC-15.A6.IP.49
Colagrossi, Andrea	A	IAC-15.C1.3.1
Colagrossi, Andrea	CA	IAC-15.A3.3A.12
Coletta, Alessandro	CA	IAC-15.B1.IP.34
Coletta, Alessandro	CA	IAC-15.B1.5.9
Collette, Jean-Paul	CA	IAC-15.C2.8.7
Colley, Dan	CA	IAC-15.E5.4.7
Colligan, Philip	CA	IAC-15.E1.2.1
Colmenarejo, Pablo	CA	IAC-15.A3.3B.1
Colomba, Mauro	CA	IAC-15.A3.IP.19
Colombatti, Giacomo	CA	IAC-15.A3.3B.7
Colombo, Camilla	CA	IAC-15.C1.4.5
Colombo, Camilla	CA	IAC-15.A6.9.3
Comito, Vincenzo	CA	IAC-15.A5.3-B3.6.3
Compadre, Marcos	CA	IAC-15.C3.4.7
Comtois, Alain-Steve	CA	IAC-15.A1.3.4
Comtois, Jean-Marc	CA	IAC-15.B3.7.3
Conde Reis, Alain	CA	IAC-15.D2.4.8
Conde Rodriguez, Aitor	A	IAC-15.B4.3.2
Conde Rodriguez, Aitor	CA	IAC-15.B4.5.9
Condurache, Daniel	A	IAC-15.C1.IP.17
Cong, Huang	CA	IAC-15.B2.4.9
Conroy, Lorraine	CA	IAC-15.E5.4.7
Constantinescu, Cristian-Emil	CA	IAC-15.C1.9.5
Cook, Steve	A	IAC-15.D2.7.2
Cooper, Bonnie	CA	IAC-15.A3.2A.6
Cooper, Ken	CA	IAC-15.C2.9.3
Coppo, Peter	A	IAC-15.B1.3.5
Coppotelli, Giuliano	CA	IAC-15.C2.1.8
Cordelli, Emiliano	A	IAC-15.A6.9.9
Cordova, Sergio	CA	IAC-15.A3.2B.8
Cordova Lopez, Alejandro	CA	IAC-15.E3.IP.18
Corpino, Sabrina	CA	IAC-15.A2.6.8
Corpino, Sabrina	CA	IAC-15.B4.6B.8
Corpino, Sabrina	CA	IAC-15.D1.5.5
Corpino, Sabrina	CA	IAC-15.D1.5.8
Corpino, Sabrina	CA	IAC-15.D1.6.5
Correnti, Andrea	CA	IAC-15.D1.IP.11
Corrêa Jr, Flávio de Azevedo	A	IAC-15.D5.1.6
Corrêa Jr, Flávio de Azevedo	A	IAC-15.A2.6.7
Costa, Maurizio	A	IAC-15.B3.IP.7
Costantini, Fabiano	CA	IAC-15.B1.IP.18
COSTEA, Dragos	CA	IAC-15.B4.6B.3
Cosyn, Philippe	A	IAC-15.E4.1.4
Cosyn, Philippe	CA	IAC-15.E4.2.6
Cotronei, Vittorio	CA	IAC-15.B3.3.4
Cotti, Joe	CA	IAC-15.B5.1.4
Cottom, Travis	A	IAC-15.D5.4.6
Couairon, Arnaud	CA	IAC-15.B1.2.6
Coulon, Didier	CA	IAC-15.D2.1.4
Council, Sherman	CA	IAC-15.D6.1.3
Courtney, Daniel	CA	IAC-15.A6.6.2
COURTOIS, Michel	CA	IAC-15.B1.1.2
COURTOIS, Michel	CA	IAC-15.E6.3.2
Cowardin, Heather	CA	IAC-15.A6.1.7
Cowardin, Heather	CA	IAC-15.A6.2.9
Coxhill, Ian	CA	IAC-15.D1.2.11
Cozmuta, Ioana	A	IAC-15.E6.3.7
Cozzoni, Barbara	CA	IAC-15.A3.4.2

Crahay, Jean	CA	IAC-15.C2.8.7
Cramarossa, Augusto	CA	IAC-15.E3.3.6
Crawley Derkaczew, Joanna	CA	IAC-15.E5.4.7
Creech, Steve	A	IAC-15.D2.8-A5.4.2
Cresto Aleina, Sara	A	IAC-15.D4.1.12
Cresto Aleina, Sara	CA	IAC-15.D2.4.3
Crevalin, Jérôme	A	IAC-15.D6.3.2
Crippa, Roberto	CA	IAC-15.A4.IP.1
Crisconio, Marino	CA	IAC-15.B3.3.4
Crist, Kevin	CA	IAC-15.B1.5.8
Cristoforetti, Samantha	CA	IAC-15.B3.5.3
Crocker, Andrew	A	IAC-15.D2.5.3
Crocker, Andy	CA	IAC-15.D2.7.2
Crosnier, Michael	CA	IAC-15.A3.2A.8
Crosnier, Michael	CA	IAC-15.A3.5.9
Cross, Matthew	CA	IAC-15.A5.3-B3.6.1
Crowe, William	A	IAC-15.B4.8.10
Crumbly, Chris	CA	IAC-15.D2.8-A5.4.2
Crusa, Jason	CA	IAC-15.B3.7.2
Cruz, Imanol	CA	IAC-15.A3.2B.7
Cruz-Zaragoza, Epifanio	A	IAC-15.C2.6.6
Csoke, Antal	CA	IAC-15.A1.5.2
Csoke, Antal	CA	IAC-15.A1.5.12
Csoke, Antal	CA	IAC-15.D5.3.7
Cuccato, Davide	CA	IAC-15.D3.3.2
Cuccato, Davide	CA	IAC-15.D4.1.10
Cuccato, Davide	CA	IAC-15.A2.4.8
Cuccato, Davide	CA	IAC-15.C2.9.10
Cugliari, Giovanni	CA	IAC-15.A1.IP.8
Cui, Hongzheng	A	IAC-15.B2.IP.11
Cui, Hutaio	CA	IAC-15.A3.IP.21
Cui, Jixiang	A	IAC-15.B6.2.9
Cui, Pingyuan	CA	IAC-15.A3.IP.7
Cui, Pingyuan	CA	IAC-15.A3.IP.18
Cui, Pingyuan	CA	IAC-15.C1.7.10
Cui, Shuangxing	CA	IAC-15.A6.IP.38
Cullinan, Mick	CA	IAC-15.E5.4.7
Curianò, Federico	CA	IAC-15.B4.2.7
Curianò, Federico	CA	IAC-15.C2.1.8
Curti, Fabio	A	IAC-15.C1.5.10
Curti, Fabio	A	IAC-15.C1.7.7
Curtis, Jeremy	CA	IAC-15.E1.2.1
Cushley, Alex	A	IAC-15.D3.3.1
Cussac, Thibery	A	IAC-15.D1.3.1
Cutler, Grant	CA	IAC-15.B4.4.6
Cutts, James A.	CA	IAC-15.A3.5.5
Cyr, Philippe	CA	IAC-15.E6.1.7
Cyr, Philippe	CA	IAC-15.E6.2.10
Czelusckie, Alexandra	CA	IAC-15.D3.2.3

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Name	Role	Paper
D'Aliesio, Giovanni	CA	IAC-15.B1.IP.32
D'Alvano, Elena	CA	IAC-15.E3.3.6
D'Ambrosio, Domenic	CA	IAC-15.D2.3.7
D'Amico, Fabio	CA	IAC-15.B4.2.10
D'Amico, Fabio	A	IAC-15.B4.3.1
D'Ottavio, Andrea	CA	IAC-15.E2.3-YPVF.4.2
D'Ottavio, Andrea	CA	IAC-15.B3.7.9
D'yachkov, Lev	CA	IAC-15.A2.IP.4
da Costa, Rodrigo	CA	IAC-15.A5.1.8
Da Fonseca, Ijar M.	A	IAC-15.C2.3.7
da Silva Curiel, Alex	A	IAC-15.B4.4.10
da Silva Curiel, Alex	CA	IAC-15.D1.5.1
da Silva Pais Cabral, Francisco	CA	IAC-15.A3.3B.11
Dabak, Shubhankar	CA	IAC-15.C2.6.9
Dachwald, Bernd	CA	IAC-15.A3.IP.8
Dadhich, Akanksha	CA	IAC-15.E2.1.1
Dadhich, Akanksha	A	IAC-15.A6.3.10
Daehler, Erik	A	IAC-15.B1.2.3
Dafnis, Athanasios	CA	IAC-15.D3.1.3
Dahua, Du	A	IAC-15.C4.5.5
DAINESI, PAOLO	CA	IAC-15.A1.8.8
Dainesi, Paolo	CA	IAC-15.A2.4.10

Daiying, Deng	CA	IAC-15.C2.4.3
Dakshayani, B.P.	CA	IAC-15.C1.7.11
DalBello, Richard	CA	IAC-15.B3.2.4
DalBello, Richard	CA	IAC-15.A2.3.9
DalBello, Richard	CA	IAC-15.B4.5.2
DalBello, Richard	CA	IAC-15.D2.7.1
Dalin, Li	A	IAC-15.B6.2.3
Dalin, Yang	A	IAC-15.C1.8.9
Dalla Vecchia, Riccardo	CA	IAC-15.C2.7.9
Dalton, Matthew	A	IAC-15.C3.1.5
Dalton, Matthew	A	IAC-15.C3.1.1
Dalton, Matthew	A	IAC-15.C2.7.2
Dalton, Matthew	CA	IAC-15.C2.7.3
Damonte, Giulia	CA	IAC-15.C3.3.5
Danaila, Sterian	A	IAC-15.C2.7.6
Danciu, Adrian	CA	IAC-15.D2.2.9
Danciu, Adrian	CA	IAC-15.A3.2B.7
Danciu, Adrian	CA	IAC-15.C4.3.14
Daniel, Lihi	CA	IAC-15.E1.2.7
Daniel, Polsgrove	CA	IAC-15.E1.8.4
Danielson, Rick	CA	IAC-15.B1.IP.32
Dankanich, John	A	IAC-15.D2.5.7
Dannenber, Kristine	CA	IAC-15.E1.7.12
Danous, Patrick	CA	IAC-15.C4.1.4
Danous, Patrick	CA	IAC-15.C4.1.6
Dantuma, Danielle	CA	IAC-15.A1.IP.19
Dantuma, Danielle	A	IAC-15.A2.IP.5
Daoqiong, Huang	CA	IAC-15.C2.IP.7
Daraio, Maria girolamo	CA	IAC-15.B1.IP.34
Daraio, Maria girolamo	A	IAC-15.B1.5.9
Dargent, Thierry	A	IAC-15.C1.1.4
Darnopykh, Valeriy V.	CA	IAC-15.A6.2.3
Dash, Sanket	CA	IAC-15.E1.7.10
Dauriskikh, Anna	CA	IAC-15.D5.1.5
Davidian, Ken	A	IAC-15.E6.2.1
Davidian, Ken	A	IAC-15.E6.2.7
Davies, Philippa	A	IAC-15.D2.1.8
Davis, April	CA	IAC-15.A3.3B.6
Davis, Benjamin	A	IAC-15.E4.2.3
Davis, Michael	CA	IAC-15.E1.4.2
Davis, Michael	A	IAC-15.E1.4.5
Dağdeviren, Ece Gülfem	CA	IAC-15.E1.6.8
De Angelis, Giovanni	A	IAC-15.A1.5.11
De Angelis, Iole	CA	IAC-15.E5.5.8
de Athayde Costa e Silva, Marsil	A	IAC-15.B4.6B.7
de Athayde Costa e Silva, Marsil	CA	IAC-15.C4.6.2
De Biasi, Adam	CA	IAC-15.E2.3-YPVF.4.7
de Boissezon, Hélène	CA	IAC-15.B1.1.8
De Carlo, Paola	CA	IAC-15.C4.IP.47
De Cesaris, Andrea	CA	IAC-15.C2.2.5
De Cesaris, Andrea	CA	IAC-15.D3.2.9
de Chambure, Daniel	A	IAC-15.D2.1.5
de Clercq, Aude	CA	IAC-15.E6.3.8
De Cuyper, Steven	CA	IAC-15.D2.6.5
De Filippis, Paolo	A	IAC-15.C2.7.12
de Groot, Zeger	A	IAC-15.D1.7.9
De Jesus Simoes, Hugo Filipe	CA	IAC-15.E1.7.11
de Jong, Daphne	A	IAC-15.A3.2C.8
De Korver, Valérie	CA	IAC-15.C4.1.6
de la Puente, Ale	CA	IAC-15.E5.4.4
de la Rosa, Ramon	A	IAC-15.B4.3.10
de Lafontaine, Jean	CA	IAC-15.B1.2.4
De Leon, Pablo	CA	IAC-15.B3.IP.2
De Leon, Pablo	CA	IAC-15.B3.9-YPVF.2.1
De Luca, Damiano	CA	IAC-15.B6.3.4
De Luca, Giuseppe Francesco	CA	IAC-15.B6.3.4
de Matteis, Pierpaolo	A	IAC-15.C4.3.6
De Mey, Stefaan	CA	IAC-15.E3.3.8
de Olazabal, Borja	CA	IAC-15.E1.2.5
de Oliveira, Rafaela	CA	IAC-15.A1.IP.19
de Oliveira, Elcio Jeronimo	CA	IAC-15.C2.3.7
DE OLIVEIRA BITTENCOURT NETO, OLAVO	A	IAC-15.E7.4.7
De Paula, Ramon P.	A	IAC-15.A3.3A.1
de Paulis, Daniela	A	IAC-15.A4.1.5
de Paulis, Daniela	A	IAC-15.A4.2.7
de Paulis, Daniela	A	IAC-15.E5.4.5
De Persis, Cristina	A	IAC-15.A6.2.11
de POULPIQUET, Jean-Marie	A	IAC-15.E7.1.2
de Raucourt, Sébastien	CA	IAC-15.A3.3B.5

De Rose, Leonardo	CA	IAC-15.C4.3.6
De Smet, Stijn	CA	IAC-15.E2.3-YPVF.4.8
De Stefano Fumo, Mario	A	IAC-15.D2.6.10
De Vita, Francesco	CA	IAC-15.D2.4.5
De Vita, Francesco	CA	IAC-15.D6.3.1
de Weck, Olivier	CA	IAC-15.A5.2.1
de Weck, Olivier	CA	IAC-15.A5.2.7
de Weck, Olivier	CA	IAC-15.A3.IP.33
de Weck, Olivier	CA	IAC-15.D1.3.10
de Weck, Olivier	CA	IAC-15.D2.8-A5.4.4
de Wet, Wouter	CA	IAC-15.A1.5.10
De Winne, Frank	CA	IAC-15.B3.3.1
De Witt, Leehandi	A	IAC-15.E3.IP.14
De-Leon, Yair	A	IAC-15.B1.4.1
Debei, Stefano	CA	IAC-15.A3.5.4
DeBra, Daniel	CA	IAC-15.B4.4.6
Dedeurwaerder, Guillaume	A	IAC-15.D2.6.8
Dedieu, Gerard	CA	IAC-15.B1.2.1
Dedus, Fedor	CA	IAC-15.B1.IP.28
Degermendzhi, Andrei	A	IAC-15.A3.1.6
Degermendzhi, Nadezhda	CA	IAC-15.A3.1.6
Dehaene, Thomas	CA	IAC-15.B2.4.5
Dehaene, Thomas	CA	IAC-15.B2.6.4
Dehaene, Thomas	CA	IAC-15.B4.6B.9
Dei Tos, Diogene Alessandro	A	IAC-15.C1.4.3
Deimi, Michael	CA	IAC-15.E7.IP.6
DEI Bianco, Alberto	CA	IAC-15.D2.4.5
DEI Bianco, Alberto	CA	IAC-15.D6.3.1
Del Mastro, Antonio	CA	IAC-15.B3.5.1
Del Mastro, Antonio	CA	IAC-15.A5.3-B3.6.1
del Monte, Luca	A	IAC-15.E3.3.2
del Monte, Luca	A	IAC-15.D5.4.3
Del Rio Bellisco, Aaron	CA	IAC-15.C3.4.4
Deleuze, Muriel	CA	IAC-15.A3.4.6
Delfini, Andrea	CA	IAC-15.C2.4.4
Delfini, Andrea	CA	IAC-15.C2.8.12
Delgado, Armando	A	IAC-15.A3.2B.8
Delgado Lopez, Laura	A	IAC-15.E3.1.5
Delière, Quentin	CA	IAC-15.A1.3.5
Della-Rose, Devin	CA	IAC-15.E1.8.4
Deloo, Philippe	A	IAC-15.B3.1.6
DeMattia, Brianna	CA	IAC-15.D3.3.5
Demchenko, Vadym	A	IAC-15.D5.1.3
Deme, Sandor	CA	IAC-15.A1.5.2
Deme, Sándor	CA	IAC-15.A1.5.12
Demidov, Ivan	CA	IAC-15.B2.6.3
Demidovich, Nickolas	A	IAC-15.D6.1.7
DEMPSEY, PAUL	A	IAC-15.D6.1.5
Denenberg, Elad	A	IAC-15.A6.7.4
Deng, Shengda	A	IAC-15.A1.IP.13
Deng, Weihua	CA	IAC-15.C2.IP.47
DENIS, Gil	A	IAC-15.B1.1.8
DENIS, Gil	A	IAC-15.D1.1.4
DENIS, Gil	A	IAC-15.E1.2.10
Dentis, Matteo	CA	IAC-15.D2.4.3
Depenbrock, Brett	CA	IAC-15.D1.6.1
Derechin, Alexander G.	A	IAC-15.B3.2.2
Derechin, Alexander G.	CA	IAC-15.A5.1.9
Deremaux, Carole	CA	IAC-15.D2.1.4
Desai, Shardul	CA	IAC-15.E2.4.10
Desai, Vishal	CA	IAC-15.E2.4.10
Deshapriya, Prasanna	CA	IAC-15.D3.2.7
Desinov, Lev	CA	IAC-15.B3.3.8
Desole, Elisa	A	IAC-15.A3.IP.43
DESPRAZ, Jérémie	CA	IAC-15.D6.1.4
Desroches, Prescilia	CA	IAC-15.E1.3.8
Detrell Domingo, Gisela	CA	IAC-15.A1.7.7
Deverel, Steven	CA	IAC-15.B1.6.3
Dextre, Roberto	CA	IAC-15.C4.4.5
Di Cara, Davina	CA	IAC-15.C4.IP.46
Di Carlo, Marilena	CA	IAC-15.C1.2.9
di Ciaccio, Simona	A	IAC-15.E3.3.6
Di Clemente, Marco	A	IAC-15.C4.2.9
di Francescantonio, Nicola	A	IAC-15.B6.1.7
Di Lazzaro, Massimo	CA	IAC-15.A6.8.3
Di Lizia, Pierluigi	A	IAC-15.A3.4.3
Di Maggio, Lorenzo	CA	IAC-15.A6.IP.26
Di Marco, Nicola	CA	IAC-15.C2.IP.29
Di Pentino, Frank	CA	IAC-15.A6.2.7



Di Pentino, Frank	CA	IAC-15.A6.7.3
Di Roberto, Riccardo	A	IAC-15.C2.7.11
Di Tana, Valerio	CA	IAC-15.A2.6.8
Di Costanzo, Romain	CA	IAC-15.A6.2.5
Dian-fu, Liu	CA	IAC-15.A3.IP.11
Diaz, Alejandro	CA	IAC-15.B6.3.12
Diaz, Ana	A	IAC-15.A1.3.1
Diaz, Lluç	CA	IAC-15.E6.3.8
Dicaire, Isabelle	A	IAC-15.B1.2.6
DiCorcia, James D.	CA	IAC-15.D3.2.4
Diedrich, André	CA	IAC-15.A1.2.2
Diekmann, Andreas	CA	IAC-15.A3.2A.4
Dietrich, Georg	CA	IAC-15.B6.2.5
Dihuliya, Divya	A	IAC-15.E1.4.3
Dihuliya, Divya	CA	IAC-15.D5.2.1
Dimare, Linda	CA	IAC-15.A6.9.8
Dimino, Ignazio	CA	IAC-15.C2.IP.33
Dimopoulou, Amalia	A	IAC-15.E7.1.8
DING, Guo-hao	A	IAC-15.C2.IP.23
DING, Liangliang	CA	IAC-15.A3.IP.11
DING, Liangliang	CA	IAC-15.A3.2C.4
DING, Liangliang	CA	IAC-15.A3.2C.5
DING, Liangliang	CA	IAC-15.A3.2C.6
Dini, Luigi	CA	IAC-15.B1.5.3
Dinovitser, Alex	A	IAC-15.B1.IP.22
Dinovitser, Alex	A	IAC-15.B1.IP.30
Diodati, Gianluca	CA	IAC-15.C2.1.10
Dionisio, Roberto	CA	IAC-15.B1.IP.10
Dirkx, Dominic	CA	IAC-15.D2.5.8
Dittmer, Helder	A	IAC-15.B3.7.7
Divakarla, Aditya	A	IAC-15.E2.3-YPVF.4.5
Divakarla, Aditya	A	IAC-15.E3.3.10
Divakarla, Aditya	CA	IAC-15.D4.4.6
Djojodihardjo, Harijono	A	IAC-15.C2.3.1
Djojodihardjo, Harijono	A	IAC-15.B1.IP.33
Do, Sydney	A	IAC-15.A5.2.7
Dobrinskaya, Tatiana	A	IAC-15.B6.1.2
Dobrowski, Kamil	A	IAC-15.E7.IP.16
Doerflinger, Norbert	A	IAC-15.B2.6.2
Dolado Perez, Juan Carlos	A	IAC-15.A6.2.5
Dolado Perez, Juan Carlos	CA	IAC-15.A6.9.10
Dolce, Ferdinando	CA	IAC-15.A6.IP.40
Dolgoplov, Anton	A	IAC-15.E3.IP.7
Dolgov, Pavel	CA	IAC-15.B3.5.7
Dombrovski, Slavi	CA	IAC-15.D1.4.2
Dombrovski, Slavi	A	IAC-15.B6.2.6
Domínguez-González, Raúl	CA	IAC-15.A6.7.6
Donaldson, Nathan	A	IAC-15.A6.IP.24
Dong, Chen	CA	IAC-15.A1.IP.12
Dong, Chen	CA	IAC-15.A1.IP.17
Dong, Chen	CA	IAC-15.A1.7.9
Dong, Guangliang	CA	IAC-15.C1.9.8
Dong, Jie	A	IAC-15.A3.IP.22
Dong, Qijia	CA	IAC-15.B2.3.13
Dong, Shi-wei	CA	IAC-15.C3.2.5
Dong, Wenbo	A	IAC-15.A2.6.9
Dong, Wenbo	CA	IAC-15.B4.6A.8
Dong, Wu	CA	IAC-15.C4.3.11
DONG, Yaojun	CA	IAC-15.C2.IP.4
Dong, Yazhou	A	IAC-15.C3.2.5
Dong, Yonghui	CA	IAC-15.B3.IP.6
Dong, Yonghui	CA	IAC-15.C2.IP.9
Dong, Zeng	A	IAC-15.D2.1.1
Dong, Zeng	CA	IAC-15.D6.1.2
Dong, Zhenghong	A	IAC-15.D1.2.5
Dong, Zhenghong	CA	IAC-15.D1.IP.4
DONGBAI, Li	A	IAC-15.C1.5.11
Donoviel, Dorit	A	IAC-15.A1.IP.14
Donoviel, Dorit	CA	IAC-15.E1.5.1
Donval, Ariela	A	IAC-15.B1.IP.12
Dor, Mehregan	A	IAC-15.E2.2.5
Dore Roda, Eduardo	CA	IAC-15.D2.7.3
Dorrington, Scott	A	IAC-15.D4.3.9
Dos Santos, Alvaro Fabricio	A	IAC-15.E7.3.9
Dotsenko, Oleg	A	IAC-15.C2.6.1
Doule, Ondrej	CA	IAC-15.B3.5.8
Dragasanu, Claudiu Gabriel	CA	IAC-15.C2.6.4
Dragasanu, Claudiu Gabriel	CA	IAC-15.B4.6B.3
Dragasanu, Claudiu Gabriel	CA	IAC-15.C3.4.3

Draper, Susan	CA	IAC-15.C2.9.3
Drego, Adelia	A	IAC-15.C2.3.4
Drescher, Juergen	CA	IAC-15.A1.2.2
Driedger, Matthew	CA	IAC-15.A1.IP.20
Driedger, Matthew	CA	IAC-15.D1.3.4
Driedger, Matthew	CA	IAC-15.A1.6.4
Driedger, Matthew	A	IAC-15.B5.1.8
Driscoll, Elizabeth	A	IAC-15.C4.1.9
Dron', Mykola	CA	IAC-15.D2.7.7
Dropmann, Michael	CA	IAC-15.A6.3.6
Dropmann, Michael	CA	IAC-15.A2.5.4
Du, Feiping	A	IAC-15.C4.5.4
Du, Hongfeng	A	IAC-15.B2.IP.12
DUAN, Li	CA	IAC-15.A2.4.1
DUAN, Li	A	IAC-15.A2.4.3
Duan, Xun	A	IAC-15.A3.IP.5
Duarte, Carlos	CA	IAC-15.E1.6.7
Duberti, Guillermo	A	IAC-15.E7.2.6
Dubois, Chantelle	CA	IAC-15.A1.IP.20
Dubois, Chantelle	A	IAC-15.E7.IP.6
Dubois, Chantelle	CA	IAC-15.D1.3.4
Dubois, Chantelle	CA	IAC-15.A1.6.4
Dubois, Chantelle	CA	IAC-15.B5.1.8
Ducci, Cosimo	CA	IAC-15.C4.IP.41
Dudal, Clement	CA	IAC-15.B2.4.1
Dudal, Clement	A	IAC-15.B2.4.2
Dudal, Clement	CA	IAC-15.B2.6.5
Dudal, Clement	CA	IAC-15.B4.6A.12
Dudas, Joel	CA	IAC-15.B1.6.3
Duerfeld, Kai	CA	IAC-15.D3.2.7
Duggan, John	A	IAC-15.E5.IP.4
Duggan, John	A	IAC-15.E7.5.3
Duggan, Matthew	A	IAC-15.B3.3.11
Duggan, Matthew	CA	IAC-15.A5.1.8
Duggan, Matthew	A	IAC-15.A5.1.10
Duke, Richard	CA	IAC-15.A6.IP.12
Dumas, Stephane	CA	IAC-15.A4.2.1
Dunlap, Molly	CA	IAC-15.D6.1.3
Dunn, Jason	A	IAC-15.A5.3-B3.6.7
Dunstan, Martin	CA	IAC-15.C1.IP.18
Dunér, David	A	IAC-15.A4.2.5
Dupas, Alain	CA	IAC-15.A5.2.3
Dupouy, Guillaume	CA	IAC-15.C4.2.1
Duque, Alejandro	CA	IAC-15.A1.8.5
Duran, Adelaida	CA	IAC-15.B2.4.2
DURAND, Joëlle	A	IAC-15.B6.IP.3
Durmus, Duygu	A	IAC-15.A1.IP.18
Durrant, Stephen	CA	IAC-15.A3.IP.19
Dushin, Vladislav	CA	IAC-15.A2.2.4
Dushin, Vladislav	CA	IAC-15.A2.4.5
Duskaliev, Almira	CA	IAC-15.E7.2.11
Dussy, Stephane	CA	IAC-15.D2.6.5
Dutt, Pooja	A	IAC-15.A3.2C.7
Duzzi, Matteo	CA	IAC-15.D3.3.7
Duzzi, Matteo	CA	IAC-15.C2.5.2
Duzzi, Matteo	CA	IAC-15.B4.6B.5
Dwa, Manisha	CA	IAC-15.E1.1.3
Dyakova, Veronika	CA	IAC-15.A2.2.2
Dyrek, Michał	CA	IAC-15.D1.1.6
Dyrek, Michał	CA	IAC-15.A2.3.4
Dyrek, Michał	CA	IAC-15.A6.IP.23
Dzhabarov, Maxim	A	IAC-15.D2.IP.3
Dziura, Martin	CA	IAC-15.B4.6B.11
Díaz Infante, Juan	A	IAC-15.B4.1.9
Díaz Infante, Juan	A	IAC-15.E5.4.2

E

Name	Role	Paper
EAPEN, ROSHAN THOMAS	A	IAC-15.A3.IP.13
Echeverria, Esteban	A	IAC-15.E1.4.6
Eckardt, Andreas	A	IAC-15.B1.3.6
Edwards, Charles D.	CA	IAC-15.A3.3A.6
Efraim, Yael	A	IAC-15.B1.IP.7
Efraim, Yael	CA	IAC-15.B1.6.5
Efraim, Yael	CA	IAC-15.B5.1.3
Efrati, Shai	CA	IAC-15.B1.6.1

Efteland, Jørn Iversen	CA	IAC-15.E2.3-YPVF.4.4
Egger, Patricia	CA	IAC-15.A3.IP.33
Egorov, Alexander	CA	IAC-15.A2.5.1
Egorov, Alexey	CA	IAC-15.A3.IP.16
Ehard, Stefan	CA	IAC-15.C2.9.2
Ehrenfreund, Pascale	CA	IAC-15.E3.2.1
Ehrminger, Robin	A	IAC-15.E1.4.3
Ehrminger, Robin	CA	IAC-15.D5.2.1
Ehsan, Negar	CA	IAC-15.A7.3.3
Eiblmaier, Matthias	CA	IAC-15.A3.4.1
Eide, Marius Berge	CA	IAC-15.E1.4.2
Eigenbrod, Christian	CA	IAC-15.A2.5.3
Eilingsfeld, Fabian	CA	IAC-15.D4.2.1
Eisfelder, Michael	A	IAC-15.C2.IP.21
Eissfeller, Bernd	CA	IAC-15.A3.IP.15
Eissfeller, Bernd	CA	IAC-15.A3.IP.30
Eissfeller, Bernd	CA	IAC-15.C1.7.4
EJALE, OMONZOKPIA	A	IAC-15.E1.6.10
Elawad, Ali	CA	IAC-15.B4.7.6
Eliaz, Noam	CA	IAC-15.C2.IP.35
Elisha, Yossi	CA	IAC-15.C1.2.2
Eilitzur, Shani	CA	IAC-15.B3.7.4
Ellery, Alex	A	IAC-15.D4.3.6
Elliott, Robert	CA	IAC-15.E1.2.1
Ellis, David	CA	IAC-15.C2.9.3
Ellis, Kim	A	IAC-15.E1.5.4
Elmaddawi, Rania	A	IAC-15.A1.IP.19
Elmaddawi, Rania	CA	IAC-15.A2.IP.5
Elsner, Jens	CA	IAC-15.B2.1.1
Elvis, Martin	CA	IAC-15.E3.IP.2
Elvis, Martin	A	IAC-15.E6.3.5
Elvis, Martin	A	IAC-15.D4.3.10
Elyashiv, Moti	CA	IAC-15.C4.1.10
Emanuela, D'Aversa	A	IAC-15.C4.1.7
Emanuelli, Matteo	CA	IAC-15.A5.2.8
Emanuelli, Matteo	CA	IAC-15.A6.IP.21
Emanuelli, Matteo	CA	IAC-15.A6.IP.42
Emanuelli, Matteo	CA	IAC-15.E3.IP.3
Emanuelli, Matteo	CA	IAC-15.E3.4.6
Emanuelli, Matteo	A	IAC-15.E3.5-E7.6.4
Emmanuel, Robert	CA	IAC-15.B2.4.1
Emmanuel, Robert	CA	IAC-15.B2.4.2
Emmanuel, Robert	CA	IAC-15.B2.6.5
Emmanuel, Robert	CA	IAC-15.B4.6A.12
Ercoli Finzi, Amalia	CA	IAC-15.A3.4.3
Erez, Yuval	CA	IAC-15.B1.3.3
Erinfolami, Funmilayo	CA	IAC-15.A6.IP.49
Ernest, Hepzibah	CA	IAC-15.B4.1.3
Ernst, Robert	CA	IAC-15.B1.2.8
Ernst, Robert	A	IAC-15.B1.IP.32
Ernst, Sebastian M.	A	IAC-15.D3.2.4
Escorial-Olmos, Diego	CA	IAC-15.A6.5.9
Essado de Moraes, Marcelo Henrique	A	IAC-15.B4.3.8
Estable, Stephane	CA	IAC-15.A6.6.5
Ettl, Josef	CA	IAC-15.D2.5.6
Ettl, Josef	A	IAC-15.D2.7.3
Evans, David	CA	IAC-15.B2.4.4
Evans, David	CA	IAC-15.B2.4.5
Evans, David	CA	IAC-15.B2.6.4
Evans, David	CA	IAC-15.B4.6B.9
Evans, Eliot	CA	IAC-15.E5.5.1
Eves, Stuart	CA	IAC-15.E1.2.1
Ewert, Megan	A	IAC-15.B1.5.5
Eyer, Laurent	CA	IAC-15.A7.2.5
Eytan, Raanan	CA	IAC-15.C4.IP.43
Eytan, Raanan	CA	IAC-15.C4.4.4

F

Name	Role	Paper
Faber, Daniel	CA	IAC-15.D3.2.4
Faber, Nicolas	CA	IAC-15.A6.6.8
Fabrizio, Capaccioni	CA	IAC-15.A3.5.4
Fabrizio, Carrai	CA	IAC-15.B3.4-B6.5.7

Facchinetti, Claudia	CA	IAC-15.B2.3.6
Facchinetti, Claudia	A	IAC-15.B1.3.1
Facchinetti, Claudia	CA	IAC-15.B4.4.1
Facchinetti, Massimo	CA	IAC-15.A3.IP.43
FADAHUNSI-BANJO, MOTOLANI	A	IAC-15.E7.2.8
Fain, Maksim	CA	IAC-15.C1.1.7
Faizullin, Dmytro	A	IAC-15.B2.4.7
Falkner, Peter	CA	IAC-15.A3.3A.5
Falkner, Peter	CA	IAC-15.A3.IP.28
FAN, Chunshi	CA	IAC-15.C1.IP.7
FAN, Chunshi	A	IAC-15.C1.6.2
FAN, DA	A	IAC-15.C1.IP.7
FAN, DA	CA	IAC-15.C1.6.2
FAN, YuFeng	CA	IAC-15.C2.7.7
Fang, Baodong	CA	IAC-15.C2.5.4
Fang, Qun	CA	IAC-15.C1.IP.2
Fang, Zhou	A	IAC-15.C2.IP.8
Fang, Zhou	A	IAC-15.C2.8.2
Fanpei, Lei	CA	IAC-15.C4.1.3
Fanpei, Lei	CA	IAC-15.E4.9.1
Fanpei, Lei	CA	IAC-15.C4.5.3
Fantinati, Cinzia	CA	IAC-15.B6.3.3
Fantinati, Cinzia	CA	IAC-15.A3.4.2
Faragalli, Michele	CA	IAC-15.E1.4.1
Farooque, Mahmud	CA	IAC-15.E1.8.1
Farrés, Ariadna	A	IAC-15.C1.2.6
Farrés, Ariadna	CA	IAC-15.C1.3.8
Fasano, Luca	A	IAC-15.B6.3.4
Fasoulas, Stefanos	CA	IAC-15.A5.1.4
Fasoulas, Stefanos	CA	IAC-15.A1.7.7
Fasoulas, Stefanos	CA	IAC-15.D1.6.7
Fasoulas, Stefanos	CA	IAC-15.C2.9.5
Faure, Guillaume	CA	IAC-15.C1.IP.11
Faure, Guillaume	CA	IAC-15.E2.4.4
Faust, Lena	CA	IAC-15.A1.8.5
Favier, Jean-Jacques	CA	IAC-15.E6.3.2
Fecht, Alexander	A	IAC-15.E2.3-YPVF.4.3
Fecht, Hans	A	IAC-15.A2.6.4
Federico, Giulia	CA	IAC-15.A6.IP.21
Fei, Jun	CA	IAC-15.C4.5.6
Feingersh, Tal	CA	IAC-15.B1.2.2
Feingersh, Tal	CA	IAC-15.B1.IP.7
Feingersh, Tal	A	IAC-15.B1.6.5
Feingersh, Tal	A	IAC-15.B5.1.3
Feingersh, Tal	CA	IAC-15.B5.1.4
Fell, Chris	CA	IAC-15.B4.6A.9
Fellinger, Gerhard	A	IAC-15.B6.2.5
Felsenberg, Dieter	CA	IAC-15.A1.3.7
Feng, Junhong	A	IAC-15.C4.9.10
Feng, Li	A	IAC-15.A6.IP.18
Feng, Li	A	IAC-15.A6.IP.44
Feng, Shao-wei	A	IAC-15.C2.IP.10
Feng, Xuan	CA	IAC-15.B2.6.10
Fengyu, Chen	CA	IAC-15.B4.5.5
Fenoglio, Franco	CA	IAC-15.A3.3A.10
Fenoglio, Franco	CA	IAC-15.D2.4.5
Fenoglio, Franco	CA	IAC-15.D6.3.1
Fernandez, Miguel Angel	A	IAC-15.B2.4.1
Fernandez, Miguel Angel	A	IAC-15.B2.4.5
Fernandez, Miguel Angel	A	IAC-15.B2.6.4
Fernandez, Miguel Angel	A	IAC-15.B2.6.5
Fernandez, Miguel Angel	A	IAC-15.B4.6A.12
Fernandez, Miguel Angel	A	IAC-15.B4.6B.9
Fernandez Prim, David	CA	IAC-15.B2.3.2
Ferraioli, Giuseppe	CA	IAC-15.E5.1.7
Ferraioli, Giuseppe	CA	IAC-15.E1.7.10
Ferrando, Emanuele	A	IAC-15.C3.3.5
Ferrari, Fabio	CA	IAC-15.C1.3.1
Ferrario, Lorenzo	CA	IAC-15.A6.4.3
Ferrario, Lorenzo	CA	IAC-15.E3.4.6
Ferraris, Simona	CA	IAC-15.D2.4.3
Ferraris, Simona	CA	IAC-15.C4.IP.47
Ferraris, Simona	CA	IAC-15.A6.6.5
Ferraz, Alessandra	CA	IAC-15.D4.3.2
Ferreira, Ivo	CA	IAC-15.A7.1.4



Ferreira, Maurício Gonçalves Vieira	CA	IAC-15.B3.4-B6.5.6
Ferrer Desclaux, David	CA	IAC-15.B3.2.8
Ferretti, Stefano	CA	IAC-15.D4.2.7
Ferretti, Stefano	CA	IAC-15.B1.IP.18
Ferretti, Stefano	A	IAC-15.D3.4.4
Ferri, Antonella	A	IAC-15.A3.3A.10
Ferri, Francesca	A	IAC-15.A3.3B.7
Ferri, Paolo	CA	IAC-15.A3.4.1
Ferrier, Pierric	A	IAC-15.B1.2.1
Feruglio, Lorenzo	A	IAC-15.B4.6B.8
Feudo, Fabio	CA	IAC-15.A6.IP.40
Fidanzati, Paolo	CA	IAC-15.C1.5.10
Fiederle, Michael	CA	IAC-15.A2.4.4
Fiedler, Hauke	CA	IAC-15.D1.4.9
Figueroa Gonzalez, Perla Abigail	CA	IAC-15.A1.6.2
Filippazzo, Giancarlo	A	IAC-15.D1.3.9
Filippetto, Daniele	CA	IAC-15.A2.3.3
Findlay, Ross	CA	IAC-15.A3.4.6
Finkleman, David	A	IAC-15.A6.2.4
Finocchiaro, Stefano	CA	IAC-15.A3.5.6
Finogenov, Sergey	A	IAC-15.C3.3.3
Finogenov, Sergey	A	IAC-15.C4.8.2
Fiore, Grazia Maria	A	IAC-15.E3.3.8
Fisackerly, Richard	CA	IAC-15.A3.2B.2
Fischer, Erik	CA	IAC-15.A3.3B.3
Fischer, Rolf-Dieter	CA	IAC-15.D3.4.1
Fischerbauer, Alice	CA	IAC-15.C4.5.2
Fischerbauer, Gerhard	CA	IAC-15.C4.5.2
Fisher, Erik	CA	IAC-15.E3.4.8
Fitz-Coy, Norman	CA	IAC-15.A6.1.7
Fitz-Coy, Norman	CA	IAC-15.A6.2.9
Fixsen, Dale	CA	IAC-15.D1.6.4
Flamini, Enrico	CA	IAC-15.B4.3.1
Flamini, Enrico	A	IAC-15.A3.3A.7
Flamini, Enrico	A	IAC-15.A3.5.4
Flanigan, Sarah	A	IAC-15.A3.5.1
Fleck, Bernhard	CA	IAC-15.E1.IP.6
Fleischmann, Patrick	CA	IAC-15.B4.4.5
Fleischner, Andreas	CA	IAC-15.B6.3.8
Flenner, Lukas	CA	IAC-15.E2.3-YPVF.4.6
Fleron, Rene	A	IAC-15.B4.4.2
Fleurinck, Nico	CA	IAC-15.D2.6.5
Floch, Jean-Jacques	CA	IAC-15.B2.3.2
Flohr, Julius	CA	IAC-15.B2.IP.9
Flohner, Tim	CA	IAC-15.A6.1.6
Florczuk, Wojciech	A	IAC-15.C4.3.9
Florczuk, Wojciech	CA	IAC-15.D2.7.10
Florczuk, Wojciech	A	IAC-15.C4.8.4
Flores, Carlos	A	IAC-15.D2.6.7
Flores Martinez, Claudio	CA	IAC-15.A3.IP.8
Fodé, Constance	A	IAC-15.E1.3.8
Fogel, Joshua	A	IAC-15.C1.1.3
Fogel, Joshua	A	IAC-15.B3.5.5
Foing, Bernard	A	IAC-15.A3.2A.1
Foing, Bernard	A	IAC-15.A3.2B.11
Foing, Bernard	A	IAC-15.A3.3A.8
Foing, Bernard	CA	IAC-15.A1.IP.8
Foing, Bernard	CA	IAC-15.A3.IP.43
Foing, Bernard	CA	IAC-15.E5.2.2
Fokov, Alexandr	CA	IAC-15.A6.5.5
Foley, Cathy	CA	IAC-15.E5.4.7
Folta, David C.	CA	IAC-15.C1.2.4
Fomina, Elena	A	IAC-15.A1.4.3
Fonseca, Lucas	A	IAC-15.A3.2C.12
Forget, Francois	CA	IAC-15.A3.3B.7
Forleo, Vincenzo	CA	IAC-15.D2.4.5
Formaro, Roberto	CA	IAC-15.B1.3.7
Formaro, Roberto	CA	IAC-15.B4.4.1
Formaro, Roberto	CA	IAC-15.C4.4.15
Formaro, Roberto	CA	IAC-15.A3.5.4
Forshaw, Jason	A	IAC-15.D4.1.9
Forshaw, Jason	A	IAC-15.A6.IP.12
Forshaw, Jason	CA	IAC-15.C1.6.1
Forshaw, Jason	A	IAC-15.A6.6.3

Forster, Rudolf	CA	IAC-15.D2.5.10
Fortov, Vladimir	CA	IAC-15.A2.IP.4
Fortunato, Antonio	CA	IAC-15.B3.4-B6.5.2
Fortunato, Antonio	A	IAC-15.B3.4-B6.5.4
Fortunato, Antonio	CA	IAC-15.B3.5.3
Fossati, Enrico	CA	IAC-15.B1.3.7
Foulds, Craig F.	CA	IAC-15.D3.2.4
Foulon, Bernard	A	IAC-15.A2.1.1
Foulon, Bernard	A	IAC-15.B1.IP.9
Frame, Thomas	CA	IAC-15.C1.6.1
Francesconi, Alessandro	CA	IAC-15.B2.1.5
Francesconi, Alessandro	CA	IAC-15.D3.3.7
Francesconi, Alessandro	CA	IAC-15.E2.3-YPVF.4.11
Francesconi, Alessandro	A	IAC-15.A6.3.1
Francesconi, Alessandro	CA	IAC-15.D1.2.6
Francesconi, Alessandro	CA	IAC-15.D1.2.7
Francesconi, Alessandro	CA	IAC-15.C2.5.2
Francesconi, Alessandro	CA	IAC-15.B4.6B.5
Francesconi, Alessandro	CA	IAC-15.C2.7.9
Franchi, Loris	CA	IAC-15.B4.6B.8
Francisco, Tiago	CA	IAC-15.A3.4.1
Franzen, Roger	CA	IAC-15.A7.1.3
Frappe, Jean-Baptiste	CA	IAC-15.B4.8.2
Fraux, Vincent	CA	IAC-15.C2.2.7
Frazier, Kelley	A	IAC-15.A1.8.7
Fredrick, Sonia R	CA	IAC-15.B1.IP.16
Free, James	CA	IAC-15.C2.9.3
Freeborn, Peter	A	IAC-15.D2.2.7
Freedman, Laurence	CA	IAC-15.A1.4.2
Freeh, Joshua	A	IAC-15.D1.4.3
Freeland, Steven	A	IAC-15.E7.2.1
Freeland, Steven	CA	IAC-15.E1.7.6
Freimann, Andreas	CA	IAC-15.B4.3.5
Freimann, Andreas	CA	IAC-15.D1.4.2
FREMEAUX, Claire	A	IAC-15.A6.7.1
Frese, Walter	CA	IAC-15.B2.1.10
Frick, Andreas	CA	IAC-15.A3.5.8
Fried, Irit	CA	IAC-15.E1.2.7
Friedman, Louis	CA	IAC-15.D4.4.2
Friedrich, Ulrike	CA	IAC-15.A2.3.2
Frischauf, Norbert	A	IAC-15.B2.3.5
Froebel, Ludger	CA	IAC-15.D3.4.1
Froehlich, Angelika	CA	IAC-15.C2.9.2
Froehlich, Annette	A	IAC-15.E7.3.5
Fronton, J.-F.	CA	IAC-15.B6.3.3
Fruchtman, Amnon	A	IAC-15.C4.4.9
Frundzula, Florin	CA	IAC-15.C4.IP.36
Fryer, Michael John	CA	IAC-15.E1.7.11
Fröhlich, Hubert	CA	IAC-15.B4.4.9
Fu, Na	CA	IAC-15.D6.1.10
Fu, Weida	A	IAC-15.B4.2.4
Fu, Xiuwen	CA	IAC-15.C4.IP.20
Fu, Xiuwen	CA	IAC-15.C4.IP.24
Fu, Yang	CA	IAC-15.C2.7.7
Fu, Yu	A	IAC-15.E7.IP.12
Fu, Yuming	CA	IAC-15.A1.IP.17
Fu, Yuming	CA	IAC-15.A1.7.9
Fuglesang, Christer	A	IAC-15.B3.3.9
Fuglesang, Christer	A	IAC-15.E1.6.9
Fuglseth, Anders Nikolai	CA	IAC-15.E2.3-YPVF.4.4
Fujihira, Koichi	CA	IAC-15.B4.6A.7
Fujimoto, Keiichiro	CA	IAC-15.D2.4.2
Fujino, Masao	CA	IAC-15.E7.4.12
Fujino, Yoshiyuki	CA	IAC-15.B2.6.7
Fujishima, Toyohisa	CA	IAC-15.E1.2.9
FUJITA, Kazuhisa	A	IAC-15.A3.3A.3
Fujita, Takeshi	CA	IAC-15.D2.4.2
Fujizawa, Teruo	CA	IAC-15.C3.2.1
Fukuda, Hiroshi	A	IAC-15.D5.3.5
Fukuda, Nobuhiko	CA	IAC-15.B4.5.4
FUKUDA, Yuya	CA	IAC-15.C4.1.8
FUKUDA, Yuya	CA	IAC-15.C4.3.2
Fukuhara, Hajime	CA	IAC-15.D1.4.5
Fulford, Paul	CA	IAC-15.A3.3B.9

Fulford, Paul	CA	IAC-15.A5.1.8
Fulford, Paul	CA	IAC-15.A5.3-B3.6.2
Fulford, Paul	CA	IAC-15.A5.3-B3.6.4
Fuller, Christine	CA	IAC-15.A2.3.1
Fumagalli, Alessandro	CA	IAC-15.A3.2B.2
Fumagalli, Alessandro	A	IAC-15.A3.IP.19
Funase, Ryu	CA	IAC-15.C1.1.8
Funke, Quirin	A	IAC-15.A6.4.7
Funtova, Irina	CA	IAC-15.A1.2.2
Funtova, Irina	CA	IAC-15.A1.3.3
Funtova, Irina	CA	IAC-15.A1.3.5
Furutomo, Daisuke	CA	IAC-15.A2.6.5
Fusaro, Roberta	A	IAC-15.E2.1.3
Fusaro, Roberta	CA	IAC-15.D2.4.5
Fusaro, Roberta	CA	IAC-15.D6.3.1
Förstner, Roger	CA	IAC-15.D1.1.5
Förstner, Roger	CA	IAC-15.A3.IP.8
Förstner, Roger	CA	IAC-15.A3.IP.15
Förstner, Roger	CA	IAC-15.A3.IP.30
Förstner, Roger	CA	IAC-15.D1.4.9
Förstner, Roger	CA	IAC-15.C1.7.4

G

Name	Role	Paper
G, Abbashek	CA	IAC-15.C3.1.8
G, Abbashek	A	IAC-15.D4.1.5
G, Abbashek	CA	IAC-15.C3.9.9
G, Abbashek	CA	IAC-15.D4.3.7
G, Abbashek	CA	IAC-15.D4.3.11
G, Abbashek	A	IAC-15.D4.3.14
G, Abbashek	CA	IAC-15.C4.7-C3.5.3
Gaboriaud, Alain	CA	IAC-15.B2.4.5
Gaboriaud, Alain	CA	IAC-15.B2.6.4
Gaboriaud, Alain	CA	IAC-15.B4.6B.9
Gabriel, Stephen	A	IAC-15.C4.IP.34
Gabriele, Cremonese	CA	IAC-15.A3.5.4
Gabrielli, Alessandro	CA	IAC-15.A2.1.8
Gabrielli, Alessandro	A	IAC-15.A3.IP.36
Gabrielli, Alessandro	CA	IAC-15.C2.6.5
Gabrielli, Simone	CA	IAC-15.B1.2.8
Gabrynowicz, Joanne Irene	A	IAC-15.E7.1.1
Gaddam, Bhanu Swaroop	A	IAC-15.E2.3-YPVF.4.5
Gaddam, Bhanu Swaroop	A	IAC-15.E3.3.10
Gaddam, Bhanu Swaroop	CA	IAC-15.D4.4.6
Gadzicki, Konrad	CA	IAC-15.A3.IP.15
Gaeta, Michele	CA	IAC-15.B4.2.7
Gahlot, Abhijeet	A	IAC-15.D2.IP.1
Gai, Frédéric	CA	IAC-15.A2.3.2
Gaias, Gabriella	CA	IAC-15.C1.8.11
Gaikwad, Kishor	CA	IAC-15.C3.IP.3
Gaikwad, Kishor	CA	IAC-15.C3.4.8
Gaino, Marco	CA	IAC-15.E2.3-YPVF.4.11
GAL, Avi	A	IAC-15.B5.2.3
Gal, Csaba	CA	IAC-15.A7.3.1
Gal-Yam, Avishay	CA	IAC-15.B4.2.2
Gal-Yam, Avishay	CA	IAC-15.A7.2.1
Galano, Damien	CA	IAC-15.B4.2.5
Galano, Damien	CA	IAC-15.B4.2.5
Galante, Douglas	CA	IAC-15.A3.2C.12
Galanti, Eli	A	IAC-15.A3.IP.38
Galanti, Eli	CA	IAC-15.A3.5.6
Galantini, Paolo	CA	IAC-15.B1.IP.10
Galeone, Piero	A	IAC-15.E2.4.1
Galeriu, Lulia-Diana	A	IAC-15.E7.IP.14
Galipienzo, Julio	CA	IAC-15.A3.IP.34
Gallego Sanz, Jose Maria	CA	IAC-15.D6.3.7
Galrani, Kamal	A	IAC-15.A3.IP.2
Galrani, Kamal	CA	IAC-15.A3.IP.26
Galvez, Andres	CA	IAC-15.A3.4.9
Gamal, Hamed	CA	IAC-15.A5.2.8
Gamal, Hamed	CA	IAC-15.E3.IP.3
Gamal, Hamed	CA	IAC-15.E1.6.8
Gamboia Bontje, Carlos	CA	IAC-15.D1.1.2

Gangami, Farid	CA	IAC-15.A7.3.1
Ganesh Mukunda, Sandeep	CA	IAC-15.E2.4.7
Gang, Qiang	CA	IAC-15.C4.9.5
Gangestad, Joseph	A	IAC-15.A6.9.1
Ganin, Igor	CA	IAC-15.E4.2.4
Gano, Gretchen	CA	IAC-15.E1.8.1
Ganot, Noam	A	IAC-15.A7.2.2
Ganti, Hemant	CA	IAC-15.C2.6.9
Gany, Alon	CA	IAC-15.C4.2.4
Gany, Alon	CA	IAC-15.C4.5.8
Gany, Alon	CA	IAC-15.B3.7.4
Gao, Ai	CA	IAC-15.A3.IP.7
Gao, Ai	CA	IAC-15.A3.IP.18
Gao, ChangSheng	CA	IAC-15.C1.1.7
GAO, Chen	CA	IAC-15.A7.3.4
GAO, HE	A	IAC-15.C2.IP.36
Gao, Ji	CA	IAC-15.B1.2.7
GAO, WEI	A	IAC-15.A3.2A.2
Gao, Weijun	CA	IAC-15.B1.4.6
Gao, Xin	A	IAC-15.D5.3.4
Gao, Yang	CA	IAC-15.C1.6.1
Garbi, Giuliani	A	IAC-15.D3.4.7
GARCIA, Jordi	A	IAC-15.A3.3B.10
GARCIA, MICHEL	A	IAC-15.A1.8.8
GARCIA, MICHEL	CA	IAC-15.A2.4.10
Garcia Yarnoz, Daniel	CA	IAC-15.C1.1.10
Garcia Yarnoz, Daniel	A	IAC-15.C1.2.8
García-de-Quirós, Francisco	A	IAC-15.D1.4.7
Garg, Parth	A	IAC-15.B1.IP.4
Garner, Charles	A	IAC-15.C4.4.14
Garton, David	CA	IAC-15.D1.5.1
Gasbarri, Paolo	A	IAC-15.C2.2.5
Gasbarri, Paolo	A	IAC-15.C2.3.6
Gasbarri, Paolo	CA	IAC-15.C1.6.5
Gasbarri, Paolo	CA	IAC-15.C2.9.6
GASS, SAMUEL	CA	IAC-15.A1.8.8
Gass, Samuel	A	IAC-15.A2.4.10
Gass, Volker	CA	IAC-15.A6.6.2
Gates, Michele	A	IAC-15.A5.1.2
Gates, Michele	CA	IAC-15.A5.1.6
Gates, Michele	CA	IAC-15.E1.8.1
Gatica, Jorge	CA	IAC-15.D3.3.5
Gaudenzi, Paolo	CA	IAC-15.C2.5.5
Gaudon, Philippe	CA	IAC-15.B6.3.3
Gaudon, Philippe	CA	IAC-15.A3.4.2
Gauger, Peter	CA	IAC-15.A1.3.5
Gautam, Suman	A	IAC-15.E1.3.5
Gavigan, Patrick	A	IAC-15.D5.1.4
Gavilan, Lisseth	A	IAC-15.A2.1.9
Gavrilov, Sergey	CA	IAC-15.A1.6.1
Ge, Dongming	A	IAC-15.C1.6.9
Ge, Li	CA	IAC-15.A6.1.9
Ge, Shen	CA	IAC-15.D3.2.7
Gebauer, Ingo	CA	IAC-15.A3.IP.10
Gebauer, Ingo	CA	IAC-15.A3.3B.8
Gee, Alex	CA	IAC-15.E2.3-YPVF.4.2
Gee, Alex	CA	IAC-15.B3.7.9
Geers, Martijn	A	IAC-15.C1.IP.12
Geissman, Beat	CA	IAC-15.C1.IP.11
Geissman, Beat	CA	IAC-15.E2.4.4
Gemmer, Thomas	A	IAC-15.C4.IP.42
Gemmer, Thomas	A	IAC-15.C4.8.1
Genaro, Andrea F. S.	A	IAC-15.D5.1.9
GENG, HAI	CA	IAC-15.C4.IP.28
Geng, Liyin	CA	IAC-15.D1.6.12
Genta, Giancarlo	A	IAC-15.A5.2.3
Genta, Giancarlo	A	IAC-15.A5.3-B3.6.3
George, Raju K	CA	IAC-15.A3.2C.7
Georgy, Uspensky	CA	IAC-15.D2.8-A5.4.6
Gerecs, Andrés	CA	IAC-15.D5.3.7
Gerhards, Ute	CA	IAC-15.D3.4.1
Gerhardt, David	CA	IAC-15.B2.4.5
Gerhardt, David	CA	IAC-15.B2.6.4
Gerhardt, David	CA	IAC-15.B4.6B.9
Gerndt, Andreas	CA	IAC-15.D1.IP.13



Gerrits, Dennis	CA	IAC-15.B4.7.2
Gershon, Gal	CA	IAC-15.B1.IP.8
Gerstenmaier, William H.	A	IAC-15.B3.1.1
Gerstmann, Jens	CA	IAC-15.C4.5.2
Geshnizjani, Ramin	CA	IAC-15.C1.6.1
Geurts, Koen	CA	IAC-15.B6.3.3
Geurts, Koen	CA	IAC-15.A3.4.2
Gharib, Nima	A	IAC-15.D5.3.3
Gharib, Thierry	CA	IAC-15.A2.3.2
Ghasemzadeh, Leila	CA	IAC-15.E3.4.6
Ghosh, Ashis	CA	IAC-15.E2.3-YPVF.4.7
Giacomuzzo, Cinzia	CA	IAC-15.A6.3.1
Gian Gabriele, Ori	CA	IAC-15.A3.3A.7
Gianinnetto, Marco	CA	IAC-15.E5.5.2
Giannopapa, Christina	A	IAC-15.E3.1.7
Gibbings, Alison	CA	IAC-15.A7.3.1
Gibbs, Dave	CA	IAC-15.E1.2.1
Gierse, Andreas	CA	IAC-15.A2.1.3
Gierse, Andreas	A	IAC-15.A2.5.5
Gignac, Didier	CA	IAC-15.D4.1.9
Gil, Valerie	CA	IAC-15.B3.3.2
Gil Biraud, Miguel Eduardo	CA	IAC-15.B4.3.10
Gil-Fernandez, Jesus	A	IAC-15.A3.3B.11
Gilichinsky, Michael	CA	IAC-15.B1.6.5
Gill, Eberhard	CA	IAC-15.A6.5.7
Gill, Ranpal	CA	IAC-15.E1.IP.6
Gily, Alessandro	CA	IAC-15.A3.IP.19
Ginatti, Amnon	CA	IAC-15.B5.1.1
Ginosar, Ran	A	IAC-15.B2.6.1
Gioia, Marina	A	IAC-15.B2.5.4
Giommi, Paolo	CA	IAC-15.B4.2.10
Giommi, Paolo	CA	IAC-15.B4.3.1
Girardey, Catherine	A	IAC-15.B2.5.3
Giri, Dipak Kumar	CA	IAC-15.C1.9.11
Gitelson, Josef	A	IAC-15.A1.7.6
Giunti, Lorenzo	CA	IAC-15.B1.3.7
Giuseppe, Caggiano	A	IAC-15.C4.1.7
Gladkiy, Eduard	A	IAC-15.D5.1.2
Glaser, Thilo	A	IAC-15.C2.2.1
Glass, Brian	A	IAC-15.A3.3B.6
Gleyzes, Alain	CA	IAC-15.E1.2.10
Glowacki, Pawal	CA	IAC-15.A1.IP.20
Glowacki, Pawal	CA	IAC-15.A1.6.4
Gnyubkin, Vasily	CA	IAC-15.A1.IP.21
Gobert, Thibaud	CA	IAC-15.A5.3-B3.6.6
Goebel, Dan	CA	IAC-15.A3.5.2
Goel, Rahul	CA	IAC-15.A5.2.10
Goerries, Simon	CA	IAC-15.C1.6.1
Goh, Shu Ting	CA	IAC-15.C1.5.3
Golda, Carlo	A	IAC-15.E5.5.3
Goldman, Ron	CA	IAC-15.B1.6.1
Goldstein, Barry	A	IAC-15.A3.5.7
Golkar, Alessandro	CA	IAC-15.B1.IP.24
Golkar, Alessandro	CA	IAC-15.B2.5.8
Golkar, Alessandro	CA	IAC-15.D1.7.5
Gomes, Vivian	CA	IAC-15.C1.4.9
Gomez, Gerard	CA	IAC-15.C1.5.7
Gomez, Marco	A	IAC-15.E2.1.8
Gomez-Cid, Celestino	A	IAC-15.A3.3B.1
Gomez-Herrero, Raul	CA	IAC-15.D1.7.3
Gong, Jianglei	CA	IAC-15.D1.4.8
Gong, Jianglei	CA	IAC-15.D1.6.11
GONG, Jie	CA	IAC-15.C1.2.10
GONG, Jie	CA	IAC-15.C1.7.3
Gong, Mengmeng	A	IAC-15.A1.8.3
Gong, Shengping	CA	IAC-15.C1.3.9
GONG, Zizheng	CA	IAC-15.A6.3.2
GONG, Zizheng	A	IAC-15.A6.3.8
GONG, Zizheng	CA	IAC-15.A6.5.2
GONG, Zizheng	CA	IAC-15.C2.6.12
Gonzalez, Jesus	CA	IAC-15.D1.IP.19
Gonzalez, Jesus	A	IAC-15.C3.4.1
Gonzalez-Arjona, David	A	IAC-15.A3.2B.7
Gonzalez-Arjona, David	A	IAC-15.A3.3B.11
Gonzalo, Juan Luis	A	IAC-15.C1.2.5

González, Iván	CA	IAC-15.A6.5.8
González Peytaví, Graciela	CA	IAC-15.D4.1.2
González Peytaví, Graciela	CA	IAC-15.A3.IP.15
González Peytaví, Graciela	A	IAC-15.A3.IP.30
González Peytaví, Graciela	A	IAC-15.C1.7.4
Gopala Krishnan, V.	A	IAC-15.E3.4.3
Gopala Krishnan, V.	A	IAC-15.E7.7-B3.8.2
Gopinath, N.S.	CA	IAC-15.C1.7.11
Gordillo Pintor, Cecilia	A	IAC-15.D1.1.2
Gordon, Karsten	CA	IAC-15.B4.7.1
Gordon, Karsten	A	IAC-15.B4.7.4
Gorshkov, Andrey	A	IAC-15.A5.IP.3
Gorshkov, Andrey	CA	IAC-15.D2.8-A5.4.6
Gorswami, Bayar	A	IAC-15.E7.5.2
Goto, Masayuki	CA	IAC-15.A2.IP.3
Gounder, Velliangiri	A	IAC-15.E5.IP.3
Gourdon, Rémi	CA	IAC-15.E1.4.2
Gourinat, Yves	CA	IAC-15.E7.1.2
Gouzman, Irina	CA	IAC-15.C2.IP.35
Gouzman, Irina	CA	IAC-15.C2.IP.37
Gołębowski, Wojciech	A	IAC-15.D1.1.6
Gołębowski, Wojciech	A	IAC-15.A2.3.4
Gołębowski, Wojciech	CA	IAC-15.A6.IP.23
Gracia, Oscar	CA	IAC-15.B3.7.7
Gradini, Raffaele	CA	IAC-15.C2.1.8
Grande, Jøran	A	IAC-15.E1.2.8
Gransden, Derek	CA	IAC-15.A6.IP.2
Grau, Sebastian	A	IAC-15.C1.6.8
Grau, Sebastian	A	IAC-15.C2.9.4
GRAUBY, Emilie	CA	IAC-15.E4.1.3
Graw, Valerie	CA	IAC-15.E1.2.2
Graziani, Filippo	CA	IAC-15.B4.3.2
Graziani, Filippo	CA	IAC-15.B4.5.9
Graziani, Filippo	CA	IAC-15.C1.5.6
Graziani, Filippo	CA	IAC-15.C2.7.11
Graziani, Filippo	CA	IAC-15.B4.7.3
Graziano, Mariella	A	IAC-15.A6.5.9
Graziola, Giancarlo	CA	IAC-15.E3.3.6
Green, Adam	A	IAC-15.A3.2C.3
Greene, Pat	A	IAC-15.A1.2.5
Greenfeld, Bari	A	IAC-15.A4.2.6
Gregory, Steve	CA	IAC-15.A6.1.4
Gregucci, Stefan	CA	IAC-15.C4.6.7
Greig, Amelia	A	IAC-15.C4.IP.15
Gresham, Kimberlee	CA	IAC-15.E1.8.4
Gridchina, Tatiana	CA	IAC-15.A6.4.10
Grigoriev, Anatoly I.	A	IAC-15.A1.2.8
Grimm, Christian	CA	IAC-15.A3.4.6
Grinstein, Dan	CA	IAC-15.C4.IP.32
Grishko, Dmitriy	A	IAC-15.C1.3.11
Grishko, Dmitriy	CA	IAC-15.A6.IP.35
Grishko, Dmitriy	A	IAC-15.D1.IP.9
Grishko, Dmitriy	CA	IAC-15.B4.6A.6
Grishko, Dmitriy	CA	IAC-15.E1.7.4
Grocott, Simon	A	IAC-15.B4.4.9
Groenewald, Ben	CA	IAC-15.E1.8.7
Gronchi, Giovanni Federico	CA	IAC-15.A6.9.8
Gross, Jeremy	CA	IAC-15.A6.7.2
Grosse, Jens	CA	IAC-15.A2.1.4
Grosse, Jens	A	IAC-15.A2.5.6
Grossman, Eitan	CA	IAC-15.C2.IP.35
Grossman, Eitan	CA	IAC-15.C2.IP.37
Grothe, Dieter	CA	IAC-15.D2.5.6
Grott, Matthias	CA	IAC-15.A3.4.6
Grundmann, Jan Thimo	CA	IAC-15.A3.4.6
Gruntman, Mike	CA	IAC-15.D4.4.1
Gu, Ming	CA	IAC-15.D1.4.11
Gu, Ming	CA	IAC-15.D5.4.7
Gu, Yanfeng	CA	IAC-15.B6.2.3
Gu, Yanping	A	IAC-15.C2.IP.19
Gu, Fu-Ling	CA	IAC-15.C2.2.11
Guan, Gongshun	A	IAC-15.A6.IP.4
GUAN, HUI	CA	IAC-15.B1.2.7
Guan, Xin	CA	IAC-15.C2.3.8
Guarini, Rocchina	A	IAC-15.B1.5.3

Guay, Alexandre	CA	IAC-15.E1.3.8
Gudiño Ramirez de Arellano, Otto	A	IAC-15.E3.5-E7.6.7
Guerman, Anna	CA	IAC-15.C1.6.3
Guerman, Anna	CA	IAC-15.D4.3.2
Gui, Haichao	A	IAC-15.C1.9.6
Guidi, John	CA	IAC-15.B3.7.2
Guidi, John	CA	IAC-15.D2.8-A5.4.9
Guidotti, Giuseppe	CA	IAC-15.C2.IP.33
Guidotti, Giuseppe	CA	IAC-15.D2.6.10
Guijarro, Nuria	CA	IAC-15.A6.7.6
Guillois, Gwenael	CA	IAC-15.B2.4.1
Guillois, Gwenael	CA	IAC-15.B2.4.5
Guillois, Gwenael	CA	IAC-15.B2.6.4
Guillois, Gwenael	CA	IAC-15.B2.6.5
Guillois, Gwenael	CA	IAC-15.B4.6A.12
Guillois, Gwenael	CA	IAC-15.B4.6B.9
Guillon, Herve	CA	IAC-15.B2.4.1
Guillon, Herve	CA	IAC-15.B2.6.5
Guillon, Herve	CA	IAC-15.B4.6A.12
Guined, Jamie	CA	IAC-15.A5.2.9
Guixing, Cao	CA	IAC-15.B2.6.11
Gulino, Marco	CA	IAC-15.E2.4.1
Gump, David	CA	IAC-15.D3.2.4
Gunnarsen, Gudmund	CA	IAC-15.E2.3-YPVF.4.4
Guo, Chaoyong	CA	IAC-15.D1.IP.20
Guo, Jian	CA	IAC-15.A6.5.7
Guo, Jifeng	CA	IAC-15.C3.1.4
Guo, Jing	A	IAC-15.C2.IP.14
Guo, Linghua	A	IAC-15.B2.6.11
Guo, Mei	CA	IAC-15.E1.3.3
Guo, Mei	CA	IAC-15.E2.4.2
Guo, Song	A	IAC-15.D5.2.8
Guo, Yanping	CA	IAC-15.A3.5.1
Guo, Zixi	A	IAC-15.C2.3.8
Gupta, Megha	A	IAC-15.A3.IP.2
Gupta, Megha	CA	IAC-15.A3.IP.26
Gupta, Nayanee	CA	IAC-15.E3.2.13
Gupta, Shradha	A	IAC-15.A6.4.9
Gupta, Yash Vardhan	A	IAC-15.C2.6.9
Gurfil, Pini	CA	IAC-15.C4.4.3
Gurfil, Pini	CA	IAC-15.A6.7.4
Gurfil, Pini	CA	IAC-15.B6.2.7
Gurfil, Pini	CA	IAC-15.C1.8.4
Gurfil, Pini	CA	IAC-15.C1.8.8
Gurfil, Pini	CA	IAC-15.C1.8.10
Gurfil, Pini	CA	IAC-15.C1.9.9
Gurgel Veras, Carlos Alberto	CA	IAC-15.C4.2.8
Gurgel Veras, Carlos Alberto	CA	IAC-15.C4.IP.53
Gurtovoy, Andrey A.	A	IAC-15.C4.1.7
Gustetic, Jennifer	CA	IAC-15.E1.8.1
Guston, David	CA	IAC-15.E1.8.1
Gut, Zbigniew	CA	IAC-15.C4.1.11
Guthrie, Paul	CA	IAC-15.E6.1.8
Gutierrez, Hector	CA	IAC-15.A2.6.2
Gutman, Vera	CA	IAC-15.E1.7.11
Gutsmiedl, Johannes	CA	IAC-15.B4.6B.11
Guven, Ugur	CA	IAC-15.C3.1.8
Guven, Ugur	CA	IAC-15.D4.1.5
Guven, Ugur	CA	IAC-15.C3.3.9
Guven, Ugur	A	IAC-15.E1.3.6
Guven, Ugur	CA	IAC-15.A6.3.10
Guven, Ugur	CA	IAC-15.A3.IP.39
Guven, Ugur	A	IAC-15.C4.IP.31
Guven, Ugur	A	IAC-15.E3.IP.17
Guven, Ugur	CA	IAC-15.D4.3.7
Guven, Ugur	CA	IAC-15.D4.3.11
Guven, Ugur	CA	IAC-15.D4.3.14
Guven, Ugur	CA	IAC-15.C3.4.5
Guven, Ugur	A	IAC-15.C4.6.11
Guven, Ugur	CA	IAC-15.C4.7-C3.5.3
Guzman, Melissa	A	IAC-15.D4.1.3
Guzman, Melissa	CA	IAC-15.B1.6.4
Guzman Gomez, Camilo	A	IAC-15.E7.3.8
Guzman Gomez, Camilo	A	IAC-15.E3.5-E7.6.3
Guzzetti, Davide	A	IAC-15.C1.2.4

Guzzetti, Davide	A	IAC-15.C1.5.1
Guédrón, Sylvain	CA	IAC-15.D2.1.4
Gyovai, Agnes	CA	IAC-15.A1.5.12
Gyovai, Agnes	CA	IAC-15.D5.3.7
Gásquez García, Oriol	CA	IAC-15.E1.7.11
Gómez Plaza, Mariano	CA	IAC-15.D1.1.2
Górski, Jędrzej	CA	IAC-15.A1.6.3

H

Name	Role	Paper
Name	Role	Paper
H.G., RANJITH	A	IAC-15.C3.4.2
Haagmans, Roger	CA	IAC-15.B1.1.4
Haapala, Amanda	CA	IAC-15.C1.2.4
Haarmann, Richard	CA	IAC-15.A6.6.5
Haarmann, Richard	CA	IAC-15.A6.6.6
Habibi, Avihay	CA	IAC-15.C4.1.10
Habshee, jafar ali	CA	IAC-15.A3.IP.1
Hack, Kurt	CA	IAC-15.D1.4.3
Hacker, Jacob	CA	IAC-15.E3.IP.10
Hacker, Jacob	CA	IAC-15.E3.1.3
Hackmann, Eva	CA	IAC-15.A2.1.6
Hadad, Arza	CA	IAC-15.C4.IP.32
Hager, Monika	CA	IAC-15.A6.1.2
Hagolle, Olivier	CA	IAC-15.B1.2.1
Haj-Ali, Rami	CA	IAC-15.C2.8.5
Hajjar, Randall	CA	IAC-15.E1.3.12
Hajyahia, Soad	CA	IAC-15.A1.4.2
Hall, Ashley	CA	IAC-15.E5.4.1
Hall, Sherrie	A	IAC-15.A5.3-B3.6.5
Halle, Winfried	CA	IAC-15.C1.8.11
Halsband, Arie	CA	IAC-15.A6.6.11
Hamada, Ahmed	CA	IAC-15.E3.IP.3
Hamel, Jean-Francois	A	IAC-15.B1.2.4
Hammond, Jennifer	CA	IAC-15.B3.3.11
Hampp, Daniel	CA	IAC-15.A6.IP.3
Han, Jianping	A	IAC-15.C2.6.11
HAN, Liangliang	A	IAC-15.A5.IP.5
HAN, Liangliang	CA	IAC-15.A5.3-B3.6.8
Han, Sung-Hyeon	A	IAC-15.C4.IP.33
Han, Wei	A	IAC-15.C2.IP.1
HAN, Weihua	CA	IAC-15.E1.2.10
Han, Xiaodong	CA	IAC-15.D1.4.8
Han, Xiaodong	CA	IAC-15.D1.6.11
Hanada, Toshiya	CA	IAC-15.A6.1.8
Hanada, Toshiya	CA	IAC-15.C1.2.7
Hanein, Yael	CA	IAC-15.C2.IP.37
Hang, Guanrong	A	IAC-15.C4.4.13
Hansen, Kim Toft	CA	IAC-15.B2.4.5
Hansen, Kim Toft	CA	IAC-15.B2.6.4
Hansen, Kim Toft	CA	IAC-15.B4.6B.9
Hanshan, Xiao	A	IAC-15.C4.IP.38
Hanshan, Xiao	CA	IAC-15.D2.IP.14
Hanson, Andrew	CA	IAC-15.E1.2.1
Hao, Kouan	A	IAC-15.D1.IP.8
Hao, Zhou	A	IAC-15.B4.8.11
Haohai, Xu	CA	IAC-15.C4.1.13
Hardegree-Ullman, Kevin	CA	IAC-15.E1.IP.9
Hargens, Alan	CA	IAC-15.A1.2.6
Harpur, James	A	IAC-15.E1.5.12
Harrington, Andrea	A	IAC-15.A6.8.1
Harrison, Fiona	CA	IAC-15.B4.2.2
Harting, Benjamin	A	IAC-15.A1.7.10
Hartstein, Heinz	CA	IAC-15.A1.7.7
Hasegawa, Sunao	CA	IAC-15.A6.1.8
Hasegawa, Yoshiyuki	A	IAC-15.B3.1.3
Hashimoto, Tatsuki	A	IAC-15.A3.2B.9
Hashimoto, Tomoyuki	CA	IAC-15.C4.1.8
Hashimoto, Tomoyuki	CA	IAC-15.C4.3.2
Hashimoto, Tomoyuki	CA	IAC-15.C4.5.1
Hashimoto, Yasuaki	A	IAC-15.E7.5.10
Hastings, Daniel	A	IAC-15.D3.4.3
Hatfield, Caris	CA	IAC-15.A5.1.6



Hatfield, Caris	A	IAC-15.A5.1.7
Hatton, Jason	CA	IAC-15.B3.3.1
Haumont, Etienne	CA	IAC-15.B6.3.12
Hauschild, André	CA	IAC-15.B2.1.6
Hauschild, André	CA	IAC-15.D2.4.8
Hausmann, Gerrit	CA	IAC-15.A6.6.5
Hausmann, Gerrit	A	IAC-15.A6.6.6
Hausmann, Gerrit	CA	IAC-15.B4.7.5
Hautesserres, Denis	CA	IAC-15.C1.4.7
Hay, Jason	A	IAC-15.A3.1.4
Haya Ramos, Rodrigo	A	IAC-15.D2.6.2
Hazan, Davide	CA	IAC-15.C3.3.5
Hazan, Davide	CA	IAC-15.B2.5.4
Hazan, Davide Nissim	CA	IAC-15.A3.2B.2
Hazan, Davide Nissim	CA	IAC-15.C4.3.4
Hazan, Davide Nissim	CA	IAC-15.B1.IP.10
He, Baocheng	CA	IAC-15.C4.9.12
He, Fanbo	CA	IAC-15.C3.IP.2
He, Guolong	A	IAC-15.B2.IP.1
He, Guoqiang	CA	IAC-15.C4.9.3
He, Guoqiang	CA	IAC-15.C4.9.4
He, Jiali	CA	IAC-15.C4.IP.2
He, Jian	CA	IAC-15.A1.3.8
He, Jinpeng	CA	IAC-15.A1.5.5
He, Jinpeng	A	IAC-15.A1.5.6
He, Jiyu	CA	IAC-15.C2.4.6
He, Kuai	CA	IAC-15.C4.IP.10
He, Xiongwen	A	IAC-15.D1.4.11
He, Xiongwen	CA	IAC-15.D5.4.7
He, Yanchao	CA	IAC-15.D2.3.6
He, Yanchao	A	IAC-15.C1.8.7
He, Yang	CA	IAC-15.C1.6.2
He, YueLong	A	IAC-15.C2.IP.15
He, Yufeng	CA	IAC-15.D1.7.4
He, Zhang	A	IAC-15.A3.2A.3
He, Zhang	CA	IAC-15.A3.2C.10
He, Zhen	CA	IAC-15.C4.IP.50
Heber, Bernd	CA	IAC-15.D1.7.3
Hecht, Matthias	A	IAC-15.D2.5.6
Hecht, Matthias	CA	IAC-15.D2.7.3
Hecht, Michael	CA	IAC-15.B3.7.10
Hecht, Yosy	CA	IAC-15.B5.2.3
Hegde, Sandesh Rathnavarma	CA	IAC-15.B4.3.13
Hegde, Sandesh Rathnavarma	CA	IAC-15.A6.IP.25
Hegde, Sandesh Rathnavarma	CA	IAC-15.C2.IP.40
Hegde, Sandesh Rathnavarma	A	IAC-15.E2.4.7
Hegels, Johannes	CA	IAC-15.D2.5.10
Hegels, Johannes	CA	IAC-15.C2.9.1
Heges, Johannes	CA	IAC-15.C2.1.1
Heifetz, Eyal	A	IAC-15.B1.6.1
Heilbronn, Lawrence	CA	IAC-15.A1.5.10
Heiman, Rafi	A	IAC-15.B2.7.4
Hein, Andreas	CA	IAC-15.D4.1.3
Hein, Andreas	CA	IAC-15.B3.7.11
Heineman, William	CA	IAC-15.C2.8.10
Heinemann, Sascha	CA	IAC-15.E1.2.2
Heinrich, Georg	CA	IAC-15.D2.5.10
Heinrich, Georg	CA	IAC-15.C2.9.1
Helisch, Harald	CA	IAC-15.A1.7.7
Helled, Ravit	A	IAC-15.A3.IP.9
Heller, Ana B.	A	IAC-15.E1.IP.7
Hempself, Mark	CA	IAC-15.D2.1.8
Hempself, Mark	A	IAC-15.D3.2.6
Hempself, Mark	A	IAC-15.B3.7.1
Henderson, Clare	CA	IAC-15.E5.4.7
Hendrickson, Dan	A	IAC-15.A7.1.7
Hendrickson, Dan	A	IAC-15.A7.3.5
Hendrickson, Dan	A	IAC-15.A3.2C.9
HengNian, Li	CA	IAC-15.B2.3.12
HengNian, Li	CA	IAC-15.A3.3A.11
HengNian, Li	CA	IAC-15.C1.IP.9
Henn, Norbert	CA	IAC-15.A1.IP.2
Henn, Norbert	CA	IAC-15.A1.7.7
HENRI, Yvon	A	IAC-15.E3.5-E7.6.8
Henry, Stéphane	CA	IAC-15.C4.2.1

Hensler, Frank	A	IAC-15.B1.5.10
Henze, Chris	CA	IAC-15.A6.6.8
Herdrich, Georg	CA	IAC-15.A6.3.6
Herdrich, Georg	CA	IAC-15.A2.5.4
Hernández Jiménez, Marcela	CA	IAC-15.A2.6.3
Herrmann, Nicole	CA	IAC-15.A3.1.4
Herrmann, Nicole	CA	IAC-15.B3.7.2
Herrmann, Sven	CA	IAC-15.A2.1.6
Herscovitz, Jacob	CA	IAC-15.B1.2.1
Herscovitz, Jacob	CA	IAC-15.E2.1.6
Herscovitz, Jacob	A	IAC-15.C4.IP.14
Herscovitz, Jacob	CA	IAC-15.C4.IP.46
Hertzfeld, Henry	CA	IAC-15.E3.2.1
Hertzfeld, Henry	A	IAC-15.E7.5.2
Herz, Ella	A	IAC-15.B1.4.8
Hester, Zachary	A	IAC-15.E3.2.14
Hibbitts, Karl	CA	IAC-15.A3.4.10
Hilbert, Stefan	CA	IAC-15.B1.3.6
Hill, Christine	A	IAC-15.C2.9.5
Hill, Jordan	CA	IAC-15.B4.4.7
Hill, Juergen	CA	IAC-15.A3.1.1
Hill, Juergen	CA	IAC-15.A3.1.2
Hill, Juergen	A	IAC-15.D3.2.5
Hill, Juergen	CA	IAC-15.A5.1.1
Hill, Matthew	CA	IAC-15.D4.4.4
Hillebrandt, Martin	CA	IAC-15.C2.2.6
Hillman, Yael	CA	IAC-15.E1.6.6
Hillstrom, Elizabeth	CA	IAC-15.E1.3.2
Hiltz, Mike	CA	IAC-15.A1.2.5
Himeno, Takehiro	CA	IAC-15.D2.4.2
HIRABAYASHI, TAKESHI	CA	IAC-15.B1.3.9
Hirn, Attila	CA	IAC-15.E1.3.7
Hirn, Attila	A	IAC-15.A1.5.2
Hirn, Attila	CA	IAC-15.A1.5.12
Hirn, Attila	CA	IAC-15.D5.3.7
Hirsh, Itay	CA	IAC-15.B1.IP.8
Hisamoto, Yasuyoshi	A	IAC-15.D1.5.3
Hoi, Koki	A	IAC-15.D2.8-A5.4.4
Ho, Ngoc-Diep	CA	IAC-15.A5.3-B3.6.6
Ho, Tra-Mi	CA	IAC-15.A3.4.6
Ho, Tra-Mi	CA	IAC-15.D1.7.8
Hobbs, Stephen	CA	IAC-15.B4.8.11
Hodgkin, Simon	CA	IAC-15.A7.2.5
Hoeck, Birte	A	IAC-15.C2.9.2
Hoerth, Tobias	CA	IAC-15.A3.IP.29
Hoffman, Edward J.	A	IAC-15.D5.2.2
Hoffman, Jeffrey	CA	IAC-15.A5.3-B3.6.5
Hoffman, Jeffrey	CA	IAC-15.B3.7.10
Hoffman, Jeffrey	CA	IAC-15.D2.8-A5.4.4
Hoffman, Tom	CA	IAC-15.A3.3A.1
Hofmann, Mahulena	A	IAC-15.E7.2.10
Hofmann, Peter	A	IAC-15.A1.IP.2
Hofmann, Peter	A	IAC-15.A2.6.1
Hokamoto, Shinji	CA	IAC-15.C1.8.2
Hollenstein, Christine	CA	IAC-15.B4.4.5
Holm, Jeanne	A	IAC-15.B5.1.2
Holm, Jeanne	A	IAC-15.E1.8.6
Holmes, Alan	CA	IAC-15.B1.IP.39
Holmes, Chris	CA	IAC-15.E1.2.1
Holsters, Peter	A	IAC-15.B4.7.2
Homeister, Maren	CA	IAC-15.A7.3.1
Homma, Yukihiko	CA	IAC-15.C3.2.1
Honess, Dave	CA	IAC-15.E1.2.1
Hong, Gang	CA	IAC-15.D2.IP.5
Hong, Gang	CA	IAC-15.C4.7-C3.5.8
Hong, Ma	A	IAC-15.B3.IP.4
Hong, Tengeng	CA	IAC-15.D6.1.10
Hong, Wenhu	CA	IAC-15.A2.2.9
Hongbo, Zhao	A	IAC-15.B1.IP.6
Hongfeng, Wang	A	IAC-15.B6.3.9
Hongfeng, Wang	A	IAC-15.B2.3.10
Hongfeng, Wang	A	IAC-15.B2.4.10
Hongqiang, LYU	A	IAC-15.C3.IP.4
Hongyu, Liu	CA	IAC-15.B1.2.7
Honne, Atle	CA	IAC-15.A1.IP.2

Hooda, Sushant	CA	IAC-15.D3.1.4
Hopkins, Josh	CA	IAC-15.D2.1.3
Hopkins, Josh	A	IAC-15.A5.1.8
Hoppenbrouwers, Tom	A	IAC-15.A3.2A.4
Hoppenbrouwers, Tom	A	IAC-15.A2.6.6
Hoppenbrouwers, Tom	CA	IAC-15.A5.3-B3.6.6
Hopping, Ethan	A	IAC-15.E1.3.1
Hori, Shusuke	A	IAC-15.C4.1.1
Hornbostel, Klaus	CA	IAC-15.A3.2B.7
Horneck, Gerda	CA	IAC-15.E3.2.1
Hornig, Andreas	CA	IAC-15.E2.3-YPVF.4.3
Hornig, Andreas	CA	IAC-15.E2.3-YPVF.4.4
Hornig, Andreas	A	IAC-15.B2.IP.9
Hornig, Andreas	CA	IAC-15.B2.8-YPVF.3.4
Horth, Richard	CA	IAC-15.B6.1.4
Horwath, Lance	CA	IAC-15.E1.2.1
Hoschka, Alexander	CA	IAC-15.D2.5.10
Hosford, Steven	CA	IAC-15.B1.1.8
Hou, Jinli	CA	IAC-15.C4.IP.54
Hou, Xinbin	CA	IAC-15.C3.1.4
Hou, Xinbin	CA	IAC-15.C3.1.7
Hou, Xinbin	CA	IAC-15.C2.3.10
Hou, Xinbin	CA	IAC-15.C2.IP.48
Hou, Xinbin	CA	IAC-15.C3.IP.2
Hou, Yanze	CA	IAC-15.C2.6.10
Hou, Yanze	CA	IAC-15.B3.7.8
Hou, Yong-Gang	CA	IAC-15.A6.IP.50
Hou, Yuzhuo	CA	IAC-15.B6.2.9
Housen-Couriel, Deborah	A	IAC-15.D5.4.2
Howard, Madison	CA	IAC-15.E1.3.12
Howe, A. Scott	CA	IAC-15.B3.5.8
Howell, Kathleen	CA	IAC-15.C1.2.4
Howell, Kathleen	CA	IAC-15.C1.5.1
Howells, Kate	CA	IAC-15.E7.IP.6
Hoyt, Johana	CA	IAC-15.A5.2.9
Hozawa, Sachiko	CA	IAC-15.D1.5.3
Hrbud, Ivana	CA	IAC-15.D2.7.3
Hrinda, Glenn	A	IAC-15.C2.8.6
Hu, Jinhua	CA	IAC-15.C4.IP.17
Hu, Mingliang	CA	IAC-15.C2.IP.26
Hu, Shaolin	A	IAC-15.D6.1.10
Hu, Wei	A	IAC-15.B4.5.7
Hu, Xingzhi	A	IAC-15.E2.2.1
Hu, Yongli	CA	IAC-15.B1.4.6
Hu, Zhenyu	CA	IAC-15.A3.2C.5
Hu, Zhenyu	CA	IAC-15.A3.2C.6
Huan, Yuxiang	CA	IAC-15.C3.4.6
Huang, Anyi	A	IAC-15.C1.IP.9
HUANG, HAI	CA	IAC-15.D1.IP.13
Huang, Hai	CA	IAC-15.C1.6.4
Huang, Hui	CA	IAC-15.A6.10-YPVF.5.2
Huang, Hui	A	IAC-15.B2.7.8
Huang, Jianming	CA	IAC-15.A6.IP.17
Huang, Jie	CA	IAC-15.A6.3.3
Huang, Jie	CA	IAC-15.A6.3.9
Huang, Jie	CA	IAC-15.A6.IP.5
Huang, Jie	CA	IAC-15.A6.IP.6
Huang, Jun	CA	IAC-15.A3.2C.10
Huang, Qingyang	CA	IAC-15.A1.3.8
Huang, Xiaoqi	CA	IAC-15.C2.2.9
Huang, Xiaoqi	CA	IAC-15.C2.IP.43
Huang, Xuexiang	CA	IAC-15.B6.2.9
Huang, Yuping	CA	IAC-15.C4.IP.13
Huang, Zhen	CA	IAC-15.C2.6.10
Huang, Zhen	A	IAC-15.B3.7.13
Huang, Zhiwei	A	IAC-15.C4.9.3
Hubault, Armelle	CA	IAC-15.A3.4.1
Hubbard, G. Scott	CA	IAC-15.C4.6.10
Hubert, DIEZ	CA	IAC-15.A3.3B.10
Huertas, Irene	CA	IAC-15.A3.3B.11
Huesing, Jakob	A	IAC-15.D1.3.3
Hufenbach, Bernhard	CA	IAC-15.A3.1.1
Hufenbach, Bernhard	CA	IAC-15.D4.2.1
Hufenbach, Bernhard	A	IAC-15.A5.1.1

Huh, Jeongmoo	A	IAC-15.C4.6.1
Hui, Cao	A	IAC-15.D1.IP.21
Hui, Junpeng	A	IAC-15.C2.IP.5
Huilong, Wang	A	IAC-15.D2.IP.12
Hunter, Jorge James	CA	IAC-15.E1.2.5
Hupfer, Jan	A	IAC-15.A3.IP.29
Hurni, Andreas	CA	IAC-15.D1.2.3
Hurtado, Miguel	CA	IAC-15.A6.7.6
Hurtony, Tamas	CA	IAC-15.A1.5.12
Hurtony, Tamas	CA	IAC-15.D5.3.7
Hussein, Alaa	CA	IAC-15.A6.IP.42
Hussein, Alaa	A	IAC-15.A6.6.9
Huszak, Arpad	CA	IAC-15.B2.8-YPVF.3.3
Huy, Le Xuan	CA	IAC-15.E1.5.6
Huyhn, Thomas	CA	IAC-15.A6.1.7
Huyhn, Thomas	CA	IAC-15.A6.2.9
Huyhn, Phuong-Anh	CA	IAC-15.B1.IP.9
Hwang, Kyu	CA	IAC-15.D2.1.9
HYAKUSOKU, YASUTOSHI	CA	IAC-15.B1.3.9
Hyde, Truell	CA	IAC-15.A6.3.6
Hyde, Truell	CA	IAC-15.A2.5.4
Höeckelmann, Mathias	CA	IAC-15.A5.3-B3.6.6
Hühne, Christian	CA	IAC-15.C2.1.6
Hühne, Christian	CA	IAC-15.C2.2.1
Hühne, Christian	CA	IAC-15.C2.2.4
Hühne, Christian	CA	IAC-15.C2.2.6
Hühne, Christian	CA	IAC-15.C2.9.9

I

Name	Role	Paper
Ianelli, Samantha	CA	IAC-15.C4.4.15
Ibitolu, Henry	A	IAC-15.E2.1.9
Ibitolu, Henry	CA	IAC-15.E3.IP.18
Iless, Luciano	CA	IAC-15.A3.5.6
Iha, Koshun	CA	IAC-15.C4.IP.56
Illmer, Norbert	CA	IAC-15.B3.4-B6.5.2
Ilyin, Viacheslav	CA	IAC-15.A1.4.1
Ilyin, Vyacheslav	CA	IAC-15.A1.6.1
Imai, Shigeru	CA	IAC-15.B4.5.4
Imhof, Anna Barbara	CA	IAC-15.A3.2A.4
Immediata, Sandro	CA	IAC-15.A6.IP.40
Imoto, Takayuki	CA	IAC-15.D2.1.6
Inada, Benjamin	CA	IAC-15.B3.9-YPVF.2.1
INAGAWA, Takahiro	CA	IAC-15.D2.7.4
Inbar, Tal	CA	IAC-15.E1.6.2
Inbar, Tal	A	IAC-15.E5.6.1
Inbar, Tal	CA	IAC-15.E4.3.3
Inbar, Tal	A	IAC-15.E4.3.4
Inbar, Tal	A	IAC-15.E4.3.6
Inbar, Tal	A	IAC-15.E4.3.8
Indyk, Stephen	A	IAC-15.A5.IP.2
Innocenti, Luisa	CA	IAC-15.D4.1.11
Innocenti, Luisa	CA	IAC-15.D1.3.3
Inoue, Koichi	CA	IAC-15.B4.6A.7
Ioann, Kogan	A	IAC-15.A1.IP.6
Ioannides, Rigas T.	CA	IAC-15.B2.3.2
Ionov, Victor	CA	IAC-15.A1.6.1
Iranmanesh, Mohammad	CA	IAC-15.E5.4.8
Ireland, Peter	CA	IAC-15.A6.IP.24
Irimies, David	CA	IAC-15.B2.5.6
Isaeva, Olga	CA	IAC-15.A1.IP.9
Isakowitz, Steve	CA	IAC-15.B3.2.4
Isakowitz, Steve	CA	IAC-15.A2.3.9
Isakowitz, Steve	CA	IAC-15.B4.5.2
Isakowitz, Steve	CA	IAC-15.D2.7.1
Ishigami, Genya	CA	IAC-15.A3.3A.3
Ishijima, Yoshiyuki	CA	IAC-15.B1.3.9
Islas, Genaro	CA	IAC-15.D1.4.2
Islas, Maria	CA	IAC-15.C2.IP.30
Issler, Jean-Luc	CA	IAC-15.B2.4.5
Issler, Jean-Luc	CA	IAC-15.B2.6.4



Issler, Jean-Luc	CA	IAC-15.B4.6B.9
Istasse, Eric	CA	IAC-15.B3.3.1
Isvoranu, Dragos	CA	IAC-15.C2.7.6
Ito, Takashi	CA	IAC-15.C4.1.8
Ito, Takashi	CA	IAC-15.C4.3.2
Ito, Takashi	CA	IAC-15.D2.5.4
Ito, Yuichi	CA	IAC-15.A2.6.5
Itzhaki Tamir, Raz	A	IAC-15.B4.6B.1
Ivaldi, Marco	CA	IAC-15.A1.IP.8
Ivanenko, Oleg	A	IAC-15.B2.6.3
Ivanov, Anton	A	IAC-15.B4.4.5
Ivanov, Anton	CA	IAC-15.C1.IP.11
Ivanov, Anton	CA	IAC-15.E2.4.4
Ivanov, Gennady	CA	IAC-15.A1.IP.1
Ivanova, Olga	CA	IAC-15.A1.5.2
Ivchenko, Nickolay	CA	IAC-15.B4.2.11
Iwata, Minoru	CA	IAC-15.D5.3.1

J

Name	Role	Paper
J, Jayaprakash	CA	IAC-15.C2.1.4
J, Jayaprakash	CA	IAC-15.C2.1.5
J, Jayaprakash	CA	IAC-15.C4.2.12
J, Paul Murugan	CA	IAC-15.C2.1.5
J, Paul Murugan	A	IAC-15.C2.IP.25
Jacimovic, Aleksandar	CA	IAC-15.E1.7.11
Jackman, Coralie	CA	IAC-15.A3.5.1
Jackson, Libby	CA	IAC-15.E1.2.1
Jadwani, Gunjan	CA	IAC-15.E7.IP.10
Jagdale, Shripad	A	IAC-15.E7.IP.19
Jaikaran, Anna	A	IAC-15.E3.4.7
Jaiswal, Sunakshi	CA	IAC-15.B2.7.6
Jakhota, Prerana	CA	IAC-15.E2.4.3
Jakhu, Ram S.	CA	IAC-15.E7.2.1
Jakhu, Ram S.	A	IAC-15.E1.7.6
James Raj, Xavier	CA	IAC-15.A3.2C.1
JANARDHANAN NAIR, J JAYAPRAKASH	CA	IAC-15.C2.1.2
Janardhanan Nair, Jayaprakash	CA	IAC-15.C2.IP.25
Jankovic, Marko	A	IAC-15.A6.IP.13
Jankovic, Marko	CA	IAC-15.A6.6.1
Janowski, Mikolaj	CA	IAC-15.B1.6.2
Jansen, Frank	A	IAC-15.C4.7-C3.5.1
Jashinski, Michal	A	IAC-15.C1.8.4
Jason, Susan	A	IAC-15.B4.2.1
Jason, Susan	CA	IAC-15.E6.3.4
Jaumann, Ralf	CA	IAC-15.A3.4.6
Jaworska, Karolina	CA	IAC-15.B1.6.2
Jayachandran, T	CA	IAC-15.C2.IP.45
Jayaprakash, J	CA	IAC-15.C2.IP.45
Jayaraman, M	CA	IAC-15.C4.IP.55
Jean, Pierre	A	IAC-15.B3.1.4
Jehn, Rüdiger	CA	IAC-15.A3.IP.14
Jenkin, Alan B.	A	IAC-15.A6.2.2
Jens, Elizabeth	A	IAC-15.C4.6.10
Jeon, Jae-Sung	CA	IAC-15.B4.8.5
Jeon, Moon-Jin	CA	IAC-15.B6.IP.1
Jeon, Su-Hyeon	CA	IAC-15.C2.5.9
Jerauld, Neeraj	A	IAC-15.C4.8.7
Jessen, Sean	A	IAC-15.A3.3B.9
Jesus, Antonio Delson	A	IAC-15.A6.IP.9
Jesus, Antonio Delson	A	IAC-15.A6.IP.10
Jeyakodi, Deepika	A	IAC-15.E7.IP.21
Jha, Anik Kumar	CA	IAC-15.B4.3.13
Ji, Simei	A	IAC-15.E1.3.3
Ji, Simei	A	IAC-15.E2.4.2
Jia, Bin	A	IAC-15.A6.IP.7
Jia, Haipeng	A	IAC-15.C3.IP.2
Jia, Hong	CA	IAC-15.C1.IP.8
Jia, Lei	A	IAC-15.C2.IP.42
Jia, Min	CA	IAC-15.C1.7.3
Jia, Nannan	CA	IAC-15.A1.7.9
Jia, Shiyuan	A	IAC-15.C1.IP.6
Jia, Yanmei	A	IAC-15.D1.7.4
Jia, Yinghong	CA	IAC-15.C1.IP.6
Jian, Peng	CA	IAC-15.C3.3.7
Jian, Zhang	A	IAC-15.B3.7.9

Jianbing, Rao	CA	IAC-15.B4.8.3
Jiang, Ben-zheng	CA	IAC-15.C2.4.7
Jiang, Bo	CA	IAC-15.D5.3.8
Jiang, Hai	CA	IAC-15.A6.IP.38
Jiang, Hao	A	IAC-15.C2.IP.16
Jiang, Jialing	A	IAC-15.E6.IP.6
Jiang, Lixiang	CA	IAC-15.C2.6.12
Jiang, Xiuqiang	A	IAC-15.A3.IP.20
Jiang, Xiuqiang	A	IAC-15.A3.IP.40
Jiang, Xiuqiang	A	IAC-15.A3.IP.47
Jiang, Yu	CA	IAC-15.C1.4.1
Jianguo, Huang	CA	IAC-15.C2.6.12
Jianhua, Chen	A	IAC-15.C4.1.13
Jianhua, Chen	CA	IAC-15.C4.3.13
Jianhua, Chen	CA	IAC-15.C4.IP.4
Jianhua, Chen	CA	IAC-15.C4.5.3
Jianhua, Chen	CA	IAC-15.C4.5.9
Jianjun, Luo	CA	IAC-15.C1.4.6
Jianping, Yuan	CA	IAC-15.C2.1.3
Jiao, Zi-long	A	IAC-15.C2.6.12
Jiawan, Ren	A	IAC-15.C2.IP.13
Jie, Xiao	CA	IAC-15.A3.IP.11
Jie, Xiao	CA	IAC-15.A3.2C.4
Jimenez, Diego	CA	IAC-15.E4.2.7
Jimenez Brenes, Mariano	CA	IAC-15.A2.6.3
Jiming, Shao	CA	IAC-15.A3.2C.4
Jin, Dong	A	IAC-15.B2.6.12
Jin, Ke	A	IAC-15.C2.5.10
Jin, Lei	CA	IAC-15.D2.3.6
Jin, Seong-Bo	CA	IAC-15.D1.6.3
Jin, Xuesong	CA	IAC-15.C1.9.2
Jin, Yongqiang	CA	IAC-15.A6.IP.17
Jin, Yongqiang	CA	IAC-15.A6.IP.32
Jing, Wang	A	IAC-15.C2.IP.50
Jing, Xiaolu	A	IAC-15.B2.7.6
Jinxiu, Zhang	A	IAC-15.A6.IP.18
Jinxiu, Zhang	A	IAC-15.A6.IP.44
Jinxiu, Zhang	CA	IAC-15.C1.5.5
Joffre, Eric	CA	IAC-15.A6.6.3
Johannsson, Magni	A	IAC-15.E6.1.2
Johannsson, Magni	CA	IAC-15.E6.2.10
JOHN, OLUSOJI NESTER	A	IAC-15.E7.2.3
JOHN, OLUSOJI NESTER	A	IAC-15.A6.IP.49
John-Olorioke, Victoria Morenike	CA	IAC-15.E7.2.3
John-Olorioke, Victoria Morenike	CA	IAC-15.A6.IP.49
Johnson, Christopher	CA	IAC-15.E1.4.2
Johnson, Christopher	CA	IAC-15.E1.5.3
Johnson, Christopher	A	IAC-15.D4.3.13
Johnson, Christopher	CA	IAC-15.E7.5.2
Johnson, Holly	CA	IAC-15.A5.3-B3.6.2
Johnson, Lindley	CA	IAC-15.A5.1.2
Johnson, Michael	CA	IAC-15.B4.5.8
Johnson, Nathan	A	IAC-15.E7.1.6
Johnson-Green, Perry	CA	IAC-15.B3.1.4
Johnson-Green, Perry	CA	IAC-15.B3.3.2
Johri, Raghav	CA	IAC-15.A6.10-YPVF.5.1
Johri, Raghav	CA	IAC-15.A3.IP.39
Jokin, Ivo	A	IAC-15.E1.IP.4
Jones, Cathleen	CA	IAC-15.B1.6.3
Jones, Loren	CA	IAC-15.C4.2.10
Jones, Ross	CA	IAC-15.A3.5.8
Jones, Zachary	CA	IAC-15.C2.9.3
Jonsson, Jonas	A	IAC-15.A1.6.5
Jonsson, Jonas	CA	IAC-15.A6.6.8
Jonsson, Jonas	A	IAC-15.B4.8.12
Jorba, Angel	CA	IAC-15.C1.2.6
Jorba, Angel	CA	IAC-15.C1.3.8
Jorba-Cuscó, Marc	A	IAC-15.C1.3.8
Jordan, Nicole	A	IAC-15.E6.IP.2
Jorgenson, Corinne M.	CA	IAC-15.E7.4.1
Josan, Poonampreet Kaur	CA	IAC-15.A5.2.10
Josan, Poonampreet Kaur	A	IAC-15.B3.9-YPVF.2.1
Josan, Poonampreet Kaur	CA	IAC-15.B3.5.8
Joseph, Nikolai	A	IAC-15.E3.2.11
Joshi, Abhishek	CA	IAC-15.B4.3.12
Joss, Marcel	CA	IAC-15.B4.4.5
Ju, Gwanghyeok	A	IAC-15.A3.2B.3
Ju, Long	A	IAC-15.B1.4.6

Juckenhoefel, Oliver	CA	IAC-15.B3.1.6
Juillerat, Robert	CA	IAC-15.B6.1.3
Jukna, Vytautas	CA	IAC-15.B1.2.6
Jukola, Paivi	A	IAC-15.D3.4.5
Jung, Philippe	A	IAC-15.E4.3.5
Junjiro, Onoda	CA	IAC-15.C2.5.1
Jurado, Eric	CA	IAC-15.A3.4.2
Just, Tim	CA	IAC-15.D1.5.1
Jäger, Markus	A	IAC-15.D2.3.1
Józefowicz, Mateusz	A	IAC-15.D2.3.9
Jüssi, Martin	A	IAC-15.B1.6.4

K

Name	Role	Paper
K, Narayanan	CA	IAC-15.B2.7.1
K, SUNDARAMOORTHY	CA	IAC-15.D1.IP.5
K, Sunitha	CA	IAC-15.C2.9.11
K V, Nikhilesh	A	IAC-15.C2.IP.40
K V, Nikhilesh	CA	IAC-15.E2.4.7
K Zachariah, Sam	CA	IAC-15.D1.IP.5
Kabanza, Froduald	CA	IAC-15.A5.3-B3.6.4
Kaczmarczik, Ulrich	CA	IAC-15.A2.5.3
Kadhem, Haval	CA	IAC-15.B4.6A.11
Kadhem, Haval	CA	IAC-15.A6.6.3
Kadzhaev, Vadim	CA	IAC-15.D5.1.1
Kadzhaev, Vadim	CA	IAC-15.D5.1.1
Kafri, Avia	CA	IAC-15.B3.2.2
Kahnert, Markus	CA	IAC-15.C2.1.1
Kahnert, Markus	A	IAC-15.D2.5.10
Kahnert, Markus	A	IAC-15.C2.9.1
Kai, Takeshi	CA	IAC-15.C4.1.8
Kai, Takeshi	A	IAC-15.C4.3.2
Kaku, Kazuya	CA	IAC-15.B1.1.6
Kalacheva, Galina	CA	IAC-15.A1.7.3
Kalamkarov, Gregory	CA	IAC-15.A1.IP.10
Kalemci, Emrah	A	IAC-15.B4.2.8
Kaliski, Michael	CA	IAC-15.B2.7.2
Kalouche, Simon	CA	IAC-15.A2.3.1
Kalter-Leibovici, Ofra	CA	IAC-15.A1.4.2
Kamaletdinova, Guzel	CA	IAC-15.A5.2.8
Kamari, Yossi	CA	IAC-15.B1.3.3
Kamble, Saranga	CA	IAC-15.E2.4.9
Kamble, Saranga	CA	IAC-15.C2.9.8
Kaminski, Amy	A	IAC-15.E1.8.1
Kanagala, Subhash Babu	A	IAC-15.E2.1.5
KANAI, Ryuichiro	A	IAC-15.D2.7.4
Kanawka, Krzysztof	CA	IAC-15.B1.6.2
Kandala, Shanti Swaroop	A	IAC-15.E2.1.5
Kandala, Shanti Swaroop	A	IAC-15.B1.IP.39
Kandepi, Radhika	CA	IAC-15.C1.3.10
Kang, Eun Su	CA	IAC-15.B1.4.5
Kang, Hongjae	A	IAC-15.C4.IP.7
Kang, Kyungin	A	IAC-15.D1.5.2
KANG, Qi	A	IAC-15.A2.4.1
KANG, Qi	CA	IAC-15.A2.4.3
Kang, Sunil	A	IAC-15.C4.IP.21
Kania, Maciej	CA	IAC-15.B4.6A.2
Kantsiper, Brian	CA	IAC-15.C1.1.11
Kanzler, Ronny	CA	IAC-15.A6.4.7
Kapgate, Nitin	CA	IAC-15.C3.IP.3
Kapgate, Nitin	CA	IAC-15.C3.4.8
Kapulkin, Alexander	CA	IAC-15.C4.4.3
Kapulkin, Alexander	CA	IAC-15.C4.4.4
Kara, Ozan	A	IAC-15.E1.5.11
Kara, Ozan	A	IAC-15.D5.2.4
Kara, Ozan	A	IAC-15.B2.8-YPVF.3.4
Kara, Ozan	CA	IAC-15.B4.8.6
Kara, Ozan	A	IAC-15.B4.8.7
Karabadzhak, George	A	IAC-15.B3.3.3
Karabadzhak, Georgy	CA	IAC-15.B3.3.5
Karabeyoglu, A.	CA	IAC-15.B4.8.7
Karatekin, Özgür	CA	IAC-15.A3.3B.7
Karavaev, Dmitry	CA	IAC-15.B3.3.8

Karchaev, Kharun	CA	IAC-15.A3.1.5
Karelin, Alexander	CA	IAC-15.B1.IP.28
Karidhal, Ritu	CA	IAC-15.C1.3.10
Karidhal, Ritu	A	IAC-15.B1.IP.40
Karidhal, Ritu	A	IAC-15.C1.6.11
Karidhal, Ritu	CA	IAC-15.C1.7.6
Karidhal, Ritu	CA	IAC-15.C1.7.11
Just, Tim	CA	IAC-15.B6.3.12
KARMAKAR, SOURAV	A	IAC-15.D2.IP.15
Karni, Boaz	CA	IAC-15.E1.6.6
Karp, Ashley	A	IAC-15.C4.2.10
Karras, Jaakko	CA	IAC-15.A2.3.1
Kashanov, Olexandr	A	IAC-15.D2.3.5
Kaspi, Shai	A	IAC-15.C1.4.8
Kaspi, Yohai	CA	IAC-15.A3.IP.38
Kaspi, Yohai	CA	IAC-15.A3.5.6
Kaspranskiy, Rustem	CA	IAC-15.B3.5.7
Katano, Shotaro	A	IAC-15.C3.2.4
Katayama, Haruyoshi	A	IAC-15.B1.3.10
Kar, Tanvi	CA	IAC-15.E2.3-YPVF.4.9
Katke, Tanvi	CA	IAC-15.E2.4.9
Katke, Tanvi	CA	IAC-15.C2.9.8
Kato, Hideki	CA	IAC-15.C3.6.6
Katz, Asia	A	IAC-15.E1.2.3
Kaur, Prabhjot	A	IAC-15.A3.3A.9
Kaurov, Ivan	A	IAC-15.B4.6A.3
Kaushal, Sourabh	A	IAC-15.A6.IP.34
Kawabata, Yosuke	CA	IAC-15.C1.1.8
Kawaguchi, Junichiro	CA	IAC-15.B3.7.11
Kawak, Benjamin	A	IAC-15.C2.3.2
Kawak, Benjamin	CA	IAC-15.E2.2.8
Kawakatsu, Yasuhiro	CA	IAC-15.C1.1.8
Kawakatsu, Yasuhiro	CA	IAC-15.C1.2.7
Kawashima, Hideto	A	IAC-15.C4.1.5
Kawashima, Rei	A	IAC-15.E1.IP.2
Kay, Ritchie	CA	IAC-15.A3.4.1
Kaya, Nobuyuki	A	IAC-15.C3.1.1
Kayal, Hakan	CA	IAC-15.B6.2.5
KAYIHAN, Hasan Aziz	CA	IAC-15.E1.6.8
Ke, Fa-wei	A	IAC-15.A6.3.3
Ke, Zhang	CA	IAC-15.D1.5.7
Kearn, Joel	CA	IAC-15.B3.1.6
Kebschull, Christopher	A	IAC-15.A6.9.5
Kedem, Micha	CA	IAC-15.C4.IP.14
Keidar, Michael	A	IAC-15.C4.4.6
Keidar, Michael	CA	IAC-15.C4.4.7
Kelecy, Thomas	CA	IAC-15.A6.1.4
Kelly, Brigit	A	IAC-15.B1.5.2
Kelso, T.S.	A	IAC-15.A6.7.8
Kempf, Scott	A	IAC-15.A6.3.4
Kennedy, Samuel	CA	IAC-15.E2.3-YPVF.4.2
Kennedy, Samuel	CA	IAC-15.B3.7.9
Keppeler, Jochen	CA	IAC-15.A1.7.7
Kern, Peter	CA	IAC-15.A1.7.7
Kerolle, Mclee	A	IAC-15.B2.7.3
Kerr, Emma	A	IAC-15.A6.4.6
Kerrigan, Mary	CA	IAC-15.E1.4.1
Kessler, Helmut	CA	IAC-15.E6.1.10
Kessler, Jason	CA	IAC-15.E1.8.1
Kestel, Tobias	A	IAC-15.E5.4.10
Kezerashvili, Roman Ya.	A	IAC-15.C2.6.8
Kfir, Sagi	CA	IAC-15.D3.2.4
Kfir, Sagi	A	IAC-15.E7.7-B3.8.9
Khadse, Mayuresh	CA	IAC-15.C3.IP.3
Khadse, Mayuresh	CA	IAC-15.C3.4.8
Khamitov, Talgat	A	IAC-15.C2.1.12
Khan, Arifur	CA	IAC-15.D5.3.1
Khan, Maudood	A	IAC-15.E5.5.1
Kharlamov, Maksim	A	IAC-15.B3.2.7
Kharlamov, Maksim	CA	IAC-15.B3.5.7
Kharlan, Alexander	A	IAC-15.B2.1.4
Kharlan, Alexander	CA	IAC-15.B2.6.3
Khartov, Victor V.	CA	IAC-15.A3.1.5
Khetawat, Vatsala	CA	IAC-15.A2.3.8
Khomyak, Vadym	A	IAC-15.C4.1.14



Khor, Michael	CA	IAC-15.B4.7.6
Khoroshylov, Serhii	CA	IAC-15.A6.5.5
Khurana, Shashank	A	IAC-15.E6.2.2
Kiang, Charlotte	CA	IAC-15.E6.1.1
Kiang, Charlotte	A	IAC-15.E6.2.3
Kiang, Charlotte	A	IAC-15.E6.2.5
Kicman, Pawel	CA	IAC-15.A3.3B.11
Kidd, Richard	CA	IAC-15.B3.7.10
Kikuchi, Masao	CA	IAC-15.A2.6.5
Kilic, Cagri	A	IAC-15.B4.8.6
Kilic, Cagri	CA	IAC-15.B4.8.7
Kim, Byoung-Soo	CA	IAC-15.B6.IP.1
Kim, Chun Gon	CA	IAC-15.A6.IP.1
Kim, Daryl	CA	IAC-15.A6.1.4
Kim, Eunghyun	A	IAC-15.B6.IP.1
Kim, Eunjeong	CA	IAC-15.E3.IP.5
Kim, Hyeon Ah	CA	IAC-15.A3.IP.44
Kim, Inkyu	A	IAC-15.B2.IP.2
Kim, Jong-Bum	A	IAC-15.E5.IP.1
Kim, Tae Su	CA	IAC-15.C2.IP.24
Kim, Taegyuu	CA	IAC-15.C4.IP.33
Kim, Taig Young	A	IAC-15.C2.IP.24
Kim, Yun-young	A	IAC-15.D1.IP.15
Kim, YunHo	A	IAC-15.A6.IP.1
Kim, Yunjin	A	IAC-15.B1.1.9
Kimoto, Yugo	CA	IAC-15.A6.1.8
Kimura, Toshiya	A	IAC-15.C4.1.8
Kimura, Toshiya	CA	IAC-15.C4.3.2
Kimura, Toshiya	CA	IAC-15.C4.5.1
Kindracki, Jan	CA	IAC-15.D2.IP.2
King, Dan	CA	IAC-15.B4.5.6
Kingston, Jennifer	CA	IAC-15.A6.4.1
Kingston, Jennifer	CA	IAC-15.D1.IP.17
Kingston, Jenny	CA	IAC-15.B4.8.11
KINHAL, KIRAN	CA	IAC-15.C3.4.2
Kinkaid, Nathan	CA	IAC-15.D4.3.9
Kinkaid, Nathan	CA	IAC-15.B4.8.10
Kinyua, Meshack	CA	IAC-15.E5.5.11
Kio, Michael	A	IAC-15.B4.1.4
Kio, Michael	A	IAC-15.E6.1.6
Kio, Michael	A	IAC-15.C2.8.3
Kirchhartz, Rainer	CA	IAC-15.D2.7.3
Kirchner, Frank	CA	IAC-15.A6.IP.13
Kirchner, Frank	CA	IAC-15.A6.6.1
Kirchner, Georg	CA	IAC-15.A6.IP.45
Kirilil, Alexander	CA	IAC-15.D2.7.11
Kirilil, Alexander Nikolaevich	CA	IAC-15.B4.2.12
Kirk, Daniel	CA	IAC-15.A2.6.2
Kiryukhina, Nataliya	A	IAC-15.A1.4.1
Kishilev, Evgenia Golda	A	IAC-15.C4.5.8
Kita, Nagahisa	CA	IAC-15.E7.4.12
Kitagawa, Koki	CA	IAC-15.C4.2.5
Kitamura, Hitoshi	CA	IAC-15.C2.3.3
Kitazawa, Yukihito	A	IAC-15.A6.1.8
Kitov, Vladimir	CA	IAC-15.A1.2.7
Kitsche, Wolfgang	A	IAC-15.C4.3.1
Kiyoshi, Kinefuchi	CA	IAC-15.D2.4.2
Klaper, Martin	CA	IAC-15.B4.4.5
Klas, Michael	A	IAC-15.A1.6.6
Kleespies, Joe	CA	IAC-15.A6.2.9
Klein, Volker	CA	IAC-15.A1.IP.2
Kleinschrodt, Alexander	A	IAC-15.B4.3.5
Kleinschrodt, Alexander	CA	IAC-15.D1.4.2
Klesh, Andrew	CA	IAC-15.A3.5.8
Klettke, Micah	CA	IAC-15.D4.4.7
Klinkrad, Heiner	CA	IAC-15.A6.7.9
Klipstein, Philip	CA	IAC-15.B1.3.3
Knapmeyer, Martin	CA	IAC-15.D3.2.3
Knauer, Katrina	CA	IAC-15.C2.6.3
Kneisel, Kieran	CA	IAC-15.B6.1.4
Knerr, David	CA	IAC-15.D2.5.10
Knerr, David	CA	IAC-15.C2.9.1
Knodt, Uwe	A	IAC-15.D5.2.5
Kobayashi, Hiroaki	A	IAC-15.D2.4.2
Kobayashi, Masakazu	CA	IAC-15.A6.3.5

Kobayashi, Masanori	CA	IAC-15.A6.1.8
Kobayashi, Ryoka	CA	IAC-15.A2.6.5
Kobayashi, Takashi	CA	IAC-15.C2.3.3
Kobayashi, Teiu	CA	IAC-15.C4.1.1
Koblick, Darin	CA	IAC-15.C1.1.3
Kobrick, Ryan L.	A	IAC-15.E1.9.6
Koch, Helmut	CA	IAC-15.C2.4.8
Koch, Olivier	CA	IAC-15.B2.3.4
Kochetkov, Alexey	CA	IAC-15.A1.7.1
Kochetkov, Alexey	CA	IAC-15.A1.7.2
Kodeki, Kazuhide	CA	IAC-15.C2.3.3
Koehler, Brenna	CA	IAC-15.A1.8.5
Koehne, Jessica	CA	IAC-15.C2.8.10
Koehne, Torsten	A	IAC-15.C2.6.7
Kogan, Alexander	CA	IAC-15.C1.4.8
Kogut, Lior	CA	IAC-15.C4.3.3
Kodake, Naohiko	CA	IAC-15.B2.3.7
Koizumi, Hiroyuki	CA	IAC-15.C4.IP.52
Koji, Tanaka	CA	IAC-15.C3.2.4
Koji, Tanaka	CA	IAC-15.C3.3.6
Koji, Tanaka	A	IAC-15.A6.3.5
Kojima, Ayami	A	IAC-15.E1.1.5
Kolar, Jan	CA	IAC-15.D1.3.2
Kolesnikov, Nikolai	CA	IAC-15.A2.4.4
Kolodziejczyk, Agata	A	IAC-15.A1.6.3
Kolomentsev, Alexander I.	CA	IAC-15.C3.3.3
Kolomentsev, Alexander I.	CA	IAC-15.C4.8.2
Kolot, Irina	CA	IAC-15.D1.4.10
Kolot, Irina	CA	IAC-15.B6.2.4
Kolyuka, Yury	A	IAC-15.A6.4.10
Komarek, Tomas A.	CA	IAC-15.A3.3A.6
Konorev, Anatoly	CA	IAC-15.D1.3.2
Konstantinidis, Konstantinos	A	IAC-15.D1.1.5
Konstantinidis, Konstantinos	A	IAC-15.A3.IP.8
Konstantinov, Mikhail S.	A	IAC-15.A3.IP.4
Koo, Jay	CA	IAC-15.A2.2.4
Koo, Jaye	CA	IAC-15.C4.IP.51
Korach, Haim	A	IAC-15.C4.6.12
Korczynska, Audrey	CA	IAC-15.E1.IP.3
Kornienko, Andrei	CA	IAC-15.C1.6.1
Kornienko, Youlia	CA	IAC-15.A3.IP.17
Kornienko, Youlia	CA	IAC-15.D1.4.10
Kornienko, Youlia	CA	IAC-15.B6.2.4
Korobkov, Alexander	CA	IAC-15.A1.7.1
Korobkov, Alexander	CA	IAC-15.A1.7.2
Korovin, Maksim	CA	IAC-15.B4.6A.3
Korsmeyer, David	A	IAC-15.A3.2B.1
Kortmann, Martin	A	IAC-15.D3.1.3
Koryanov, Vsevolod	A	IAC-15.C2.3.5
Koschny, Detlef	CA	IAC-15.A6.1.6
Kosenko, Ivan	CA	IAC-15.D4.3.2
Kosenkov, Ivan	CA	IAC-15.B3.2.5
Koshikawa, Naokiyo	CA	IAC-15.D1.5.3
Kothawala, Alimurtaza	CA	IAC-15.E2.3-YPVF.4.9
Kothawala, Alimurtaza	CA	IAC-15.E2.4.9
Kothawala, Alimurtaza	CA	IAC-15.C2.9.8
Kothia, Dishant	CA	IAC-15.D4.1.5
Kothia, Dishant	CA	IAC-15.C3.3.9
Kothia, Dishant	CA	IAC-15.B4.3.14
Kothia, Dishant	CA	IAC-15.C4.7-C3.5.3
Koti, Veerasha	CA	IAC-15.C2.IP.40
Koti, Veerasha	CA	IAC-15.E2.4.7
KOTIAN, NIKIL	CA	IAC-15.B4.3.13
Kotsur, Oleg	CA	IAC-15.E2.4.5
Kotwal, Alankar	A	IAC-15.A3.IP.2
Kotwal, Alankar	A	IAC-15.A3.IP.26
Kou, Peng	CA	IAC-15.A6.1.9
Koudelka, Otto	CA	IAC-15.B2.3.5
Koudelka, Otto	CA	IAC-15.B2.4.3
Koudelka, Otto	A	IAC-15.B2.4.4
Koudelka, Otto	CA	IAC-15.B2.4.5
Koudelka, Otto	CA	IAC-15.B2.6.4
Koudelka, Otto	A	IAC-15.B2.8-YPVF.3.1
Koudelka, Otto	CA	IAC-15.B4.6B.9
Kouprianov, Vladimir	A	IAC-15.A6.1.5

Kovalov, Borys	A	IAC-15.D2.IP.6
Kowalski, Julia	CA	IAC-15.A3.IP.8
Koyama, Shohei	CA	IAC-15.C3.3.6
Kozlov, Nikolai	CA	IAC-15.A2.2.1
Kozlov, Nikolai	A	IAC-15.A2.2.3
Kozlov, Victor	CA	IAC-15.A2.2.1
Kozlov, Victor	CA	IAC-15.A2.2.2
Kozlov, Victor	CA	IAC-15.A2.IP.1
Kozlovskaya, Inesa	A	IAC-15.A1.2.7
Kozlovskaya, Inesa	CA	IAC-15.A1.2.8
KOZUKA, SOUICHIROU	CA	IAC-15.E7.4.12
Kraetzig, Benjamin	A	IAC-15.B5.2.7
Krag, Holger	A	IAC-15.A6.4.4
Krag, Holger	CA	IAC-15.A6.4.7
Kramer, Alexander	A	IAC-15.E2.2.3
Kramer, Alexander	CA	IAC-15.D1.4.2
Kreisel, Joerg	CA	IAC-15.D3.1.3
Kreisel, Joerg	A	IAC-15.E6.3.6
Kremic, Tibor	CA	IAC-15.A3.4.10
Krenn, Rainer	CA	IAC-15.D1.2.11
Krikalev, Sergey	CA	IAC-15.B3.2.6
Krimigis, Stamatios	CA	IAC-15.D4.4.1
Krishnamoorthy, Siddharth	A	IAC-15.D1.2.10
Krishnamurthy, Akshata	A	IAC-15.B4.7.8
Krishnaswamy, Marappa	CA	IAC-15.B4.1.3
Krisko, Paula	CA	IAC-15.A6.1.7
Krisko, Paula H.	CA	IAC-15.A6.2.9
Krolkowski, Alanna	A	IAC-15.E3.IP.2
Krolkowski, Alanna	CA	IAC-15.E6.3.5
Kroupnik, Guennadi	A	IAC-15.B1.IP.29
Krutz, David	CA	IAC-15.B1.3.6
Krutzik, Markus	CA	IAC-15.A2.1.7
Kruzhilov, Ivan	A	IAC-15.C1.IP.3
Kryuchkov, Boris	CA	IAC-15.B3.5.2
Kryuchkov, Boris	CA	IAC-15.B3.5.7
Kryuchkov, Boris I.	CA	IAC-15.A5.3-B3.6.9
KS, Mohanavelu	CA	IAC-15.B2.7.1
Kubacki, Slawomir	CA	IAC-15.E2.1.4
Kublik, Dominik	CA	IAC-15.D2.7.10
Kubota, Takashi	CA	IAC-15.A3.4.5
Kudenko, Yurii A.	CA	IAC-15.A1.7.4
Kudentsov, Vladimir	CA	IAC-15.A6.IP.15
Kudirka, Audra	CA	IAC-15.C4.2.10
Kudrin, Oleg	CA	IAC-15.C3.3.3
Kuehnel, Carl	CA	IAC-15.B4.5.8
Kueppers, Michael	CA	IAC-15.A3.4.9
Kugler, Franz	CA	IAC-15.D2.4.8
Kuhener, Nader	CA	IAC-15.D1.2.3
Kuiper, JM (Hans)	CA	IAC-15.D1.1.3
Kuiper, JM (Hans)	CA	IAC-15.C1.IP.12
Kukar, Nakul	A	IAC-15.C4.IP.55
Kukoba, Tatyana	CA	IAC-15.A1.4.3
Kulkarni, Advait	A	IAC-15.B2.5.1
Kulkarni, Ashish	CA	IAC-15.E2.4.10
Kulkarni, Rahul	CA	IAC-15.E2.4.3
Kulkarni, Rohan	CA	IAC-15.C3.1.8
Kulkarni, Rohan	CA	IAC-15.D4.1.5
Kulkarni, Rohan	A	IAC-15.C3.3.9
Kulkarni, Rohan	A	IAC-15.D4.3.7
Kulkarni, Rohan	CA	IAC-15.D4.3.11
Kulkarni, Rohan	CA	IAC-15.D4.3.14
Kulkarni, Rohan	A	IAC-15.C4.7-C3.5.3
Kulkarni, Shreyas	CA	IAC-15.E2.4.3
Kulkarni, Shrinivas	CA	IAC-15.B4.2.2
Kulkarni, Shrinivas	CA	IAC-15.A7.2.1
Kullack, Karsten	CA	IAC-15.A2.6.6
Kumar, Abhijeet	CA	IAC-15.E7.IP.6
Kumar, B Kiran	A	IAC-15.C2.1.2
Kumar, B Kiran	CA	IAC-15.C2.1.4
Kumar, Deepak	A	IAC-15.B2.6.9
Kumar, Deepak	A	IAC-15.A3.2C.16
Kumar, Kartik	CA	IAC-15.A6.IP.21
Kumar, Kartik	A	IAC-15.A6.6.1
Kumar, Krishna	CA	IAC-15.B6.3.1
Kumar, Krishna	A	IAC-15.B4.4.7

Kumar, Krishna	A	IAC-15.D1.2.9
Kumar, Naresh	A	IAC-15.B6.3.5
Kumar, Neelakandan Pradeesh	A	IAC-15.B1.2.5
Kumar, Neelakandan Pradeesh	A	IAC-15.C2.IP.34
Kumar G, Dinesh	CA	IAC-15.C4.8.7
KUMAR V, KRISHNA	CA	IAC-15.B4.3.13
Kunes, Michal	A	IAC-15.D5.IP.2
Kunihiro, Funakoshi	CA	IAC-15.A6.1.8
Kuo, Tien-Chuan	A	IAC-15.C4.6.5
Kupke, Michael	CA	IAC-15.C2.9.2
Kurian, Thomas	CA	IAC-15.C2.1.2
Kurian, Thomas	CA	IAC-15.C2.1.4
Kurian, Thomas	A	IAC-15.C2.1.5
Kurian, Thomas	CA	IAC-15.C2.IP.25
Kurian, Thomas	CA	IAC-15.C2.IP.45
Kuritsin, Andrey	A	IAC-15.B3.5.2
Kuritsin, Andrey	A	IAC-15.B3.5.7
Kurmazenko, Eduard	A	IAC-15.A1.7.2
Kurochkin, Dmitriy	CA	IAC-15.C1.1.7
Kurosu, Akihide	CA	IAC-15.C4.1.1
Kushnarev, Alexander	CA	IAC-15.A3.IP.16
Kushnirenko, Anatolii	CA	IAC-15.A2.4.5
Kushnirenko, Serhii	A	IAC-15.C2.2.2
Kuss, Petra	CA	IAC-15.E1.6.1
Kuyumjian, Raffi	A	IAC-15.B3.7.3
Kuzmina, Lyudmila	A	IAC-15.C2.3.12
Kuznetsov, Alexey	CA	IAC-15.B5.2.6
Kwon, Sejin	CA	IAC-15.C4.IP.7
Kwon, Sejin	CA	IAC-15.C4.6.1
Kwon, Seong-Cheol	A	IAC-15.C2.5.9
Kyriakopoulos, George	A	IAC-15.E7.3.2
Kyriopoulos, Olympia Natalia	A	IAC-15.A2.5.8
Könemann, Thorben	A	IAC-15.A2.5.3
Küchemann, Oliver	CA	IAC-15.A3.4.2
Kühn, Sebastian	CA	IAC-15.B2.IP.9

Name	Role	Paper
La, Dong	A	IAC-15.C2.IP.26
La Neve, Alessandro	CA	IAC-15.D5.1.6
La Regina, Veronica	A	IAC-15.E3.IP.11
Labate, Demetrio	CA	IAC-15.B1.2.2
Labiole, Eric	CA	IAC-15.C2.8.7
Labutkina, Tatyana V.	A	IAC-15.D1.1.8
Labutkina, Tatyana V.	A	IAC-15.A6.IP.48
Lacava, Pedro	CA	IAC-15.B4.1.10
Lacava, Pedro	CA	IAC-15.B4.7.7
Lackner, David	A	IAC-15.B4.5.6
Lad, Rupesh	CA	IAC-15.E2.4.10
Laemmerzahl, Claus	CA	IAC-15.A2.5.3
Lafabrie, Philippe	CA	IAC-15.B2.4.5
Lafabrie, Philippe	CA	IAC-15.B2.6.4
Lafabrie, Philippe	CA	IAC-15.B4.6B.9
Laird, Ryan	CA	IAC-15.E1.7.2
Lal, Bhavya	A	IAC-15.D4.2.2
Lal, Bhavya	CA	IAC-15.D4.3.8
Lal, Bhavya	A	IAC-15.A7.3.2
Lalonde, Mathieu	CA	IAC-15.E1.3.8
Lamarca, Vito	CA	IAC-15.B4.2.7
Lambeta, Michael	CA	IAC-15.A1.IP.20
Lambeta, Michael	CA	IAC-15.D1.3.4
Lambeta, Michael	CA	IAC-15.A1.6.4
Lambeta, Michael	CA	IAC-15.B5.1.8
Lamborelle, Olivier	A	IAC-15.B3.5.3
Lamichhane, Kamal	CA	IAC-15.B4.3.13
Lamichhane, Kamal	CA	IAC-15.C3.4.2
Lamichhane, Kamal	A	IAC-15.E2.4.8
Lampani, Luca	A	IAC-15.C2.5.5
Lan, Lei	A	IAC-15.C1.3.9
LAN, SHENGWEI	A	IAC-15.A6.3.9
LAN, SHENGWEI	CA	IAC-15.A6.IP.6
Lanciano, Orietta	A	IAC-15.B5.2.2
Landsman, Keren	CA	IAC-15.E1.6.6



Landsman, Yoav	A	IAC-15.E1.6.6
Lang, Xiaoyu	CA	IAC-15.A6.IP.18
Lang, Xiaoyu	CA	IAC-15.A6.IP.44
Lang, Xiaoyu	A	IAC-15.C1.5.5
Lang, Xiaoyu	CA	IAC-15.C1.5.11
Lange, Caroline	A	IAC-15.D3.2.3
Lange, Caroline	A	IAC-15.A3.4.6
Lange, Caroline	A	IAC-15.D1.7.8
Lange, Christian	CA	IAC-15.A5.1.1
Lange, Michael	CA	IAC-15.A3.4.6
Lange, Michael	CA	IAC-15.C2.8.9
Lange, Michael	A	IAC-15.C2.9.9
Lange, Patrick	CA	IAC-15.A3.IP.15
Langer, Martin	CA	IAC-15.B4.6B.11
Langley, Chris	CA	IAC-15.A3.IP.46
Langley, Christopher S.	A	IAC-15.A5.3-B3.6.4
Langston, Sara	A	IAC-15.E7.3.10
Lapeyre, Rémi	A	IAC-15.B6.3.11
Lapid, Ofer	CA	IAC-15.B4.2.2
Lapid, Ofer	CA	IAC-15.B4.5.6
Lapilli, Gabriel	A	IAC-15.A2.6.2
Lapygin, Vladimir	A	IAC-15.D2.8-A5.4.6
Lara, Martin	A	IAC-15.C1.4.7
Larin, Vladimir O.	CA	IAC-15.D1.1.8
Larin, Vladimir O.	CA	IAC-15.A6.IP.48
Larina, Irina	CA	IAC-15.A1.IP.21
Larnicol, Maiwenn	CA	IAC-15.C2.8.7
Laroche, Norbert	CA	IAC-15.A1.IP.21
Larouche, Benoît	CA	IAC-15.C4.IP.39
Larranaga, Jonan	CA	IAC-15.A3.3A.5
Larranaga, Jonan	CA	IAC-15.A3.IP.28
Larson, Samantha	A	IAC-15.D3.3.6
Lashansky, Shimshon (Steven)	A	IAC-15.B1.3.3
Latha Balakumar, Vishal	A	IAC-15.E2.4.6
Latzko, Serina T.	A	IAC-15.E2.3-YPVF.4.3
Lau, Stephen	CA	IAC-15.A1.8.5
Laudet, Philippe	CA	IAC-15.A3.3B.5
Lauer, Charles	A	IAC-15.D6.3.4
Lauer, Charles	A	IAC-15.D6.3.6
Lauer, Charles	A	IAC-15.D2.7.5
Laufer, Diana	A	IAC-15.A3.IP.32
Laufer, Diana	CA	IAC-15.A3.IP.41
Laufer, Rene	CA	IAC-15.A6.3.6
Laufer, Rene	CA	IAC-15.A2.5.4
Laurini, Kathy	A	IAC-15.A3.1.1
Laurini, Kathy	CA	IAC-15.A5.1.1
Laurini, Kathy	A	IAC-15.D2.8-A5.4.9
Lavagna, Michèle	CA	IAC-15.A2.3.3
Lavagna, Michèle	CA	IAC-15.A3.2B.5
Lavagna, Michèle	A	IAC-15.A6.4.2
Lavagna, Michèle	CA	IAC-15.C1.3.1
Lavagna, Michèle	A	IAC-15.D2.3.3
Lavagna, Michèle	A	IAC-15.A3.3A.12
Lavagna, Michèle	CA	IAC-15.A6.IP.23
Lavagna, Michèle	A	IAC-15.A6.IP.26
Lavagna, Michèle	CA	IAC-15.A6.5.8
Lavagna, Michèle	A	IAC-15.C1.7.8
Lawal, Abdul	A	IAC-15.B4.1.6
Lawford, Richard	A	IAC-15.B1.6.7
Lawton, Mike	A	IAC-15.C2.2.7
Laxmikantha, B P	CA	IAC-15.B1.IP.2
Lay, Gary	CA	IAC-15.B4.6A.11
Le Couteur, Cath	A	IAC-15.E1.9.1
Lebat, Vincent	CA	IAC-15.A2.1.1
Lebat, Vincent	CA	IAC-15.B1.IP.9
Leber, Tatjana	CA	IAC-15.C2.1.1
Lecuyot, Arnaud	CA	IAC-15.B1.IP.32
Lee, Changjin	CA	IAC-15.C4.2.6
Lee, Dong-yeon	A	IAC-15.C1.5.8
Lee, Dongyeon	A	IAC-15.C4.2.6
Lee, Eunkwang	CA	IAC-15.C4.IP.7
Lee, Hyeon-Cheol	A	IAC-15.B1.4.5
Lee, Jaeho	CA	IAC-15.A3.2A.6
Lee, Jaeho	A	IAC-15.D3.2.8
Lee, Jongkwang	CA	IAC-15.C4.IP.33

Lee, Jungpyo	CA	IAC-15.C4.2.8
Lee, Jungpyo	CA	IAC-15.C4.IP.5
Lee, Jungpyo	CA	IAC-15.C4.IP.53
Lee, Kyun Ho	A	IAC-15.A3.IP.44
Lee, Minwoo	A	IAC-15.C4.IP.23
Lee, Minwoo	CA	IAC-15.B4.8.5
Lee, Myeong-Shin	CA	IAC-15.B6.IP.1
Lee, Pascal	CA	IAC-15.A3.3B.6
Lee, Tai Sik	CA	IAC-15.A3.2A.6
Lee, Tai Sik	CA	IAC-15.D3.2.8
Lehahn, Yoav	CA	IAC-15.B1.6.1
Lehmann, Tanja	CA	IAC-15.A1.IP.8
Lehnert, Christopher	CA	IAC-15.E3.1.7
Lei, Chen	CA	IAC-15.B6.3.13
Lei, Weijun	CA	IAC-15.C3.IP.6
Lei, Yuan	CA	IAC-15.C4.3.11
Leizer, Arie	CA	IAC-15.B1.2.2
Leizer, Arie	A	IAC-15.B1.3.2
Leizer, Arie	A	IAC-15.B1.IP.11
Lejeune, Laurent	CA	IAC-15.A1.3.5
LEKEUX, Anne	CA	IAC-15.C4.1.6
Lelong, Patrick	CA	IAC-15.D1.3.1
Lemenkova, Polina	A	IAC-15.B1.IP.15
Lemke, Norbert M.K.	A	IAC-15.D1.2.3
Lemke, Norbert M.K.	A	IAC-15.B4.7.5
Lemmens, Stijn	CA	IAC-15.A6.4.7
Lempert, David	CA	IAC-15.A6.IP.15
Lenard, Roger X.	A	IAC-15.D4.3.5
Lenard, Roger X.	A	IAC-15.C4.7-C3.5.5
Lenard, Roger X.	A	IAC-15.C4.7-C3.5.7
Lengowski, Michael	CA	IAC-15.E2.3-YPVF.4.3
Leonov, Victor	A	IAC-15.C3.1.9
Leonov, Victor	CA	IAC-15.A6.IP.35
Leonov, Victor	CA	IAC-15.D1.IP.9
Leonov, Victor	CA	IAC-15.B4.6A.6
Leonov, Victor	CA	IAC-15.E1.7.4
Leorch, Bradley	CA	IAC-15.C2.9.3
LeRoy, Robert	A	IAC-15.B1.1.5
Letor, Romain	CA	IAC-15.A6.4.7
Leung, Braven	A	IAC-15.A6.5.3
Leung, Thomas Siu Hong	CA	IAC-15.E2.3-YPVF.4.7
Leuoth, Katja	A	IAC-15.B3.4-B6.5.3
Lev, Dan	CA	IAC-15.C4.IP.43
Lev, Dan	A	IAC-15.C4.4.4
Levenhagen, Jens	CA	IAC-15.C1.6.1
Levi, Netanel	A	IAC-15.C1.2.2
Levi, Ram	A	IAC-15.D5.4.4
Levi-Sasson, Aviad	A	IAC-15.C2.8.5
Levin, David	CA	IAC-15.A1.IP.20
Levin, David	CA	IAC-15.D1.3.4
Levin, David	CA	IAC-15.A1.6.4
Levit, Creon	CA	IAC-15.A6.6.8
Levochkin, Petr	CA	IAC-15.C4.1.2
Levrino, Luca	CA	IAC-15.D4.1.12
Levy, Benny	CA	IAC-15.A3.IP.3
Levy, Ori	A	IAC-15.E2.1.6
Lewis, Hugh G.	CA	IAC-15.A6.9.3
Lewis, Hugh G.	CA	IAC-15.B5.1.9
Lewis, John	CA	IAC-15.D3.2.4
Lewis, Joseph	CA	IAC-15.C4.2.10
Lewis, Mark	CA	IAC-15.A7.3.2
Lewis, Stephen	CA	IAC-15.A3.3B.7
Leyland, Pénélope	CA	IAC-15.A6.4.5
León Pérez, Laura	A	IAC-15.B4.7.9
Lj, Baomin	CA	IAC-15.B2.7.7
Lj, Baoming	CA	IAC-15.B2.5.11
Lj, Bin	A	IAC-15.E7.2.2
Lj, Binchao	A	IAC-15.C2.IP.7
Lj, BOWEN	CA	IAC-15.C1.5.5
Lj, Changjun	CA	IAC-15.E1.4.7
Lj, Chun	CA	IAC-15.D4.1.7
Lj, Chunhui	A	IAC-15.A3.IP.27
Lj, Chunhui	A	IAC-15.A3.IP.45
Lj, Diqing	CA	IAC-15.D1.4.8
Lj, Diqing	CA	IAC-15.D1.6.11

Li, Donghao	CA	IAC-15.A3.1.11
Li, Dun	CA	IAC-15.C2.IP.15
Li, Fei	CA	IAC-15.B3.IP.6
Li, Fei	CA	IAC-15.A1.5.8
Li, Fei	A	IAC-15.A1.5.9
Li, Fei	A	IAC-15.A3.2C.10
Li, Feng	CA	IAC-15.C2.IP.7
Li, Guangxi	CA	IAC-15.C4.9.1
Li, Haitao	CA	IAC-15.B2.IP.7
Li, Haitao	CA	IAC-15.C1.9.8
Li, Hang	A	IAC-15.A6.10-YPVF.5.2
Li, Hang	CA	IAC-15.B2.7.8
Li, Hangjie	CA	IAC-15.A6.IP.4
Li, Hengnian	CA	IAC-15.C1.8.5
Li, Hongbo	A	IAC-15.E3.4.9
Li, Jian	A	IAC-15.C4.IP.2
Li, Jianan	A	IAC-15.C4.IP.6
Li, JIANG	CA	IAC-15.C4.9.4
Li, JIANG	CA	IAC-15.C4.8.6
Li, Jilin	CA	IAC-15.B2.1.12
Li, Jilin	CA	IAC-15.B2.7.7
Li, Jindong	CA	IAC-15.C2.7.4
Li, Jing	A	IAC-15.C4.IP.3
Li, Jingyang	CA	IAC-15.D4.1.8
Li, Jingyang	A	IAC-15.A3.2C.14
Li, Jingyang	A	IAC-15.A3.2C.15
Li, Jinping	CA	IAC-15.B3.IP.6
Li, Jionghui	A	IAC-15.B2.5.10
Li, Junfeng	CA	IAC-15.C1.3.9
Li, Junfeng	CA	IAC-15.C1.4.1
Li, Junfeng	CA	IAC-15.C2.5.10
Li, Juqian	CA	IAC-15.E7.7-B3.8.4
Li, Lan	CA	IAC-15.E1.7.11
Li, Lei	CA	IAC-15.B2.3.13
Li, Leyuan	A	IAC-15.A1.IP.12
Li, Longfei	A	IAC-15.C4.3.13
Li, Meng	CA	IAC-15.C2.2.9
Li, Meng	A	IAC-15.D2.4.4
Li, Ming	CA	IAC-15.A3.2A.3
Li, Ming	A	IAC-15.B1.2.7
Li, Ming	CA	IAC-15.A6.4.11
Li, Ming	CA	IAC-15.A6.3.8
Li, Ming	CA	IAC-15.D1.7.1
Li, Ming	A	IAC-15.D1.7.6
Li, Ping	CA	IAC-15.C4.1.3
Li, Rui	CA	IAC-15.B2.1.12
Li, Rui	CA	IAC-15.B2.3.13
Li, Rui	A	IAC-15.D1.IP.20
Li, Rui	CA	IAC-15.B2.5.11
Li, Rui	CA	IAC-15.B2.7.7
Li, Shouping	A	IAC-15.E7.5.14
Li, Shuang	CA	IAC-15.A3.IP.20
Li, Shuang	CA	IAC-15.A3.IP.40
Li, Shuang	CA	IAC-15.A3.IP.47
Li, Tinghe	CA	IAC-15.C4.9.5
Li, Wei	CA	IAC-15.C3.2.6
Li, Xiaojun	CA	IAC-15.C3.2.5
Li, Xiaoxiao	A	IAC-15.E3.3.3
Li, Xie	A	IAC-15.B4.2.4
Li, Yan	CA	IAC-15.C4.9.12
Li, Yandong	CA	IAC-15.B2.IP.8
Li, Yanhui	A	IAC-15.C2.IP.47
Li, Yanlong	CA	IAC-15.A3.2C.5
Li, Yanlong	CA	IAC-15.A3.2C.6
Li, Yanning	CA	IAC-15.D5.3.8
Li, Ye	CA	IAC-15.B2.3.13
Li, Yi	A	IAC-15.C4.9.2
Li, Yi	CA	IAC-15.A6.3.9
Li, Yi	CA	IAC-15.A6.IP.6
Li, Yi	A	IAC-15.D2.7.12
Li, Yinghui	CA	IAC-15.A1.3.2
Li, Yuan	CA	IAC-15.C1.9.2
Li, Yuheng	A	IAC-15.B6.2.8
Li, Yun-peng	CA	IAC-15.A2.3.7

Li, Zhao	A	IAC-15.A3.3A.11
Li, Zhengjun	CA	IAC-15.C3.2.5
Li, Zhi	CA	IAC-15.A6.9.7
Li, Zhi	CA	IAC-15.A6.5.2
Li, Zhihui	CA	IAC-15.C2.IP.15
Li, Zongfeng	A	IAC-15.A2.5.2
Lian, Yu-Yung	CA	IAC-15.C1.5.2
Liang, Chen	CA	IAC-15.C2.4.3
Liang, Jie	A	IAC-15.C1.IP.19
Liang, Jie	CA	IAC-15.C4.IP.38
Liang, Jie	A	IAC-15.D2.IP.14
Liang, Junlong	CA	IAC-15.C4.IP.16
Liang, Tang	CA	IAC-15.C2.3.8
Liang, Wei	CA	IAC-15.C4.IP.2
Liang, Weiguang	CA	IAC-15.C1.2.10
Liang, Yang	CA	IAC-15.D1.IP.21
Liang, Yuying	A	IAC-15.A3.2C.2
Liao, Xiang	CA	IAC-15.A6.IP.4
Liapi, Marianthi	A	IAC-15.A5.2.11
Liapi, Marianthi	CA	IAC-15.E5.1.2
Liberati, Francesco	CA	IAC-15.A3.2A.8
Liberati, Francesco	CA	IAC-15.A3.5.9
Liddle, Doug	A	IAC-15.B4.2.1
Liddle, Doug	CA	IAC-15.E1.2.1
Liddle, Doug	CA	IAC-15.E6.3.4
Liddle, Doug	A	IAC-15.D1.5.1
Liddle, Doug	CA	IAC-15.B4.7.5
Lijuan, Luo	A	IAC-15.C2.IP.3
Lijun, Cao	A	IAC-15.B4.6A.4
LIM, Cheolwoo	CA	IAC-15.D1.5.2
Limper, Ulrich	CA	IAC-15.A1.3.5
Lin, Chen-Tsung	CA	IAC-15.C1.5.2
Lin, Guo-sheng	CA	IAC-15.C2.IP.18
LIN, JIANG	CA	IAC-15.A6.IP.5
LIN, Mo	CA	IAC-15.B2.1.12
Lin, Ping-Yu	A	IAC-15.E7.IP.20
Lin, Qingguo	CA	IAC-15.C4.6.6
Lin, Shin-Fa	CA	IAC-15.B6.3.1
Lin, Shin-Fa	CA	IAC-15.D1.5.4
Lin, Xin	A	IAC-15.B3.IP.6
Linden, Dimitri	A	IAC-15.E7.1.12
Linder, Esther	A	IAC-15.A6.1.2
Linder, Martin	CA	IAC-15.A7.1.4
Linder, Martin	CA	IAC-15.D1.7.1
Lindner, Gerhard	CA	IAC-15.C4.5.2
Ling, Wenhui	A	IAC-15.C4.9.5
Ling, William Yeong Liang	CA	IAC-15.C4.IP.52
Ling Euk Jin, Alexander	CA	IAC-15.B2.5.9
Ling-bin, ZENG	A	IAC-15.A3.IP.11
Ling-bin, ZENG	A	IAC-15.A3.2C.4
Ling-bin, ZENG	CA	IAC-15.A3.2C.5
Ling-bin, ZENG	CA	IAC-15.A3.2C.6
Linn Barnett, Danna	A	IAC-15.C1.2.3
Linn Barnett, Danna	CA	IAC-15.E1.2.3
Linn Barnett, Danna	CA	IAC-15.C4.IP.14
Lino, Carlos	CA	IAC-15.A6.IP.39
Linton, Greg	CA	IAC-15.A1.6.4
Lionaki, Eleni	CA	IAC-15.A5.2.11
Lionaki, Eleni	CA	IAC-15.E5.1.2
Liorzou, Françoise	CA	IAC-15.A2.1.1
Liorzou, Françoise	CA	IAC-15.B1.IP.9
Liou, J.-C.	CA	IAC-15.A6.1.7
Liou, J.-C.	CA	IAC-15.A6.2.9
Lipa, John	CA	IAC-15.B4.4.6
Liperi, Konstantina	A	IAC-15.E7.IP.8
Lipkin, Yiftah	CA	IAC-15.D5.4.1
Lips, Tobias	CA	IAC-15.A6.4.5
Lips, Tobias	CA	IAC-15.A6.4.7
Liqiang, Hou	CA	IAC-15.B3.IP.4
LiQiang Wang, LiQiang Wang	A	IAC-15.B2.3.11
Lisowski, Jakub	A	IAC-15.A3.3B.11
List, Meike	CA	IAC-15.A2.1.3
List, Meike	CA	IAC-15.A2.1.6
Liszkowski, Piotr	CA	IAC-15.A1.IP.7
Litefti, Karim	CA	IAC-15.B6.3.12



Liu, Bo	CA	IAC-15.B2.6.11
Liu, Chang	CA	IAC-15.C2.7.4
Liu, Chuan	CA	IAC-15.C4.6.6
Liu, Chuankai	A	IAC-15.A3.2C.11
Liu, Gang	A	IAC-15.C2.IP.46
Liu, Guanghui	CA	IAC-15.A1.IP.17
Liu, Hong	CA	IAC-15.A1.IP.12
Liu, Hong	CA	IAC-15.A1.IP.13
Liu, Hong	CA	IAC-15.A1.IP.17
Liu, Hong	A	IAC-15.A1.7.8
Liu, Hong	CA	IAC-15.A1.7.9
Liu, Hongju	CA	IAC-15.A1.3.8
Liu, Hui	A	IAC-15.A1.IP.17
Liu, Jiahe	CA	IAC-15.A6.IP.4
LIU, Jian-xia	CA	IAC-15.C2.IP.23
Liu, Jiangong	CA	IAC-15.B2.1.11
Liu, Jiangong	A	IAC-15.A6.4.11
Liu, Jiangong	CA	IAC-15.C4.IP.26
Liu, Jiangong	CA	IAC-15.B2.6.10
Liu, Jiangong	CA	IAC-15.B2.6.11
Liu, Jiangong	CA	IAC-15.D1.6.11
Liu, Jiaqi	CA	IAC-15.A6.8.7
Liu, Jie	A	IAC-15.C1.IP.8
Liu, Jie	CA	IAC-15.D1.6.12
LIU, JUN	A	IAC-15.C4.IP.49
Liu, Jun	CA	IAC-15.C4.6.6
LIU, Kai	CA	IAC-15.D2.4.4
Liu, Min	CA	IAC-15.A1.5.9
Liu, Naijin	CA	IAC-15.B2.1.11
Liu, Naijin	A	IAC-15.B2.6.10
Liu, Ning	CA	IAC-15.D1.2.8
Liu, Pei-Jing	CA	IAC-15.C4.9.4
Liu, Qiang	CA	IAC-15.D2.4.4
Liu, Sen	CA	IAC-15.A6.3.3
Liu, Sen	CA	IAC-15.A6.3.9
Liu, Sen	CA	IAC-15.A6.IP.5
Liu, Sen	CA	IAC-15.A6.IP.6
Liu, Shi-chang	CA	IAC-15.C4.8.6
Liu, Weiwei	CA	IAC-15.D1.4.11
Liu, Xin	CA	IAC-15.A2.3.7
LIU, Xin	CA	IAC-15.D1.7.6
Liu, Xueyong	CA	IAC-15.A1.4.4
LIU, Xun	A	IAC-15.C3.2.6
LIU, Xun	CA	IAC-15.B1.4.6
LIU, Xun	CA	IAC-15.D1.5.7
Liu, Yang	CA	IAC-15.B2.6.11
Liu, Yang	CA	IAC-15.D5.2.8
Liu, Yang	CA	IAC-15.C4.8.6
Liu, Yonghui	CA	IAC-15.C3.4.6
Liu, Yu	A	IAC-15.A6.IP.17
Liu, Yu	A	IAC-15.C1.9.10
Liu, Yu-Ching	CA	IAC-15.B1.1.6
Liu, Yufei	CA	IAC-15.C2.2.9
Liu, Yufei	CA	IAC-15.C2.3.10
Liu, Yufei	CA	IAC-15.C2.IP.43
Liu, Yufei	CA	IAC-15.C3.IP.2
Liu, Zejun	A	IAC-15.C4.3.12
Liu, Zejun	A	IAC-15.C4.IP.50
LIU, Zhanguo	CA	IAC-15.C4.3.13
Liu, Zhanyi	CA	IAC-15.C4.IP.17
Liu, Zhanyi	CA	IAC-15.C4.IP.20
Liu, Zhanyi	CA	IAC-15.C4.IP.24
Liu, Zhou	CA	IAC-15.C2.IP.31
Liu, Zili	CA	IAC-15.C2.2.9
Liuzzi, Daniele	A	IAC-15.C4.1.7
LIVNE, OFER	A	IAC-15.C4.3.3
Lizarraga Cubillos, Juan	CA	IAC-15.B2.6.6
Lluch, Ignasi	CA	IAC-15.B2.5.8
Lluch, Ignasi	A	IAC-15.D1.7.5
Lobov, Sergey D.	A	IAC-15.C4.1.7
Locci, Ivan	CA	IAC-15.C2.9.3
Lock, Robert	CA	IAC-15.A3.3A.6
Lock, Robert	CA	IAC-15.D1.3.11
Lodiot, Sylvain	CA	IAC-15.A3.4.1
Lognonné, Philippe	CA	IAC-15.A3.3B.5

Logsdon, John	CA	IAC-15.E3.2.1
Lohse-Busch, Heike	A	IAC-15.C2.8.11
Loizzo, Rosa	CA	IAC-15.B6.3.4
Loktionov, Egor	A	IAC-15.C3.1.6
Lombardi, Nunzia	A	IAC-15.B1.IP.3
Lombardi, Riccardo	CA	IAC-15.E5.5.2
Lommatsch, Valentina	CA	IAC-15.A3.4.2
Lomonosova, Yulia	CA	IAC-15.A1.IP.10
Lonchakov, Yuri	CA	IAC-15.B3.5.2
Lonchakov, Yuri	CA	IAC-15.B3.5.7
Long, George Anthony	A	IAC-15.E7.3.7
Long, Jiateng	CA	IAC-15.A3.IP.18
Long, Jie	A	IAC-15.E7.IP.4
Long, Nathaniel	A	IAC-15.E1.7.13
Longo, Francesco	CA	IAC-15.B1.3.1
Longo, Francesco	CA	IAC-15.B1.3.7
Longo, Francesco	CA	IAC-15.A4.4.1
Longuski, James	CA	IAC-15.A5.2.6
Looney, Erin	CA	IAC-15.E1.3.12
Lopatriello, Marianna	A	IAC-15.C2.9.6
Lopez-Dekker, Paco	CA	IAC-15.B1.IP.32
Lopukhov, Dmitry	CA	IAC-15.B2.1.7
Lorenzini, Enrico C.	CA	IAC-15.A7.2.7
Lorenzini, Enrico C.	CA	IAC-15.A6.3.1
Lorenzini, Enrico C.	CA	IAC-15.B4.6B.5
Lorusso, Rino	CA	IAC-15.B1.IP.3
Losekamm, Martin	A	IAC-15.E3.IP.10
Losekamm, Martin	CA	IAC-15.E1.5.3
Losekamm, Martin	A	IAC-15.B4.6B.11
Lotz, Jeffrey	CA	IAC-15.A1.2.6
Louaas, Eric	CA	IAC-15.C4.1.4
Loughman, Joshua	CA	IAC-15.A5.2.8
Loukakis, Andreas	CA	IAC-15.E7.1.7
Loureiro, Geilson	CA	IAC-15.B4.1.10
Loureiro, Geilson	CA	IAC-15.D5.1.7
Loureiro, Geilson	CA	IAC-15.D5.1.9
Loureiro, Geilson	A	IAC-15.D1.IP.16
Loureiro, Geilson	CA	IAC-15.D3.4.7
Loureiro, Geilson	CA	IAC-15.B4.7.7
Loureiro, Nuno	CA	IAC-15.E6.1.7
Loureiro, Nuno	A	IAC-15.E6.2.10
Lousada, Joao	CA	IAC-15.E6.1.7
Lousada, Joao	A	IAC-15.A5.2.8
Lousada, Joao	CA	IAC-15.E6.2.10
Lousada, Joao	A	IAC-15.D1.2.1
Lousada, Joao	A	IAC-15.E3.IP.3
Low, Kay-Soon	CA	IAC-15.C1.5.3
Loyan, Andriy	CA	IAC-15.B4.6B.13
Lozano, Paulo	CA	IAC-15.C4.IP.40
LU, Jianwei	A	IAC-15.C4.3.10
Lu, Jinying	CA	IAC-15.A1.5.9
Lu, Juan	A	IAC-15.B2.2.2
Lu, Shan	CA	IAC-15.B1.4.4
Lu, Wei	A	IAC-15.C3.2.8
Lu, Wu	CA	IAC-15.C2.5.10
Lu, Xi	A	IAC-15.C2.5.4
Lu, Xiaochen	CA	IAC-15.A2.2.7
Lu, Xiaochen	A	IAC-15.C2.7.1
Lu, Yangming	A	IAC-15.A2.5.9
Lu, Yi	A	IAC-15.E5.2.8
Lu, Zhuoyan	A	IAC-15.E7.IP.11
Lubey, Daniel	CA	IAC-15.C1.7.1
Lucas-Rhimbassen, Maria	CA	IAC-15.E1.7.11
Luchitskaya, Elena	CA	IAC-15.A1.2.2
Luchitskaya, Elena	A	IAC-15.A1.3.3
Luchitskaya, Elena	CA	IAC-15.A1.3.5
Ludmila, Kolomentseva	CA	IAC-15.C3.3.3
Ludmila, Kolomentseva	CA	IAC-15.C4.8.2
Ludwig, Carina	A	IAC-15.C2.1.1
Luetke, Wolfram	CA	IAC-15.B2.6.2
Lukashevich, Sergey	CA	IAC-15.D1.1.8
Lukaszczyk, Agnieszka	CA	IAC-15.E3.1.13
Lukauskaite, Ieva	CA	IAC-15.E5.1.7
Lun, Jonathan	A	IAC-15.C4.IP.30
Lund, Matthew	A	IAC-15.E5.1.5

Lundsgaard, Thorbjørn Waal	A	IAC-15.E3.IP.9
Lunghi, Paolo	A	IAC-15.A3.2B.5
Lunghi, Paolo	CA	IAC-15.C1.7.8
Luo, Chunqin	CA	IAC-15.C4.9.5
LUO, Jianjun	CA	IAC-15.C2.2.3
Luo, Xiaotao	CA	IAC-15.A3.2C.4
Luo, Ya-Zhong	CA	IAC-15.B6.3.13
Luo, Zhengping	CA	IAC-15.C2.5.10
Lupisella, Mark	CA	IAC-15.E3.2.1
Lupo, Stefano	CA	IAC-15.E5.5.3
Lupton, Luke	A	IAC-15.E1.9.4
Lv, Ke	CA	IAC-15.A1.3.2
LV, Wei	CA	IAC-15.C2.7.4
Lykos, Georgios	CA	IAC-15.A5.2.11
LYONS, RHONDA	A	IAC-15.B4.6B.10
Lyons, Tom	CA	IAC-15.E1.2.1
Lysova, Natalya	CA	IAC-15.A1.4.3
Lyubchenko, Feodor	CA	IAC-15.B1.IP.28
László, Könözy	CA	IAC-15.C2.8.3
Lämmerzahl, Claus	A	IAC-15.A2.1.6
Lüdtke, Daniel	CA	IAC-15.D1.IP.13

M

Name	Role	Paper
M Ganapathy, Rohan	A	IAC-15.C4.IP.29
M N, Namboodiripad	CA	IAC-15.D1.IP.5
M S, KRITHIKA	CA	IAC-15.C3.4.2
Ma, Handong	CA	IAC-15.C2.IP.15
Ma, Helene	A	IAC-15.A6.9.8
MA, RONG	A	IAC-15.A2.2.7
MA, RONG	CA	IAC-15.C2.7.1
Ma, Weihua	CA	IAC-15.A3.IP.5
Ma, XiaoFei	A	IAC-15.C2.IP.2
Ma, Xingrui	CA	IAC-15.C1.IP.15
Ma, Yuan	A	IAC-15.C4.9.7
Ma, Yuan	A	IAC-15.C4.9.8
Macau, Elbert E.N.	A	IAC-15.C1.3.7
Maccione, Claudio	A	IAC-15.A4.1.3
Maccione, Claudio	A	IAC-15.A4.IP.1
Maccione, Claudio	A	IAC-15.D4.IP.1
Maccione, Claudio	A	IAC-15.A4.2.4
Macdonald, Malcolm	CA	IAC-15.A6.4.6
Macdonald, Malcolm	CA	IAC-15.C1.9.4
Machado da Silva, Jose	CA	IAC-15.B2.1.1
Mackwell, Steve	CA	IAC-15.E3.2.1
MacLeish, Marlene	A	IAC-15.E1.5.7
Maddock, Christie	CA	IAC-15.D2.4.6
Mader, Marianne	CA	IAC-15.E1.4.1
Madhugiri, Niti	CA	IAC-15.E1.7.11
Madonna, Alberto	CA	IAC-15.A2.5.7
Madsen, Michael	CA	IAC-15.E5.4.3
Magariello, Antonio	CA	IAC-15.E2.3-YPVF.4.2
Magariello, Antonio	A	IAC-15.B3.7.9
Maggiore, Paolo	CA	IAC-15.D2.4.3
Magliozzi, Maria Lucia	CA	IAC-15.B1.2.2
Magliozzi, Maria Lucia	CA	IAC-15.B1.6.5
Magnani, Piergiorganni	A	IAC-15.A3.2B.2
Magnien, Julien	CA	IAC-15.C2.8.7
Mahajna, Mohamad	CA	IAC-15.A1.4.2
Mahalingesh, T.C.	CA	IAC-15.C3.IP.5
Mahalingesh, T.C.	CA	IAC-15.C3.4.9
Mahato, Biltu	A	IAC-15.A6.IP.25
Mahendrarajah, Nirojan	CA	IAC-15.B4.7.6
Mahoney, Erin	CA	IAC-15.A3.1.4
Mahoney, Erin	A	IAC-15.B3.7.2
Mahoney, Erin	CA	IAC-15.E1.8.1
Maibaum, Michael	CA	IAC-15.A3.4.2
Maier, Philipp	A	IAC-15.A6.1.6
Maier, Philipp	CA	IAC-15.E6.1.9
Maier, Philipp	CA	IAC-15.E6.2.3
Mains, Deanna	CA	IAC-15.A6.2.8
Maiwald, Volker	A	IAC-15.C1.1.2
Maiwald, Volker	CA	IAC-15.D1.3.5

Makapela, Lulekwa	A	IAC-15.E1.5.8
Makarov, Yuri	A	IAC-15.E3.1.8
Makarov, Yuri	CA	IAC-15.E3.2.9
Makarov, Yuriy	CA	IAC-15.A6.IP.15
Makarova, Daria	CA	IAC-15.E3.1.8
Makushenko, Yury	CA	IAC-15.A5.1.8
Makushenko, Yury	A	IAC-15.A5.1.9
Malhotra, Vinayak	A	IAC-15.D4.1.4
Malhotra, Vinayak	A	IAC-15.C4.IP.57
Mallikarjuna, Vaibhav	CA	IAC-15.E3.IP.3
Mallikarjuna, Vaibhav	CA	IAC-15.B4.6B.13
Malucchi, Giovanni	A	IAC-15.D2.6.4
Malwadkar, Omkar	CA	IAC-15.C3.IP.3
Malwadkar, Omkar	CA	IAC-15.C3.4.8
Malyshev, Veniamin V.	CA	IAC-15.A6.2.3
Maman, Shimrit	A	IAC-15.E1.8.3
Mammarella, Marco	CA	IAC-15.A3.2B.7
Mammarella, Martina	CA	IAC-15.A2.6.8
Mammarella, Martina	CA	IAC-15.D1.7.7
Mancuso, Salvatore	CA	IAC-15.D2.6.2
Manefeld, Mike	CA	IAC-15.A1.6.6
Manente, Marco	CA	IAC-15.C4.IP.47
Manente, Marco	CA	IAC-15.C4.6.3
Mani Sai Suryateja, Jammalamadaka	A	IAC-15.C4.IP.35
Mann, Rony	CA	IAC-15.A3.IP.3
Mannel, Benjamin	CA	IAC-15.B4.4.5
Mannel, Thuriid	CA	IAC-15.B3.4-B6.5.2
Manoli, Maria	A	IAC-15.E7.IP.9
Mantellato, Riccardo	CA	IAC-15.E2.3-YPVF.4.11
Mantellato, Riccardo	CA	IAC-15.B4.6B.5
Mantra, Nahum	A	IAC-15.E5.4.4
Manyapu, Kavya K.	A	IAC-15.B3.IP.2
Mao, Chengli	CA	IAC-15.C4.IP.10
Marboe, Irmgard	CA	IAC-15.E6.1.5
Marboe, Irmgard	A	IAC-15.E7.5.13
Marchesi, Andrea	CA	IAC-15.E5.5.2
Marchetti, Mario	CA	IAC-15.C2.4.4
Marchetti, Mario	CA	IAC-15.C2.8.12
MARCIACQ, Jean-Bruno	A	IAC-15.D6.1.4
Marcil, Isabelle	CA	IAC-15.B3.3.2
Marciniak, Blazej	A	IAC-15.D2.IP.2
Marciniak, Blazej	CA	IAC-15.D2.7.10
Marcon, Marco	CA	IAC-15.A6.5.8
Marcu, Sebastian Davis	CA	IAC-15.E6.1.7
Marcu, Sebastian Davis	A	IAC-15.E1.7.2
Marcuccio, Salvo	A	IAC-15.C4.6.7
Margaronis, Konstantinos	CA	IAC-15.D4.1.9
Margheritis, Diana	CA	IAC-15.A3.3A.2
Margheritis, Diana	CA	IAC-15.A3.IP.19
Margheritis, Diana	A	IAC-15.A3.3B.2
Margoy, Debby	A	IAC-15.C2.IP.35
Mariano, Jose	CA	IAC-15.B3.2.8
Mariano, Jose	CA	IAC-15.D2.7.8
Marie, Julien	A	IAC-15.E7.2.5
Marisaldi, Martino	CA	IAC-15.B4.3.1
Markgraf, Markus	A	IAC-15.B2.1.6
Markgraf, Markus	A	IAC-15.D2.4.8
Markov, Alexander	CA	IAC-15.B3.3.6
Marne, Aniket	A	IAC-15.E2.3-YPVF.4.9
Marne, Aniket	CA	IAC-15.E2.4.3
Marne, Aniket	A	IAC-15.E2.4.9
Marne, Aniket	A	IAC-15.C2.9.8
Marmine, David	CA	IAC-15.C4.6.12
Marquart, Samantha	A	IAC-15.E6.3.10
Marraud, Christine	CA	IAC-15.C4.2.1
Marsell, Brandon	CA	IAC-15.A2.6.2
Marsetti, Aleš	CA	IAC-15.B4.4.9
Marshall, Ross	CA	IAC-15.B4.2.6
Marshall-Bowman, Karina	A	IAC-15.A1.2.1
Martelo, Antonio	CA	IAC-15.D1.3.5
Martelo, Antonio	A	IAC-15.D1.3.6
Martin, Annie	CA	IAC-15.B3.7.3
Martin, Cesar	CA	IAC-15.D1.7.3
Martin, Gary	A	IAC-15.E1.7.11
Martin, Iain	CA	IAC-15.C1.IP.18



Martin, Luis	CA	IAC-15.A6.1.6
Martin-Salvador, Manuel	CA	IAC-15.B2.1.3
Martinez, Ignacio	CA	IAC-15.E1.2.5
Martinez, Larry	A	IAC-15.E7.3.4
Martinez, Peter	A	IAC-15.E1.4.4
Martinez, Peter	A	IAC-15.E3.4.1
Martinez, Peter	A	IAC-15.E1.8.2
Martinez, Roland	CA	IAC-15.A5.1.1
Martinez, Santa	CA	IAC-15.E1.IP.6
Martinez, Victor	CA	IAC-15.E5.1.6
Martinez Oliveira, David	CA	IAC-15.B3.4-B6.5.4
Martinez-Gonzalez, Xavier	CA	IAC-15.A5.3-B3.6.6
Martinot, Vincent	CA	IAC-15.A6.9.10
Martirosyan, Arutyun	CA	IAC-15.C3.1.6
Martorana, Rosario	A	IAC-15.B1.IP.10
Martucci, Giovanni	CA	IAC-15.D6.3.1
Martucci, Giovanni	CA	IAC-15.D6.3.7
Martynov, Maxim	CA	IAC-15.A3.1.5
Maryanka, Yair	A	IAC-15.D1.2.2
Marée, Hugo	CA	IAC-15.E2.4.1
Masali, Melchiorre	CA	IAC-15.A1.IP.8
Mascetti, Gabriele	CA	IAC-15.B3.3.4
Mascetti, Gabriele	CA	IAC-15.E6.IP.3
Mascolo, Luigi	A	IAC-15.D2.3.7
Masdemont, Josep J.	CA	IAC-15.C1.5.7
Maslov, Dmitry	CA	IAC-15.D2.IP.9
Massari, Mauro	CA	IAC-15.E5.5.2
Masse, Christian	CA	IAC-15.C2.8.7
Masse, Robert	CA	IAC-15.C4.1.9
Massimiani, Chiara	CA	IAC-15.A6.IP.12
Massobrio, Federico	CA	IAC-15.D2.4.5
Massoli, Patrizio	CA	IAC-15.E6.IP.3
Masson, Clément	A	IAC-15.E2.2.6
Masson, Jacques	CA	IAC-15.E3.2.1
Masson, Louis	CA	IAC-15.B4.4.5
Masson-Zwaan, Tanja	CA	IAC-15.E3.2.1
Masson-Zwaan, Tanja	CA	IAC-15.E7.5.11
Massotti, Luca	CA	IAC-15.B1.1.4
Masur, Andrew	A	IAC-15.B6.1.4
Mater, Daniel	CA	IAC-15.E1.7.11
Matevosyan, Hripsime	A	IAC-15.B1.IP.24
Mathavaraj, S	A	IAC-15.C1.7.6
Mathers, Naomi	A	IAC-15.A7.1.3
MATHEW, DONA	CA	IAC-15.C2.9.11
Mathew, Rajesh	A	IAC-15.C2.IP.45
Mathis, Heinz	CA	IAC-15.B4.4.5
Matiushin, Maxim	A	IAC-15.D3.2.2
Matiushin, Maxim	A	IAC-15.A3.IP.17
Matiushin, Maxim	A	IAC-15.D1.4.10
Matiushin, Maxim	A	IAC-15.B6.2.4
Matko, Drago	CA	IAC-15.B4.4.9
Matos de Carvalho, Tiago Henrique	A	IAC-15.D1.IP.17
Matousek, Steve	A	IAC-15.A3.3A.6
Matsumoto, Haruhisa	CA	IAC-15.A6.1.8
Matsumoto, Satoshi	CA	IAC-15.A2.IP.3
Matthias, Carsten	CA	IAC-15.A1.7.7
Mattingly, Richard	CA	IAC-15.A3.3A.6
Matvienko, Sergei	CA	IAC-15.C3.3.8
Matvienko, Sergey	CA	IAC-15.A3.IP.16
Matyszewski, Jan	CA	IAC-15.A2.5.10
Matyszewski, Jan	CA	IAC-15.D2.7.10
Matzenmiller, Anton	CA	IAC-15.C2.8.5
Maurer, Matthias	CA	IAC-15.A3.2A.4
Mauro, David	CA	IAC-15.A1.6.5
Mauro, David	CA	IAC-15.B4.8.12
Mauro, Stefano	A	IAC-15.D2.3.8
Maximova, Maria	CA	IAC-15.A1.IP.21
May, Todd	A	IAC-15.D2.1.2
Mayer, Hannes	A	IAC-15.E7.IP.5
Mayer, Hannes	A	IAC-15.E4.3.7
Mayer, Ralo	A	IAC-15.E5.4.9
Mayer, Tobias	A	IAC-15.E2.3-YPVF.4.3
Mayorova, Vera	A	IAC-15.A6.IP.35
Mayorova, Vera	CA	IAC-15.D1.IP.9
Mayorova, Vera	A	IAC-15.B4.6A.6

Mayorova, Vera	A	IAC-15.E1.7.4
Mayorova, Vera	A	IAC-15.E2.4.5
Mazza, Isabella	A	IAC-15.D4.2.7
Mazza, Isabella	A	IAC-15.B1.IP.18
Mazzoleni, Andre	CA	IAC-15.C4.IP.42
Mazzoleni, Andre	CA	IAC-15.C4.8.1
Mazzucchelli, Chiara	CA	IAC-15.A4.IP.1
McCarthy, Justin	CA	IAC-15.E6.1.10
McCartney, Dennis	CA	IAC-15.B1.IP.39
McGill, Natalie	CA	IAC-15.A1.5.10
McGrath, Ciara	A	IAC-15.C1.9.4
McGrath, Michael	A	IAC-15.E1.5.2
McGraw, Allison	A	IAC-15.E1.IP.9
McGuire, Melissa	CA	IAC-15.C3.1.6
McInnes, Colin R.	CA	IAC-15.B4.6B.4
McInnes, Colin R.	CA	IAC-15.C1.8.1
McIntyre, Nathanael	A	IAC-15.E3.4.8
McKay, Chris	CA	IAC-15.A3.3B.6
McKnight, Darren	A	IAC-15.A6.2.7
McKnight, Darren	CA	IAC-15.A6.7.3
McKnight, Darren	A	IAC-15.A6.7.7
McNutt, Jr., Ralph L.	A	IAC-15.D4.4.1
McNutt, Jr., Ralph L.	CA	IAC-15.D4.4.3
McSweeney, Clair	CA	IAC-15.E5.4.7
McVey, John	CA	IAC-15.A6.2.2
McVey, John	A	IAC-15.A6.9.4
Medeiros, Milene	CA	IAC-15.C2.7.10
Medel, Juan Ramon	CA	IAC-15.E3.4.6
Medina, Albert	A	IAC-15.E7.IP.3
Medina, Alberto	A	IAC-15.D1.2.11
Medina, Alberto	CA	IAC-15.A6.IP.23
Medina, Alberto	A	IAC-15.A6.5.8
Megret, Aimé	CA	IAC-15.B1.2.1
Mehta, Piyush	A	IAC-15.A6.9.2
Meini, Marco	A	IAC-15.B1.3.7
Meisha, Cheng	A	IAC-15.C4.IP.11
Mejia, Guilherme	A	IAC-15.C4.IP.56
Melamed, Nahum	A	IAC-15.A3.IP.35
Melamed, Nahum	A	IAC-15.D4.3.4
Melamed, Nahum	A	IAC-15.D2.8-A5.4.1
Melazzi, Davide	CA	IAC-15.C4.IP.47
Mellab, Karim	CA	IAC-15.A3.4.9
Mellerowicz, Bolek	CA	IAC-15.A3.3B.6
Melotti, Ezio	CA	IAC-15.B3.5.1
Melotti, Ezio	CA	IAC-15.A5.3-B3.6.1
Mendes, Michelle	A	IAC-15.E1.1.7
Mendes, Michelle	A	IAC-15.D4.2.4
Mendes, Michelle	A	IAC-15.E3.4.10
Mendes, Michelle	A	IAC-15.E1.6.3
Mendes, Michelle	A	IAC-15.E5.6.2
Mendes, Ricardo	CA	IAC-15.B2.5.7
Meng, Bai	CA	IAC-15.B6.2.3
Meng, Chen	CA	IAC-15.A5.IP.5
Meng, Chen	A	IAC-15.A5.3-B3.6.8
Meng, Fankong	CA	IAC-15.A2.2.5
Meng, Fankong	A	IAC-15.C2.7.7
Meng, Guang	CA	IAC-15.C2.5.4
Meng, Henghui	CA	IAC-15.D1.6.12
Meng, Linzhi	CA	IAC-15.A3.IP.22
Meng, Wei	CA	IAC-15.B2.IP.8
Meng, Xin	CA	IAC-15.B6.2.3
Menkin, Evgeny	A	IAC-15.B6.1.3
Menshikov, Valery	A	IAC-15.C4.8.5
Mensink, Wendy	CA	IAC-15.E6.3.3
Mensink, Wendy	CA	IAC-15.E1.7.11
Menz, Gunter	CA	IAC-15.E1.2.2
Merino, Mario	CA	IAC-15.A6.5.5
Merkle, Fritz	CA	IAC-15.A2.1.6
Mermut, Ozzy	CA	IAC-15.A1.2.5
Merz, Klaus	CA	IAC-15.A6.4.7
Mesland, Alexandre	A	IAC-15.D2.7.6
Mesnager, Jean-Michel	CA	IAC-15.D1.3.1
Messerschmid, Ernst	CA	IAC-15.A5.1.4
Messerschmid, Ernst	CA	IAC-15.D1.6.7
Messidoro, Andrea	CA	IAC-15.D2.3.7

Messidoro, Piero	CA	IAC-15.D3.2.1
Messina, Piero	A	IAC-15.E3.1.3
Mestreau-Garreau, Agnes	CA	IAC-15.B4.2.5
METRIS, Gilles	CA	IAC-15.A2.1.2
Metuki, Ofer	CA	IAC-15.E1.6.6
Meuws, David	CA	IAC-15.B3.7.7
Meyen, Forrest	A	IAC-15.B3.7.10
Meyer, Jan-Christian	CA	IAC-15.D4.1.11
Meyer, Jan-Christian	CA	IAC-15.A6.4.5
Meyer, Jan-Christian	CA	IAC-15.A6.IP.33
Meyer, Jan-Christian	A	IAC-15.A6.IP.36
Meyer, Jan-Christian	A	IAC-15.D1.6.2
Meyer, Michael	CA	IAC-15.C2.9.3
Meyer, Sebastian	A	IAC-15.C2.2.4
Meyyappan, Meyya	CA	IAC-15.C2.8.10
Mezyk, Lukasz	A	IAC-15.C4.1.11
MIAO, Jianyin	CA	IAC-15.C2.7.4
Michaels, Adam	A	IAC-15.A3.2C.3
Michalczuk, Rafał	CA	IAC-15.D1.1.6
Micheals, Dan	A	IAC-15.C4.8.8
Michel, Alice	CA	IAC-15.B6.3.12
Michel, Patrick	CA	IAC-15.E3.2.1
Michel, Patrick	CA	IAC-15.A3.4.8
Michel Valencia, Rene Horacio	A	IAC-15.E1.3.9
Micheletti Cremasco, Margherita	CA	IAC-15.A1.IP.8
Mierheim, Olaf	CA	IAC-15.C2.2.1
Mierheim, Olaf	CA	IAC-15.A3.4.6
Mierheim, Olaf	CA	IAC-15.C2.8.11
Mierheim, Olaf	CA	IAC-15.C2.9.9
Migeotte, Pierre-François	A	IAC-15.A1.3.5
Miguel González Pérez, José	CA	IAC-15.E1.2.8
Mihalache, Nicolae	CA	IAC-15.A5.3-B3.6.6
Mihara, Shoichiro	A	IAC-15.C3.2.1
Mijovic, Milan	A	IAC-15.E3.2.12
Mikhail, Rudnykh	A	IAC-15.C4.1.7
Milen, David	CA	IAC-15.A3.5.9
Milillo, Giovanni	CA	IAC-15.B1.IP.3
Milián, Carles	CA	IAC-15.B1.2.6
Miller, Sharon	CA	IAC-15.C2.6.3
Miller Morrison, John	A	IAC-15.B1.IP.39
Milligan, David	A	IAC-15.B6.3.2
Milner, Cas	CA	IAC-15.E6.1.10
Milosevic, Stevan	CA	IAC-15.E2.3-YPVF.4.6
Milova, Praskovia	A	IAC-15.E6.2.6
MIMOUN, David	A	IAC-15.A3.5.5
MIN, LIU	A	IAC-15.B3.9-YPVF.2.2
Mineiro, Michael	CA	IAC-15.D4.2.2
Mineiro, Michael	A	IAC-15.D4.3.8
Minesugi, Kenji	CA	IAC-15.C2.5.1
Minghao, YIN	CA	IAC-15.A3.2A.2
Mingireanu, Florin	A	IAC-15.C4.IP.36
Mingireanu, Florin	A	IAC-15.C4.IP.45
Mingireanu, Florin	A	IAC-15.C4.IP.48
Minisci, Edmondo	CA	IAC-15.D2.4.6
Minisci, Edmondo	CA	IAC-15.A6.9.2
Minnifield Cheeks, Nona	A	IAC-15.E5.2.1
Minster, Olivier	CA	IAC-15.B3.3.1
Miranda, Francisco	A	IAC-15.D2.5.8
Miranda, Ricardo	CA	IAC-15.A1.6.2
MIRER, Sergey	CA	IAC-15.C1.5.2
Mirra, Carlo	CA	IAC-15.B3.3.7
Mirzaeian Tafti, Mohammad Sadegh	CA	IAC-15.B5.1.8
Mishra, Rashi	CA	IAC-15.E1.3.6
Mishra, Rashi	CA	IAC-15.C4.6.11
Mishra, Utkarsh Ranjan	CA	IAC-15.C1.9.3
Misra, Arun	CA	IAC-15.A6.5.6
Misra, Arun	CA	IAC-15.D4.3.1
Misra, Tapan	CA	IAC-15.B1.1.9
Mistry, Dipen	CA	IAC-15.A6.4.8
Misuri, Tomaso	CA	IAC-15.C4.IP.43
Misuri, Tommaso	CA	IAC-15.C2.1.10
Misuri, Tommaso	A	IAC-15.C4.IP.41
Misuri, Tommaso	A	IAC-15.C4.IP.46
Misuri, Tommaso	CA	IAC-15.C4.4.2
Mitchell, Clementine	CA	IAC-15.A5.3-B3.6.5

Mitra, Pradeep	A	IAC-15.C4.IP.27
Mittal, Prakul	CA	IAC-15.C2.1.7
Miura, Amane	CA	IAC-15.B2.6.7
Miura, Yoshiyuki	A	IAC-15.B4.6A.7
Miyakawa, Takehiro	CA	IAC-15.B1.3.9
Miyake, Masazumi	CA	IAC-15.B3.1.3
Miyamoto, Hirdy	CA	IAC-15.A3.3A.3
Miyashita, Naoki	CA	IAC-15.C2.3.3
Miyoshi, Takanori	A	IAC-15.E3.2.5
Moalem, Meir	A	IAC-15.B4.1.1
Moalem, Meir	A	IAC-15.D4.2.6
Moalem, Meir	A	IAC-15.E5.2.7
Moalem, Meir	A	IAC-15.C2.8.8
Moder, Jeffrey	CA	IAC-15.A2.6.2
Mody, Amin Ali	CA	IAC-15.B4.8.4
Moens, Sarah	A	IAC-15.E7.IP.7
Mohanty, Susmita	CA	IAC-15.A3.2A.4
MOHRE MARUTHI, Yashodhar Rao	CA	IAC-15.E1.7.10
Mohtar, Tharek	CA	IAC-15.D2.3.8
Moiseev, Ivan	CA	IAC-15.E4.1.2
MOLINA, Marco	CA	IAC-15.A3.2B.2
MOLINA, Marco	CA	IAC-15.B1.3.7
MOLINA, Marco	A	IAC-15.A6.IP.40
MOLINA, Marco	CA	IAC-15.B2.5.4
Moll, Florian	CA	IAC-15.B2.5.12
Molotov, Igor	A	IAC-15.A6.1.1
Monge, Luis	A	IAC-15.E1.9.5
Monserrat-Filho, José	CA	IAC-15.E7.3.9
Monserrat-Filho, José	A	IAC-15.E7.5.15
Montabone, Mauro	CA	IAC-15.A3.IP.36
Montag, Christoph	A	IAC-15.A6.3.6
Montenbruck, Oliver	CA	IAC-15.B2.1.6
Montenbruck, Oliver	CA	IAC-15.D2.4.8
Montfort, Bruno	CA	IAC-15.B1.1.8
Monti, Francesco Maria	CA	IAC-15.A6.6.11
Montoya Lorenzana, Lilia	CA	IAC-15.A1.6.2
Moon, Sangman	CA	IAC-15.B2.IP.2
Moon, Yongjun	A	IAC-15.B4.8.5
Moore, Christopher	A	IAC-15.A5.2.2
Moore, Christopher	CA	IAC-15.B3.7.2
Mora, Christophe	CA	IAC-15.A2.3.2
Mora Boluda, Adrian	CA	IAC-15.E2.3-YPVF.4.2
Mora Boluda, Adrian	CA	IAC-15.B3.7.9
Mora Vargas, Andrés	A	IAC-15.A2.6.3
Mora Vargas, Andrés	CA	IAC-15.E1.9.5
Moraguez, Matthew	CA	IAC-15.A6.1.7
Mordvintsev, Alexander	A	IAC-15.D1.3.2
Morea, Giuseppe Danilo	CA	IAC-15.A3.IP.36
Moreau, Didier	CA	IAC-15.B6.3.12
Moreels, Philippe	A	IAC-15.A6.6.4
Moreno, José Miguel	CA	IAC-15.B4.7.9
Moreno, Luis	CA	IAC-15.A3.5.9
Morenz, Karen	CA	IAC-15.A1.8.5
Morgan, Sarah	CA	IAC-15.C2.6.3
Mori, Osamu	CA	IAC-15.C3.3.6
Morishita, Hiroyuki	CA	IAC-15.B4.6A.7
Morita, Hatsuru	A	IAC-15.E7.4.9
Morita, Yasuhiro	CA	IAC-15.D2.1.6
Moro Aguilar, Rafael	A	IAC-15.E7.3.1
Moroz, Michal	A	IAC-15.B1.6.2
Morozova, Elina	A	IAC-15.E7.4.11
Morzukhina, Alena	CA	IAC-15.C2.8.4
Moseley, Samuel Harvey	CA	IAC-15.A7.3.3
Moseley, Samuel Harvey	CA	IAC-15.D1.6.4
Moser, Hubert Anton	A	IAC-15.B4.8.2
Mostert, Sias	CA	IAC-15.E3.3.7
Motsyk, Olga	A	IAC-15.C4.2.2
Motsyk, Olga	A	IAC-15.E2.3-YPVF.4.6
Motyka, Oldřich	CA	IAC-15.A1.6.3
Motzigemba, Matthias	CA	IAC-15.B2.6.2
Mou, Yongqiang	CA	IAC-15.A6.3.8
Mouchino, Avner	CA	IAC-15.C1.2.2
Moussa, Hanna	CA	IAC-15.A1.5.10
Moussi, Aurélie	A	IAC-15.B6.3.3
Moussi-Soffys, Aurelie	CA	IAC-15.A3.4.2



Mozzetti, Chiara	CA	IAC-15.B2.3.2
Mozzillo, Raffaele	CA	IAC-15.B4.6B.8
Mozzillo, Raffaele	CA	IAC-15.D1.5.5
Mu, Zhongcheng	CA	IAC-15.B4.4.3
Mu, Zonggao	A	IAC-15.D4.1.7
Mueller, Benjamin	A	IAC-15.A6.IP.46
Mugellesi-Dow, Roberta	CA	IAC-15.D5.2.6
Mugellesi-Dow, Roberta	A	IAC-15.B5.1.1
Muggianu, Alessio Antioco	CA	IAC-15.A2.6.8
Muggianu, Alessio Antioco	CA	IAC-15.D1.7.7
Mugnuolo, Raffaele	CA	IAC-15.A3.5.4
Muir, Jesse	CA	IAC-15.A1.3.6
Muirhead, Brian	CA	IAC-15.A5.1.2
Mukhamedzhanov, Ruslan	CA	IAC-15.A2.5.1
Mukherjee, Bijoy K.	CA	IAC-15.C1.9.11
Mukherjee, Sumana	CA	IAC-15.C3.4.5
Mukherjee, Suparna	A	IAC-15.D3.4.2
Mukherji, Raja	CA	IAC-15.A3.IP.46
Mulder, Edwin	CA	IAC-15.A1.2.1
Mullin, Nikolay	CA	IAC-15.B4.4.5
Mundinger, Martin	A	IAC-15.E2.3-YPVF.4.3
Munin, Evgeniy	CA	IAC-15.D1.IP.9
Munk, Michelle	CA	IAC-15.A3.1.3
Mura, Francesco	CA	IAC-15.A3.3A.10
Murakami, Keiji	CA	IAC-15.A2.IP.3
Murakami, Yusuke	CA	IAC-15.E5.6.4
Muraki, Yusuke	A	IAC-15.E5.5.9
Murashko, Anastasia	CA	IAC-15.A5.1.9
Murgia, Jhonathan	CA	IAC-15.C1.4.9
Murdy, Markus	CA	IAC-15.E1.3.1
Muresan, Tudor	CA	IAC-15.A3.IP.34
Murphy, Thomas	CA	IAC-15.A1.8.6
Murrow, David	A	IAC-15.A3.1.9
Murrow, David	CA	IAC-15.A5.1.13
Murtazin, Rafail	CA	IAC-15.A5.1.9
Murthi, K.R. Sridhara	CA	IAC-15.E3.1.9
Murthi K. R., Sridhara	CA	IAC-15.E3.2.3
Murthi K. R., Sridhara	CA	IAC-15.E3.3.4
Musilova, Michaela	CA	IAC-15.E1.7.11
Muszytowski, Sebastian	CA	IAC-15.B2.IP.9
Muthulingam, Dhack	CA	IAC-15.C4.2.10
Muthuswamy, Loganathan	CA	IAC-15.B2.3.8
Muthuswamy, Loganathan	CA	IAC-15.B2.3.9
Muthuswamy, Loganathan	CA	IAC-15.B4.8.4
Mutyalarao, Mandarapu	A	IAC-15.A3.2C.1
Muñoz-Rodríguez, Maria-del-Carmen	A	IAC-15.E3.1.10
Muñoz-Rodríguez, Maria-del-Carmen	A	IAC-15.E7.5.9
Myasnikov, Maxim	A	IAC-15.A2.IP.4
Myekhonoshyn, Yury	CA	IAC-15.D2.7.11
Mylonaki, Dionysia	A	IAC-15.E1.9.10
Möckel, Marek	CA	IAC-15.A6.8.4
Möstl, Stefan	CA	IAC-15.A1.3.5

N

Name	Role	Paper
N, Remesh	A	IAC-15.C1.1.9
Nadalini, Riccardo	CA	IAC-15.C3.3.1
Nadalini, Riccardo	CA	IAC-15.C2.7.2
Nadalini, Riccardo	CA	IAC-15.C2.7.3
Nader, Nourhane	CA	IAC-15.A6.IP.42
Nadler, Ron	CA	IAC-15.B1.2.2
Nadler, Ron	A	IAC-15.B1.3.2
Nadler, Ron	CA	IAC-15.B1.6.5
Nag, Sreeja	A	IAC-15.D1.4.1
Nagai, Yuichiro	A	IAC-15.E3.1.9
Nagendra, Narayan Prasad	A	IAC-15.A6.IP.21
Nagendra, Narayan Prasad	CA	IAC-15.E5.2.4
Naik, Kartik	CA	IAC-15.B2.3.9
Naik, Pranjal	CA	IAC-15.E2.4.9
NAIR, C P REGHUNADHAN	CA	IAC-15.C2.9.11
Nair, Praveen	CA	IAC-15.E1.7.11
Nakagami, Hidetoshi	CA	IAC-15.A2.6.5
Nakagawa, Keizo	CA	IAC-15.C2.3.3

Nakajima, Madoka	CA	IAC-15.B2.3.7
NAKAJIMA, MASAKATSU	A	IAC-15.B1.3.9
Nakajima, Yuta	A	IAC-15.B4.6A.10
Nakajima, Yuta	CA	IAC-15.C1.9.7
Nakamura, Maki	CA	IAC-15.A6.1.8
Nakamura, Shuji	CA	IAC-15.C3.2.1
Nakamura, Yasuhiro	CA	IAC-15.A2.IP.3
Nakamura, Yasuhiro	CA	IAC-15.A2.6.5
Nakarada Pecujlic, Anja	A	IAC-15.E7.1.13
Nakasuka, Shinichi	CA	IAC-15.C1.1.8
Nakath, David	CA	IAC-15.A3.IP.15
Nakath, David	CA	IAC-15.C1.7.4
Nakazono, Barry	CA	IAC-15.C4.2.10
Naldi, Stefano	CA	IAC-15.E1.3.8
Naldi, Stefano	CA	IAC-15.A6.IP.30
Naldi, Stefano	CA	IAC-15.A6.IP.31
Naldi, Stefano	CA	IAC-15.E6.3.9
Nambiar, Shrirup	CA	IAC-15.D3.1.4
NAMDEO, SAKSHI	CA	IAC-15.B4.8.4
NAN, Xiangyi	CA	IAC-15.A3.9.7
NAN, Xiangyi	CA	IAC-15.C4.9.8
Nanri, Hideaki	CA	IAC-15.C4.1.1
Naor, Roy	CA	IAC-15.E1.7.11
Napier, Sean	CA	IAC-15.E2.3-YPVF.4.8
Nardi, Davide	A	IAC-15.C2.5.7
Nargunam A, Shajin	A	IAC-15.E2.1.2
Naruo, Yoshihiro	CA	IAC-15.C4.1.8
Naruo, Yoshihiro	CA	IAC-15.C4.3.2
Nascetti, Augusto	CA	IAC-15.C2.7.11
Nascimento, Jorge	A	IAC-15.D5.1.8
Nasimok, Kevin	CA	IAC-15.B6.1.4
Nasser, Seyed Ali	CA	IAC-15.A5.2.8
Nasser, Seyed Ali	CA	IAC-15.A6.IP.21
Nasser, Seyed Ali	CA	IAC-15.A6.IP.42
Nasser, Seyed Ali	CA	IAC-15.E3.IP.3
Nasser, Seyed Ali	CA	IAC-15.E7.IP.6
Nasser, Seyed Ali	CA	IAC-15.E3.4.6
Nassisi, Annamaria	A	IAC-15.A6.8.3
Nasuti, Francesco	CA	IAC-15.B4.2.7
Natan, Benveniste	A	IAC-15.C4.1.10
Natan, Benveniste	A	IAC-15.C4.IP.32
Nathanson, Emil	CA	IAC-15.A5.1.4
Nathanson, Emil	A	IAC-15.D1.6.7
Naumann, Walter	A	IAC-15.B2.1.9
Navarathinam, Nimal	A	IAC-15.E1.2.1
Navarathinam, Nimal	A	IAC-15.B4.6A.11
Navarathinam, Nimal	CA	IAC-15.A6.6.3
NAYAK, PRAKASHA	CA	IAC-15.B4.3.13
Ndiritu, Meshack	A	IAC-15.E5.5.6
NEBULONI, STEFANO	CA	IAC-15.A1.8.8
NEBULONI, STEFANO	CA	IAC-15.A2.4.10
Negri, Barbara	CA	IAC-15.B4.3.1
Nelson, Bron	CA	IAC-15.A6.6.8
Nelson, Joshua	A	IAC-15.D4.1.6
Nemati, Hamidreza	A	IAC-15.C1.8.2
Nemirovskaya, Tatiana	CA	IAC-15.A1.IP.10
Nenarokomov, Aleksey V.	CA	IAC-15.C2.4.4
Nenarokomov, Aleksey V.	A	IAC-15.C2.6.2
Nepomuceno, Abel	A	IAC-15.D2.3.4
Nerchenko, Valentina	CA	IAC-15.A2.4.5
Neri, Gianluca	CA	IAC-15.B3.3.4
Neri, Gianluca	CA	IAC-15.B3.4-B6.5.7
Nerovny, Nikolay	CA	IAC-15.B4.6A.6
Nerovny, Nikolay	CA	IAC-15.E2.4.5
Nesterenko, Sergey Yu.	CA	IAC-15.B4.6B.13
Neufeld, Michael	A	IAC-15.E4.2.2
Newman, Dava	CA	IAC-15.A1.IP.11
Newman, Josh	CA	IAC-15.B4.3.6
Newman, Josh	A	IAC-15.C1.9.1
Ngo-Anh, Thu Jennifer	CA	IAC-15.B3.3.1
Ni, Wei-Tou	CA	IAC-15.A2.1.10
Ni, Yanshuo	A	IAC-15.C1.4.1
Nicosia, Agostino	CA	IAC-15.B1.IP.10
Nie, Jingjing	A	IAC-15.E7.IP.22
Nie, Liping	CA	IAC-15.D4.1.7

Nie, Yongming	A	IAC-15.B2.IP.5
Niedner, Malcolm	CA	IAC-15.D1.6.4
Nield, George	A	IAC-15.D6.1.3
Nielsen, Jens Frederik Dalsgaard	CA	IAC-15.E1.2.8
Niessner, Holger	CA	IAC-15.A6.IP.41
Nieto Illescas, Alberto	CA	IAC-15.D2.4.7
Nightingale, Emily	CA	IAC-15.B4.5.3
Nikilvenkatesh, R	CA	IAC-15.B1.IP.16
Nikitin, Evgenie	CA	IAC-15.B1.IP.28
Nikitin, Valeriy	CA	IAC-15.A2.2.4
Nikitin, Valeriy	CA	IAC-15.A2.4.5
Nikolaev, Igor	CA	IAC-15.A1.5.2
Nikonov, Vasily	A	IAC-15.C1.3.2
Nikonov, Vasily	CA	IAC-15.D4.3.2
Nikzad, Shouleh	CA	IAC-15.B4.2.2
Nilchiani, Roshanak	CA	IAC-15.D1.IP.14
Nilsen, Erik	CA	IAC-15.A3.3A.6
Nimelman, Menachem (Manny)	A	IAC-15.A3.IP.46
Ning, Xin	A	IAC-15.D1.1.10
Ning, Xin	CA	IAC-15.D1.IP.18
Ninio Greenberg, Adi	A	IAC-15.A3.IP.41
Nir, Aharon	A	IAC-15.B1.3.2
Nir, Aharon	CA	IAC-15.B1.3.3
Nirchio, Francesco	CA	IAC-15.B1.IP.3
Nishino, Akihiko	A	IAC-15.B2.3.7
Nissenbaum, Dori	A	IAC-15.D1.6.6
Nistico, Enrico Andrea	CA	IAC-15.A3.3B.2
Niu, Jinchao	CA	IAC-15.A6.3.8
Niu, Kenichi	CA	IAC-15.C4.3.2
Niu, Wei	A	IAC-15.A6.1.9
Niu, Wenlong	A	IAC-15.A7.3.4
Nizenkov, Paul	A	IAC-15.A5.1.4
Nizenkov, Paul	CA	IAC-15.D1.6.7
Noack, Daniel	CA	IAC-15.C1.6.8
Noack, Daniel	CA	IAC-15.C2.9.4
Noci, Giovanni Enrico	A	IAC-15.C4.3.4
Noghianian, Sima	CA	IAC-15.C3.1.3
Noghianian, Sima	CA	IAC-15.C3.2.2
Nogueira, Tiago	CA	IAC-15.D1.4.2
Nohmi, Masahiro	A	IAC-15.B4.3.4
Nojiri, Yuta	CA	IAC-15.D1.4.5
Nomen, Jaime	CA	IAC-15.A6.7.6
Nonaka, Satoshi	CA	IAC-15.D2.4.2
Nonaka, Satoshi	A	IAC-15.D2.5.4
Norman, Narcrisha	A	IAC-15.A3.IP.31
Noroozian, Omid	CA	IAC-15.A7.3.3
Norris, Pat	CA	IAC-15.E1.2.1
Norris, Scott	A	IAC-15.B3.3.10
Nosella, Carole	CA	IAC-15.E5.4.8
Notesco, Gila	CA	IAC-15.B1.4.7
NOUNAGNON, JEANNETTE	A	IAC-15.B2.IP.10
Nov, Valentin	CA	IAC-15.C4.3.3
Novak, Daniel	A	IAC-15.A6.7.2
Novak, Daniel	CA	IAC-15.B6.2.2
Novikov, A.V.	A	IAC-15.E3.IP.12
Novikov, Valery	CA	IAC-15.A2.5.1
Nowakowski, Paweł	CA	IAC-15.D2.7.10
Noyman, Yariv	A	IAC-15.E1.6.5
Noël, Jean-Marc	CA	IAC-15.D3.3.1
Ntzoufras, Sotirios	CA	IAC-15.A5.2.11
Ntzoufras, Sotirios	CA	IAC-15.E5.1.2
Nunes de Oliveira, Elisa Magno	CA	IAC-15.A2.IP.5
Nutal, Nicolas	A	IAC-15.C2.8.7
Nyamweno, Joshua	A	IAC-15.C4.8.9
Náczy, Ferenc	CA	IAC-15.D5.3.7

O

Name	Role	Paper
O'Donovan, Victoria	CA	IAC-15.D1.5.1
O'Malley, Terence	CA	IAC-15.A3.4.10
O'Neill, Stephanie	CA	IAC-15.E5.4.7
O'Sullivan, Sinead	CA	IAC-15.E5.5.6
O'Sullivan, Sinead	A	IAC-15.E5.5.11

O'Toole, Aidan	CA	IAC-15.E6.3.3
Obase, Kimihito	CA	IAC-15.C4.1.8
Obase, Kimihito	CA	IAC-15.C4.3.2
Obeid, Alee	CA	IAC-15.B4.4.8
Oberman, Bernice	CA	IAC-15.A1.4.2
Obertaxer, Günther	CA	IAC-15.B2.3.2
Obiols-Rabasa, Gerard	A	IAC-15.D1.5.5
Obiols-Rabasa, Gerard	A	IAC-15.D1.5.8
Oddi, Guido	CA	IAC-15.A3.2A.8
Oddi, Guido	CA	IAC-15.A3.5.9
Ofek, Eran	CA	IAC-15.B4.2.2
Ofek, Eran	CA	IAC-15.A7.2.1
Ofir, Aviv	A	IAC-15.B4.2.3
Ogasawara, Ko	CA	IAC-15.A5.1.8
Ogawa, Hiroyuki	CA	IAC-15.C4.1.8
Ogawa, Hiroyuki	CA	IAC-15.C4.3.2
Ogawa, Hiroyuki	CA	IAC-15.D2.5.4
Ogawa, Yasuo	CA	IAC-15.D1.5.3
Ogilvie, Andrew	CA	IAC-15.A5.3-B3.6.4
Ogneva, Irina	A	IAC-15.A1.IP.21
Ogongo, Joan	CA	IAC-15.E7.2.3
Ogongo, Joan	CA	IAC-15.A6.IP.49
Ogunmodimu, Olugbenga	CA	IAC-15.A6.IP.21
Ogura, Satoshi	CA	IAC-15.C1.1.8
Oh, David	A	IAC-15.A3.5.2
Oh, Hwa-Suk	A	IAC-15.C1.IP.5
Oh, Hwayoung	CA	IAC-15.C4.IP.21
Oh, Hyun-Ung	CA	IAC-15.C4.IP.33
Oh, Hyun-Ung	CA	IAC-15.C2.5.9
Ohki, Masato	CA	IAC-15.E1.2.9
Ohkuma, Hayato	A	IAC-15.A2.IP.3
Ohkuma, Hayato	A	IAC-15.A2.6.5
Ohmura, Hiroaki	CA	IAC-15.C4.1.8
Okada, Mitsunobu	CA	IAC-15.A6.6.4
Okita, Koichi	CA	IAC-15.C4.1.1
Okninski, Adam	A	IAC-15.D2.2.5
Okninski, Adam	A	IAC-15.A2.5.10
Okninski, Adam	A	IAC-15.D2.7.9
Okninski, Adam	CA	IAC-15.D2.7.10
Okudaira, Osamu	CA	IAC-15.A6.1.8
Olakunle, Oladosu	A	IAC-15.E1.4.8
Olaseeni, Olaposi Adedolapo	CA	IAC-15.E7.2.3
Olaseeni, Olaposi Adedolapo	CA	IAC-15.A6.IP.49
Olateru-Olagbegi, Ololade	CA	IAC-15.E7.2.3
Olateru-Olagbegi, Ololade	CA	IAC-15.A6.IP.49
Olatinwo, Khafayat	A	IAC-15.E3.IP.1
Oliveira, André	CA	IAC-15.B2.1.1
Oliveira, André	CA	IAC-15.A3.2A.8
Oliveira, André	CA	IAC-15.B2.5.7
Oliveira, André	CA	IAC-15.A3.5.9
Oliveira, Monica Elizabeth	A	IAC-15.E3.3.1
Olivieri, Lorenzo	CA	IAC-15.B2.1.5
Olivieri, Lorenzo	A	IAC-15.D3.3.7
Olivieri, Lorenzo	CA	IAC-15.E2.3-YPVF.4.11
Olivieri, Lorenzo	CA	IAC-15.D1.2.7
Olivieri, Lorenzo	A	IAC-15.B4.6B.5
Olivieri, Lorenzo	CA	IAC-15.C2.7.9
Ollongren, Alexander	A	IAC-15.A4.1.6
Ollongren, Alexander	A	IAC-15.A4.1.7
Olsen, John	CA	IAC-15.D4.3.9
Olsen, John	CA	IAC-15.B4.8.10
Olsen, Kevin	A	IAC-15.B1.1.7
Olson, Aaron	A	IAC-15.A3.2B.6
Onibudo, Oluwasegun	A	IAC-15.A2.4.9
ONIBUDO, OLUWASEGUN	A	IAC-15.B1.IP.19
Onishchenko, Ivan	CA	IAC-15.A3.IP.16
Ono, Masahiro	CA	IAC-15.D1.3.11
Onuki, Misuzu	A	IAC-15.E6.1.2
Onuki, Misuzu	A	IAC-15.D6.3.3
Opiela, John	CA	IAC-15.A6.1.7
Opiela, John	CA	IAC-15.A6.2.9
Orenstein, Nick	A	IAC-15.A5.IP.1
Oreshkin, Nikolai	A	IAC-15.D4.1.1
Orikasa, Teruaki	CA	IAC-15.B2.6.7
Orlov, Oleg	A	IAC-15.B3.2.3



Orlov, Oleg	CA	IAC-15.A1.IP.4
Orr, Nathan	CA	IAC-15.B4.4.9
Orr, Nathan	CA	IAC-15.C4.IP.39
Orshan, Orna Marie	A	IAC-15.E1.7.8
Ortega, Cristina	CA	IAC-15.A3.IP.34
Ortega, David	CA	IAC-15.B4.3.10
Ortega, Manuel	CA	IAC-15.E2.3-YPVF.4.6
Ortiz Gómez, Natalia	CA	IAC-15.A6.6.1
Osborne, Barnaby	CA	IAC-15.A2.3.6
Osborne, Jeffrey R.	A	IAC-15.A1.8.5
Ospina, Sylvia	A	IAC-15.E7.3.6
Oswald, Michael	CA	IAC-15.A6.6.5
Othman, Mazlan	CA	IAC-15.E3.2.1
Ou, Dongbin	CA	IAC-15.B3.IP.6
Ou, Dongbin	CA	IAC-15.C2.IP.9
Ou, Dongbin	A	IAC-15.C2.IP.36
Ouellet, Alain	CA	IAC-15.A3.1.1
Oungrinis, Konstantinos-Alketas	CA	IAC-15.A5.2.11
Oungrinis, Konstantinos-Alketas	A	IAC-15.E5.1.2
Ovchinnikov, Mikhail	CA	IAC-15.C1.5.2
Ovchinnikov, Mikhail	A	IAC-15.C1.7.5
Ovsyannikova, Natalia	A	IAC-15.D1.6.9
Owen, William	CA	IAC-15.A3.5.1
Owens, Andrew	CA	IAC-15.A5.2.7
Owens, Andrew	A	IAC-15.D1.3.10
Ozaki, Naoya	CA	IAC-15.C1.1.8
Ozawa, Kohei	A	IAC-15.C4.2.5
Ozawa, Yuichiro	CA	IAC-15.C3.2.1
Ožtir, Krištof	CA	IAC-15.B4.4.9

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Name	Role	Paper
Pable, Shweta	CA	IAC-15.E2.4.10
Pacchi, Dario	CA	IAC-15.E2.3-YPVF.4.1
Paccolat, Christophe	CA	IAC-15.A6.6.2
Padalia, Pinakin	A	IAC-15.B1.IP.4
Padalia, Pinakin	A	IAC-15.B1.IP.5
Paek, Sung Wook	A	IAC-15.A3.IP.33
Paganini, Davide	A	IAC-15.C2.7.9
Page, John	CA	IAC-15.B4.8.10
Pagnozzi, Daniele	A	IAC-15.C1.3.5
Paiano, Salvatore	CA	IAC-15.C2.9.6
Pajmans, Bart	CA	IAC-15.B3.7.7
Paikowsky, Deganit	A	IAC-15.E3.2.6
Paikowsky, Deganit	A	IAC-15.E4.3.2
Paita, Fabrizio	A	IAC-15.C1.5.7
Pakosz, Michal	CA	IAC-15.D2.7.10
Paldor, Nathan	CA	IAC-15.B1.4.1
Palerm, Sandrine	CA	IAC-15.C4.1.4
Palerm Serra, Lluc Guillem	CA	IAC-15.D2.7.8
Paliwal, Nandini	CA	IAC-15.E7.1.3
Paliya, Akash	CA	IAC-15.C2.6.9
Palkovitz, Neta	A	IAC-15.E7.5.11
Palla, Chiara	A	IAC-15.A6.4.1
Pallaschke, Siegmard	A	IAC-15.D5.2.6
Palma, Giulia	CA	IAC-15.E1.3.12
Palmer, Phil	CA	IAC-15.D4.1.9
Palmer, Phil	CA	IAC-15.C1.7.2
Palmerini, Giovanni B.	CA	IAC-15.B2.3.2
Palmerini, Giovanni B.	A	IAC-15.D3.2.9
Palmerini, Giovanni B.	A	IAC-15.B2.6.8
Palmerini, Giovanni B.	CA	IAC-15.C1.6.5
Paludo, Carla	CA	IAC-15.A2.IP.5
Palumbo, Giuseppe	CA	IAC-15.A4.IP.1
Palumbo, Pasquale	CA	IAC-15.A3.5.4
Pambaguan, Laurent	CA	IAC-15.C2.8.7
Pan, Rui	A	IAC-15.D1.4.8
Pan, Rui	A	IAC-15.D1.6.11
Pandey, Kartikeya	CA	IAC-15.A6.10-YPVF.5.1
Pandey, Siddharth	A	IAC-15.D3.3.3
Panerati, Jacopo	CA	IAC-15.E1.3.8
Panerati, Jacopo	CA	IAC-15.E1.7.11

Pang, Shi-wei	CA	IAC-15.A2.3.7
Panicucci, Paolo	CA	IAC-15.B4.2.7
Pantoja, Andres Felipe	CA	IAC-15.E7.IP.13
Paolozzi, Antonio	CA	IAC-15.A2.1.8
Paolozzi, Antonio	A	IAC-15.C2.2.10
Paolozzi, Antonio	CA	IAC-15.B4.4.8
Paolozzi, Antonio	CA	IAC-15.B2.IP.3
Paolozzi, Antonio	CA	IAC-15.C2.6.5
Paolozzi, Antonio	CA	IAC-15.C2.7.11
Papadopoulos, Evangelos	CA	IAC-15.D1.2.11
Paramasivan, Ganesh	A	IAC-15.C4.5.7
Paraskevas, Iosif S.	CA	IAC-15.D1.2.11
Parazynski, Scott	CA	IAC-15.A1.2.6
Parbat, Sarwesh Narayan	CA	IAC-15.E2.4.8
Pardini, Carmen	A	IAC-15.A6.2.6
Parent, Andree-Anne	A	IAC-15.A1.3.4
Pariante, Meidad	A	IAC-15.D1.IP.1
Pariante, Meidad	CA	IAC-15.A6.6.11
Pariante, Meidad	A	IAC-15.B6.2.7
Pirigini, Cristina	CA	IAC-15.A6.4.5
Paris, Claudio	CA	IAC-15.A2.1.8
Paris, Claudio	CA	IAC-15.C2.2.10
Paris, Claudio	CA	IAC-15.B4.4.8
Paris, Claudio	CA	IAC-15.B2.IP.3
Paris, Claudio	A	IAC-15.C2.6.5
Paris, Claudio	CA	IAC-15.C2.7.11
Paris, Claudio	CA	IAC-15.C2.9.6
Parisi, Marzia	A	IAC-15.A3.5.6
Pariante, Maurizio	CA	IAC-15.C2.2.10
Park, Byeongseob	A	IAC-15.C3.3.2
Park, Chul	CA	IAC-15.C4.6.1
Park, Gisu	CA	IAC-15.C4.9.11
Park, Ji Hyun	CA	IAC-15.E1.5.11
Park, Jung Ho	A	IAC-15.E3.IP.5
Park, Min A	CA	IAC-15.A3.IP.44
Parkes, Steve	A	IAC-15.C1.IP.18
Parkes, Steve	A	IAC-15.B2.5.5
Parmitano, Luca	CA	IAC-15.E6.IP.3
Parness, Aaron	A	IAC-15.A2.3.1
Parness, Aaron	A	IAC-15.A3.IP.37
Parness, Aaron	A	IAC-15.A6.5.1
Parodi, Paola	A	IAC-15.B6.1.6
Parrish, Joe	CA	IAC-15.A3.3A.6
Pasco, Xavier	CA	IAC-15.B1.1.8
Pasenu, Ludwig	A	IAC-15.E5.1.7
Pasenu, Ludwig	A	IAC-15.E5.4.8
Pasko, Vadym	A	IAC-15.D4.3.3
Passarelli, Gianluca	CA	IAC-15.A3.3A.2
Pastor Moreno, Daniel	CA	IAC-15.D2.4.7
Pastore, R.	CA	IAC-15.C2.8.12
Pastorelli, Stefano	CA	IAC-15.D2.3.8
Pastukhova, Svetlana	A	IAC-15.D2.2.4
Pastukhova, Svetlana	CA	IAC-15.D2.IP.9
Patankar, Kunal	CA	IAC-15.A6.1.7
Patankar, Kunal	CA	IAC-15.A6.2.9
Patel, Igal	A	IAC-15.E1.1.2
Patel, Igal	CA	IAC-15.E5.6.1
Patel, Igal	A	IAC-15.E1.7.8
Patel, Igal	CA	IAC-15.E4.3.3
Patel, Shivang	CA	IAC-15.B4.4.7
Paterakis, Iason	CA	IAC-15.E5.1.2
Pathak, Yashwant	CA	IAC-15.A1.IP.19
Pathak, Yashwant	CA	IAC-15.A2.IP.5
Patten, Norah	CA	IAC-15.E1.5.12
Patten, Norah	A	IAC-15.E1.7.3
Patzelt, Aicke	CA	IAC-15.C2.1.1
Pauline, Faure	CA	IAC-15.D1.7.10
Pauly, Kristian	A	IAC-15.D2.3.4
Pavarin, Daniele	CA	IAC-15.C4.IP.47
Pavarin, Daniele	CA	IAC-15.C4.6.3
Pavel, Novikov	CA	IAC-15.A6.4.10
Pavlis, Erricos C.	CA	IAC-15.A2.1.8
Pavone, Rosario	A	IAC-15.B1.5.1
Payson, Dmitry	A	IAC-15.E4.1.2
Payson, Dmitry	CA	IAC-15.E3.1.8

Payson, Dmitry	A	IAC-15.E3.2.9
Paz, Amir	CA	IAC-15.D5.4.1
Pazmandi, Tamas	CA	IAC-15.E1.3.7
Pazmandi, Tamas	CA	IAC-15.A1.5.1
Pazmandi, Tamas	CA	IAC-15.A1.5.2
Pazmandi, Tamas	CA	IAC-15.A1.5.12
Pazmandi, Tamas	CA	IAC-15.D5.3.7
Pearson, Thomas	CA	IAC-15.E1.7.11
Pedersen, Jakob Fromm	CA	IAC-15.C2.2.1
Pedrini, Daniela	CA	IAC-15.C4.IP.41
Pei, Guo	CA	IAC-15.B2.4.9
Peljhan, Marko	CA	IAC-15.B4.4.9
Pellacani, Andrea	CA	IAC-15.A3.3B.1
Pellegrini, Andrea	CA	IAC-15.C2.IP.30
Pellegrini, Rocco C.	A	IAC-15.C4.1.7
Pellegrino, Alice	CA	IAC-15.B4.2.7
Pellegrino, Alice	CA	IAC-15.C2.1.8
Pellegrino, Alice	A	IAC-15.E2.3-YPVF.4.1
Pellon-Bailon, Jose-Luis	CA	IAC-15.A3.4.1
Peng, Chao	A	IAC-15.C1.4.10
Peng, Chao	A	IAC-15.C1.IP.20
PENG, Deyun	A	IAC-15.D1.6.10
Peng, Hao	A	IAC-15.C1.4.2
Peng, Jinlong	A	IAC-15.C2.IP.9
Peng, Xiaodong	CA	IAC-15.B6.2.3
Penson, James	CA	IAC-15.B4.4.10
Perazzo, Federico	A	IAC-15.D5.2.9
Pereira, Mateus Oliveira	CA	IAC-15.B4.1.10
Pereira, Mateus Oliveira	A	IAC-15.B4.7.7
PEREZ GONZALEZ, Jose Alvaro	A	IAC-15.D1.IP.3
Pergola, Pierpaolo	A	IAC-15.D3.1.5
Pergola, Pierpaolo	CA	IAC-15.C4.6.7
Pergola, Pierpaolo	A	IAC-15.C4.6.8
Pergola, Pierpaolo	A	IAC-15.C4.6.9
Pergola, Pierpaolo	A	IAC-15.C4.7-C3.5.4
Pericherla, Ravi Teja Varma	CA	IAC-15.A1.8.10
Perino, Maria Antonietta	CA	IAC-15.A3.3A.10
Perino, Maria Antonietta	A	IAC-15.D3.2.1
Perino, Maria Antonietta	CA	IAC-15.A5.1.8
Peris Marti, Izan	CA	IAC-15.E6.1.7
Peris Marti, Izan	CA	IAC-15.E6.2.10
Peris Marti, Izan	CA	IAC-15.E1.7.11
Perlick, Volker	CA	IAC-15.A2.1.6
Perna, Louis	CA	IAC-15.C4.IP.40
Peron, Roberto	A	IAC-15.A7.2.7
Peron, Roberto	A	IAC-15.A7.2.8
Perondi, Leonel Fernando	CA	IAC-15.D5.1.6
Perondi, Leonel Fernando	CA	IAC-15.E3.3.1
Perondi, Leonel Fernando	CA	IAC-15.A2.6.7
Peroni, Moreno	CA	IAC-15.A6.4.1
Perren, Matthew	CA	IAC-15.D1.1.4
Perrino, Raphael	CA	IAC-15.E3.2.14
Persad, Aaron	A	IAC-15.E1.3.4
Persad, Aaron	A	IAC-15.A2.4.2
Pesce, Vincenzo	CA	IAC-15.A3.3A.12
Peshin, Esti	CA	IAC-15.D5.4.1
Pessana, Mario	CA	IAC-15.C4.IP.47
Pessoa, Luis	CA	IAC-15.B2.1.1
Petelin, Oleg	CA	IAC-15.E2.3-YPVF.4.7
Peter, Nicolas	CA	IAC-15.E3.2.1
Peters, Achim	CA	IAC-15.A2.1.7
Peters, Susanne	A	IAC-15.D1.4.9
Peters, Thomas Vincent	CA	IAC-15.A6.5.9
Peterson, Glenn	CA	IAC-15.A6.2.2
Peterson, Glenn	CA	IAC-15.D4.3.4
Petitot, Stephane	CA	IAC-15.C4.1.4
Petkovic, Mike	CA	IAC-15.A7.1.3
Petrillo, Davide	A	IAC-15.E2.3-YPVF.4.11
Petrov, Oleg	CA	IAC-15.A2.IP.4
Petrucci, Roberto	CA	IAC-15.A6.IP.40
Petukhov, Viacheslav	A	IAC-15.C1.1.5
Petukhov, Viacheslav	CA	IAC-15.A3.IP.4
Pezzato, Mattia	CA	IAC-15.A2.5.7
Peña, Ignacio	CA	IAC-15.E1.2.5
Pfeuffer, Horst	CA	IAC-15.D2.4.8

Pham, Anh Tuan	A	IAC-15.E1.5.6
Phelan, Ronan	CA	IAC-15.E5.4.7
Phinney, Sterl	CA	IAC-15.A7.2.1
Phylippov, Yuriy	CA	IAC-15.A2.2.4
Phylippov, Yuriy	CA	IAC-15.A2.4.5
Piana, Alessandro	CA	IAC-15.B2.5.4
Piattoni, Jacopo	A	IAC-15.A6.IP.43
Piccione, Matteo	CA	IAC-15.C2.1.8
Pichkhadze, Konstantin M.	CA	IAC-15.A3.1.5
Pichon, Thierry	A	IAC-15.D2.6.3
Pierce, Jillianne	A	IAC-15.D4.2.5
Pierce, Jillianne	A	IAC-15.E7.IP.23
Pierce, Jillianne	A	IAC-15.E5.5.10
Piergentili, Fabrizio	CA	IAC-15.A6.1.3
Piergentili, Fabrizio	A	IAC-15.B4.2.7
Piergentili, Fabrizio	A	IAC-15.A6.IP.28
Piergentili, Fabrizio	CA	IAC-15.A6.IP.29
Piergentili, Fabrizio	CA	IAC-15.A6.IP.43
Pieroux, Didier	CA	IAC-15.B4.2.6
Pieters, Lode	CA	IAC-15.B6.3.12
Pietrabissa, Antonio	CA	IAC-15.A3.2A.8
Pietrabissa, Antonio	CA	IAC-15.A3.5.9
Pietras, Markus	A	IAC-15.B6.3.8
Pietropaolo, Andrea	CA	IAC-15.B1.2.2
Pigeon, Carl	CA	IAC-15.E2.3-YPVF.4.7
Pigeon, Carl	A	IAC-15.C4.IP.39
Pignataro, Salvatore	A	IAC-15.B3.3.4
Pignataro, Salvatore	CA	IAC-15.B3.3.5
Pignataro, Salvatore	A	IAC-15.B3.4-B6.5.7
Pignataro, Salvatore	CA	IAC-15.E6.IP.3
Pilchen, Guy	A	IAC-15.D2.1.4
Pinaya, Benjamin	CA	IAC-15.B2.IP.9
Piness, Jessica	A	IAC-15.C2.6.3
Ping, Fu	CA	IAC-15.C4.1.13
Ping, Fu	CA	IAC-15.C4.IP.4
Ping, Fu	A	IAC-15.C4.5.3
Ping, Fu	CA	IAC-15.C4.5.9
Ping, Sun	CA	IAC-15.C1.8.9
Ping, Tang	CA	IAC-15.A5.IP.5
Pinsky, Lawrence	A	IAC-15.A1.5.3
Pinto Gomes, Vera	A	IAC-15.E3.IP.15
PINUMALLA, KIRAN	CA	IAC-15.C4.2.12
Piperno, Osvaldo	CA	IAC-15.B1.5.9
Piras, Annamaria	A	IAC-15.B3.4-B6.5.8
Pirat, Camille	A	IAC-15.A6.6.2
Pirtle, Zachary	CA	IAC-15.E1.8.1
Piscitelli, Filomena	A	IAC-15.C2.9.12
Pisculli, Andrea	CA	IAC-15.C2.3.6
Pisseloup, Aurelien	CA	IAC-15.A3.1.3
Pittori, Carlotta	CA	IAC-15.B4.2.10
Pittori, Carlotta	CA	IAC-15.B4.3.1
Pizzigalli, Luisa	CA	IAC-15.A1.IP.8
Piña López, Yair Israel	CA	IAC-15.C2.6.6
Pla-García, Jorge	A	IAC-15.A3.IP.12
Plathottam, Siby Jose	CA	IAC-15.C3.1.3
Platt, Don	CA	IAC-15.B4.6B.10
Plattard, Serge	A	IAC-15.E3.2.1
Plattard, Serge	A	IAC-15.E3.4.11
Plattard, Serge	A	IAC-15.A6.8.5
Pletser, Vladimir	A	IAC-15.A2.3.2
Plevne, Olcay	CA	IAC-15.A1.IP.18
Podhajsky, Sandra	CA	IAC-15.A1.7.10
Podwalski, Ken	CA	IAC-15.B3.1.4
Pohflepp, Sascha	A	IAC-15.E1.9.7
Polansky, John	CA	IAC-15.B4.1.2
Polansky, John	CA	IAC-15.B2.4.7
Polezhaev, Denis	A	IAC-15.A2.2.2
Poli, Matteo	A	IAC-15.A2.5.7
Polk, Jay	CA	IAC-15.A3.5.2
Pollak, Keren	CA	IAC-15.B1.6.5
Polli, Aldo	CA	IAC-15.C4.3.4
Pollini, Alexandre	CA	IAC-15.A6.6.3
Pomerantz, William	A	IAC-15.B3.2.4
Pomerantz, William	A	IAC-15.A2.3.9
Pomerantz, William	A	IAC-15.B4.5.2



Pomerantz, William	A	IAC-15.D2.7.1
Pomeroy, Caleb	CA	IAC-15.E3.IP.18
Ponomarev, Sergey	A	IAC-15.A1.IP.5
Pons Lorente, Arnau	A	IAC-15.C4.IP.22
Pons Lorente, Arnau	CA	IAC-15.E1.7.11
Pont, Gabriel	A	IAC-15.A3.3B.5
Pontani, Mauro	A	IAC-15.C1.4.1
Pontijas Fuentes, Irene	CA	IAC-15.A6.4.5
Pontijas Fuentes, Irene	CA	IAC-15.D2.6.2
Pontuschka, Mauricio	CA	IAC-15.C2.3.7
Poole, Trey	A	IAC-15.D3.1.6
Popov, Alexander	CA	IAC-15.E2.4.5
Popova, Anfisa	CA	IAC-15.A1.IP.10
Popova, Rada	A	IAC-15.E7.IP.2
Porta, Roberto	CA	IAC-15.A3.4.1
Portelli, Claudio	CA	IAC-15.A6.IP.28
Porter, Jamie	CA	IAC-15.A1.5.10
Portigliotti, Stefano	CA	IAC-15.A3.3A.2
Potapov, Alexander	A	IAC-15.D5.3.9
Potchter, Danielle	CA	IAC-15.E1.7.11
Potter, Michael	A	IAC-15.E6.1.10
Potter, Michael	A	IAC-15.D4.2.8
Potter, Michael	A	IAC-15.E7.2.13
POUFFARY, Benoit	CA	IAC-15.D2.1.4
Poveda, Jorge	CA	IAC-15.E1.2.5
Povrozin, Anatoliy	A	IAC-15.A3.IP.16
Powell, Andy	CA	IAC-15.E1.2.1
Prabhune, Bhagyashree	CA	IAC-15.E2.3-YPVF.4.9
Prabhune, Bhagyashree	CA	IAC-15.E2.4.9
Prabhune, Bhagyashree	CA	IAC-15.C2.9.8
Prabhuraj, D K	CA	IAC-15.B5.2.5
Prabhuraj, D K	A	IAC-15.B1.6.6
Pradels, Gregory	CA	IAC-15.D1.3.1
Prado, Antonio	A	IAC-15.C1.4.9
Prakash, Arunima	CA	IAC-15.B4.8.4
Pranajaya, Freddy	CA	IAC-15.B4.4.9
PRASAD, DURGA	CA	IAC-15.B4.3.13
Prasad, Sandhya	CA	IAC-15.D5.3.2
Prasad, Varsha	A	IAC-15.D5.3.2
Prasad Nagendra, Narayan	CA	IAC-15.E5.2.3
Pratt, Lucas	CA	IAC-15.B4.5.3
Praz, Christophe	CA	IAC-15.B1.2.6
Prazot, Shemi	CA	IAC-15.A3.IP.3
Preijde, Jasper	A	IAC-15.C4.6.4
Pretto, Isacco	CA	IAC-15.D1.IP.12
Preud'homme, Frank	A	IAC-15.D2.6.5
Preud'homme, Frank	CA	IAC-15.B4.7.2
Price, Colin	A	IAC-15.B1.IP.35
Priel, Aviv	A	IAC-15.E2.1.6
Prieto, Ines	A	IAC-15.E5.6.3
Prieto Mateo, Manuel	CA	IAC-15.D1.7.3
Prieto-Llanos, Tomas	CA	IAC-15.A3.3B.11
Primakov, Pavel	CA	IAC-15.A3.1.5
Prisk, G. Kim	CA	IAC-15.A1.3.5
Probst, Alena	A	IAC-15.D4.1.2
Probst, Alena	A	IAC-15.A3.IP.15
Probst, Alena	CA	IAC-15.A3.IP.30
Probst, Alena	CA	IAC-15.C1.7.4
Procopio, Dorico	CA	IAC-15.C1.5.10
Pronenko, Vira	A	IAC-15.B4.2.11
Provin, Laurie	CA	IAC-15.E5.5.1
Przybiski, Olaf	CA	IAC-15.A6.3.6
Przyslak, Marta	CA	IAC-15.B2.IP.9
Pugliese, Antonio	A	IAC-15.D1.IP.14
Puimege, Koen	CA	IAC-15.D2.6.5
Punch, Orla	CA	IAC-15.E1.7.11
Puntambekar, Priyank	CA	IAC-15.B2.3.9
Puntambekar, Priyank	CA	IAC-15.B4.8.4
Punzi, Claudio	CA	IAC-15.A3.3A.12
Puppe, Frank	CA	IAC-15.B6.2.5
Purohit, Priyank	CA	IAC-15.A1.8.5
PUTEAUX, Maxime	A	IAC-15.E6.1.4
Putzer, Philipp	CA	IAC-15.D1.2.3
Pyle, Michelle	A	IAC-15.B1.IP.14
Pálfalvi, József K.	CA	IAC-15.A1.5.1

Püttmann, Norbert	A	IAC-15.C4.4.1
Pützfeld, Dirk	CA	IAC-15.A2.1.6

Q

Name	Role	Paper
Qedar, Ran	A	IAC-15.D1.1.3
Qi, Feng	A	IAC-15.D2.IP.5
Qi, Feng	A	IAC-15.C4.7-C3.5.8
Qi, Lei	CA	IAC-15.C3.4.6
Qi, Wenwen	CA	IAC-15.B1.IP.27
Qi, ZHONG	CA	IAC-15.C2.7.4
Qian, Bin	CA	IAC-15.C3.4.6
Qian, Zhang	A	IAC-15.C2.IP.51
Qiang, Sheng	A	IAC-15.A2.4.7
Qiao, Qiao	A	IAC-15.D1.1.7
Qiao, Qiao	CA	IAC-15.C1.4.6
Qiao, Qiao	CA	IAC-15.C1.5.9
QIAO, XINQUAN	A	IAC-15.C4.IP.28
Qin, Fei	CA	IAC-15.C4.9.3
Qin, Haibo	CA	IAC-15.A1.4.4
Qin, Tong	A	IAC-15.A2.2.10
Qin, Tong	CA	IAC-15.B4.5.5
Qin, XiaoWei	CA	IAC-15.D2.IP.11
Qin, Yajie	CA	IAC-15.C3.4.6
Qin, Yi-Xian	A	IAC-15.A1.3.6
Qin, Youcai	A	IAC-15.A1.7.9
Qing, Hengxin	CA	IAC-15.C2.7.7
Qingjun, Zhang	CA	IAC-15.C1.IP.8
Qiu, Baogui	A	IAC-15.A3.2C.5
Qiu, Baogui	A	IAC-15.A3.2C.6
Qiu, Dongyang	A	IAC-15.B6.3.13
Qiu, Jia-wen	A	IAC-15.A2.3.7
Qiu, Jia-wen	CA	IAC-15.A3.IP.22
Qiu, Jia-wen	CA	IAC-15.C2.7.4
Qiu, Jia-wen	CA	IAC-15.A3.2C.10
Qiu, Jia-wen	CA	IAC-15.D1.6.12
Qiu, Xin	CA	IAC-15.C4.6.6
QU, Li-peng	CA	IAC-15.C2.IP.23
Qu, Lina	A	IAC-15.A1.3.2
Qu, Qiang	CA	IAC-15.A2.2.9
Qu, Xin	A	IAC-15.A6.6.10
Quantius, Dominik	A	IAC-15.D1.3.5
Quaranta, Alessandro	CA	IAC-15.A5.3-B3.6.3
Quaranta, Vincenzo	A	IAC-15.C2.1.10
Quaranta, Vincenzo	A	IAC-15.C2.IP.33
Quero, Jose M.	CA	IAC-15.B4.7.9
Quillien, Kevin	A	IAC-15.B4.2.6

R

Name	Role	Paper
Rabaioli, Massimo	CA	IAC-15.D6.3.7
Rabinovich, Leonid	CA	IAC-15.C4.3.3
Rachkin, Dmitry	CA	IAC-15.E2.4.5
Rachuy, Carsten	CA	IAC-15.A3.IP.15
Radice, Gianmarco	CA	IAC-15.B4.1.6
Radice, Gianmarco	CA	IAC-15.C2.3.9
Radice, Gianmarco	CA	IAC-15.C1.5.4
Radice, Gianmarco	CA	IAC-15.D1.4.7
Radtke, Jonas	A	IAC-15.A6.2.1
Radtke, Jonas	CA	IAC-15.A6.8.4
Radu, Silvana	CA	IAC-15.C2.6.4
Radu, Silvana	A	IAC-15.B4.6B.3
Radu, Silvana	CA	IAC-15.C3.4.3
Raghavan, Jeenu	CA	IAC-15.D1.2.12
Ragupathy, Ajay Prasad	A	IAC-15.E2.1.2
Ragupathy, Ajay Prasad	A	IAC-15.E2.3-YPVF.4.5
Ragupathy, Ajay Prasad	A	IAC-15.E3.3.10
Ragupathy, Ajay Prasad	A	IAC-15.D4.4.6
Ragupathy, Ajay Prasad	A	IAC-15.C2.8.9
Ragupathy, Ajay Prasad	CA	IAC-15.E2.4.6
Rai, Amelia	CA	IAC-15.B3.3.5

Raj, Baldev	CA	IAC-15.E3.2.3
Raj, Pavan	CA	IAC-15.E2.3-YPVF.4.6
Raj, Raunak	A	IAC-15.A6.10-YPVF.5.1
Raj, Raunak	CA	IAC-15.A3.IP.39
Rajput, Rajendrasing	CA	IAC-15.A5.2.8
Rajput, Rajendrasing	CA	IAC-15.E3.IP.3
Rajput, Rajendrasing Uttamsing	A	IAC-15.B4.6B.13
Ramalingam, Pandiyan	CA	IAC-15.C1.7.6
Ramanan, R V	CA	IAC-15.C1.1.9
Ramirez, Sandra	A	IAC-15.A1.6.2
Ramos, Brian	A	IAC-15.A1.IP.15
Ramos, Brian	A	IAC-15.D4.4.7
Ramraj, Santhanakrishnan	CA	IAC-15.B3.IP.1
Randolph, Thomas	CA	IAC-15.A3.5.2
Ranera, Franck	CA	IAC-15.B1.1.8
Rao, Mukund Kadursrinivas	CA	IAC-15.E3.1.9
Rao, Mukund Kadursrinivas	A	IAC-15.E3.2.3
Rao, Mukund Kadursrinivas	A	IAC-15.E3.3.4
Rao, Mukund Kadursrinivas	A	IAC-15.B5.2.5
Rao, Mukund Kadursrinivas	CA	IAC-15.B1.6.6
Rao, Muralidhara	CA	IAC-15.C2.IP.40
Rao, Muralidhara	CA	IAC-15.E2.4.7
RAO, V LAKSHMANA	CA	IAC-15.C2.9.11
Raposo, Ana	A	IAC-15.E3.IP.8
Rarata, Grzegorz	A	IAC-15.C4.3.9
Rarata, Grzegorz	CA	IAC-15.D2.7.10
Rarata, Grzegorz	A	IAC-15.C4.8.4
Rasappu, Nicksan	CA	IAC-15.E2.3-YPVF.4.6
Rasel, Ernst Maria	CA	IAC-15.A2.1.4
Rast, Malte	CA	IAC-15.E6.3.6
Rastelli, Davide	CA	IAC-15.E1.3.8
Rastelli, Davide	CA	IAC-15.A6.IP.30
Rastelli, Davide	A	IAC-15.A6.IP.31
Rastelli, Davide	A	IAC-15.E6.3.9
Ratcliffe, Andrew	CA	IAC-15.A6.6.3
Ratheesh, Akash	A	IAC-15.B2.3.9
Rathi, Umang	CA	IAC-15.E5.2.3
Rathnasabapathy, Minoo	CA	IAC-15.E5.6.4
Rathod, Abhijit	CA	IAC-15.E2.3-YPVF.4.9
Rathod, Abhijit	CA	IAC-15.E2.4.9
Rathod, Abhijit	CA	IAC-15.C2.9.8
Ratti, John	CA	IAC-15.A6.5.4
Raval, Siddharth	CA	IAC-15.A6.IP.42
Ravandoor, Karthik	A	IAC-15.A6.IP.37
Raviprasad, Srikanth	CA	IAC-15.A5.2.10
Raviprasad, Srikanth	CA	IAC-15.A3.IP.1
Ray, Vishal	A	IAC-15.B2.1.8
Rayman, Marc D.	A	IAC-15.A3.4.4
Real, Marco	CA	IAC-15.A6.IP.40
REBOLLAR, BLANCA	CA	IAC-15.E1.6.7
REBUFFAT, Denis	A	IAC-15.A3.3A.5
Rebuffat, Denis	CA	IAC-15.A3.IP.28
Rebuffat, Denis	CA	IAC-15.A3.3B.11
Recanatesi, Luca	CA	IAC-15.C2.IP.29
Reddy, Ashok	CA	IAC-15.B1.6.6
Reddy, Rachana	CA	IAC-15.E5.2.3
Reed, Cheryl	CA	IAC-15.E3.2.1
Reed, Cheryl L.B.	CA	IAC-15.A3.4.8
Reeve, James	CA	IAC-15.B4.6B.10
Reeves, Stephen	CA	IAC-15.D3.3.5
Regan, Amanda	CA	IAC-15.B1.1.4
Regnet, Martin	CA	IAC-15.C2.9.2
Reh, Kim	CA	IAC-15.A3.5.8
Reid, Ewan	A	IAC-15.E1.4.1
Reiley, Keith	CA	IAC-15.A5.1.10
Reill, Josef	CA	IAC-15.A3.4.6
Reiner, David	CA	IAC-15.C4.3.3
Reinert, Jessica	A	IAC-15.E1.4.2
Reinhardt, Bianca	A	IAC-15.A3.IP.10
Reinhardt, Bianca	CA	IAC-15.A3.3B.8
Reinhart, Richard	A	IAC-15.B2.5.6
Reiter, Thomas	A	IAC-15.B3.1.2
Reitz, Guenther	CA	IAC-15.A1.5.2
Rekh, Shobha	A	IAC-15.B4.1.3

Rekhate, Vaibhav	CA	IAC-15.B4.3.12
Rekhate, Vaibhav	CA	IAC-15.E2.4.10
Rekleitis, Giorgos	CA	IAC-15.D1.2.11
Rembala, Richard	A	IAC-15.A6.5.4
Rembala, Richard	A	IAC-15.A5.3-B3.6.2
Ren, Chong	CA	IAC-15.A2.2.9
Ren, Weijia	CA	IAC-15.C2.5.8
REN, Zhibin	CA	IAC-15.C2.IP.4
Ren, Zhongjing	A	IAC-15.C1.5.9
Rendina, Matteo	CA	IAC-15.D2.5.2
Rendleman, James	A	IAC-15.E7.4.3
Renno, Nilton	CA	IAC-15.A3.3B.3
Renotte, Etienne	CA	IAC-15.B4.2.5
Resta, Pier Domenico	CA	IAC-15.D2.1.4
Retat, Ingo	CA	IAC-15.A6.IP.22
Retat, Ingo	CA	IAC-15.A6.6.3
Reulke, Ralf	A	IAC-15.B1.3.4
Reulke, Ralf	CA	IAC-15.B1.3.6
Reuter, James	CA	IAC-15.A5.1.2
Reveles, Juan	CA	IAC-15.C2.2.7
Revelin, Bruno	CA	IAC-15.A6.2.5
Rey, Daniel	CA	IAC-15.E1.5.3
Rey, Ignacio	CA	IAC-15.E2.3-YPVF.4.2
Rey, Ignacio	CA	IAC-15.B3.7.9
Rhyme, Setshedi	A	IAC-15.E1.8.7
Ricciardi, Sara Cristin	CA	IAC-15.A4.IP.1
Richard, Muriel	CA	IAC-15.A6.6.2
RICHARD, Yves	CA	IAC-15.B2.4.1
RICHARD, Yves	CA	IAC-15.B2.4.5
RICHARD, Yves	CA	IAC-15.B2.6.4
RICHARD, Yves	CA	IAC-15.B2.6.5
RICHARD, Yves	CA	IAC-15.B4.6A.12
RICHARD, Yves	CA	IAC-15.B4.6B.9
RICHIELLO, CAMILLO	CA	IAC-15.D2.6.10
Richter, Martin	CA	IAC-15.A6.IP.12
Ridzuan, Norul Zakaria	CA	IAC-15.D6.3.1
Riede, Wolfgang	CA	IAC-15.A6.IP.3
Rienow, Andreas	A	IAC-15.E1.2.2
Rievers, Benny	CA	IAC-15.A2.1.3
Rievers, Benny	CA	IAC-15.A2.1.6
Riffle, Zachary	A	IAC-15.A4.IP.1
Riffle, Zachary	A	IAC-15.E3.IP.16
Rigby, Graham	CA	IAC-15.B5.1.8
Rigo, Olivier	CA	IAC-15.C2.8.7
Riley, David	A	IAC-15.A6.4.5
Rinaldo, Rita	CA	IAC-15.B5.1.1
Rinalducci, Antonio	CA	IAC-15.A6.4.2
Rinner, Anita	A	IAC-15.E7.7-B3.8.5
Rios, Joseph	CA	IAC-15.D1.4.1
Rippetoe, John	A	IAC-15.A3.IP.24
Ris, Dmitry	CA	IAC-15.D1.4.2
Risi, Ben	CA	IAC-15.B4.3.6
Rispoli, Francesco	CA	IAC-15.B2.3.6
Ritter, Zully	A	IAC-15.A1.3.7
Rittweger, Jörn	CA	IAC-15.A1.2.1
Riva, Stefano	CA	IAC-15.C3.3.5
Rivera, Cayetano	CA	IAC-15.A3.5.9
Rivero, Moises	A	IAC-15.A6.2.9
Riviere, Christophe	CA	IAC-15.A1.2.5
Rivolta, Aureliano	CA	IAC-15.D2.3.3
Rivolta, Aureliano	A	IAC-15.E3.4.6
Rizzi, Francesco	CA	IAC-15.A3.IP.19
Rmili, Badr	CA	IAC-15.D2.4.8
Roberts, Christopher	CA	IAC-15.E3.5-E7.6.6
Roberts, Mark	CA	IAC-15.C1.7.2
Roberts, Peter	CA	IAC-15.B4.8.11
Robinson, Jana	A	IAC-15.E7.4.1
Robinson, Jendai	A	IAC-15.C2.8.10
Robinson, Julie A.	A	IAC-15.B3.3.5
Robinson, Kimberly	CA	IAC-15.D2.8-A5.4.2
Robison, Kathryn	A	IAC-15.E1.5.5
Rocco, Jose	CA	IAC-15.C4.IP.56
Rocha Rodrigues de Oliveira, Marta	CA	IAC-15.E1.7.11
Rochel, Sandrine	A	IAC-15.D5.3.6
Rochus, Pierre	CA	IAC-15.C2.8.7



Rockah, Anat	A	IAC-15.B5.1.4
Rockberger, Daniel	A	IAC-15.B2.5.2
Rockberger, Daniel	CA	IAC-15.B4.6B.1
Rockberger, Daniel	CA	IAC-15.B4.6B.10
Rococo, Jean-François	CA	IAC-15.D4.4.7
Rodenas Bosque, Antonio	CA	IAC-15.E1.7.11
Rodin, Evgeniy	A	IAC-15.A3.IP42
Rodič, Tomaž	CA	IAC-15.B4.4.9
Rodrigues, Manuel	CA	IAC-15.A2.1.1
Rodrigues, Manuel	CA	IAC-15.A2.1.2
Rodrigues, Pedro	A	IAC-15.B2.1.1
Rodrigues, Pedro	A	IAC-15.A3.2A.8
Rodrigues, Pedro	A	IAC-15.B2.5.7
Rodrigues, Pedro	CA	IAC-15.A3.5.9
Rodrigues, Filippa	CA	IAC-15.B2.3.2
Rodriguez Amaya, Laura	CA	IAC-15.E1.2.4
Rodriguez Halcón, Manuel	CA	IAC-15.B4.7.9
Rodriguez Pupo, Eya Caridad	CA	IAC-15.A1.6.2
Rodriguez Reina, Andres	CA	IAC-15.D2.4.7
Rodriguez Pacheco, Javier	CA	IAC-15.D1.7.3
Rodríguez López, Nuria	CA	IAC-15.A6.IP23
Rodríguez López, Nuria	CA	IAC-15.A6.5.8
Rodríguez Mitre, Alberto	CA	IAC-15.D2.7.9
Roedel, Henning	CA	IAC-15.E6.1.5
Roelof, Edmond	CA	IAC-15.D4.4.1
Roemer, Stephan	A	IAC-15.D1.4.6
Roemer, Stephan	CA	IAC-15.B4.7.5
Roeser, Hans-Peter	CA	IAC-15.A6.3.6
Rogers, Gabe	CA	IAC-15.A3.5.1
Rojas Quesada, Mariela	CA	IAC-15.A2.6.3
Rokicka, Karolina	CA	IAC-15.D2.7.10
Roldugin, Dmitriy	CA	IAC-15.C1.5.2
Roman-Gonzalez, Avid	A	IAC-15.B4.1.7
Roman-Gonzalez, Avid	A	IAC-15.A5.2.9
Roman-Gonzalez, Avid	CA	IAC-15.E4.2.7
Romano, Patrick	CA	IAC-15.B2.4.5
Romano, Patrick	CA	IAC-15.B2.6.4
Romano, Patrick	CA	IAC-15.B4.6B.9
Romanov, Alexander	A	IAC-15.B5.2.6
Romanov, Alexey	CA	IAC-15.B5.2.6
Rombert, Oliver	CA	IAC-15.D1.3.5
Romero Martin, Juan Manuel	A	IAC-15.C1.2.9
Romero Martin, Juan Manuel	CA	IAC-15.A6.6.1
Ron, Shelly	CA	IAC-15.E1.2.7
Rondao, Duarte	CA	IAC-15.C1.IP12
Rong, Yi	CA	IAC-15.A2.2.10
Rosales Alpizar, Luis Carlos	A	IAC-15.B4.1.8
Rosen, Paul	CA	IAC-15.B1.1.9
Rosenband, Valery	CA	IAC-15.B3.7.4
Rosenbaum, Alex	CA	IAC-15.E2.3-YPVF.4.2
Rosenbaum, Alex	CA	IAC-15.B3.7.9
Rosenfeld, Daniel	A	IAC-15.B1.5.12
Rosenthal, Eran	A	IAC-15.C1.IP14
Rossetti, Luca	CA	IAC-15.A6.4.3
Rossi, Alessandro	CA	IAC-15.A6.1.3
Rossi, Maurizio	CA	IAC-15.B1.3.5
Rossi, Stefano	CA	IAC-15.B4.4.5
Rossi, Stefano	A	IAC-15.C1.IP11
Rossi, Stefano	A	IAC-15.E2.4.4
Rossodivita, Angela	CA	IAC-15.C4.6.8
Rosta, Roland	CA	IAC-15.D3.2.3
Rotenstreich, Ygal	A	IAC-15.A1.4.2
Roth, Jacob	CA	IAC-15.A2.6.2
Roth, Maria	A	IAC-15.E1.7.12
Roth, Niels	CA	IAC-15.B4.3.6
Rothacher, Markus	CA	IAC-15.B4.4.5
Rothery, David	CA	IAC-15.E1.IP.6
Rothmund, Christophe	A	IAC-15.E4.2.5
Rotteveel, Jeroen	CA	IAC-15.D1.7.9
Rougier, Alessandro	CA	IAC-15.B6.3.4
Rozenbaum, Dani	CA	IAC-15.B1.IP11
RUAN, Ningjuan	CA	IAC-15.C3.2.6
Rubanenko, Lior	A	IAC-15.A3.2A.5
Rubanovich, Maxim	A	IAC-15.C4.4.3
Rubanovych, Maxim	CA	IAC-15.C4.4.4

Rubanovych, Maxim	CA	IAC-15.C4.4.4
Rubini, Giulio	CA	IAC-15.C2.8.12
Ruchenkov, Vasily	CA	IAC-15.B2.1.4
Rudolph, Andreas	A	IAC-15.B6.2.10
Rudolph, Martin	CA	IAC-15.A3.IP.8
Rudy, Richard	CA	IAC-15.A6.1.4
Ruel, Stephane	CA	IAC-15.E1.4.1
Ruess, Florian	CA	IAC-15.C2.IP41
Rufini, Sergio	CA	IAC-15.D5.1.5
Rufolo, Giuseppe Carmine	CA	IAC-15.D2.6.10
Rugescu, Dragos	A	IAC-15.B4.3.11
Ruilin, Wu	A	IAC-15.A1.4.5
Rumpf, Clemens	A	IAC-15.B5.1.9
Rusanov, Vasily	A	IAC-15.A3.4.2
Russell, Ray	CA	IAC-15.A6.1.4
Russo, Enrico	CA	IAC-15.B5.2.2
Russo, Gennaro	CA	IAC-15.A6.6.11
Russo, Pedro	A	IAC-15.E1.IP.3
Russu, Andres	A	IAC-15.A1.5.4
Russu, Andres	A	IAC-15.D1.7.3
RUY, Ghislain	A	IAC-15.B4.8.2
RUY, Ghislain	A	IAC-15.E5.5.4
Ryan, Shannon	CA	IAC-15.E3.IP.3
Rybaczky, Agnieszka	CA	IAC-15.B1.6.2
Rybus, Tomasz	CA	IAC-15.A3.IP.34
Rysin, Kirill	CA	IAC-15.A2.IP.1
Ryszawa, Ewelina	A	IAC-15.B4.6A.2
Ryzenko, Jakub	A	IAC-15.B5.2.4
Ryzhakova, Larisa	CA	IAC-15.D5.3.9
Röser, Hans-Peter	CA	IAC-15.A2.5.4
Rühl, Steffen	CA	IAC-15.D3.1.3

S

Name	Role	Paper
S, Sandya	CA	IAC-15.B4.3.13
S, Sandya	CA	IAC-15.A6.IP25
S, Sandya	CA	IAC-15.C2.IP.40
S, Sandya	CA	IAC-15.C3.4.2
S, Sandya	CA	IAC-15.E2.4.7
S, Sandya	CA	IAC-15.E2.4.8
Saab, Bechara	CA	IAC-15.A5.2.9
Saadeh, Tamer	CA	IAC-15.A5.3-B3.6.3
Sabath, Dieter	CA	IAC-15.B3.4-B6.5.3
Sabatini, Marco	CA	IAC-15.C2.2.5
Sabatini, Marco	CA	IAC-15.C1.3.5
Sabatini, Marco	CA	IAC-15.C2.3.6
Sabatini, Marco	CA	IAC-15.D3.2.9
Sabatini, Marco	CA	IAC-15.B2.6.8
Sabatini, Marco	A	IAC-15.C1.6.5
Sabatini, Paolo	CA	IAC-15.B4.2.10
Sabatini, Paolo	CA	IAC-15.B4.3.1
Sabbatinelli, Beatrice	CA	IAC-15.D1.2.11
Sabirov, Rustam	CA	IAC-15.A2.IP.1
Saburov, Peter	CA	IAC-15.B3.5.2
Sabzalian, Mehdi	CA	IAC-15.B4.7.6
Sacco, Patrizia	A	IAC-15.B1.IP.34
Sacco, Patrizia	CA	IAC-15.B1.5.9
Saccoccia, Giorgio	CA	IAC-15.D4.1.12
Saccoccia, Giorgio	CA	IAC-15.E3.2.1
Sachasiri, Ravit	A	IAC-15.A1.5.4
Sadeh, Eligar	A	IAC-15.E6.IP.7
Sagi, Elad	A	IAC-15.B1.2.2
Sagi, Elad	A	IAC-15.E1.2.7
Sagi, Elad	CA	IAC-15.B1.6.5
Sagiv, Ilan	A	IAC-15.B4.2.2
Sagiv, Ilan	CA	IAC-15.E4.2.1
Sagiv, Ilan	CA	IAC-15.B4.5.6
Sagle, Laura	CA	IAC-15.C2.8.10
Sagouo Minko, Flavien	A	IAC-15.A7.1.6
Saharov, Valeriy	CA	IAC-15.A6.2.3
Sahay, Divyanshu	A	IAC-15.B4.3.13
Sahay, Divyanshu	CA	IAC-15.E2.4.7
Saikia, Arnav	A	IAC-15.A1.8.10

Saikia, Sarag	CA	IAC-15.A5.2.6
Sainadh, Chamarthi	A	IAC-15.C4.2.12
Saito, Eri	CA	IAC-15.C3.2.4
Saito, Takashi	CA	IAC-15.C3.2.1
Sakai, Wataru	CA	IAC-15.C4.3.2
Sakthiharjith, M	CA	IAC-15.B1.IP.16
Sakurai, Akira	CA	IAC-15.A6.1.8
Sakurai, Masato	A	IAC-15.B3.7.5
Sakurai, Ryu	CA	IAC-15.E5.4.6
Sakva, Nikolay	A	IAC-15.A6.2.10
Salado, Alejandro	CA	IAC-15.D1.IP.14
Salama, Ofer	CA	IAC-15.C1.2.3
Salama, Ofer	A	IAC-15.B1.IP.31
Salatti, Mario	CA	IAC-15.A3.4.2
Salcedo, Corinne	CA	IAC-15.D1.3.1
Saleh, Joseph Homer	A	IAC-15.D1.3.8
Salgado, Henrique	CA	IAC-15.B2.1.1
Salmin, Vadim	CA	IAC-15.B4.2.12
Salmon, Thierry	CA	IAC-15.A6.6.3
Salotti, Jean Marc	CA	IAC-15.A5.2.3
Salotti, Jean-Marc	A	IAC-15.A5.2.4
Salt, Dave	CA	IAC-15.A6.4.7
Salvatore, Vito	CA	IAC-15.C2.1.10
Salvatore, Vito	CA	IAC-15.C4.3.6
Salvatore, Vito	CA	IAC-15.C2.IP.33
Salvatore, Vito	A	IAC-15.C4.4.12
Salvi, Samuele	CA	IAC-15.A2.3.3
Salvi, Samuele	CA	IAC-15.A6.IP.26
Salvoldi, Manuel	CA	IAC-15.C1.IP.12
Salvoldi, Manuel	CA	IAC-15.C1.8.6
Salzano, Carmine	A	IAC-15.C2.1.11
Salzgeber, Frank	A	IAC-15.E6.3.8
Salzgeber, Frank M	A	IAC-15.B5.2.1
Sambhus, Nikhil	CA	IAC-15.B4.3.12
Sambhus, Nikhil	A	IAC-15.E2.4.3
Sampson, Robin	CA	IAC-15.C3.4.7
Samson, Victoria	CA	IAC-15.E3.1.5
Samson, Victoria	A	IAC-15.E3.4.2
Samuel, A.	CA	IAC-15.B5.1.4
Sanchez, Luis	CA	IAC-15.E1.2.5
Sanchez, Sebastian	CA	IAC-15.D1.7.3
Sanchez Ayala, Lizbeth	CA	IAC-15.A1.6.2
Sanchez Cuartielles, Joan Pau	A	IAC-15.C1.1.10
Sanchez Cuartielles, Joan Pau	CA	IAC-15.C1.2.8
Sanchez Cuartielles, Joan Pau	A	IAC-15.C1.4.5
Sanchez Ortiz, Noelia	A	IAC-15.A6.7.6
Sanchez Prieto, Sebastian	CA	IAC-15.D1.1.2
Sanchez-Ramirez, Carlos	CA	IAC-15.E2.3-YPVF.4.6
Sandeep, BGSK	CA	IAC-15.B2.3.8
SANJEEVIRAJA, THANGAVEL	A	IAC-15.B3.IP.1
Sano, Hiroaki	CA	IAC-15.E1.2.9
Sansone, Francesco	CA	IAC-15.D3.3.7
Sansone, Francesco	CA	IAC-15.E2.3-YPVF.4.11
Sansone, Francesco	A	IAC-15.D1.2.7
Sansone, Francesco	CA	IAC-15.B4.6B.5
Sansone, Francesco	CA	IAC-15.C2.7.9
Santachiara, Davide	A	IAC-15.C2.IP.29
Santachiara, Davide	A	IAC-15.C2.IP.30
Santana, Saymon	CA	IAC-15.C1.3.7
Santoni, Fabio	CA	IAC-15.A6.1.3
Santoni, Fabio	CA	IAC-15.B4.2.7
Santoni, Fabio	CA	IAC-15.A6.IP.28
Santoni, Fabio	CA	IAC-15.A6.IP.29
Santoro, Francesco	CA	IAC-15.D2.4.5
Santoro, Francesco	A	IAC-15.D6.3.1
Santoro, Francesco	A	IAC-15.D6.3.7
Santos, Denilson Paulo Souza dos	A	IAC-15.C1.6.3
Santos, Marlise	CA	IAC-15.A2.IP.5
Saotome, Osamu	CA	IAC-15.C2.3.7
Saprykin, Oleg	A	IAC-15.B3.2.6
Saprykin, Oleg	CA	IAC-15.A5.3-B3.6.9
Sarae, Wataru	CA	IAC-15.D2.4.2
Saraf, Shailendhar	CA	IAC-15.B4.4.6
Sardesai, Nikita	CA	IAC-15.E3.IP.10
Sardesai, Nikita	CA	IAC-15.E1.5.3

Sarli, Bruno	CA	IAC-15.C1.1.8
Sarli, Bruno	A	IAC-15.E4.2.7
Sarli, Bruno	A	IAC-15.E5.6.4
Sarris, Emmanuel	CA	IAC-15.D4.1.9
Sarti, Francesco	CA	IAC-15.B1.IP.18
Sarty, Gordon	CA	IAC-15.A1.IP.7
Sarusi, Gabby	A	IAC-15.B1.3.8
Saruwatari, Hideki	CA	IAC-15.A2.6.5
Sasaki, Kenji	CA	IAC-15.C3.2.1
Sasaki, Takahiro	A	IAC-15.C1.6.10
Sasaki, Takuro	CA	IAC-15.C3.2.1
Satak, Neha	CA	IAC-15.D3.2.7
Sato, Masaki	CA	IAC-15.C4.1.8
Sato, Masaki	CA	IAC-15.C4.3.2
Sato, Masaki	CA	IAC-15.C4.5.1
Sato, Masao	CA	IAC-15.C3.2.1
Sato, Naoki	CA	IAC-15.A5.1.1
Sato, Tetsuya	CA	IAC-15.D2.4.2
Satoh, Masaki	CA	IAC-15.B2.6.7
Satoh, Takehiko	CA	IAC-15.A3.3A.3
Saunders, Chris	A	IAC-15.B4.2.1
Saunders, Chris	CA	IAC-15.E6.3.4
Saunders, Chris	CA	IAC-15.B4.7.5
Sause, Markus	CA	IAC-15.C2.9.2
Sauvageau, Don	A	IAC-15.D2.1.3
Savin, Sergey	CA	IAC-15.A2.IP.4
Savini, Giorgio	A	IAC-15.B4.2.1
Savini, Giorgio	CA	IAC-15.E6.3.4
Savinkina, Alexandra	CA	IAC-15.A1.4.3
Savio, Giuseppe	CA	IAC-15.A4.IP.1
Savoia, Matteo	CA	IAC-15.A3.2B.2
Sayson, Jojo	A	IAC-15.A1.2.6
Sazonova, Tatiana	CA	IAC-15.D2.8-A5.4.6
Scatteia, Luigi	CA	IAC-15.E3.3.2
Scatteia, Luigi	A	IAC-15.E3.IP.4
Scavuzzi, Juliana	A	IAC-15.E7.IP.1
Scavuzzi, Juliana	A	IAC-15.E3.5-E7.6.6
Schaffer, Mark	A	IAC-15.A5.2.5
Schaffer, Mark	A	IAC-15.A5.2.12
Schallhorn, Paul	CA	IAC-15.A2.6.2
Scharnagl, Julian	CA	IAC-15.D1.4.2
Scharringhausen, Marco	CA	IAC-15.A2.5.6
Schattel, Anne	CA	IAC-15.A3.IP.15
Schaub, Hanspeter	CA	IAC-15.A6.7.3
Scheeres, Daniel	A	IAC-15.A3.4.7
Scheeres, Daniel	CA	IAC-15.C1.7.1
Scheper, Marc	A	IAC-15.A6.IP.33
Scheper, Marc	CA	IAC-15.A6.IP.36
Scheper, Marc	CA	IAC-15.A6.6.6
Schervan, Thomas A.	CA	IAC-15.D3.1.3
Schildknecht, Thomas	CA	IAC-15.A6.1.2
Schildknecht, Thomas	CA	IAC-15.A6.9.9
Schildknecht, Thomas	CA	IAC-15.A6.9.10
Schill, Kerstin	CA	IAC-15.A3.IP.15
Schill, Kerstin	CA	IAC-15.C1.7.4
Schilling, Klaus	CA	IAC-15.B4.3.5
Schilling, Klaus	CA	IAC-15.D1.4.2
Schilling, Klaus	A	IAC-15.E3.5-E7.6.2
Schindler, Trent	CA	IAC-15.E3.2.11
Schkolnik, Vladimir	CA	IAC-15.A2.1.4
Schkolnik, Vladimir	A	IAC-15.A2.1.7
Schlacht, Irene Lia	A	IAC-15.A1.IP.8
Schlacht, Irene Lia	CA	IAC-15.A3.IP.43
Schlacht, Irene Lia	A	IAC-15.E5.2.2
Schlagman, Zohar	CA	IAC-15.C4.1.10
Schlegel, Hans	CA	IAC-15.A1.3.5
Schliesser, Liron	CA	IAC-15.C1.2.2
Schmidt, Gregory K.	A	IAC-15.A3.1.2
Schmidt, Hauke	CA	IAC-15.D3.1.3
Schmidt, Katrin	CA	IAC-15.C4.5.2
Schmidt, Marco	CA	IAC-15.B4.3.5
Schmidt, Marco	A	IAC-15.B1.4.3
Schmidt, Stefan	A	IAC-15.E6.1.9
Schoenenberg, Andreas	CA	IAC-15.B5.1.1
Schoenmaker, Annelie	A	IAC-15.B3.2.8



Schoemaker, Annelie	A	IAC-15.D2.7.8
Schroeder, Jan Walter	A	IAC-15.B2.1.3
Schroeven-Deceuninck, Hilde	CA	IAC-15.A3.3A.5
Schroeven-Deceuninck, Hilde	CA	IAC-15.A3.IP.28
Schrogl, Kai-Uwe	CA	IAC-15.E3.1.3
Schrogl, Kai-Uwe	CA	IAC-15.E7.4.1
Schröder, Silvio	CA	IAC-15.A3.IP.10
Schröder, Silvio	A	IAC-15.A3.3B.8
Schröder, Martin	CA	IAC-15.A5.3-B3.6.6
Schuehle, Udo	CA	IAC-15.A3.IP.36
Schullerer, Günther	CA	IAC-15.C2.9.2
Schultz, Johannes	CA	IAC-15.E1.2.2
Schultze, Alexander	A	IAC-15.E2.2.4
Schupikov, Michael	CA	IAC-15.D2.IP.9
Schuster, Anja	A	IAC-15.A3.IP.14
Schwarting, Verena	CA	IAC-15.A3.IP.15
Schwarzenbarth, Klaus	CA	IAC-15.B4.8.2
Schwendner, Jakob	CA	IAC-15.A5.3-B3.6.6
Schwinning, Marius	A	IAC-15.E2.3-YPVF.4.3
Schäfer, Frank	CA	IAC-15.A3.IP.29
Schönherr, Tony	CA	IAC-15.C4.IP.52
Schönhuber, Michael	CA	IAC-15.B2.3.2
Schürmanns, Rainer	A	IAC-15.D2.2.1
Scimemi, Sam	A	IAC-15.B3.1.5
Sciortino, Giacomo Primo	A	IAC-15.E3.3.9
Scire, Gioacchino	CA	IAC-15.B4.2.7
Scire, Gioacchino	CA	IAC-15.A6.IP.28
Scire, Gioacchino	A	IAC-15.A6.IP.29
Scott, Benjamin	A	IAC-15.E7.IP.18
Scoubeau, Mehdi	CA	IAC-15.E5.4.8
Searcy, Brittani	A	IAC-15.C4.4.5
Sebastian, Baby	A	IAC-15.D1.IP.5
SEBASTIEN, BIANCHI	A	IAC-15.D2.5.5
SEBASTIEN, BIANCHI	A	IAC-15.D2.5.9
Sebastien, Rouquette	CA	IAC-15.A2.3.2
Seidel, Stephan	A	IAC-15.A2.1.4
Seidel, Stephan	CA	IAC-15.A2.5.6
Seiichi, Shimizu	CA	IAC-15.C2.3.3
Seitzer, Patrick	CA	IAC-15.A6.1.3
Sekhula, Phetole	A	IAC-15.E7.4.8
Sekigawa, Chisato	CA	IAC-15.B4.6A.7
Sekigawa, Chisato	A	IAC-15.C1.9.7
Sela, Alejandro	CA	IAC-15.B6.3.12
Selezneva, Irina	CA	IAC-15.A3.IP.17
Selezneva, Irina	CA	IAC-15.D1.4.10
Selg, Fabian	CA	IAC-15.E1.2.2
Selig, Hanns	A	IAC-15.A2.1.3
Selig, Hanns	CA	IAC-15.A2.5.5
Selinas, Paris	A	IAC-15.E1.9.10
Sellamuthu, Harishkumar	A	IAC-15.C1.4.11
Sellmaier, Florian	A	IAC-15.B2.5.12
Selmo, Antonio	CA	IAC-15.C4.IP.47
Selvan Nambi, Subash Chandran	CA	IAC-15.B1.2.5
Selvan Nambi, Subash Chandran	CA	IAC-15.C2.IP.34
Semenov, Vadim	CA	IAC-15.C4.1.2
Semenov, Yury	CA	IAC-15.A1.2.7
Semionov, Semion	CA	IAC-15.E1.7.11
Sen Jaiswal, Rajasri	A	IAC-15.B1.IP.16
Sen Jaiswal, Rajasri	A	IAC-15.B2.7.6
Senchenkov, Alexander	A	IAC-15.A2.4.4
Senchenkov, Alexander	A	IAC-15.A2.5.1
Senick, Paul	CA	IAC-15.C2.9.3
Seo, DooChun	CA	IAC-15.B6.IP.1
Seo, Jeong Ki	CA	IAC-15.C2.IP.24
Seo, Min-guk	CA	IAC-15.D1.IP.15
Sera, Akio	CA	IAC-15.A2.6.5
Sergey, Romanov	CA	IAC-15.A1.7.1
Sergiy, Janko	A	IAC-15.A1.8.9
Serikova, Alla	A	IAC-15.D2.IP.9
Serra, Jean-Jacques	CA	IAC-15.E4.3.5
Serra, Piero Gilberto	CA	IAC-15.A6.IP.40
Serrano, Eduardo	A	IAC-15.A6.IP.39
Servaye, Jean-Sebastien	CA	IAC-15.B4.2.5
Seurig, Roland	CA	IAC-15.A2.6.1
Seweryn, Karol	CA	IAC-15.A3.IP.34

Sgamba, Giuseppe	CA	IAC-15.A6.IP.40
Sgambati, Antonella	CA	IAC-15.C2.6.7
Shafirovich, Evgeny	CA	IAC-15.A3.2B.8
SHAGHAGHI, AZAM	A	IAC-15.E6.3.1
Shah, Kartik	CA	IAC-15.A6.10-YPVF.5.1
Shah, Kartik	CA	IAC-15.E1.3.6
Shah, Kartik	A	IAC-15.A3.IP.39
Shah, Kartik	CA	IAC-15.C4.IP.31
Shah, Kartik	CA	IAC-15.C4.6.11
Shah, Nirav	CA	IAC-15.C1.1.3
Shan, Li	A	IAC-15.A6.3.2
Shan, Minghe	A	IAC-15.A6.5.7
Shan, Wenjie	CA	IAC-15.A3.1.11
Shan, Wenjie	CA	IAC-15.E6.IP.6
Shankar, Puneeth	A	IAC-15.B1.IP.2
Shaowei, Zhang	A	IAC-15.B1.IP.26
Shapira, Aviv	A	IAC-15.A3.IP.3
Shar, Mansoor	A	IAC-15.D4.3.12
Sharanowski, Barbara	CA	IAC-15.A1.IP.20
Sharanowski, Barbara	CA	IAC-15.D1.3.4
Sharanowski, Barbara	CA	IAC-15.A1.6.4
Sharf, Inna	CA	IAC-15.A6.5.6
Sharma, Priyanka	A	IAC-15.B1.6.3
Sharma, Ram Krishan	CA	IAC-15.C1.4.11
Sharma, Tushar	CA	IAC-15.B4.8.4
Sharma Priyadarshini, Maitreyee	CA	IAC-15.A5.2.10
Sharma Priyadarshini, Maitreyee	CA	IAC-15.A3.IP.1
Sharpe, Carla	A	IAC-15.E3.3.7
Sharpe, Carla	A	IAC-15.E3.IP.6
Sharpe, Carla	A	IAC-15.E1.8.2
Shashurin, Alexey	CA	IAC-15.C4.4.7
Shatrov, Yakov	CA	IAC-15.A6.IP.15
Shavit, Nadav	CA	IAC-15.B1.3.3
Shaw, Niamh	CA	IAC-15.E1.7.11
Shaw, Niamh	A	IAC-15.E5.4.7
Shcherbina, Maxim	CA	IAC-15.C3.1.6
SHE, Wenxue	CA	IAC-15.D2.4.4
Sheehan, J.P.	CA	IAC-15.C3.2.3
Sheehan, Michael	A	IAC-15.E3.2.8
Sheese, Patrick	CA	IAC-15.B1.1.7
Sheik, Shah Nawaz	CA	IAC-15.E2.4.7
Shelton, Stephanie	A	IAC-15.E1.3.12
Shen, Feifei	CA	IAC-15.A7.3.4
Shen, Jingsong	CA	IAC-15.D1.6.10
Shengyong, Hao	CA	IAC-15.B2.7.5
Shenkman, Boris	A	IAC-15.A1.IP.10
Shenyang, Li	CA	IAC-15.B2.4.8
Sher, Ifat	CA	IAC-15.A1.4.2
Sheriff, Abigail	CA	IAC-15.D4.4.7
Sherwood, Brent	A	IAC-15.A7.1.2
Sherwood, Brent	A	IAC-15.A3.5.8
Shestakova, Ksenia	A	IAC-15.E7.2.11
Shi, Chunsen	A	IAC-15.A6.IP.2
SHI, Linan	A	IAC-15.C2.IP.4
Shi, Pingyan	CA	IAC-15.B2.8-YPVF.3.1
Shi, Pingyan	CA	IAC-15.B2.8-YPVF.3.2
Shi, Sihan	A	IAC-15.B4.2.4
Shi, Xiaobo	CA	IAC-15.C4.IP.17
Shi, Xiaobo	CA	IAC-15.C4.IP.20
Shi, Xiaobo	CA	IAC-15.C4.IP.24
Shi, Yong	CA	IAC-15.E3.3.5
Shi, Yue	CA	IAC-15.B1.IP.27
Shields, Madi	CA	IAC-15.E5.5.11
Shigueva, Tatiana	CA	IAC-15.A1.2.7
Shimada, Toru	CA	IAC-15.C4.2.3
Shimada, Toru	CA	IAC-15.C4.2.5
Shimizu, Keisuke	A	IAC-15.E3.3.5
Shimizu, Makiko	A	IAC-15.E7.4.12
Shimizu, Tatsuo	CA	IAC-15.D5.3.5
Shimomura, Takashi	CA	IAC-15.C1.6.10
Shimose, Shigeru	A	IAC-15.C2.5.1
Shimoyama, Hajime	CA	IAC-15.E5.4.6
Shin, Yoon Sub	CA	IAC-15.C2.IP.24
Shiomi, Kei	CA	IAC-15.B1.3.9

Shirasawa, Yoji	CA	IAC-15.C3.3.6
Shirin, Vladimir	CA	IAC-15.C4.IP.19
Shirobokov, Maksim	CA	IAC-15.C1.7.5
Shiroyama, Hideaki	CA	IAC-15.E3.1.9
Shiryayev, Alexander	CA	IAC-15.C1.4.8
Shishko, Robert	CA	IAC-15.D2.8-A5.4.4
Shittu, Adegoke	CA	IAC-15.E2.1.9
Shivakumar, Gautam	CA	IAC-15.C4.8.7
Shlomo, Amir	CA	IAC-15.D5.4.1
Shlomovich, Baruch	CA	IAC-15.B1.IP.8
Shmatov, Gennady	CA	IAC-15.A1.5.2
Shmoelof, Zohar	CA	IAC-15.B1.3.3
Shojaee, Shila	CA	IAC-15.A6.IP.21
Shornikov, Andrey	CA	IAC-15.C1.3.4
Shortt, Brian	CA	IAC-15.A7.1.5
Shoshany, Maxim	CA	IAC-15.B1.IP.17
Shoshany, Maxim	A	IAC-15.B1.5.11
Shotwell, Robert	CA	IAC-15.A3.3A.6
Shoufang, Chen	CA	IAC-15.C4.1.13
Shouming, SUN	A	IAC-15.B2.3.12
Shuai, Liu	CA	IAC-15.C2.IP.15
Shuch, H. Paul	A	IAC-15.A4.2.2
Shurshakov, Vyacheslav	CA	IAC-15.A1.5.2
Shuvalova, Darya	CA	IAC-15.A2.2.3
Shynkarenko, Olexiy	CA	IAC-15.C4.2.8
Shynkarenko, Olexiy	A	IAC-15.C4.IP.5
Shynkarenko, Olexiy	CA	IAC-15.C4.IP.53
Siamwala, Jamila	A	IAC-15.A1.2.4
SIDI AHMED, BENDOUKHA	A	IAC-15.B4.8.9
Sidlo, Katarzyna	CA	IAC-15.B1.6.2
Sieg, Detlef	CA	IAC-15.A6.4.7
Siegl, Martin	A	IAC-15.C4.5.2
Siemes, Christian	CA	IAC-15.B1.1.4
Signorile, Stefano	CA	IAC-15.B1.2.2
Signorile, Stefano	CA	IAC-15.B1.6.5
Silha, Jiri	CA	IAC-15.A6.1.2
Sills, Liam	CA	IAC-15.B4.4.10
Silva-Martinez, Jackelynne	A	IAC-15.E5.1.6
Silveira Fachel, Flávia Nathiely	CA	IAC-15.A1.IP.19
Silvestrin, Pierluigi	A	IAC-15.B1.1.4
Silvestrin, Pierluigi	A	IAC-15.B1.2.10
Simanungkalit, Happy Rumiris	A	IAC-15.E3.IP.13
Simeone, Vittoria	CA	IAC-15.A6.IP.40
Simonov, Mikhail	CA	IAC-15.E3.1.8
Simonov, Mikhail	CA	IAC-15.E3.2.9
Simons, Ed	CA	IAC-15.A6.IP.12
Sinapius, Michael	CA	IAC-15.C2.2.6
Sindelar, Maria	CA	IAC-15.B6.1.4
Sindoni, Giampiero	CA	IAC-15.A2.1.8
Sindoni, Giampiero	CA	IAC-15.B2.IP.3
Sindoni, Giampiero	CA	IAC-15.C2.6.5
Singare, Sumit	CA	IAC-15.E2.4.9
Singh, Abhishek Kumar	CA	IAC-15.C1.7.11
Singh, Divye	CA	IAC-15.A3.IP.1
Singh, Hemant	A	IAC-15.B1.IP.5
Singh, Hemant	A	IAC-15.B1.IP.13
Singh, Japneet	A	IAC-15.E2.1.1
Singh, Japneet	A	IAC-15.A6.3.10
Singh, Netra	CA	IAC-15.C1.9.3
Singh-Derewa, Chrishma	A	IAC-15.A5.2.10
Singh-Derewa, Chrishma	A	IAC-15.A3.IP.1
Singh-Derewa, Chrishma	CA	IAC-15.B3.9-YPVF.2.1
Singh-Derewa, Chrishma	A	IAC-15.B4.5.10
Singh-Derewa, Chrishma	A	IAC-15.B3.5.8
Sinha, Manoranjan	A	IAC-15.C1.9.3
Sinha, Manoranjan	A	IAC-15.C1.9.11
Sinogas, Pedro	CA	IAC-15.B2.1.1
Sinogas, Pedro	CA	IAC-15.A3.2A.8
Sinogas, Pedro	CA	IAC-15.B2.5.7
Sinogas, Pedro	CA	IAC-15.A3.5.9
Sinyak, Yuriy	CA	IAC-15.A1.7.1
Sisman, Gunperi	CA	IAC-15.B2.IP.9
Sittenfeld, David	CA	IAC-15.E1.8.1
Sivolap, Valeriy	CA	IAC-15.B3.5.7
Skanke, Petter Evju	CA	IAC-15.E1.7.11

Skinner, Mark A.	A	IAC-15.A6.1.4
Slegers, Martinus	CA	IAC-15.E1.7.11
Slenzka, Klaus	CA	IAC-15.A1.7.10
Sloan, John	CA	IAC-15.D6.1.3
Slobodkin, Alexander	A	IAC-15.A1.6.1
Slyunyaev, Mykola M.	A	IAC-15.D2.3.2
Smirnov, Nickolay N.	A	IAC-15.A2.2.4
Smirnov, Nickolay N.	A	IAC-15.A2.4.5
Smith, Bryan	A	IAC-15.A3.1.8
Smith, Bryan	CA	IAC-15.D1.4.3
Smith, Garrett	CA	IAC-15.D6.3.2
Smith, Lesley Jane	A	IAC-15.E7.4.10
Smith, Lesley Jane	CA	IAC-15.E7.7-B3.8.5
Smith, Niall	CA	IAC-15.E5.4.7
Smith, Phil	CA	IAC-15.E3.IP.7
Smith, Roger	CA	IAC-15.B4.2.2
Smith, Russell	CA	IAC-15.A2.3.1
Smith, Sonya	CA	IAC-15.A3.IP.31
Smith, Thomas	CA	IAC-15.B2.8-YPVF.3.4
Smith, Timothy	A	IAC-15.C4.3.5
Smith, Whitney	CA	IAC-15.A1.5.10
Smyth, Mark	CA	IAC-15.E1.3.8
Snelgrove, Kailah	CA	IAC-15.D1.3.8
Snyder, John Steven	CA	IAC-15.A3.5.2
Soares, Tiago	CA	IAC-15.D4.1.11
Soares, Tiago	CA	IAC-15.D1.3.3
Sobczak, Kamil	A	IAC-15.D2.7.10
Sobiecki, Mateusz	CA	IAC-15.B4.6A.2
Sohl, Frank	CA	IAC-15.D3.2.2
Sokhin, Igor G.	CA	IAC-15.B3.5.2
Sokolov, Nikolay	CA	IAC-15.D3.2.2
Sokolov, Nikolay	A	IAC-15.A3.IP.17
Sokolov, Nikolay	CA	IAC-15.D1.4.10
Sokolov, Nikolay	CA	IAC-15.B6.2.4
Sokolov, Oleg A.	A	IAC-15.E4.1.5
Sokolov, Oleg A.	CA	IAC-15.D2.IP.8
Solanki, Sami	CA	IAC-15.A3.IP.36
Solaz, Ruben	CA	IAC-15.B2.3.4
Solbakken, Kristian Buhaug	A	IAC-15.E2.3-YPVF.4.4
Solberg, Lori	A	IAC-15.B5.1.5
Solberg, Lori	A	IAC-15.E5.5.5
Solis Ocampo, Jennifer	CA	IAC-15.A2.6.3
Soliz, Jorge	A	IAC-15.D1.IP.19
Solway, Nick	CA	IAC-15.E1.2.11
Solyga, Malgorzata	CA	IAC-15.C2.7.2
Somanath, S	CA	IAC-15.C2.IP.45
Somanath, Sri S.	CA	IAC-15.C2.1.4
Somanath, Sri S.	CA	IAC-15.C2.1.5
Son, Min	CA	IAC-15.A2.2.4
Son, Min	A	IAC-15.C4.IP.51
Song, Chunlin	CA	IAC-15.C3.1.4
Song, Jian	CA	IAC-15.C1.IP.7
Song, Jian	CA	IAC-15.C1.6.2
Song, Liang	A	IAC-15.C1.IP.15
Song, Zhengyu	A	IAC-15.D2.IP.13
Song, Zhi-bing	CA	IAC-15.C2.4.7
Song, Ziyang	A	IAC-15.D2.IP.11
Songerwala, Abdulhussain	CA	IAC-15.B4.3.12
Songerwala, Abdulhussain	CA	IAC-15.E2.4.10
Soni, Amolika	A	IAC-15.B2.3.3
Soni, Pramod Kumar	CA	IAC-15.C1.7.11
Sonkusare, Rohan	CA	IAC-15.A1.8.10
Sonney, Anatta	A	IAC-15.C1.7.11
Soraghan, John	CA	IAC-15.B4.6B.4
Sorensen, Trevor	A	IAC-15.B6.2.1
Sorge, Marlon	CA	IAC-15.A6.1.7
Sorge, Marlon	CA	IAC-15.A6.2.2
Sorge, Marlon	A	IAC-15.A6.2.8
Sorge, Marlon	CA	IAC-15.A6.2.9
Sorice Genaro, Andreia Fatima	CA	IAC-15.E1.7.11
Sorkhabi, Elburz	CA	IAC-15.E1.7.11
Sorli, Massimo	CA	IAC-15.D2.3.8
Sorokin, Igor V.	A	IAC-15.B3.3.6
Sorrentino, Assunta	CA	IAC-15.C2.IP.33



Sors Raurell, Daniel	CA	IAC-15.D2.4.7
Sors Raurell, Daniel	CA	IAC-15.D2.7.9
Sotudeh, Jordan	CA	IAC-15.E3.2.11
Soualle, Francis	CA	IAC-15.B2.3.2
Souce, Alexander	CA	IAC-15.E7.4.1
Soucek, Alexander	A	IAC-15.E7.4.5
Soumagnac, Maayane	CA	IAC-15.B4.2.2
Soumagnac, Maayane	A	IAC-15.A7.2.1
Sousa, Bruno	CA	IAC-15.A6.4.7
Sousa Ribeiro, Rafael	CA	IAC-15.A6.IP.9
Sousa Ribeiro, Rafael	CA	IAC-15.A6.IP.10
Sousa Silva, Priscilla	A	IAC-15.C1.3.6
Southworth, Richard	CA	IAC-15.A6.4.7
Spangelo, Sara	CA	IAC-15.A3.5.8
Spassova, Simona	A	IAC-15.E7.1.7
Spatola, Antonino	CA	IAC-15.B1.IP.10
Spiro, François	A	IAC-15.A3.1.2
Spiller, Dario	CA	IAC-15.C1.5.10
Spinetti, Andrea	CA	IAC-15.A6.IP.28
Spores, Ronald	CA	IAC-15.C4.1.9
Sposito, Antonio	CA	IAC-15.B5.2.2
Sprinkle, Tara RuthAnn	A	IAC-15.E1.2.6
Sree Vatsava seelan, R	CA	IAC-15.B1.IP.16
Sreedhara Panicker, Somanath	CA	IAC-15.C2.IP.25
Srikanth, Motamarri	A	IAC-15.C1.3.10
Srinivas, Abhishek	CA	IAC-15.A3.IP.15
Srinivasan, Raghuram	CA	IAC-15.E2.4.6
Srivastava, Priyanka	CA	IAC-15.A5.2.10
Srivastava, Priyanka	CA	IAC-15.B3.9-YPVF.2.1
Srivastava, Priyanka	CA	IAC-15.B3.5.8
St-Amour, Amélie	CA	IAC-15.B1.2.4
Stamminger, Andreas	CA	IAC-15.A2.1.4
Stander, Tinus	CA	IAC-15.A7.1.6
Stanford, Brian	A	IAC-15.E7.1.11
Staples, Rob	CA	IAC-15.B4.6A.11
Starein, Marcel	CA	IAC-15.C1.IP.11
Starein, Marcel	CA	IAC-15.E2.4.4
Starinova, Olga	A	IAC-15.C1.1.7
Starinova, Olga	A	IAC-15.C1.3.4
Steer, Cassandra	A	IAC-15.E7.2.4
Steeves, Geoff	CA	IAC-15.E1.7.3
Steeves, Geoffrey	CA	IAC-15.E1.4.1
Stefanescu, Raluca M.	CA	IAC-15.A3.IP.34
Stefanescu, Raluca M.	CA	IAC-15.A6.5.8
Steimle, Christian	A	IAC-15.B4.5.8
Steinacher, Armin	CA	IAC-15.D2.5.10
Steinberg, Alan	CA	IAC-15.E1.9.6
Stelmakh, Olga S.	A	IAC-15.E1.8.5
Stelmakh, Olga S.	A	IAC-15.A6.8.8
Stelmakh, Olga S.	A	IAC-15.E7.7-B3.8.6
Stern, Avinoam	CA	IAC-15.A3.IP.3
Stesina, Fabrizio	A	IAC-15.A6.10-YPVF.5.3
Stesina, Fabrizio	CA	IAC-15.A2.6.8
Stesina, Fabrizio	CA	IAC-15.B4.6B.8
Stesina, Fabrizio	A	IAC-15.D1.6.5
Stesina, Fabrizio	CA	IAC-15.D1.7.7
Stettner, Armin	CA	IAC-15.A2.6.1
Steuer, Casey	CA	IAC-15.A7.2.6
Stevens, John	CA	IAC-15.D1.6.1
Stevenson, Thomas	CA	IAC-15.A7.3.3
Stewart, David	CA	IAC-15.A1.IP.20
Stewart, David	CA	IAC-15.A1.6.4
Steyn, Douw	A	IAC-15.B4.6B.6
Steyn, Willem	A	IAC-15.B4.6A.1
Steyn, Willem	CA	IAC-15.A6.6.3
Steyn, Willem (Herman)	CA	IAC-15.B4.6B.6
Stich, Steve	CA	IAC-15.A5.1.2
Stich, Steve	CA	IAC-15.A5.1.6
Stirling, Leia	CA	IAC-15.A5.3-B3.6.5
STOIA-DJESKA, Marius	CA	IAC-15.C4.IP.36
Stoica, Adrian-Mihail	CA	IAC-15.B4.6B.3
Stoica, Adrian-Mihail	A	IAC-15.C1.9.5
Stoll, Enrico	CA	IAC-15.A6.2.1
Stoll, Enrico	CA	IAC-15.A6.IP.22

Stoll, Enrico	CA	IAC-15.A6.9.5
Stoll, Enrico	CA	IAC-15.A6.8.4
Stone, Edward C.	CA	IAC-15.D4.4.2
Stone, Jerry	A	IAC-15.A5.1.5
Stotler, Charles	A	IAC-15.E7.1.5
Stott, Chris	CA	IAC-15.E6.1.10
Strain, Andrew	A	IAC-15.C3.4.7
Strange, Nathan	CA	IAC-15.D4.4.3
Strappaveccia, Sandro	CA	IAC-15.A6.IP.40
Strashinskiy, Valentin	A	IAC-15.E1.7.9
Stratigentas, Dimitrios	A	IAC-15.E2.7.3
Stratilatov, Nikolai	CA	IAC-15.B5.2.6
Straubel, Marco	CA	IAC-15.C2.1.6
Straubel, Marco	CA	IAC-15.C2.2.4
Straus, Ulrich	CA	IAC-15.B2.1.3
Streng, Joachim H.	CA	IAC-15.E2.3-YPVF.4.2
Streng, Joachim H.	CA	IAC-15.B3.7.9
Strieder, Cristiano	CA	IAC-15.B4.3.8
Strippoli, Luigi	CA	IAC-15.A3.3B.1
Strong, Kimberly	CA	IAC-15.B1.1.7
Struck, James	A	IAC-15.E5.IP.2
Strádi, Andrea	A	IAC-15.A1.5.1
Stubbe, Peter	A	IAC-15.E7.2.9
Stuffer, Timo	CA	IAC-15.A1.IP.2
Stuffer, Timo	CA	IAC-15.B4.7.5
Stupl, Jan	CA	IAC-15.A1.6.5
Stupl, Jan	A	IAC-15.A6.6.8
Stupl, Jan	CA	IAC-15.B4.8.12
Styger, Erich	CA	IAC-15.B4.4.5
Su, Chengyi	A	IAC-15.C4.9.12
SU, Jinyuan	CA	IAC-15.E3.1.6
SU, Jinyuan	A	IAC-15.E7.3.3
SU, Jinyuan	A	IAC-15.E3.4.5
Su, Miao	A	IAC-15.D5.2.10
Suatoni, Matteo	CA	IAC-15.D1.2.11
Suatoni, Matteo	CA	IAC-15.A3.3B.11
Subbotin, Stanislav	A	IAC-15.A2.2.1
Subramani, Prasanth	CA	IAC-15.B2.3.8
Sudakov, Vladimir	A	IAC-15.C4.1.2
Sudakov, Vladimir	A	IAC-15.E4.2.4
Suess, Ruediger	A	IAC-15.D5.2.7
Sugimori, Daizo	CA	IAC-15.D2.4.2
Sugimoto, Yoshihide	CA	IAC-15.C1.1.8
Sule, Suki Dauda	A	IAC-15.E4.3.1
Sullivan, Patrick	CA	IAC-15.B3.7.3
Summerer, Leopold	CA	IAC-15.C3.1.2
Summerer, Leopold	CA	IAC-15.B1.2.6
Sun, Chong	CA	IAC-15.C1.IP.2
Sun, Fang	CA	IAC-15.A1.5.6
Sun, Fengju	CA	IAC-15.D2.IP.12
SUN, Ji	A	IAC-15.B4.2.4
Sun, Ji-peng	CA	IAC-15.C2.6.12
Sun, Kongqian	A	IAC-15.C4.IP.25
Sun, Liang	A	IAC-15.A6.IP.11
Sun, Liang	A	IAC-15.C1.6.4
Sun, Qiao	A	IAC-15.A1.5.8
Sun, Qingxiao	A	IAC-15.C3.IP.6
Sun, Qingxiao	CA	IAC-15.C3.IP.7
Sun, Rong-Yu	A	IAC-15.A6.IP.19
Sun, Rong-Yu	CA	IAC-15.A6.IP.50
Sun, Shijun	CA	IAC-15.B1.4.6
Sun, Wei	A	IAC-15.B1.5.9
Sun, Xiangyu	CA	IAC-15.C2.4.6
Sun, Xiaosong	CA	IAC-15.B1.IP.23
Sun, Xingliang	CA	IAC-15.E2.2.2
Sun, Xingliang	CA	IAC-15.C2.IP.39
Sun, Zezhou	CA	IAC-15.A3.2A.3
Surdo, Leonardo	CA	IAC-15.A2.6.6
Surmacz, Pawel	CA	IAC-15.D2.7.10
Suto, Hiroshi	CA	IAC-15.B1.3.9
Sutton, Jeffrey	CA	IAC-15.A1.IP.14
Sutton, Jeffrey	CA	IAC-15.E1.5.1
Suzuki, Kazuto	CA	IAC-15.E3.2.1
Stoll, Enrico	CA	IAC-15.D2.7.4
Suzuki, Shigehiro	CA	IAC-15.B4.5.4

Svoboda, Jan	CA	IAC-15.E6.2.6
Sweeney, Paul	CA	IAC-15.B4.6A.9
Sweeting, Martin	CA	IAC-15.B4.4.10
Sweeting, Martin	CA	IAC-15.B4.6A.11
Sweeting, Martin	CA	IAC-15.D1.5.1
Sweeting, Sir Martin	A	IAC-15.E3.5-E7.6.1
Swinney, Rob	CA	IAC-15.A1.6.7
Sychev, Vladimir	A	IAC-15.A1.8.2
Sychkov, Vladislav	A	IAC-15.A5.3-B3.6.9
Sylak-Glassaman, Emily	CA	IAC-15.D4.2.2
Sylak-Glassaman, Emily	A	IAC-15.E3.2.13
Sylvestre, Bruno	CA	IAC-15.E1.4.1
Szabó, Julianna	CA	IAC-15.A1.5.1
Szajnarfarber, Zoe	CA	IAC-15.E6.3.10
Szajnarfarber, Zoe	CA	IAC-15.D3.4.2
Szajnarfarber, Zoe	CA	IAC-15.D3.4.6
Szajnarfarber, Zoe	CA	IAC-15.E1.9.8
Szanto, Peter	CA	IAC-15.A1.5.2
Szasz, Bianca	A	IAC-15.B4.2.9
Szegedi, Péter	CA	IAC-15.D5.3.7
Szeile, Aliz	A	IAC-15.B2.8-YPVF.3.3
Sznejer, Gabriel	A	IAC-15.C2.2.8
Söllner, Gerd	CA	IAC-15.B3.4-B6.5.3

T

Name	Role	Paper
T, Jayachandran	CA	IAC-15.C2.1.5
T, Jayachandran	CA	IAC-15.C2.IP.25
T N, Bidul	CA	IAC-15.C1.9.11
T S, Rani	CA	IAC-15.D2.IP.15
Taaseh, Nevo	A	IAC-15.A6.6.11
Taaseh, Nevo	CA	IAC-15.B6.2.7
Tagliapietra, Fabio	A	IAC-15.B6.1.5
Tahk, Min-jea	CA	IAC-15.D1.IP.15
Tahk, Min-jea	CA	IAC-15.C1.5.8
Tai, Hu	CA	IAC-15.D5.2.8
Taillebot, Virginie	CA	IAC-15.A5.3-B3.6.6
Taing, Stefan	CA	IAC-15.B2.1.1
Taiti, Alessio	CA	IAC-15.B1.3.5
Takada, Satoshi	CA	IAC-15.C4.1.8
Takada, Satoshi	CA	IAC-15.C4.3.2
Takada, Satoshi	CA	IAC-15.C4.5.1
Takahara, Osamu	A	IAC-15.C2.3.3
Takahashi, Masato	CA	IAC-15.E1.2.9
Takahashi, Masato	CA	IAC-15.C2.3.3
Takahashi, Ryo	CA	IAC-15.E5.4.6
Takahashi, Tohru	A	IAC-15.E1.2.9
Takarada, Naoki	A	IAC-15.E3.3.5
Takaura, Naoki	A	IAC-15.C3.3.6
Takaya-Umehara, Yuri	A	IAC-15.E7.2.7
TAMIR, RAZ	CA	IAC-15.B2.5.2
TAMIR, RAZ	CA	IAC-15.B4.6B.10
Tan, Tian	CA	IAC-15.C1.8.7
Tan, Yonghua	CA	IAC-15.C4.IP.4
Tan, Yonghua	CA	IAC-15.C4.5.4
Tan, Yonghua	CA	IAC-15.C4.5.9
Tanaka, Atomu	A	IAC-15.D5.3.1
Tanaka, Makoto	CA	IAC-15.A6.3.5
Tanaka, Naohiro	CA	IAC-15.C3.2.1
Tanaka, Tetsuo	CA	IAC-15.B3.1.3
Tanaka, Yuri	A	IAC-15.E5.4.6
Tang, Geshi	A	IAC-15.B4.2.4
Tang, Haibin	CA	IAC-15.C4.IP.13
TANG, Ping	CA	IAC-15.A5.3-B3.6.8
Tang, Sailing	CA	IAC-15.A3.1.11
Tanier, Guillaume	A	IAC-15.B6.2.2
Tanimoto, Rebekah	CA	IAC-15.C4.2.10
Taniwaki, Kohei	CA	IAC-15.D1.7.10
Tank, Jens	CA	IAC-15.A1.2.2
Tank, Jens	CA	IAC-15.A1.3.3
Tank, Jens	CA	IAC-15.A1.3.5
Tantardini, Marco	CA	IAC-15.D2.8-A5.4.8
Tao, Jia	CA	IAC-15.B2.IP.8

Tao, Ting	CA	IAC-15.A3.IP.20
Tao, Ting	CA	IAC-15.A3.IP.40
Tao, Ting	CA	IAC-15.A3.IP.47
Tao, Yangzi	A	IAC-15.E7.1.4
Tao, Yangzi	A	IAC-15.E3.2.7
Tao, Yangzi	A	IAC-15.B3.IP.8
Tao, Yangzi	CA	IAC-15.E7.5.4
Tao, Ying	CA	IAC-15.B2.6.10
Tarantini, Vincent	CA	IAC-15.C4.IP.39
Tardivel, Simon	CA	IAC-15.A3.4.7
Tasaki, Kazuyuki	CA	IAC-15.B3.3.5
Tasker, Rose	A	IAC-15.E2.1.10
Tatiana, Agapteva	CA	IAC-15.B3.2.3
Tavani, Marco	A	IAC-15.B4.2.10
Tavani, Marco	CA	IAC-15.B4.3.1
Taverner, Morgan	A	IAC-15.A1.IP.20
Taverner, Morgan	CA	IAC-15.A1.6.4
te Hennepe, Frank	A	IAC-15.B1.2.8
Team, FOKUS	CA	IAC-15.A2.1.7
Team, QUANTUS	CA	IAC-15.A2.1.4
Team, QUANTUS	CA	IAC-15.A2.1.7
Team, QUANTUS	CA	IAC-15.A2.5.6
Tebaldini, Stefano	CA	IAC-15.E5.5.2
Teichmann, Marek	CA	IAC-15.A6.5.6
Tekriwal, Peeyush	CA	IAC-15.B2.3.9
Temidayo Isaiah, Oniosun	A	IAC-15.B2.8-YPVF.3.5
Tempesta, Patrizio	CA	IAC-15.B4.2.10
Tempesta, Patrizio	CA	IAC-15.B1.2.2
Tempesta, Patrizio	CA	IAC-15.B4.3.1
Tene, Noam	A	IAC-15.A3.2C.3
Tenenbaum, Stepan	CA	IAC-15.E2.4.5
TENG, PAN	CA	IAC-15.B1.2.7
Tennyson, Jonathan	A	IAC-15.B4.2.1
Tennyson, Jonathan	CA	IAC-15.E6.3.4
Teofilatto, Paolo	A	IAC-15.B4.4.8
Teofilatto, Paolo	CA	IAC-15.C1.4.1
Teplyakov, Vadim	CA	IAC-15.B2.1.4
Teplyakov, Vadim	CA	IAC-15.B2.6.3
Tepper, Eytan	A	IAC-15.B1.1.10
Tepper, Eytan	A	IAC-15.E7.7-B3.8.4
Terada, Takuma	CA	IAC-15.B4.5.4
Teriaca, Luca	CA	IAC-15.A3.IP.36
Terra, Maisa	A	IAC-15.C1.3.3
Terra, Maisa	CA	IAC-15.C1.3.6
Terrenoire, Philippe	CA	IAC-15.D1.3.1
Teschl, Franz	A	IAC-15.B2.4.6
Tesfaye, Beza	A	IAC-15.E1.9.3
Tesmer, Volker	CA	IAC-15.B1.IP.32
Tessenyi, Marcell	A	IAC-15.B4.2.1
Tessenyi, Marcell	A	IAC-15.E6.3.4
Tessier, Isabelle	CA	IAC-15.D2.5.10
Tester, Bryan	A	IAC-15.E2.3-YPVF.4.10
Tfilin, S.	CA	IAC-15.B5.1.4
Thakurdesai, Shantanu	CA	IAC-15.C3.IP.3
Thakurdesai, Shantanu	CA	IAC-15.C3.4.8
Thangavelu, Madhu	A	IAC-15.A5.1.11
Thangavelu, Madhu	CA	IAC-15.B3.5.5
Thangavelu, Madhu	A	IAC-15.B5.1.10
Thein, Min	CA	IAC-15.A3.IP.4
Thiele, Gerhard	A	IAC-15.D4.2.1
Thies, Manuel	CA	IAC-15.A3.IP.8
This, Nadia	A	IAC-15.B6.3.12
Thomas, Hubertus	CA	IAC-15.A2.6.1
Thomas Jayachandran, Aurthur Vimalachandran	CA	IAC-15.E2.3-YPVF.4.2
Thomas Jayachandran, Aurthur Vimalachandran	CA	IAC-15.B3.7.9
Thompson-King, Sumara	A	IAC-15.A3.1.10
Thompson-King, Sumara	A	IAC-15.B3.2.1
Thompson-King, Sumara	A	IAC-15.E7.7-B3.8.3
Thotumugath, Kannan	CA	IAC-15.B4.3.13
Thotumugath, Kannan	CA	IAC-15.E2.4.8
Thro, Caroline	A	IAC-15.E7.1.9
Tian, Jia	CA	IAC-15.D1.4.11
Tian, Jia	A	IAC-15.B2.8-YPVF.3.1



Tian, Jia	A	IAC-15.B2.8-YPVF.3.2
Tibert, Gunnar	CA	IAC-15.C2.3.4
Ticker, Ronald	A	IAC-15.A5.1.6
Tidhar, Gil	CA	IAC-15.B1.2.2
Tidhar, Gil	CA	IAC-15.B1.1P.7
Tigas, Pangiots	A	IAC-15.E1.9.10
Tikare, Kiran	A	IAC-15.D3.2.7
Tikhomirov, Alexander A.	CA	IAC-15.A1.7.3
Tikhomirov, Alexander A.	CA	IAC-15.A1.7.4
Tikhomirova, Natalia	A	IAC-15.A1.7.3
Tikle, Atharva	CA	IAC-15.A1.8.10
Tiliacos, Eutimio	CA	IAC-15.B1.5.1
Tillie, Charles	CA	IAC-15.D3.3.5
Timmermans, Remco	CA	IAC-15.B1.5.8
Timmermans, Remco	CA	IAC-15.E1.9.6
Timmusk, Mari	CA	IAC-15.E2.3-YPVF.4.7
Tinetti, Giovanna	A	IAC-15.B4.2.1
Tinetti, Giovanna	CA	IAC-15.E6.3.4
Tinsley, Tim	CA	IAC-15.E1.2.1
Tippets, Roger	CA	IAC-15.E1.8.4
Tiseo, Barbara	CA	IAC-15.C2.1.10
Tissera, Mihindukulasooriya Sheral Crescent	A	IAC-15.C1.5.3
Titov, Dmitry M.	CA	IAC-15.C2.4.4
Tiwari, Pratik	CA	IAC-15.C4.IP.57
Tiwari, Siddharth	CA	IAC-15.C2.7.2
Tiwari, Siddharth	A	IAC-15.C2.7.3
Tkachenko, Ivan	A	IAC-15.B4.2.12
Tkachenko, Ivan	CA	IAC-15.B4.6A.3
Tkachenko, Sergey	CA	IAC-15.B4.2.12
Tkachev, Stepan	CA	IAC-15.C1.5.2
Tlustos, Reinhard	CA	IAC-15.E1.7.11
Tobehn, Carsten	A	IAC-15.B4.4.4
Todd, Jessica	CA	IAC-15.E7.IP.6
Tokudome, Shinichiro	CA	IAC-15.D2.1.6
Tomassini, Angelo	CA	IAC-15.D1.2.11
Tomblin, David	CA	IAC-15.E1.8.1
Tomiki, Atsushi	CA	IAC-15.A3.4.5
Tomilovskaya, Elena	CA	IAC-15.A1.2.7
Toole, Kendra	A	IAC-15.E1.IP.8
Toon, Geoff	CA	IAC-15.B1.1.7
Topaz, Jeremy	CA	IAC-15.B4.2.2
Topputo, Francesco	CA	IAC-15.C1.4.3
Topputo, Francesco	CA	IAC-15.A6.6.1
Topputo, Francesco	A	IAC-15.E5.5.2
Torasso, Alberto	A	IAC-15.B4.6A.9
Torre, Francesco	CA	IAC-15.C1.7.7
Torresan, Stefano	A	IAC-15.B2.1.5
Tortora, Paolo	CA	IAC-15.B4.3.9
Tosi Furtado, André	CA	IAC-15.E3.3.1
Toso, Federico	A	IAC-15.D2.4.6
Toson, Elena	CA	IAC-15.A6.4.3
Toss Hoffmann, Cleber	CA	IAC-15.B4.1.10
Toss Hoffmann, Cleber	A	IAC-15.B4.7.7
Touboul, Pierre	CA	IAC-15.A2.1.1
Touboul, Pierre	CA	IAC-15.A2.1.2
Tovani, David	CA	IAC-15.C4.IP.40
Townsend, Lawrence	A	IAC-15.A1.5.10
Toyoda, Kazuhiro	CA	IAC-15.D5.3.1
Toyoda, Kazuhiro	CA	IAC-15.D5.3.5
Toyoshima, Morio	CA	IAC-15.B2.6.7
Trabasso, Luiz Gonzaga	CA	IAC-15.D3.4.7
Traistman, Eitan	CA	IAC-15.B5.1.3
Tran Thi, Chiara	CA	IAC-15.C2.6.7
Trevisi, Filippo	CA	IAC-15.A2.5.7
Trezzolani, Fabio	A	IAC-15.C4.IP.47
Trezzolani, Fabio	CA	IAC-15.C4.6.3
Trifonov, Sergey	A	IAC-15.A1.7.4
Trisolini, Mirko	A	IAC-15.A6.9.3
Trofimov, Sergey	CA	IAC-15.C1.7.5
Troll, Oliver	CA	IAC-15.E6.1.7
Troyas, Philippe	CA	IAC-15.D4.1.9
Truglio, Marco	CA	IAC-15.B4.3.2
Truglio, Marco	A	IAC-15.B4.5.9
Trur, Aurélie	A	IAC-15.E3.4.4

Trusculescu, Marius Florin	CA	IAC-15.C2.6.4
Trusculescu, Marius Florin	CA	IAC-15.B4.6B.3
Trusculescu, Marius Florin	CA	IAC-15.C3.4.3
Trushlyakov, Valeriy	A	IAC-15.A6.IP.15
Tsafnat, Naomi	CA	IAC-15.A2.3.6
Tsafnat, Naomi	CA	IAC-15.A1.6.6
Tsakyridis, Georgios	CA	IAC-15.D3.2.3
Tseng, Kun-Chang	CA	IAC-15.C4.6.5
Tsodikovich, Daniel	CA	IAC-15.B5.1.4
Tsuji, Hiroyuki	CA	IAC-15.B2.6.7
Tsuruda, Yoshihiro	CA	IAC-15.D5.3.1
Tsybulska, Maryna	CA	IAC-15.A1.IP.20
Tsybulska, Maryna	CA	IAC-15.D1.3.4
Tsybulska, Maryna	CA	IAC-15.A1.6.4
Tsybulska, Maryna	CA	IAC-15.B5.1.8
Tsygankov, Alexander	CA	IAC-15.A1.7.2
Tsygankov, Alexandr	CA	IAC-15.A1.7.1
Tu, Jian-qiang	CA	IAC-15.C2.IP.9
Tu, Jian-qiang	CA	IAC-15.C2.IP.17
Tu, Jian-qiang	A	IAC-15.C2.IP.20
Tulin, Andrey	CA	IAC-15.B5.2.6
Tumino, Giorgio	A	IAC-15.D2.6.1
Tuozzi, Alberto	A	IAC-15.B2.3.6
Turconi, Andrea	CA	IAC-15.D4.1.9
Turconi, Andrea	CA	IAC-15.A6.IP.42
Turconi, Andrea	A	IAC-15.C1.7.2
Turek, Krzysztof	A	IAC-15.A1.IP.7
Turner, Andy	CA	IAC-15.A6.5.4
Turner, Nathan	CA	IAC-15.B3.5.5
Tverdokhlebova, Ekaterina	A	IAC-15.B1.IP.28
Typa, Adrian	CA	IAC-15.E2.3-YPVF.4.7
Tzschichholz, Tristan	CA	IAC-15.D1.4.2

U

Name	Role	Paper
U-Yen, Kongpop	CA	IAC-15.A7.3.3
Ubertini, Pietro	A	IAC-15.A7.1.1
Uceta Gómez, Benjamin	A	IAC-15.D2.4.7
Uchitomi, Motoko	CA	IAC-15.E3.1.9
Ueda, Takahiro	A	IAC-15.E3.3.5
Uemura, Yoshihiko	A	IAC-15.B4.5.4
Ugolini, Filippo	CA	IAC-15.E6.IP.3
Uhligh, Thomas	A	IAC-15.B3.4-B6.5.2
Uhligh, Thomas	A	IAC-15.E1.6.1
Ukaegbu, Kingsley	CA	IAC-15.E1.5.11
Ulamiec, Stephan	CA	IAC-15.B6.3.3
Ulamiec, Stephan	CA	IAC-15.E3.2.1
Ulamiec, Stephan	A	IAC-15.A3.4.2
Ulamiec, Stephan	CA	IAC-15.A3.4.6
Ulamiec, Stephan	CA	IAC-15.A3.4.8
Uludağ, Mehmet Şevket	CA	IAC-15.B4.2.8
Umamura, Akira	CA	IAC-15.A2.6.5
Umamura, Yutaka	CA	IAC-15.D2.4.2
Umesh, Raksha	CA	IAC-15.C3.4.2
Ummer, Nabil	CA	IAC-15.C4.8.7
Urbanek, Jakub	CA	IAC-15.A3.4.1
Urbanowicz, Maciej	A	IAC-15.D4.2.3
Urbar, Jaroslav	A	IAC-15.E1.IP.1
Urbaš, Ana	CA	IAC-15.B4.4.9
Urbina, Diego	A	IAC-15.A5.3-B3.6.6
Urbina, Diego A.	CA	IAC-15.A3.2A.4
Ureña Ramírez, Viridiana	CA	IAC-15.A1.IP.20
Ureña Ramírez, Viridiana	CA	IAC-15.D1.3.4
Ureña Ramírez, Viridiana	CA	IAC-15.A1.6.4
Ureña Ramírez, Viridiana	CA	IAC-15.B5.1.8
Ureña Ramírez, Viridiana	CA	IAC-15.A5.2.9
Ushakova, Sofya	CA	IAC-15.A1.7.3
Usovik, Igor	A	IAC-15.A6.2.3
Usui, Toshio	CA	IAC-15.E1.2.9
Usuki, Tomoaki	A	IAC-15.C4.2.3
Uttamchandani, Deepak	CA	IAC-15.B4.6B.4
Uwarowa, Inna	A	IAC-15.E1.3.11

V

Name	Role	Paper
V, Kesava Raju	CA	IAC-15.C1.3.10
V, Kesavaraju	CA	IAC-15.C1.6.11
V S, Neela	CA	IAC-15.B1.IP.16
Vadhavkar, Nikhil	A	IAC-15.A1.IP.11
Vaidya, Naman	A	IAC-15.D4.4.8
Vaidya, Rucha	CA	IAC-15.B4.3.12
Vakoch, Douglas	A	IAC-15.A4.1.4
Vakoch, Douglas	A	IAC-15.A4.2.3
Valceschini, Raphael	CA	IAC-15.C1.IP.11
Valceschini, Raphael	CA	IAC-15.E2.4.4
Valdatta, Marcello	CA	IAC-15.E1.3.8
Valdatta, Marcello	CA	IAC-15.A6.IP.30
Valdatta, Marcello	CA	IAC-15.A6.IP.31
Valdatta, Marcello	CA	IAC-15.E6.3.9
Valdiviezo Ortiz, Javier Alfredo	A	IAC-15.E5.IP.5
van de Borne, Philippe	CA	IAC-15.A1.3.5
van den Berg, Rob	A	IAC-15.E5.6.5
van der Veen, Egbert Jan	CA	IAC-15.D1.2.1
van Dorenmalen, Kim	CA	IAC-15.E6.2.3
Van Hoof, Denis	CA	IAC-15.B6.3.12
Van Hove, Bart	CA	IAC-15.A3.3B.7
Van Lierde, Boris	CA	IAC-15.A5.3-B3.6.6
van Oijhuizen Galhego Rosa, Ana Cristina	CA	IAC-15.E6.3.3
van Oijhuizen Galhego Rosa, Ana Cristina	CA	IAC-15.E7.5.6
van Schie, Bart	CA	IAC-15.B4.8.2
Van wal, Stefaan	CA	IAC-15.A3.4.7
van Wyk, Peter	CA	IAC-15.B4.6A.11
van Wynsberghe, Erinn	A	IAC-15.A7.2.6
van Wynsberghe, Erinn	A	IAC-15.C3.2.3
Vananti, Alessandro	CA	IAC-15.A6.9.9
Vananti, Alessandro	CA	IAC-15.A6.9.10
Vanhumbeek, Jean-Francois	CA	IAC-15.C2.8.7
Vanreusel, Joost	CA	IAC-15.E2.4.1
Varacalli, Giancarlo	CA	IAC-15.B1.3.7
Varacalli, Giancarlo Natale	CA	IAC-15.B1.2.2
Vargas Cuentas, Natalia	CA	IAC-15.B4.1.7
Vargas Pallini, Juan Pablo	A	IAC-15.E7.IP.13
Vasaikar, Nidhi Sandeep	CA	IAC-15.D4.1.4
Vasile, Massimiliano	CA	IAC-15.C1.2.9
Vasile, Massimiliano	CA	IAC-15.A6.9.2
Vasile, Massimiliano	A	IAC-15.A6.6.1
Vasile, Massimiliano	A	IAC-15.C3.4.4
Vasiliev, Mikhail	CA	IAC-15.A2.IP.4
Vasilyev, Andrey	CA	IAC-15.A3.IP.16
VASSAUX, Didier	CA	IAC-15.D1.3.1
Vasylyev, Oleksandr	A	IAC-15.C3.3.8
Vaudo Scarpetta, Ersilia	CA	IAC-15.E3.1.3
Vaudo Scarpetta, Ersilia	CA	IAC-15.E3.1.7
Vaughan, David	CA	IAC-15.C4.2.10
Vaz, Celio Costa	CA	IAC-15.D5.IP.3
Vaz Maiolino, Jaqueline	A	IAC-15.D5.IP.3
Vaze, Parag	A	IAC-15.B1.2.9
Vazquez Mato, Javier	CA	IAC-15.A6.IP.33
Vekinis, Giorgios	CA	IAC-15.A3.1.3
Velasco, Tirso	A	IAC-15.A3.3B.4
Velasco Herrera, Graciela	A	IAC-15.B1.IP.1
Velenosi, Nicholas	A	IAC-15.B4.7.6
Velichko, Vladimir	CA	IAC-15.A1.7.3
Venditti, Flaviane	A	IAC-15.D4.3.1
VENKATAPATHI, Abhijith Janardhan	CA	IAC-15.E1.7.10
Ventskovsky, Oleg	CA	IAC-15.D2.3.2
Ventskovsky, Oleg	CA	IAC-15.E3.2.1
Venugopal, Desaraju	A	IAC-15.B2.7.1
Verker, Ronen	CA	IAC-15.C2.IP.35
Verkhovskii, Igor	CA	IAC-15.B3.2.2
Vernillo, Paolo	CA	IAC-15.C2.IP.33
Vernon, Steven	CA	IAC-15.D4.4.1
Verrecchia, Angélique	A	IAC-15.A1.8.6
Versloot, Thijs	A	IAC-15.C3.1.2
Verstappen, Nicolas	A	IAC-15.D2.2.8
Verstappen, Nicolas	A	IAC-15.E7.4.13
Vespe, Francesco	A	IAC-15.B1.IP.37

Viana, Tatiana	CA	IAC-15.E7.IP.1
Vicente, Juan Carlos	CA	IAC-15.B4.3.10
Vick, Charles	CA	IAC-15.E4.1.2
Vico, Laurence	CA	IAC-15.A1.IP.21
Vidal, Christian	CA	IAC-15.D1.2.11
Vieille, Bruno	CA	IAC-15.C4.1.6
Vieira Neto, Ernesto	CA	IAC-15.A6.IP.9
Vieira Neto, Ernesto	CA	IAC-15.A6.IP.10
Vigilante, Domenico	CA	IAC-15.A6.IP.40
Vigneron, Adam	CA	IAC-15.E3.IP.10
Vigneron, Adam	A	IAC-15.E1.5.3
Vihmand, Mart	A	IAC-15.E1.4.3
Vihmand, Mart	A	IAC-15.D5.2.1
Vijendran, Sanjay	CA	IAC-15.A3.3A.5
Vijendran, Sanjay	A	IAC-15.A3.IP.28
Vikhlyantsev, Ivan	CA	IAC-15.A1.IP.10
Vilchinskaya, Nataly	CA	IAC-15.A1.IP.10
Vilhena de Moraes, Rodolpho	CA	IAC-15.C1.IP.4
Villa, Alberto	CA	IAC-15.A4.IP.1
Villadei, Walter	CA	IAC-15.A6.IP.40
Villain, Rachel	A	IAC-15.B4.5.1
Vilona, Veronica	CA	IAC-15.B4.2.7
Viola, Nicole	CA	IAC-15.D4.1.12
Viola, Nicole	A	IAC-15.D2.4.3
Viola, Nicole	A	IAC-15.D2.4.5
Viola, Nicole	A	IAC-15.A2.6.8
Viola, Nicole	CA	IAC-15.D6.3.1
Viola, Nicole	A	IAC-15.D1.7.7
Viquerat, Andrew	CA	IAC-15.A6.IP.12
Viscio, Maria Antonietta	CA	IAC-15.D2.4.3
Visentin, Gianfranco	CA	IAC-15.D1.2.11
Visentin, Gianfranco	CA	IAC-15.A3.IP.34
Vitiello, Pasquale	CA	IAC-15.C2.IP.33
Viviani, Antonio	A	IAC-15.A2.4.11
Vjatkin, Aleksey	A	IAC-15.A2.IP.1
Vladimirova, Tanya	CA	IAC-15.A3.2A.8
Vladimirova, Tanya	CA	IAC-15.A3.5.9
Voecks, Gerald	CA	IAC-15.C4.2.10
Voirin, Thomas	CA	IAC-15.A3.3A.5
Voirin, Thomas	CA	IAC-15.A3.IP.28
Voirin, Thomas	CA	IAC-15.A3.3B.11
Voloshin, Oleg	A	IAC-15.A1.IP.4
Volpini, Fabrizio	CA	IAC-15.C2.8.12
Volpp, Hans-Jürgen	CA	IAC-15.A6.4.7
Volynskaya, Olga	A	IAC-15.E7.2.12
von der Dunk, Frans	CA	IAC-15.E7.1.6
von der Dunk, Frans	A	IAC-15.E7.4.2
von Kampen, Peter	CA	IAC-15.A2.5.3
Vora, Amar	A	IAC-15.B4.2.1
Vora, Amar	CA	IAC-15.E6.3.4
Vorobiova, Iryna	A	IAC-15.B4.5.11
Voronina, Anastasia	A	IAC-15.E7.IP.24
Vorontsov, Viktor A.	A	IAC-15.A3.1.5
VR, Lalithambika	CA	IAC-15.C1.1.9
Vrancken, Davy	CA	IAC-15.B4.7.2
Vrolijk, Ademir	A	IAC-15.E1.9.8

W

Name	Role	Paper
Wadhwa, Nimita	A	IAC-15.B3.9-YPVF.2.3
Waghulde, Dhaval	A	IAC-15.C3.IP.3
Waghulde, Dhaval	A	IAC-15.C3.4.8
Waghulde, Dhaval	CA	IAC-15.E2.4.3
Wagner, Nicoletta	A	IAC-15.C4.4.10
Wagner, Paul	A	IAC-15.A6.IP.3
Waizman, Gennady	CA	IAC-15.B5.1.4
Waldvogel, Barak	CA	IAC-15.C4.IP.46
Walker, Andrew	CA	IAC-15.A6.9.2
Walker, Helen	A	IAC-15.B4.3.3
Walker, John	A	IAC-15.A3.2B.4
Walker, Kaley	CA	IAC-15.B1.1.7
Walker, Luke	A	IAC-15.B6.3.6
Walker, Roger	CA	IAC-15.B4.2.6



Walker, Roger	CA	IAC-15.B2.4.5
Walker, Roger	CA	IAC-15.B2.6.4
Walker, Roger	CA	IAC-15.A6.6.2
Walker, Roger	CA	IAC-15.B4.6B.9
Walker, Scott	CA	IAC-15.A6.6.1
Walmsley, Mike	CA	IAC-15.E2.2.7
Walther, Stephan	CA	IAC-15.A5.1.8
Walton, Lori	A	IAC-15.A4.1.2
Walton, Lori	A	IAC-15.A4.2.1
Wan, Shuangai	A	IAC-15.A3.IP.6
Wan, Stephanie	A	IAC-15.B2.2.1
Wandel, Amri	A	IAC-15.A4.1.1
WANG, Baofeng	CA	IAC-15.A3.2C.11
Wang, Bing	CA	IAC-15.A1.5.6
Wang, Caijian	CA	IAC-15.D1.IP.8
Wang, Chao	CA	IAC-15.A2.2.7
Wang, Chao	CA	IAC-15.C2.7.1
WANG, DAPENG	CA	IAC-15.C4.IP.28
WANG, DAPENG	CA	IAC-15.D5.4.7
Wang, Daqing	CA	IAC-15.B2.8-YPVF.3.1
Wang, Daqing	CA	IAC-15.B2.8-YPVF.3.2
Wang, Dewei	CA	IAC-15.C2.7.7
Wang, Dongxia	CA	IAC-15.A6.9.7
Wang, Dun	A	IAC-15.B2.3.13
Wang, Gengbo	A	IAC-15.B2.7.5
Wang, Guangxu	A	IAC-15.C4.IP.17
Wang, Guangxu	CA	IAC-15.C4.IP.20
Wang, Guangxu	A	IAC-15.C4.IP.24
WANG, Guo-hui	CA	IAC-15.D2.IP.5
WANG, Guo-hui	CA	IAC-15.C4.7-C3.5.8
Wang, Guoyu	CA	IAC-15.E7.1.4
Wang, Guoyu	CA	IAC-15.E3.2.7
Wang, Guoyu	CA	IAC-15.B3.IP.8
Wang, Guoyu	A	IAC-15.E7.5.4
Wang, Haidong	CA	IAC-15.C2.1.9
Wang, Haoping	CA	IAC-15.C4.IP.10
Wang, Heng	CA	IAC-15.A6.6.10
Wang, Hong	CA	IAC-15.D2.IP.11
Wang, Hong-Bo	CA	IAC-15.A6.IP.50
Wang, Hongjia	A	IAC-15.C3.2.7
Wang, Hui	CA	IAC-15.C2.2.9
Wang, Jeremy Chan-Hao	A	IAC-15.E2.3-YPVF.4.7
Wang, Jeremy Chan-Hao	CA	IAC-15.E3.4.6
Wang, Jing	CA	IAC-15.A2.2.9
WANG, JUE	CA	IAC-15.C4.IP.28
Wang, Jufang	A	IAC-15.A1.5.5
Wang, Jufang	CA	IAC-15.A1.5.6
Wang, Junquan	CA	IAC-15.B1.IP.23
Wang, Ke	CA	IAC-15.C2.5.8
Wang, Kunjie	A	IAC-15.C2.4.5
Wang, Lei	CA	IAC-15.C2.1.9
Wang, Li	CA	IAC-15.C3.1.7
Wang, Li	CA	IAC-15.C2.2.9
Wang, Li	CA	IAC-15.C2.3.10
Wang, Li	CA	IAC-15.C2.IP.48
Wang, Li	CA	IAC-15.C3.IP.2
Wang, Lu	CA	IAC-15.C2.7.4
Wang, Mei	CA	IAC-15.C4.5.6
Wang, Meng	CA	IAC-15.B2.3.13
Wang, Minjuan	CA	IAC-15.A1.IP.12
Wang, Minjuan	CA	IAC-15.A1.IP.17
Wang, Patrick Sipei	A	IAC-15.D1.3.11
Wang, Peng	A	IAC-15.E3.1.6
Wang, Qiancheng	A	IAC-15.A2.2.6
Wang, Rong	A	IAC-15.C2.IP.22
Wang, Ru	CA	IAC-15.C3.IP.6
Wang, Ru	A	IAC-15.C3.IP.7
Wang, Saijin	CA	IAC-15.D5.3.8

Wang, Shaofei	CA	IAC-15.A3.1.11
WANG, Shu	CA	IAC-15.E3.1.4
Wang, Shuang-Feng	A	IAC-15.A2.4.6
Wang, Tao	A	IAC-15.D6.1.6
Wang, Teng	A	IAC-15.C3.4.6
Wang, Wei	CA	IAC-15.B2.8-YPVF.3.1
Wang, Wei	CA	IAC-15.B2.8-YPVF.3.2
Wang, Wei	A	IAC-15.C4.8.6
Wang, Wenli	A	IAC-15.C2.4.6
Wang, XD	A	IAC-15.B3.5.4
Wang, Xin	A	IAC-15.D3.3.4
Wang, Xin	CA	IAC-15.D1.IP.8
Wang, Xinfeng	CA	IAC-15.D6.1.10
Wang, Xinrong	CA	IAC-15.B2.7.7
Wang, Xinzhe	CA	IAC-15.B3.IP.5
Wang, Xuefeng	A	IAC-15.C1.IP.2
Wang, Xuemei	CA	IAC-15.D2.IP.5
Wang, Xuemei	CA	IAC-15.C4.7-C3.5.8
Wang, Ya	CA	IAC-15.A1.4.5
Wang, Ya Jun	CA	IAC-15.C4.9.3
Wang, Ya Jun	A	IAC-15.C4.9.4
Wang, Yao	CA	IAC-15.C3.IP.6
Wang, Yi	A	IAC-15.D2.IP.11
Wang, Yibai	A	IAC-15.C4.IP.37
Wang, Yong	A	IAC-15.C4.5.6
Wang, Youping	CA	IAC-15.D1.IP.20
Wang, Yue	CA	IAC-15.C2.IP.10
Wang, Yue	CA	IAC-15.C2.IP.42
Wang, Yuexuan	A	IAC-15.C1.6.7
WANG, Yuying	A	IAC-15.C2.7.4
Wang, Zhaohui	A	IAC-15.D2.3.6
Wang, Zhaowei	CA	IAC-15.A2.2.9
WANG, Zheng	A	IAC-15.D1.IP.13
Wang, Ziyong	CA	IAC-15.D2.4.4
Wanjuan, Yan	CA	IAC-15.C3.3.7
Ward, Eric	A	IAC-15.A5.2.1
Ward, Nick	CA	IAC-15.E1.3.12
Warren, Paul	A	IAC-15.E1.3.2
Warshavsky, Abraham	CA	IAC-15.C4.4.4
Washiya, Masahito	CA	IAC-15.B4.6A.7
Watson, Ian	CA	IAC-15.C2.3.9
Watts, Simon	CA	IAC-15.B2.1.1
Waxman, Eli	CA	IAC-15.B4.2.2
Waxman, Eli	CA	IAC-15.A7.2.1
Webb, Gerald	A	IAC-15.D2.IP.8
Webb, Ryan	CA	IAC-15.A5.2.1
Weber-Steinhaus, Luise	CA	IAC-15.E1.5.11
Wedler, Armin	CA	IAC-15.D3.2.3
Weeden, Brian	CA	IAC-15.E3.4.2
Weeden, Brian	CA	IAC-15.E7.5.2
Weems, Jon	A	IAC-15.B3.3.1
Wei, Baoxi	CA	IAC-15.C4.9.5
Wei, Chuanfeng	CA	IAC-15.A2.2.7
Wei, Chuanfeng	CA	IAC-15.C3.2.7
Wei, Chuanfeng	CA	IAC-15.B2.4.9
Wei, Chuanfeng	CA	IAC-15.B3.9-YPVF.2.2
Wei, Chuanfeng	CA	IAC-15.C2.6.10
Wei, Chuanfeng	CA	IAC-15.C2.7.1
Wei, Chuanfeng	CA	IAC-15.C2.7.7
Wei, Chuanfeng	A	IAC-15.B3.7.3
Wei, Chuanfeng	CA	IAC-15.B3.7.8
Wei, Chuanfeng	CA	IAC-15.B3.7.9
Wei, Hu	A	IAC-15.A1.IP.3
Wei, Huang	A	IAC-15.D2.IP.4
Wei, Su	A	IAC-15.A3.IP.23

Wei, Wang	A	IAC-15.C1.4.6
Wei, Xianggeng	CA	IAC-15.C4.9.3
Wei, Xianggeng	CA	IAC-15.C4.9.4
Wei, Xiangquan	CA	IAC-15.A6.IP.17
Wei, Zong	CA	IAC-15.A3.IP.11
Wei-hua, Han	A	IAC-15.A6.IP.14
Weichen, Wang	CA	IAC-15.B3.7.9
Weifen, Huang	CA	IAC-15.A1.4.4
Weih, Hendrik	CA	IAC-15.A3.1.3
Weiland, Stefan	CA	IAC-15.C2.1.1
Weiming, Li	A	IAC-15.C1.IP.13
Weise, Jana	CA	IAC-15.D3.1.3
Weise, Jana	CA	IAC-15.E6.3.6
Weiss, Peter	CA	IAC-15.A3.2A.4
Weiss, Peter	CA	IAC-15.A5.3-B3.6.6
Weiss, Yaniv	CA	IAC-15.C1.4.8
Weissberg, Ilan	A	IAC-15.D1.4.12
Weissman, Zvika	A	IAC-15.D1.3.7
Weixing, Zhou	CA	IAC-15.C4.9.14
Weizman, Ayelet	A	IAC-15.E1.7.5
Welch, Chris	CA	IAC-15.D4.1.3
Welch, Chris	CA	IAC-15.A2.3.6
Welch, Chris	CA	IAC-15.A1.IP.15
Welch, Chris	CA	IAC-15.A1.6.7
Welch, Chris	CA	IAC-15.D4.4.7
Welch, Chris	A	IAC-15.E5.4.3
Welch, Chris	CA	IAC-15.A3.2C.8
Weltman, Jonathan	A	IAC-15.E1.8.2
Wen, Mo	CA	IAC-15.A3.IP.27
Wen, Mo	CA	IAC-15.A3.IP.45
Wen, Xuezhong	CA	IAC-15.A6.3.3
Wen, Xuezhong	A	IAC-15.A6.IP.5
Wen-miao, Yang	CA	IAC-15.A3.IP.11
Weng, Shui-Lin	CA	IAC-15.C1.5.2
Wenli, Zhong	CA	IAC-15.C4.IP.12
Wenlong, Li	A	IAC-15.C4.1.3
Wenlong, Li	A	IAC-15.C4.9.1
Wenlong, Li	CA	IAC-15.C4.9.7
Wenlong, Li	CA	IAC-15.C4.9.8
Wenxiong, Xi	A	IAC-15.C4.IP.12
Wenzel, Peter	CA	IAC-15.C2.1.1
Weppler, Johannes	CA	IAC-15.E1.2.2
Weppler, Johannes	A	IAC-15.B3.5.6
Wessling, Francis	CA	IAC-15.E1.3.1
Westall, Frances	CA	IAC-15.E3.2.1
Whitesides, George	CA	IAC-15.B3.2.4
Whitesides, George	CA	IAC-15.A2.3.9
Whitesides, George	CA	IAC-15.B4.5.2
Whitesides, George	CA	IAC-15.D2.7.1
Whyard, Steve	CA	IAC-15.A1.IP.20
Whyard, Steve	CA	IAC-15.D1.3.4
Whyard, Steve	CA	IAC-15.A1.6.4
Wiedemann, Carsten	A	IAC-15.A6.8.4
Wiedemann, Josef	CA	IAC-15.D2.5.6
Wiedemann, Josef	CA	IAC-15.D2.7.3
Wiesendanger, Reto	CA	IAC-15.B4.4.5
Wiesendanger, Reto	CA	IAC-15.A6.6.2
Wieser, Matthias	CA	IAC-15.A6.IP.33
Wieser, Matthias	CA	IAC-15.A6.6.6
Wieser, Matthias	CA	IAC-15.B4.7.5
Wiggins, Jeffrey	CA	IAC-15.C2.6.3
Wikelski, Martin	CA	IAC-15.B2.1.9
Wilczynski, Lukasz	A	IAC-15.E1.6.4
Wild, Elisabeth	CA	IAC-15.D2.5.10
Wild, Elisabeth	CA	IAC-15.C2.9.1

Wilde, Detlef	A	IAC-15.E5.2.6
Wilde, Paul	A	IAC-15.D6.1.8
Wille, Eric	CA	IAC-15.A7.1.4
Wille, Eric	A	IAC-15.A7.1.5
Willi, Daniel	CA	IAC-15.B4.4.5
Williams, Bobby	CA	IAC-15.A3.5.1
Williams, James	A	IAC-15.B4.2.1
Williams, James	CA	IAC-15.E6.3.4
Williams, James	CA	IAC-15.B4.6A.11
Williams, Maureen	A	IAC-15.E7.5.1
Wilson, Simon	CA	IAC-15.A6.2.11
Wiltzie, Nicholas	CA	IAC-15.A2.3.1
Wimmer-Schweingruber, Robert	CA	IAC-15.D4.4.1
Wimmer-Schweingruber, Robert	CA	IAC-15.D1.7.3
Winter, Frank H.	A	IAC-15.E4.2.6
Winter, Michael	CA	IAC-15.C2.4.8
Winter, Othon	CA	IAC-15.C1.3.7
Wirnsberger, Harald	A	IAC-15.A6.IP.45
Withers, Paul	CA	IAC-15.A3.3B.7
Witte, Francois	CA	IAC-15.D1.3.3
Witte, Lars	CA	IAC-15.D3.2.3
Witternigg, Norbert	A	IAC-15.B2.3.2
Wittig, Manfred	CA	IAC-15.B2.3.5
Wittig, Manfred	A	IAC-15.B2.4.3
Wittig, Manfred	CA	IAC-15.B2.4.4
Wiwattananon, Peerawan	CA	IAC-15.C4.8.3
Wolahan, Andrew	A	IAC-15.D4.1.11
Wolanski, Piotr	CA	IAC-15.C4.1.11
Wolanski, Piotr	CA	IAC-15.E2.1.4
Wolanski, Piotr	CA	IAC-15.E1.3.11
Wolanski, Piotr	CA	IAC-15.D2.IP.2
Wolanski, Piotr	CA	IAC-15.B4.6A.2
Wolanski, Piotr	CA	IAC-15.D2.7.10
Wolf, Michael	CA	IAC-15.A5.3-B3.6.5
Wolf, Nadja	A	IAC-15.D3.4.1
Wolff, Marina	CA	IAC-15.C2.9.2
Wolff, Mikael	CA	IAC-15.B3.4-B6.5.4
Wollack, Edward J.	CA	IAC-15.A7.3.3
Wollstadt, Steffen	CA	IAC-15.B1.IP.32
Wong, Nathan	A	IAC-15.A3.2A.7
Wood, Danielle	A	IAC-15.B4.1.2
Woodcock, Neil	A	IAC-15.C2.1.7
Woods, David	CA	IAC-15.E4.1.2
Wormnes, Kjetil	CA	IAC-15.D1.1.6
Wormnes, Kjetil	CA	IAC-15.A2.3.4
Wormnes, Kjetil	A	IAC-15.A6.IP.23
Wormnes, Kjetil	CA	IAC-15.A6.5.8
Worms, Jean-Claude	A	IAC-15.A3.1.2
Worthington, Richard	CA	IAC-15.E1.8.1
Wortman, Kristin	CA	IAC-15.D4.4.4
Wu, An-Ming	A	IAC-15.A2.1.10
Wu, An-Ming	A	IAC-15.C1.IP.21
Wu, An-Ming	A	IAC-15.D1.5.4
Wu, Baolin	CA	IAC-15.C1.5.11
Wu, Baoyuan	CA	IAC-15.C4.IP.16
Wu, Bin	A	IAC-15.A1.4.4
Wu, Bin	CA	IAC-15.B6.2.9
Wu, Dan	A	IAC-15.D5.1.10
WU, Di	CA	IAC-15.A2.4.1
Wu, Fenglei	A	IAC-15.C1.2.10
WU, Fenglei	CA	IAC-15.C1.7.3
WU, Fenglei	CA	IAC-15.D1.6.10
WU, Fenglei	CA	IAC-15.D5.3.8
Wu, Haiyan	CA	IAC-15.B6.2.3
Wu, Honglu	A	IAC-15.A1.8.4
Wu, Honglu	A	IAC-15.A1.5.7
WU, Hongwei	CA	IAC-15.C2.IP.4
Wu, Jianjun	CA	IAC-15.C4.IP.50
WU, Jie	CA	IAC-15.C2.IP.23
Wu, Minger	A	IAC-15.C2.2.11
Wu, Shufan	A	IAC-15.B4.4.3
Wu, Shunan	A	IAC-15.C1.5.4



Wu, Wenrui	A	IAC-15.C2.6.10
Wu, Wenrui	CA	IAC-15.B3.7.13
Wu, Xianyu	CA	IAC-15.C4.9.13
Wu, Xiaodan	CA	IAC-15.E7.5.4
Wu, Xue Ying	CA	IAC-15.A3.2A.3
Wu, Xueying	CA	IAC-15.A3.2C.10
Wu, Yansen	CA	IAC-15.A2.2.10
Wu, Zhigang	CA	IAC-15.C1.5.4
Wyatt, E. Jay	CA	IAC-15.A3.5.8
Wöbbekind, Mitja	CA	IAC-15.A3.IP.15

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Name	Role	Paper
Xavier, Tang Zhongkan	A	IAC-15.B2.5.9
Xi, Fubiao	A	IAC-15.B1.4.2
Xiang, Cheng	CA	IAC-15.D2.IP.12
Xianwen, NING	CA	IAC-15.C2.7.4
Xiao, Jie	CA	IAC-15.A3.2C.6
Xiao, Xie	CA	IAC-15.A3.2C.5
Xiao, Xueming	A	IAC-15.A3.IP.21
Xiao, Yongxuan	CA	IAC-15.B2.1.11
Xiao, Zhen	CA	IAC-15.B1.IP.23
Xiao-tao, Luo	CA	IAC-15.A3.IP.11
Xiaochun, Li	CA	IAC-15.D1.5.7
Xiaofeng, Guo	CA	IAC-15.C3.IP.6
Xiaoguang, Luo	CA	IAC-15.C2.4.3
Xiaohe, Bai	A	IAC-15.D2.IP.10
Xiaoke, Li	A	IAC-15.D1.5.7
Xiaole, Li	CA	IAC-15.C2.IP.42
Xie, Beizhen	CA	IAC-15.A1.IP.12
Xie, Beizhen	CA	IAC-15.A1.IP.13
Xie, Beizhen	CA	IAC-15.A1.IP.17
Xie, YongChun	CA	IAC-15.C1.IP.15
Xie, YongChun	CA	IAC-15.A6.9.7
Xie, YongChun	CA	IAC-15.C1.6.9
Xin, Chen	A	IAC-15.B2.4.8
Xin, Qi	CA	IAC-15.B2.4.9
Xing, Shiping	A	IAC-15.C2.1.3
Xing, Shiping	CA	IAC-15.C1.IP.2
Xing, Yitong	CA	IAC-15.C1.5.3
Xinrong, Wang	A	IAC-15.B2.5.11
Xiong, Weiming	CA	IAC-15.B2.5.10
Xiuyun, Cao	CA	IAC-15.E1.7.11
Xu, Bo	CA	IAC-15.C1.8.9
XU, Dezhen	CA	IAC-15.B2.IP.7
XU, Dezhen	A	IAC-15.C1.9.8
XU, GUOWU	CA	IAC-15.C2.IP.31
Xu, Hui	A	IAC-15.D5.3.8
Xu, Kan	A	IAC-15.A2.2.5
XU, Kao	A	IAC-15.C2.IP.11
Xu, Kunbo	CA	IAC-15.A6.3.8
Xu, Liang	CA	IAC-15.C2.5.4
Xu, Ming	CA	IAC-15.D2.3.6
Xu, Ming	CA	IAC-15.A3.2C.2
Xu, Ming	CA	IAC-15.C1.8.7
Xu, Qian	CA	IAC-15.C2.IP.10
Xu, Qin	CA	IAC-15.B4.8.11
Xu, Shijie	CA	IAC-15.C1.4.2
Xu, Shijie	CA	IAC-15.C1.IP.6
Xu, Shijie	CA	IAC-15.A3.2C.2
Xu, Wen	A	IAC-15.D6.1.2
Xu, Wenfu	CA	IAC-15.D4.1.7
Xu, Xiaojing	CA	IAC-15.A2.2.9
Xu, Yiwei	CA	IAC-15.C2.2.11
Xu, Yongsheng	CA	IAC-15.D4.1.7
Xue, Bingsen	CA	IAC-15.A6.IP.20
Xue, Huifeng	A	IAC-15.E5.IP.6
Xue, Shuyan	CA	IAC-15.C2.7.4
Xue-song, Ma	CA	IAC-15.C4.9.14
Xuefu, Chen	CA	IAC-15.C4.9.13

Y

Name	Role	Paper
Y Pla Trevas, Juliana	CA	IAC-15.E3.5-E7.6.6
Yabusaki, Daisuke	CA	IAC-15.D2.4.2
Yacobi, Lee	A	IAC-15.A7.2.4
Yadav, Radhika	A	IAC-15.E7.IP.15
YAGISHITA, Tsuyoshi	CA	IAC-15.C4.1.8
YAGISHITA, Tsuyoshi	CA	IAC-15.C4.3.2
Yaglioglu, Burak	CA	IAC-15.E1.6.8
Yahata, Tadayoshi	CA	IAC-15.E5.5.9
Yajima, Saho	CA	IAC-15.E1.7.11
Yam, Chit Hong	CA	IAC-15.C1.1.8
Yamada, Tetsuya	CA	IAC-15.A3.1.3
Yamagishi, Akihiko	CA	IAC-15.A3.3A.3
Yamamoto, Shinichi	CA	IAC-15.B2.6.7
Yamamoto, Yukimitsu	A	IAC-15.B1.1.1
Yamashiro, Ryoma	A	IAC-15.D2.1.6
Yamashiro, Ryoma	CA	IAC-15.E1.5.11
Yan, Bo	A	IAC-15.C2.5.8
Yan, Dong	CA	IAC-15.D1.4.11
Yan, Dong	A	IAC-15.D5.4.7
Yan, Jun	CA	IAC-15.A6.3.2
Yan, Zhang	A	IAC-15.C4.4.8
Yan-ping, Qin	A	IAC-15.C4.IP.16
Yang, Bo	A	IAC-15.D1.2.8
Yang, Chen	A	IAC-15.C3.1.7
Yang, Chen	CA	IAC-15.C2.2.9
Yang, Chen	A	IAC-15.C2.3.10
YANG, CHEN	A	IAC-15.B6.IP.2
Yang, Chen	A	IAC-15.C2.IP.48
Yang, Dong	CA	IAC-15.C2.4.7
Yang, Dong	CA	IAC-15.C2.IP.47
Yang, Eric Jing-Bo	CA	IAC-15.E2.3-YPVF.4.7
Yang, Fan	CA	IAC-15.D1.2.5
Yang, Fan	A	IAC-15.D1.IP.4
Yang, Guanglie	CA	IAC-15.C1.6.4
Yang, Haifeng	CA	IAC-15.B3.7.13
Yang, Haoliang	A	IAC-15.B4.5.5
Yang, Hong	CA	IAC-15.B2.4.9
YANG, Hongwei	CA	IAC-15.D4.1.8
Yang, Inseok	A	IAC-15.D5.IP.1
YANG, Jian	CA	IAC-15.A5.IP.5
Yang, Jianwen	CA	IAC-15.C4.IP.17
Yang, Jianwen	A	IAC-15.C4.IP.20
Yang, Jianwen	CA	IAC-15.C4.IP.24
Yang, Lei	CA	IAC-15.C4.IP.13
Yang, Lingxuan	CA	IAC-15.A6.4.11
Yang, Sheng	A	IAC-15.B3.IP.5
Yang, Shengsheng	CA	IAC-15.C3.3.7
Yang, Tong	A	IAC-15.B2.5.13
Yang, Wang	CA	IAC-15.B2.4.9
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YANG, WEIWEI	A	IAC-15.B4.3.7
Yang, Xinfeng	CA	IAC-15.C2.IP.47
Yang, Yuguang	CA	IAC-15.B4.8.3
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Yang, Zhen	CA	IAC-15.A7.3.4
Yang, Zhi	CA	IAC-15.C3.3.7
Yang, Zhi	CA	IAC-15.E1.4.7
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Yang Yang, Fan	CA	IAC-15.A6.6.8
Yaniv, Yoram	CA	IAC-15.B1.2.1
Yanji, Hong	CA	IAC-15.C4.IP.12
Yao, Na	CA	IAC-15.C3.1.7
Yao, Na	CA	IAC-15.C2.2.9
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Yao, Wei	CA	IAC-15.A2.2.7
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Yasaka, Tetsuo	CA	IAC-15.A6.1.8
Yaxing, Cai	CA	IAC-15.B2.6.11
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Yin, Yuchen	CA	IAC-15.C2.5.10
YingChun, Liu	CA	IAC-15.B2.IP.6
YINGCHUN, ZHANG	CA	IAC-15.D4.1.7
YINGCHUN, ZHANG	CA	IAC-15.C1.5.11
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Yongkang, Zhang	CA	IAC-15.A2.6.9
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Yoo, Bernard	CA	IAC-15.A6.2.2
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You, Hongjian	CA	IAC-15.B1.4.4
Young, Elliot	CA	IAC-15.A3.4.10
Young, Laurence R.	CA	IAC-15.A1.3.1
Young, Rupert	CA	IAC-15.A6.6.9
Yu, Guoqing	CA	IAC-15.D1.IP.20
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YUAN, JUNYA	CA	IAC-15.C2.IP.39
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Yuki, Ryota	A	IAC-15.E3.3.5
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ZHANG, Chongfeng	CA	IAC-15.A5.IP.5
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ZHANG, Dayu	A	IAC-15.C2.2.3
Zhang, Fan	A	IAC-15.D1.2.4
Zhang, Hang	CA	IAC-15.C4.5.3
Zhang, Hanmo	A	IAC-15.B1.4.4
Zhang, Hao	A	IAC-15.C1.8.8
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Zhang, Heng	A	IAC-15.B2.IP.4
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Zhang, Jingrui	CA	IAC-15.C2.3.8
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Zhang, Linqing	A	IAC-15.C4.2.11
Zhang, Mei	CA	IAC-15.C4.3.13
Zhang, Meng	CA	IAC-15.D1.IP.20
Zhang, Mengzheng	CA	IAC-15.C4.9.7
Zhang, Mengzheng	CA	IAC-15.C4.9.8
Zhang, Ming-Jiang	A	IAC-15.A6.IP.50
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ZHANG, NINGLI	CA	IAC-15.C4.IP.28
Zhang, Peng	CA	IAC-15.C1.2.10
Zhang, Peng	A	IAC-15.A1.3.8
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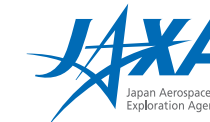
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Zhang, Shengjun	A	IAC-15.A6.8.7	ZHENG, Xiaotian	CA	IAC-15.B2.5.11
Zhang, Shijie	CA	IAC-15.C1.9.9	ZHENG, Xiaotian	A	IAC-15.B2.7.7
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Zhang, Shucai	CA	IAC-15.D1.IP.4	Zheng, Yuntao	A	IAC-15.C4.IP.54
Zhang, Shunbo	CA	IAC-15.A3.IP.27	Zhi, Li	CA	IAC-15.C1.IP.15
Zhang, Shunbo	CA	IAC-15.A3.IP.45	Zhi, Shang	CA	IAC-15.B3.7.9
Zhang, Tao	CA	IAC-15.D1.7.4	Zhibin, Zhang	CA	IAC-15.B2.3.12
Zhang, Teng	A	IAC-15.D1.IP.18	Zhibin, Zhang	CA	IAC-15.A3.3A.11
Zhang, Tianhao	CA	IAC-15.C2.2.11	Zhibin, Zhang	CA	IAC-15.C1.IP.9
Zhang, Tianping	A	IAC-15.C4.IP.26	Zhibing, Song	CA	IAC-15.C4.3.11
Zhang, Wei	CA	IAC-15.C2.4.6	Zhiming, Zhao	CA	IAC-15.C3.3.7
Zhang, Wei	A	IAC-15.C2.4.7	Zhong, Cui-xiang	A	IAC-15.A3.2C.13
Zhang, Wei	CA	IAC-15.B2.IP.4	Zhong, Hongen	CA	IAC-15.D1.7.4
Zhang, Weiping	CA	IAC-15.C4.2.11	Zhong, Yue	CA	IAC-15.C1.6.7
Zhang, Wenjian	A	IAC-15.B1.1.3	Zhonghai, Guo	A	IAC-15.D2.2.2
Zhang, Xiaohong	CA	IAC-15.C1.6.7	Zhou, Bilei	A	IAC-15.B2.1.13
ZHANG, Xiaomin	A	IAC-15.B4.2.4	Zhou, Guangming	CA	IAC-15.A1.5.5
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Zhang, Xiaoyu	A	IAC-15.C2.IP.12	ZHOU, Huan	A	IAC-15.B2.IP.7
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Zhang, Xinghua	CA	IAC-15.C3.1.7	Zhou, Liang	CA	IAC-15.D1.4.2
Zhang, Xinghua	A	IAC-15.C2.2.9	ZHOU, Lini	A	IAC-15.E3.1.4
Zhang, Xinghua	CA	IAC-15.C2.3.10	Zhou, Lixin	CA	IAC-15.C4.IP.6
Zhang, Xinghua	CA	IAC-15.C2.IP.43	Zhou, Lu	CA	IAC-15.C3.1.4
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Zhang, Xurui	CA	IAC-15.A1.5.5	Zhou, Renlai	CA	IAC-15.A1.4.4
Zhang, Yan	A	IAC-15.C2.9.7	Zhou, Shen	A	IAC-15.B2.IP.6
Zhang, Yao	CA	IAC-15.C2.3.8	Zhou, Tao	CA	IAC-15.D1.IP.8
Zhang, Yao	A	IAC-15.C2.IP.38	Zhou, Weijiang	CA	IAC-15.C2.IP.31
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Zhang, Yongliang	CA	IAC-15.A1.3.2	Zhou, Xing	CA	IAC-15.C2.4.7
Zhang, You-hua	A	IAC-15.C2.IP.17	Zhou, Yiqian	A	IAC-15.C2.IP.49
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Zhang, Yulin	CA	IAC-15.B4.6A.5	Zhu, Ge	A	IAC-15.B4.8.8
Zhang, Yunjie	CA	IAC-15.B2.1.12	Zhu, Jianbing	CA	IAC-15.D1.4.11
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Zhao, Bo	CA	IAC-15.C4.IP.22	Zhu, Shengying	CA	IAC-15.C1.7.10
Zhao, Chang-Yin	CA	IAC-15.A6.IP.50	Zhu, Xiaolu	CA	IAC-15.A6.IP.20
Zhao, Changyin	CA	IAC-15.A6.IP.19	Zhu, Xiaozhou	CA	IAC-15.B4.6A.5
Zhao, Fengcai	CA	IAC-15.D1.6.10	Zhu, Yan	CA	IAC-15.C4.9.7
Zhao, Guowei	CA	IAC-15.C1.6.4	Zhu, Yan	CA	IAC-15.C4.9.8
Zhao, Hui-guang	CA	IAC-15.A2.3.7	Zhu, Yunfei	CA	IAC-15.C2.6.12
ZHAO, Hui-guang	CA	IAC-15.D1.7.6	Zhu, Zhanxia	CA	IAC-15.C1.4.6
ZHAO, Jian	A	IAC-15.C4.IP.4	Zhuang, Taisen	CA	IAC-15.C4.4.7
ZHAO, Jian	CA	IAC-15.C4.5.3	Zhukov, Andrei	CA	IAC-15.B4.2.5
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Zhao, Yang	CA	IAC-15.A3.IP.22	Zufferey, Raphael	CA	IAC-15.E2.4.4
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Zhao, Yuxin	CA	IAC-15.C4.9.10			
Zhao, Yuxin	CA	IAC-15.C4.IP.12			
Zhao, Zhiming	A	IAC-15.B4.2.4			
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ZHAOXIA, MA	A	IAC-15.A6.IP.6			
Zhdanovich, Olga	A	IAC-15.E4.2.1			
Zheng, Hongyang	CA	IAC-15.A2.2.5			
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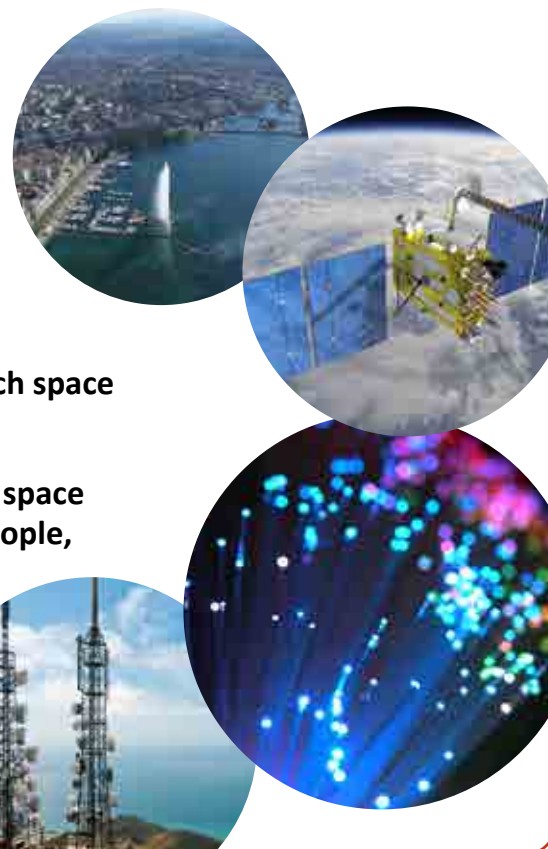
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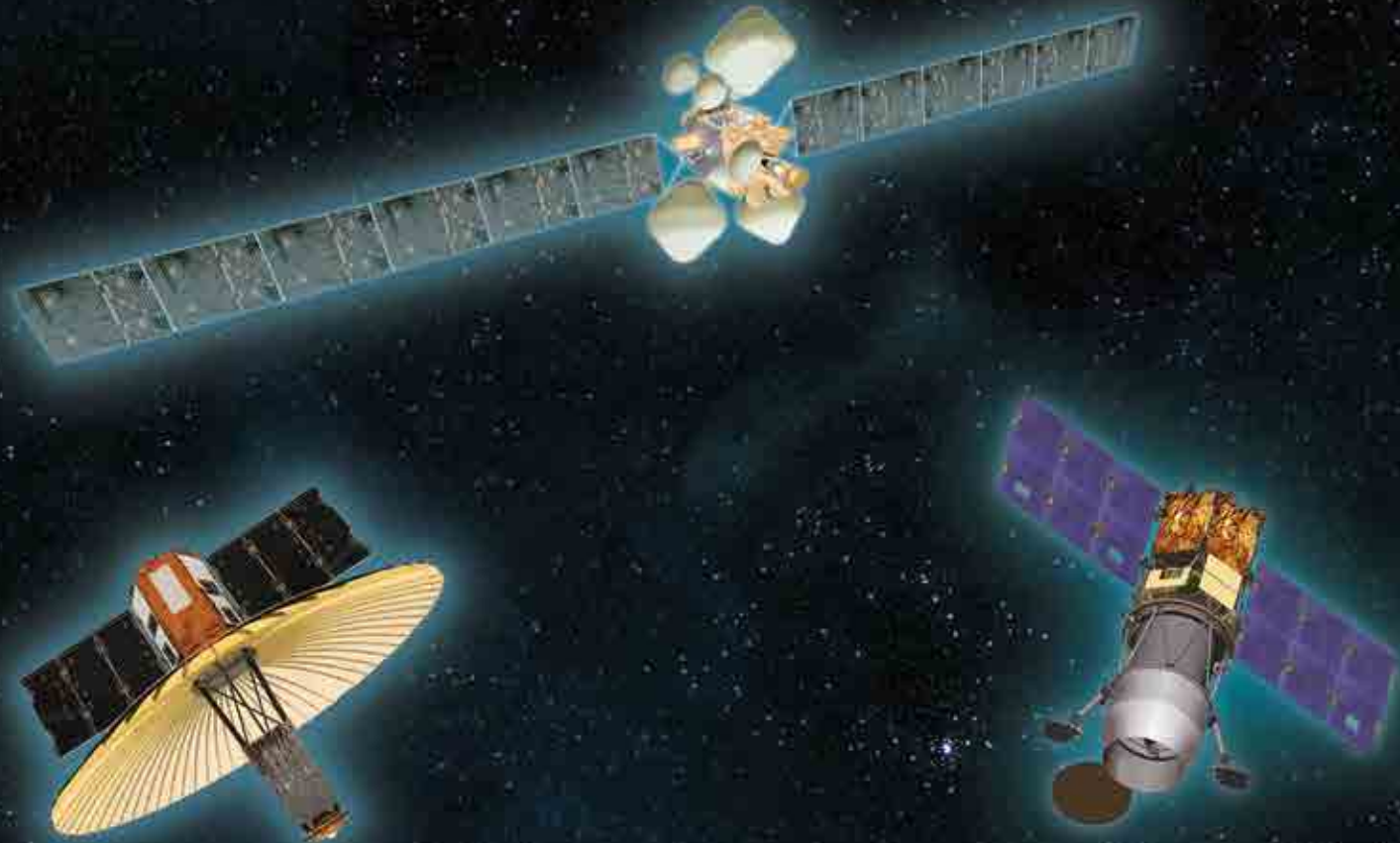
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