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HOSTED BY:



16-20 MAY 2022 | **QUITO, ECUADOR**



GLEC2022
GLOBAL CONFERENCE
ON SPACE FOR
EMERGING COUNTRIES

Space Ecosystems that bring Government, Industry and Society Together

FINAL PROGRAMME

www.glec2022.org





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GLOC 2023

IAF GLOBAL SPACE
CONFERENCE ON
CLIMATE CHANGE

23 - 25 MAY 2023 | OSLO, NORWAY



GLOC 2023 will address various topics of interest in relation to space and climate change with a specific focus on:

- Causes and Effects of Climate Change
- Possible Solutions
- Space Remote Sensing / Satellite Monitoring / Earth Observation
- Maritime Surveillance
- Intergovernmental and Interagency Actions
- Climate Change and our daily lives

www.gloc2023.org

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1 WELCOME MESSAGES

1.1 Welcome Message from IAF

I am delighted to be welcoming you to the IAF Global Conference on Space for Emerging Countries (GLEC 2022) in Quito, Ecuador! The second conference of its kind, following GLEC 2019 organized in Morocco, is designed to actively engage emerging countries in the space scene by highlighting the socio-economic benefits of space applications. GLEC 2022 is hosted by the Sideralis Foundation, an IAF member since 2019, who is dedicated to advancing and preserving the culture and knowledge in the space field, especially within the Latin American region.

Bringing together the international community under the theme “*Space Ecosystems that bring Government, Industry and Society Together*”, space leaders, experts and policy makers are converging in Quito to exchange ideas and discuss the future opportunities provided by space activities to emerging nations. A rich and comprehensive programme has been prepared for the conference and will feature stimulating plenaries and keynotes, an exhibition, a workshop on entrepreneurship and a masterclass on space policy and law, as well as numerous social events and networking opportunities.

In line with its mission to promote international development and “*Connecting @All Space People*”, the IAF truly believes in the value of involving everyone in the space arena, emerging and developed space nations alike. A future of international cooperation and development will immensely benefit the whole global space community.

I hope that GLEC 2022 will leave a lasting impact on the space activities in Latin America and contribute to new developments and partnerships. Enjoy these coming days of the conference to the fullest and seize the opportunity to also discover the captivating culture and nature of Ecuador!



Pascale EHRENFREUND
President,
International Astronautical Federation (IAF)

1.2 Welcome Message from Sideralis Foundation

Dear GLEC 2022 Attendees,

We at the Sideralis Foundation are greatly pleased to welcome all attendees, panellists, keynote speakers, and organizations participating in this year’s Global Conference on Space for Emerging Countries (GLEC 2022). Ecuador is not only a beautiful country open to receiving tourists from around the world but also an industrious nation, with the will and decision to build, develop, and create business opportunities for the region. No doubt, the space industry is one of the best options for investing time and resources, because it not only obligates us to integrate capacities and skills but connects us with the rest of the global space community.

The Sideralis Foundation is proud to be part of the organization of GLEC 2022 together with the International Astronautical Federation (IAF), and work alongside to continuously strengthen and grow the space community in Ecuador, Latin America, and the other emerging space countries. We believe a healthy and expanding space community is truly necessary to ensure the positive participation of emerging countries in the next stage of the development of our species, but furthermore, to distribute the benefits of the space industry towards its own countries, populations, and communities.

The programme of the GLEC 2022 “*Space Ecosystems that Bring Government, Industry, and Society Together*”, has been designed with the objective to present different theoretical and practical tools, experiences, and knowledge with high value for the countries with the will to step forward in the creation or development of their space industry ecosystem with its own vision and perspectives. The list of panellists, keynote speakers, and special guests is large, and it was built up balancing the gender, geography, and generational criteria. All of these result in an interesting and powerful event whose outcomes will be decisive factors in the space endeavour of the people and organizations attending. In addition, the unique networking opportunities are magnified as they are taking place in the wonderful city of Quito, surrounded by impressive colonial architecture, history, culture, and nature.

The Sideralis Foundation hopes your visit and participation in the GLEC 2022 will be pleasant and productive, but more importantly, that all participants feel that they are always welcome in Ecuador. Whether it is for business, science, development of technology, strengthening ties with colleagues, or enjoying its beautiful geography and culture, know that Ecuador and the Sideralis Foundation are always eager to welcome you with open arms.



Juan JARAMILLO ROJAS
President,
Sideralis Foundation

1.3 Welcome Message from the IPC Co-Chairs

The International Programme Committee (IPC) is pleased to welcome all attendees to the Global Conference on Space for Emerging Countries (GLEC 2022). This is the second IAF Global Conference focused on emerging countries, which represents the Federation’s concerted effort in supporting the development and integration of emerging nations into the global space community. The IAF is motivated by the firm conviction that these nations will bring important benefits to humankind, through the realisation of concrete benefits for its people, and its national and regional developmental ambitions.

The theme of GLEC 2022 is “Space Ecosystems that Bring Government, Industry, and Society Together”. The planned programme is the result of the work of a large and extraordinary list of professionals, experts, and leaders from the global space community that constituted the IPC. The IPC has designed a programme with the primary objective of presenting different theoretical frameworks, practical tools, experiences, and knowledge with significant value proposition for countries aspiring towards the creation or further development of their own local space ecosystems.

The list of panellists, keynote speakers, and special guests were specifically chosen to bring a wealth of knowledge and experience, whilst maintaining the IAF’s 3G (Geography, Gender and Generation) criteria. The result promises to be an interesting and information-packed event with a singular focus on building local and regional space ecosystems, which is especially pertinent for emerging space nations. In addition, the unique networking opportunities will be magnified given the broad cross-section of participants and the carefully selected venue that offers breath-taking views of the wonderful city of Quito, surrounded by impressive colonial architecture, history, and the inspiring merger of cultures.

The IPC hopes your visit to Ecuador and your participation in the GLEC 2022 will be pleasant and productive.



Valanathan MUNSAMI
Former Chair, IAF Committee for Developing Countries and Emerging Communities (ACDCEC), Former IAF VP Developing Countries and Emerging Nations



Juan JARAMILLO ROJAS
President, Sideralis Foundation

2 ORGANIZER AND HOST INFORMATION

2.1 International Astronautical Federation (IAF)



Founded in 1951, the International Astronautical Federation is the world’s leading space advocacy body with 433 members in 72 countries, including all leading space agencies, companies, research institutions, universities, societies, associations and institutes worldwide.

Following its theme “A space-faring world cooperating for the benefit of humanity”, the Federation advances knowledge about space, fostering the development and application of space assets by promoting global cooperation.

As organizer of the annual International Astronautical Congress (IAC) and other thematic meetings, the IAF actively encourages the development of astronautics for peaceful purposes and supports the dissemination of scientific and technical information related to space.

International Astronautical Federation (IAF)

100 Avenue de Suffren
75015 Paris
France

Phone: +33 1 45 67 42 60
Email: info@iafastro.org
Website: www.iafastro.org

Connecting @ll Space People

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2.2 Sideralis Foundation



The Sideralis Foundation is an Ecuadorian nonprofit and NGO, founded in 2019 to develop, promote, and disseminate the sciences, culture, and technology development around the integrator axis of space development. Sideralis focuses its work on children, teenagers, and young professionals, emphasizing community labor in the sectors where socio-economic conditions limit access to space and sciences knowledge.

Under the motto of “Space Access For All”, Sideralis Foundation operates with three main programs: 1) Sideranutas Program.- Education & Training on space matters.- a broad spectrum of courses, workshops, and events for different beneficiaries; 2) Space Access Program.- Designed to simplify and reduce costs to access and operate in space, intended for universities, government, companies, and entrepreneurs; and, 3) Connecting Ideas and People.- space development and industry require a permanent and intelligent scheme to share ideas, experiences, and knowledge. Emerging countries need to be connected and integrated with the rest of the global industry and academia.

Sideralis Foundation

Manuela Sáenz N11-239
170803
Quito,
Ecuador

Phone: +593 987 443 668
Email: info@sideralisfoundation.org
Website: www.sideralisfoundation.org
Instagram: SideralisFoundation
Linkedin: Sideralis Foundation

3 INTERNATIONAL PROGRAMME COMMITTEE

3.1 International Programme Committee Co-Chairs



Valanathan MUNSAMI

Former Chair, IAF Committee for Developing Countries and Emerging Communities (ACDCEC), Former IAF VP Developing Countries and Emerging Nations, South Africa



Juan JARAMILLO ROJAS

President, Sideralis Foundation, Ecuador

3.2 International Programme Committee Members

Robert AILLON
Leviathan Space Industries LLC, Ecuador

Salem AL MARRI
Mohammed Bin Rashid Space Centre (MBRSC), United Arab Emirates

Tensae ALI
Space Generation Advisory Council (SGAC), Ethiopia

Angel ARCIA
Universidad Católica Santa María La Antigua, Panama

Krystal AZELTON
Secure World Foundation (SWF), United States

Dunay BADIRKHANOV
Azercosmos, Azerbaijan

Jim BINGEN
D-Orbit, Italy

Michal BRICHTA
Slovak Space Office, Slovakia

Kammy BRUN
HEAD Aerospace, France

Matias Franciso CAMPOS ABAD
Sideralis Foundation & Astralintu, Ecuador

Erasmus CARRERA
Italian Association of Aeronautics and Astronautics (A.I.D.A.A.), Italy

Julio Cesar CASTILLO URDAPILLETA
Mexican Space Agency (AEM), Mexico

Rafael CHAVEZ
Universidad Nacional Autónoma de México (UNAM), Mexico

Liz COX
UK Space Agency, United Kingdom

Michael DAVIS
The Andy Thomas Space Foundation, Australia

Steve EISENHART
Space Foundation; IAF VP Global Networking Forum, United States

Driss EL HADANI
Centre Royal de Télé-détection Spatiale (CRTS), Morocco

Mohammed ELKOOSY
Egyptian Space Agency (EgSA), Egypt

Ahmed FARID
German Space Agency (DLR), Germany

Martha GAGGERO
Centro de Investigación y Difusión Aeronáutica Espacial (CIDA-E), Uruguay

Christina GIANNOPAPA
European Union Agency for the Space Programme (EUSPA), Czech Republic

Serdar H. YILDIRIM
Turkish Space Agency (TUA), Turkey

Christian HAUGLIE-HANSSEN
Norwegian Space Centre, Norway

Katherine HERRERA JORDAN
Guatemalan Astronomy Association, Guatemala

Chris HEWETT
Australian Space Agency, Australia

Oniosun Temidayo ISIAIAH
Space in Africa, Nigeria

Hillary KIPKOSGEY
Kenya Space Agency (KSA), Kenya

Jan KOLAR
Czech Space Office, Czech Republic

Joerg KREISEL
JKIC, Germany

Raúl KULICHEVSKY
Argentina National Space Activities Commission (CONAE), Argentina

Salvador LANDEROS AYALA
Mexican Space Agency (AEM), Mexico

Christian LANGE
Canadian Space Agency (CSA), Canada

Rodrigo LEONARDI
Brazilian Space Agency, Brazil

Andreas LINDENTHAL
Airbus Defence and Space GmbH; IAF VP Financial Matters and Industry Relations, Germany

Chuen Chern LOO
International Telecommunication Union (ITU), Switzerland

Valentina LUCHETTI
Space Generation Advisory Council (SGAC), Italy

Sergio MARCHISIO
Sapienza University of Rome; IAF General Counsel, Italy

Peter MARTINEZ
Secure World Foundation (SWF), United States

Alan MATTOS
Bolivia Space Agency, Bolivia

Daniela MERA
Sideralis Foundation, Ecuador

Ntoshane MOHLAMONYANE
South African National Space Agency (SANSA), South Africa

Xavier MOLINA
ESPE University, Ecuador

Cesar MONTAÑO
Vice-Ministry Foreign Affairs, Ecuador

Hifa MUBKI
Saudi Space Commission, Saudi Arabia

Nobu OKADA
Astroscale Holdings Inc.; IAF VP Space Economy and Sponsorship, Japan

Masami ONODA
Japan Aerospace Exploration Agency (JAXA) Washington D.C. Office, Japan

Deganit PAIKOWSKY
Hebrew University of Jerusalem; IAF VP Diversity Initiatives and Science & Academic Relations, Israel

Davide PETRILLO
Space Generation Advisory Council (SGAC); IAF VP Education and Workforce Development, Italy

Henrik PETTERSSON
Swedish Space Corporation (SSC), Sweden

Anh Tuan PHAM
Vietnam National Space Center (VNSC), Vietnam

Julio Jose PRADO
Industry and Commerce Minister, Ecuador

Minoo RATHNASABAPATHY
Massachusetts Institute of Technology (MIT), United States

Carlos RODRIGUEZ
Orbital Space, Costa Rica

Alejandro J. ROMAN M.
Paraguayan Space Agency, Paraguay

Hebe ROMERO
Paraguayan Space Agency, Paraguay

Giorgio SACCOCCIA
Italian Space Agency (ASI), Special Advisor to the IAF President (Emerging Countries), Italy

Daniel ŠAGATH
Slovak Space Office, Slovakia

Asanda SANGONI
South African National Space Agency (SANSA), South Africa

Sergey SAVELIEV
ROSCOSMOS; IAF VP Relations with International Organizations, Russian Federation

Gunter SCHREIER
German Space Agency (DLR), Germany

Mary SNITCH
Lockheed Martin Corporation (LMC); IAF VP Communications, Publications and Global Conferences, United States

Igor V. SOROKIN
S.P. Korolev Rocket and Space Corporation Energia, Russian Federation

Lionel SUCHET
Centre National d'Etudes Spatiales (CNES); IAF VP Technical Activities, France

Carlos Augusto TEIXEIRA DE MOURA
Brazilian Space Agency, Brazil

Dominique TILMANS
EURIS; IAF VP for Parliamentarian and Ministerial Relations and User Communities, Belgium

Tatiana TISCHENKO
ROSCOSMOS, Russian Federation

Anthony TSOUGRANIS
National Aeronautics and Space Administration (NASA); IAF VP Honours and Awards, United States

Peter VAN BEEKHUIZEN
Stichting Space Professionals Foundation (SSPF), Netherlands

Carlo VIBERTI
SpaceLand Africa, Mauritius

Stéphanie WAN
Space Generation Advisory Council (SGAC), United States

Danielle WOODS
Massachusetts Institute of Technology (MIT), United States

Anthony YUEN
Space Generation Advisory Council (SGAC), Australia



4 PRACTICAL INFORMATION

4.1 Conference Venue

Hilton Colón Quito Hotel

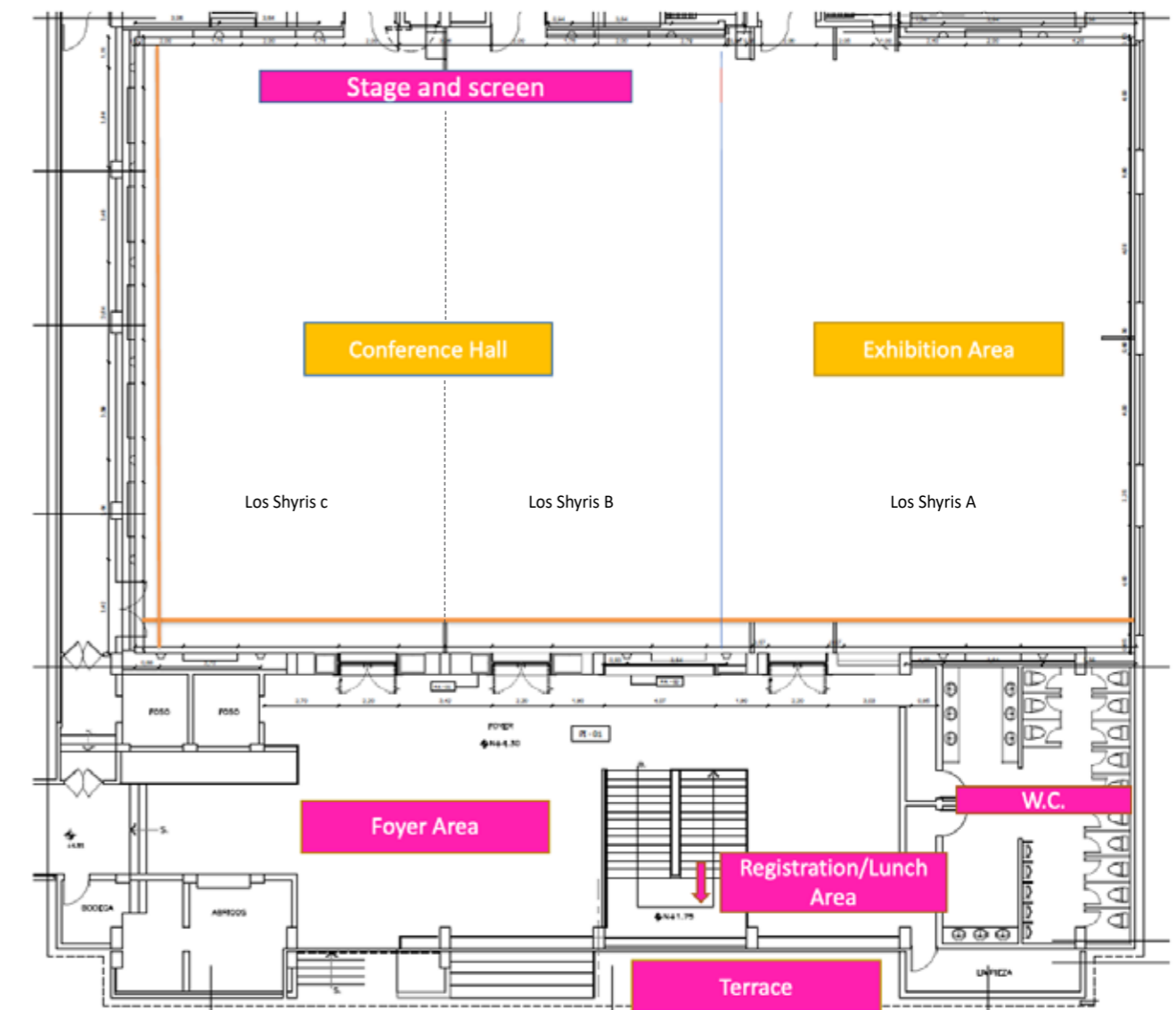
Address: Amazonas N 1914 Y Patria Avenida 1, Quito, 1701-3103, Ecuador

Set at the heart of the Mariscal Sucre district, on Quito's bustling Avenida Amazonas, Hotel Hilton Colon puts you at the heart of the city action. The Hilton Colón Quito is a 15-minute walk from the financial district, just a 10-minute walk from Quito's Colonial Historic Center, a UNESCO World Heritage Site, and a few minutes' walk from markets, museums, and El Parque Ejido. Mariscal Sucre Airport is 40 km away.

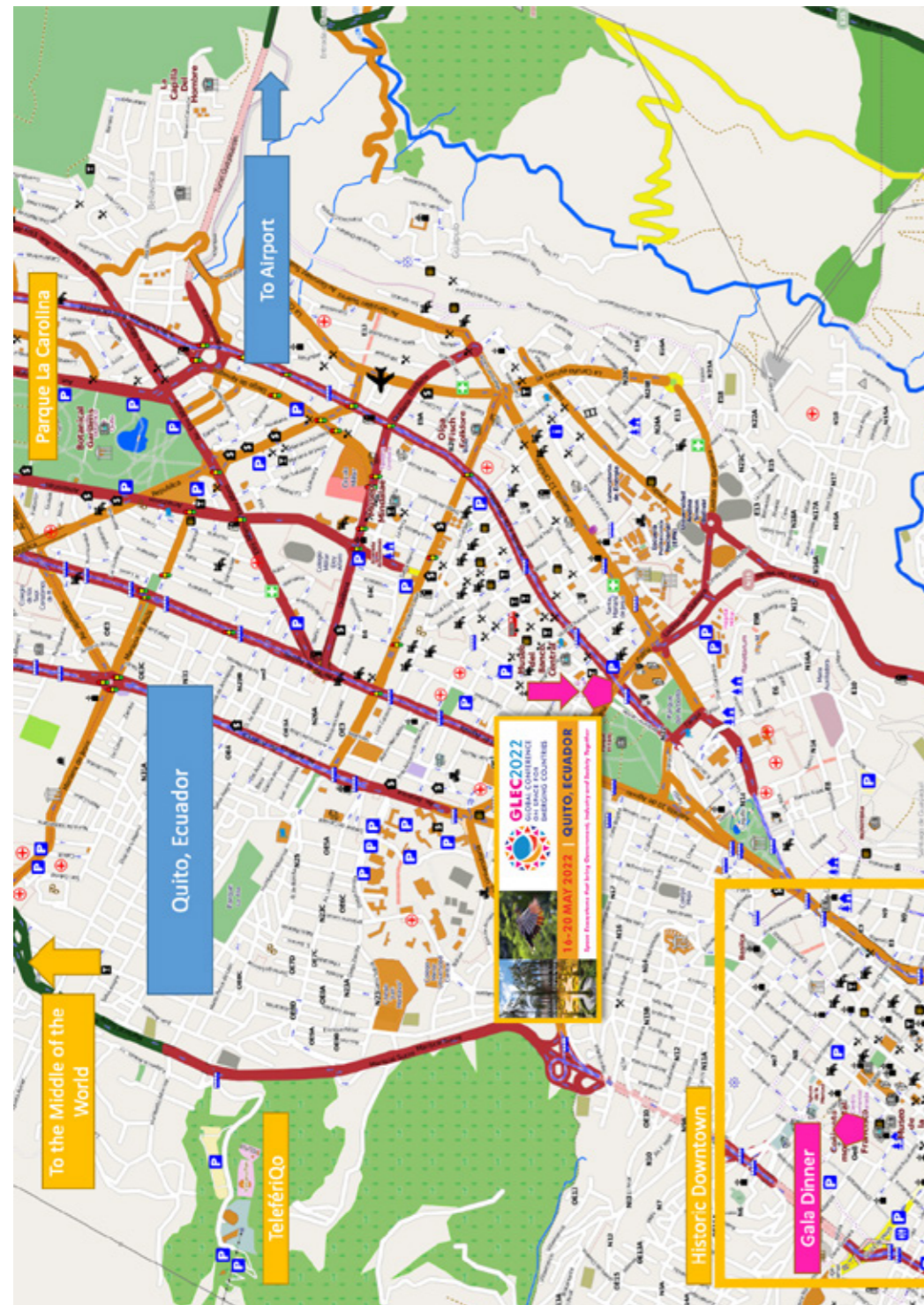


4.2 Floor Plan and Maps

Venue Floor Plan



Map of Quito, Ecuador



4.3 Registration

Opening Hours

Monday 16 May, 08:30 - 16:00
Tuesday 17 May, 08:00 - 18:00
Wednesday 18 May, 08:00 - 18:00
Thursday 19 May, 08:00 - 13:00

4.4 Useful information

About Ecuador

International Airport:

Please consult <https://www.aeropuertoquito.aero/en/>

Time Zone:

UTC -5

Transfers from Airport and Tours:

Please consult <https://pure-travelgroup.com/glec-tours-2022/>

Currency:

USD, Ecuador uses the United States Dollar as its official currency.

Capital:

Quito

Population:

Ecuador approx. 17.6 million people, Quito approx. 2 million people.

Language:

Spanish is the official language. English is not generally spoken, but it is widely spoken in touristic destinations, hotels, etc.

Tipping:

Tip at your own discretion.

Electricity:

There are two associated plug types, types A and B. Plug type A is the plug which has two flat parallel pins and plug type B is the plug which has two flat parallel pins and a grounding pin. Ecuador operates on a 120V supply voltage and 60Hz. (Same as in the USA)

Telephone:

The international direct dialing code for Ecuador is +593

Gifts and souvenirs:

For centuries, Ecuadorian crafts have been world-famous for their variety and quality. You can get them in Quito at “Mercado Artesanal” near the GLEC venue. You find it on this link: <https://goo.gl/maps/DcpsHDif42MTT25i7>

Visa:

While no foreigners need a visa to enter Ecuador for a period of 90 days, for tourism purposes, to stay in the country for a longer period, a visa must be obtained from an Ecuadorian Embassy or Consulate after complying with the requirements established by law.

The types of available non-immigrant visas, with their respective requirements, subject to admission, validity of visas, fees, and requirements for renewal, can be found below. Foreigners must submit and comply with all required documentation, without exception, to choose one of the immigration categories. requirements and how to apply for the visa: <https://www.consuladovirtual.gob.ec>

Entry Requirements & Covid-19 Vaccination

Entry to Mainland Ecuador:

Since February 11th, 2022, at 00H00. All passengers entering the country, over 3 years of age, must present in a mandatory manner one of the following options:

- 1. Complete Vaccination Proof:
 - a. A complete vaccination card with QR code (digital version in Smartphone); OR
 - b. A complete vaccination card (physical version), with at least 14 days of validity after completing the scheme.

- 2. A negative result of a real-time RT-PCR test performed up to 72 hours prior to departure to Ecuador. Children under 3 years old are exempt from the RT-PCR test or the COVID-19 vaccination certificate requirement. Any person who enters Continental Ecuador by international air must present the digital “Traveler’s Health Declaration” when boarding the plane. Click in this link: <https://declaracionsalud-viajero.msp.gob.ec/>

Entry to the Galapagos Islands:

Since February 11th, 2022, at 00H00. All passengers entering the country, over 3 years of age, must present in a mandatory manner one of the following options:

- 1. Complete Vaccination Proof:
 - a. A complete vaccination card with QR code (digital version in Smartphone); OR
 - b. A complete vaccination card (physical version), with at least 14 days of validity after completing the scheme.

- 2. A negative result of a real-time RT-PCR test performed up to 72 hours prior to departure to Ecuador. Children under 3 years old are exempt from the RT-PCR test or the COVID-19 vaccination certificate requirement. Additionally, national, or foreign tourists must present the Transit Control Card issued by the Galapagos Government Council.

Clarifications:

The only type of test authorized for entering the country is the qualitative real-time RT-PCR test.

Any person who has been diagnosed with COVID-19, and who after one month continues to obtain a positive result in the RT-PCR test, must present a medical certificate issued in the country of origin that supports their health status of not being in the contagious phase to enter Ecuador, as long as, they have an absence of symptoms.

For persons coming from countries where their vaccination protocol does not permit being vaccinated up to 6 months after being infected with COVID-19, and for this reason the person has not been vaccinated, then the person can provide their original medical certificate that demonstrates that they have previously tested positive for COVID-19, as if it were a certificate of vaccination. Additionally, for such persons, they must also present a negative RT-PCR test.

Passengers who are unable to receive the COVID-19 vaccine due to their health condition must present a medical certificate supporting this. They will also be required to submit a negative RT-PCR test.

For Ecuadorian citizens who have not yet received their vaccine and need to return to Ecuador, they will receive a unidose vaccine against COVID-19 available upon arrival.

Important Note: Many places in Ecuador require to present a complete vaccination card to enter their offices or facilities. Digital versions shown in cell phones are accepted.

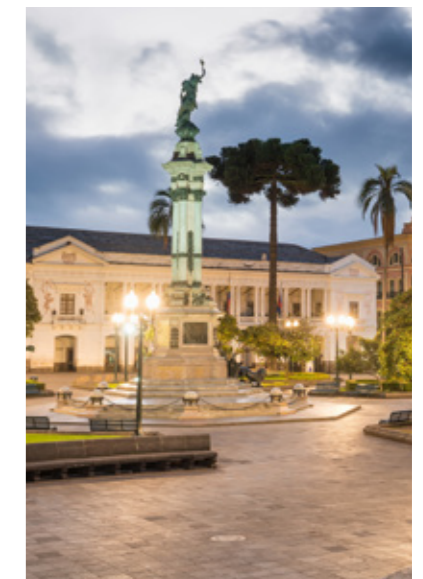
Other Vaccines:

For your safety, you are recommended to have the yellow fever vaccine.

Climate:

Because of its altitude and location on the equator, Quito has a constant cool climate. The average afternoon maximum temperature is 21.4 °C (70.5 °F), and the average night-time minimum temperature is 9.8 °C (49.6 °F). The annual average temperature is 15.6 °C (60.1 °F) The city has only two seasons: dry and wet. The dry season, June through September (4 months), is referred to as summer; the wet season, October through May (8 months), is referred to as winter. Annual precipitation, depending on location, is about 1,000 mm (39 in).

Due to its altitude, Quito receives some of the greatest solar radiation in the world, sometimes reaching a UV Index of 24 by solar noon.



5 CONFERENCE PROGRAMME

5.1 Conference at a Glance

	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
Monday 16 May		Registration	Space Industry Entrepreneurship Workshop		Lunch	Space Industry Entrepreneurship Workshop				Welcome Reception					
		Welcome Tea/Coffee Break	Space Policy and Law Masterclass			Space Policy and Law Masterclass									
Tuesday 17 May	Registration	Opening Ceremony	Exhibition Opening	Tea/Coffee Break	PE 1A – High Level Panel: The Role of Space Agencies in a Space Ecosystem	PE 1B – High Level Panel: The Role of Space Agencies in a Space Ecosystem	GLOC 2023 Presentation -Lunch	PE 2 – High Level Panel: The Role of Space Industries in a Space Ecosystem	GNF 1 - Latin American and Caribbean Space Agency (ALCE)	Tea/Coffee Break	Ministers & Members of Parliaments Forum	Press Briefing			
Wednesday 18 May	Registration	PE 3 Keynote PE 3 – Space Law and Policy	GNF 2 – Governance Risk and Compliance in the Emerging Space Ecosystem	Ice Cream Tasting Tea/Coffee Break	GNF 3 – Developing a Space Exploration Ecosystem based on International Collaboration	IAF and Club for the Future Postcards Initiative - Lunch	PE 4 Keynote PE 4 – How to Build a Space Ecosystem	PE 5 Keynote PE 5 – Co-evolution of the Space Ecosystem	Tea/Coffee Break	GNF 4 – The Gender Gap			Gala Dinner		
Thursday 19 May	Registration	PE 6 Keynote PE 6 – Space Industry Development & Support	GNF 5 – Space in Schools & the Role of Academia	Chocolate Tasting by Paccari Tea/Coffee Break	GNF 6 – Space Technology for Emerging and Developing Nations	Lunch	PE 7 Keynote PE 7 – Benefits of a Space Ecosystem Approach	GNF 7 – Latin American Culture in Space	Tea/Coffee Break	Closing Ceremony					
Friday 20 May	Cultural Visits														

5.2 Day-by-day Programme

Monday 16 May 2022

All the timings are in Ecuador time (ECT). For the latest up to date programme please consult the IAF website: <https://www.iafastro.org/events/global-series-conferences/the-global-conference-on-space-for-emerging-countries-2022/>

09:30 - 15:00 The Space Industry and Entrepreneurship Workshop

Location: Los Shyris C - Hotel Hilton Colón

09:30 - 10:00 OPENING

Organized by:



Matias CAMPOS

CEO & Founder,
Astralintu Space
Technologies,
Ecuador

SPONSOR WELCOME ADDRESS



Renato PANESI

Chief Commercial Officer,
D-Orbit SpA,
Italy

Sponsored by:



10:00 - 10:30 KEYNOTE I: SPACE INNOVATION AND ENTREPRENEURSHIP – A PERSPECTIVE FROM AUSTRALIA WITH ADRIEN DOUCET

Case Study of how Australia has been rapidly growing as an emerging Space player and a chance to solve humanity's problems via the use of Space.



Adrien DOUCET

Head of Innovation,
Fleet Space Technologies,
Australia

10:30 - 11:30 INTERACTIVE WORKSHOP: DISTRIBUTED MISSION OPERATIONS OF SATELLITE FLEETS AND CONSTELLATIONS

This interactive workshop will demonstrate the integration of new assets, focusing on Astralintu's new Ground Station in Quito, that will be made available for use through the D-Orbit Aurora distributed network. Showing how Emerging Space Countries can collaborate with established space actors and take part in the growing demand for space communications. It will showcase the operations of a fleet of spacecraft, D-Orbit's own ION fleet, and demonstrate the ability to develop bespoke components that can be made available through the marketplace being created and monetized in the New Space community.



Matias CAMPOS

CEO & Founder,
Astralintu Space
Technologies,
Ecuador



Bruno CARVALHO

Director,
D-Orbit Portugal,
Portugal

11:30 - 12:00 KEYNOTE II: INVESTMENT & FUNDING FOR SPACE START-UPS WITH RICHARD JOYE

Case Study of how to build, invest and grow a New Space company. Lessons learned from experience, a realistic picture.



Richard JOYE

Managing Director for
Europe and Asia;
Founding Partner,
KEY CAPITAL HONG KONG
(KCHK),
Sideralis Foundation,
Ecuador

13:00 - 13:45 PANEL I: INVESTMENT & ENTREPRENEURSHIP HIGH LEVEL PANEL

High level panel with experts and leaders in the Space sector. Sharing entrepreneurial experiences and best practices in creating new ventures and funding the next NewSpacecompanies and startups for Ecuador.

Speakers:



Michal BRICHTA

Head,
Slovak Investment and
Trade Development
Agency (SARIO) - Slovak
Space Office,
Slovakia



Elżbieta JABŁOŃSKA

Entrepreneur, Mentor,
Advisor, Executive Coach,
Poland



Richard JOYE

Managing Director for
Europe and Asia;
Founding Partner,
KEY CAPITAL HONG KONG
(KCHK),
Sideralis Foundation,
Ecuador



Joerg KREISEL
CEO,
JKIC,
Germany



Renato PANESI
Chief Commercial Officer,
D-Orbit SpA,
Italy



Matthew TRAVIS
President and COO,
Aphelion Aerospace,
United States



Katherinne HERRERA JORDAN
President & Co-Founder,
Guatemalan Association
of Space Sciences and
Engineering (AGICE),
Guatemala



Carlos MARISCAL
CEO,
Dereum Labs S.A. de C.V.,
Mexico



José MEDINA BOSLEMAN
Founder and Director,
Space Latam,
Argentina



MODERATOR
Valanathan MUNSAMI
GLEC 2022 IPC Co-Chair,
Chancellor
International Space
University (ISU),
South Africa



Carlos RODRIGUEZ
Chief Operating Officer,
Orbital Space Technologies,
Costa Rica



MODERATOR
Daniela MERA
Vice-President and
Marketing Director,
Sideralis Foundation,
Ecuador

13:45 - 14:15 KEYNOTE III: SPACE – A PLAYGROUND FOR ENTREPRENEURS? – MYTH, REALITY AND OUTLOOK WITH JOERG KREISEL

Case Study of how to build, invest and grow a New Space company. Lessons learned from experience, a realistic picture.

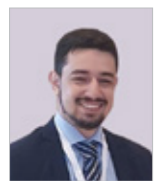


Joerg KREISEL
CEO,
JKIC,
Germany

14:15 - 15:00 LATIN AMERICA NEW SPACE PANEL

Panel with the current next generation of space entrepreneurs that are bringing New Space to Latin America. Intervenants from DereumLabs, Mexico, Orbital Space Technologies, Costa Rica, Astralintu Space Technologies, Ecuador, Asociación Guatemalteca de Ingeniería y Ciencias Espaciales, Guatemala.

Speakers:



Victor BAPTISTA
Chief Operating Officer,
Ideia Space,
Brazil



Moses Browne MWAKYANJALA
Founder and CEO,
Remos Space Systems AB,
Sweden



Matias CAMPOS
CEO & Founder,
Astralintu Space
Technologies,
Ecuador

10:00 - 15:00 Space Policy and Law Masterclass

Location: Los Shyris B - Hotel Hilton Colón

The Space Policy and Law Masterclass is expected to spur conversations, create interest in and appreciation for space law and policy in emerging space countries. The Masterclass is also expected to initiate discussions on the international space policies, legislation and laws that emerging space countries could consider for ratification and/or domestication to guide and support the growth of their nascent space industry.

Amongst the topics that will be tackled during this Masterclass are:

- How to better create awareness on the need for national/regional space legislation to ensure that space activities are conducted in accordance with international obligations?
- Understanding how space policy and legislation could drive space economy and foster innovation.
- The evolution of space applications. Legal challenges for emerging space countries.
- Legal governance of outer space activities and emerging space countries. Looking ahead towards Space2030.
- Highlighting the relevance of space law and policy for developing space ecosystems in Africa.
- Financing space activities in emerging space countries: existing legal options.

The results of the Masterclass, as well as further considerations on the legal and policy aspects of space activities for emerging countries, will be highlighted during the subsequent Plenary session on Space Law and Policy that will be held on Wednesday 18 May 2022.

10:00 - 10:05 OPENING

Master of Ceremony



Sergio MARCHISIO
Full Professor of International
Law,
Sapienza University of Rome,
Italy

Masterclass Rapporteur



Anne-Sophie MARTIN
Post-Doctoral Research Fellow
in International and Space Law,
Sapienza University of Rome,
Italy

10:05 - 10:20 KEYNOTE: BRINGING THE BENEFITS OF SPACE TO EMERGING SPACE COUNTRIES



Sergio MARCHISIO
Full Professor of International Law,
Sapienza University of Rome,
Italy

10:20 - 11:10 ROUNDTABLE: ADDRESSING LEGAL AND POLICY ELEMENTS FOR ESTABLISHING SPACE ECOSYSTEMS IN EMERGING COUNTRIES

Speakers:



Gabriella ARRIGO
Director, International Affairs Directorate,
Italian Space Agency (ASI),
Italy



Chuen Chern LOO
Head, Space Publication and Registration Division,
Radiocommunication Bureau,
International Telecommunication Union (ITU),
Switzerland



Marlène Michèle LOSIER
Principal,
Losier González,
PLLC,
United States



Peter MARTINEZ
Executive Director,
Secure World Foundation (SWF),
United States



Steve MIRMINA
Senior Attorney,
Office of the General Counsel,
National Aeronautics and Space Administration (NASA),
United States



MODERATOR
Sergio MARCHISIO
Full Professor of International Law,
Sapienza University of Rome,
Italy

11:10 - 12:00 WORKSHOP: SHARING EXPERIENCES AND PRACTICES ON SPACE GOVERNANCE AND LAW IN EMERGING COUNTRIES - PART I

Speakers:



Ludovica CIARRAVANO
Research Fellow in Space Law,
Sapienza University of Rome,
Italy



Charles MWANGI
Director Space Sector and Technology Development,
Kenya Space Agency (KSA),
Kenya



Daniel PEÑAHERRERA
Senior Lawyer,
Abad&Campos Abogados,
Ecuador



Tatiana RIBEIRO VIANA
Scientific Technical Secretary,
Italo-Latin American International Organization,
Italy



Hebe ROMERO
General Director of Legal and International Affairs,
Paraguayan Space Agency,
Paraguay



MODERATOR
Sergio MARCHISIO
Full Professor of International Law,
Sapienza University of Rome,
Italy

13:00 - 13:50 WORKSHOP: SHARING EXPERIENCES AND PRACTICES ON SPACE GOVERNANCE AND LAW IN EMERGING COUNTRIES - PART II

Speakers:



Carolina CATANI
Responsable Derecho Espacial,
Comisión Nacional de Actividades Espaciales (CONAE),
Argentina



Ian GROSNER
Federal Attorney,
Brazilian Space Agency (AEB),
Brazil



Melanie MAJUMA MUNYORI
Legal Officer,
Kenya Space Agency (KSA),
Kenya



Gianfranco Gabriele NUCERA
Researcher in International and Space Law,
Sapienza University of Rome,
Italy



MODERATOR
Sergio MARCHISIO
Full Professor of International Law,
Sapienza University of Rome,
Italy

13:50 - 15:00 PANEL: HOW TO BETTER CREATE AWARENESS OF THE NEED FOR LEGISLATION AND POLICIES TO DRIVE SPACE ECONOMY AND FOSTER INNOVATION

Speakers:



Pierfrancesco BRECCIA
Post-Doctoral Research Fellow in International and Space Law,
Sapienza University of Rome,
Italy



Michelle HANLON
Co-Director, Center for Air and Space Law,
University of Mississippi,
United States



João Paulo RODRIGUES CAMPOS
President & CEO,
Visiona Space Technology,
Brazil



MODERATOR
Sergio MARCHISIO
Full Professor of International Law,
Sapienza University of Rome,
Italy

15:00 CLOSING REMARKS

17:00 - 19:00 Welcome Reception

Location: Pool Area, Hotel Hilton Colón

Tuesday 17 May 2022

09:00 - 10:00 Opening Ceremony

Location: Los Shyris BC - Hotel Hilton Colón

Master of Ceremony



Christian FEICHTINGER
Executive Director,
International Astronautical
Federation (IAF),
France

Speakers:



Pascale EHRENFREUND
President,
International Astronautical
Federation (IAF),
France



Luis VAYAS VALDIVIESO
Vice Minister of Foreign
Affairs,
Ministry of Foreign Affairs and
Human Mobility,
Ecuador



Juan JARAMILLO ROJAS
President,
Sideralis Foundation,
Ecuador



Giorgio SACCOCCIA
Special Advisor to President
(ISF & Developing Countries
and Emerging Nations,
ACDCEC),
International Astronautical
Federation (IAF)
President,
Italian Space Agency (ASI),
Italy



Valanathan MUNSAMI
GLEC 2022 IPC Co-Chair,
Chancellor,
International Space
University (ISU),
South Africa

10:00 - 10:30 Exhibition Opening

Location: Los Shyris A - Hotel Hilton Colón

10:30 - 11:00 Tea/Coffee Break

Location: Los Shyris A - Hotel Hilton Colón

11:00 - 12:00 PLENARY 1 A: High Level Panel: The Role Of Space Agencies In A Space Ecosystem



Location: Los Shyris BC - Hotel Hilton Colón

Speakers:



Luis M. ALFARO
President and CEO,
El Salvador Aerospace
Institute,
El Salvador



Fuad ASLANOV
Vice-Chairman,
Azercosmos Space Agency of
the Republic of Azerbaijan,
Azerbaijan



Christian HAUGLIE-HANSEN
Director General,
Norwegian Space Agency,
Norway



Salvador LANDEROS
Director General,
Mexican Space Agency
(AEM),
Mexico



Anthony TSOUGRANIS
Europe Team Lead,
National Aeronautics and
Space Administration (NASA),
United States



Grzegorz WROCHNA
President,
Polish Space Agency
(POLSA),
Poland



Pilar ZAMORA ACEVEDO
Executive Director,
Colombian Space Agency
(AEC),
Colombia



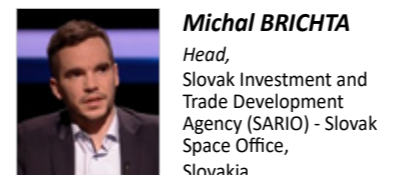
MODERATOR
Pascale EHRENFREUND
President,
International Astronautical
Federation (IAF),
France

12:00 - 13:00 PLENARY 1 B: High Level Panel: The Role Of Space Agencies In A Space Ecosystem



Location: Los Shyris BC - Hotel Hilton Colón

Speakers:



Michal BRICHTA
Head,
Slovak Investment and
Trade Development
Agency (SARIO) - Slovak
Space Office,
Slovakia



Guillermo SALVATIERRA
Member of the Board of
Directors,
Comisión Nacional de
Actividades Espaciales
(CONAE),
Argentina



MARY PREVILLE
Vice President Space
Program Policy,
Canadian Space Agency
(CSA),
Canada



Giorgio SACCOCCIA
President,
Italian Space Agency (ASI),
Italy



Carlos Augusto TEIXEIRA DE MOURA
President,
Brazilian Space Agency (AEB),
Brazil



Serdar Hüseyin YILDIRIM
President,
Turkish Space Agency (TUA),
Turkey



MODERATOR
Steve EISENHART
Senior Vice President,
Space Foundation,
United States

13:00 - 14:00 GLOC 2023 Presentation Luncheon

Location: Bartolomé - Hotel Hilton Colón

Sponsored by:



14:00 - 15:10 PLENARY 2: High Level Panel: The Role of Space Industries In A Space Ecosystem



Location: Los Shyris BC - Hotel Hilton Colón

Speakers:



Matias CAMPOS
CEO & Founder,
Astralintu Space
Technologies,
Ecuador



Bruno CARVALHO
Director,
D-Orbit Portugal,
Portugal



Christopher GEIGER
Internal Audit Director,
Lockheed Martin
Corporation,
United States



Vincenzo GIORGIO
Vice President Institutional
Marketing & Sales,
Thales Alenia Space Italia,
CEO,
ALTEC,
Italy



Joerg KREISEL
CEO,
JKIC,
Germany



John ROTH
Vice President, Business
Development,
Sierra Space,
United States



Wei SUN
President of International
Business,
HEAD Aerospace Group
(HEAD),
United Kingdom



MODERATOR
Clay MOWRY
Chief Revenue Officer,
Voyager Space Holdings,
Incoming President,
International Astronautical
Federation (IAF),
United States

15:20 - 16:20 IAF GNF SESSION: Latin American And Caribbean Space Agency



Location: Los Shyris BC - Hotel Hilton Colón

Speakers:



Gustavo A. CABRERA RODRIGUEZ
Mexican Ambassador to the
Latin American and Caribbean
Space Agency (ALCE),
Mexico



Verónica GÓMEZ RICAURTE
Regional Integration Director,
Ministry of Foreign Affairs of
Ecuador,
Ecuador



Marianella GUZMAN
International Officer,
Responsible for
Telecommunications
and Electrical
Interconnection, General
Secretariat of the Andean
Community,
Peru



Salvador LANDEROS
Director General,
Mexican Space Agency
(AEM),
Mexico



Alejandro J. ROMAN MOLINAS
General Director of Aerospace
Development,
Paraguayan Space Agency,
Paraguay



Guillermo SALVATIERRA
Member of the Board of
Directors,
Comisión Nacional de
Actividades Espaciales
(CONAE),
Argentina



MODERATOR
Valanathan MUNSAMI
GLEC 2022 IPC Co-Chair,
Chancellor
International Space
University (ISU),
South Africa

16:20 - 16:45 Tea/Coffee Break

Location: Los Shyris A - Hotel Hilton Colón

16:50 - 17:50 Ministers And Members Of Parliaments Forum

Speakers:



Jesús Roberto BRIANO BORUNDA
Member of Parliament,
Cameras Dos Deputaos
Mexico



Gustavo A. CABRERA RODRIGUEZ
Mexican Ambassador to the
Latin American and Caribbean
Space Agency (ALCE),
Mexico



Manuel Asuncion MEDINA QUIZHPE
President of the Comisión
de Educación, Cultura,
Ciencia, Tecnología,
Innovación y Saberes
Ancestrales,
Ecuador



Marianella GUZMAN
International Officer,
Responsible for
Telecommunications and
Electrical Interconnection,
General Secretariat of the
Andean Community,
Peru



Raivo TAMM
Member of Parliament,
Riigikogu - The Parliament of
the Republic of Estonia,
Estonia



Zeynep YILDIZ
National Education,
Culture, Youth and Sports
Commission Member
Digital Media Commission
Spokesperson,
The Grand National
Assembly of Turkey,
Turkey



Klaus-Peter WILLSCH
Chairperson, Aerospace Group,
Deutscher Bundestag,
Germany



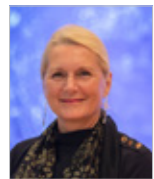
CO-CHAIRS
Vianna MAINO
Minister of
Telecommunication of
Ecuador,
Ecuador



CO-CHAIRS
Dominique TILMANS
VP: Parliamentarian and
Ministerial Relations and User
Communities,
International Astronautical
Federation (IAF),
Belgium

18:00 - 18:30 Press Conference

Speakers:



Pascale EHRENFREUND
President,
International Astronautical
Federation (IAF),
France



Juan JARAMILLO ROJAS
President,
Sideralis Foundation,
Ecuador



Vianna MAINO
Minister of
Telecommunication of
Ecuador,
Ecuador



Clay MOWRY
Incoming President,
International Astronautical
Federation (IAF),
Chief Revenue Officer,
Voyager Space Holdings,
United States



MODERATOR
Christian FEICHTINGER
Executive Director,
International Astronautical
Federation (IAF),
France

Wednesday 18 May 2022

09:00 - 10:10 PLENARY 3: Space Law And Policy



Location: Los Shyris BC - Hotel Hilton Colón

Given the nature of the space industry and its actual global development, especially in respect of (i) the new space, (ii) dual-use technologies and industrial development, (iii) the United Nations (UN) Treaties and Conventions, and (iv) national space law that is needed to govern the use of outer space; legal and policy considerations must be given to these important factors. Emerging countries are not necessarily familiar with this domain, and these can easily be ignored in the establishment phase of national or regional space programs. The Session focus will be on:

- a. Understanding the “new space”, the importance of the participation of the private sector in the space industry, the importance of the appropriate policy and law to develop an adequate environment.
- b. Understanding the key policy drivers for the space ecosystem and the use of a national space program and space policies to achieve a new source of wealth and quality of life.
- c. Highlighting the relevance of UN Treaties and Conventions applied to the development of new space, the space industry, and space ecosystems.
- d. Creating awareness on the need for national/regional space legislation to ensure space industry and activities are conducted in accordance with UN treaties and that these are integrated into the global space community.

Speakers:



Michelle HANLON
Co-Director, Center for Air and
Space Law,
University of Mississippi,
United States



Chuen Chern LOO
Head, Space Publication
and Registration Division,
Radiocommunication Bureau,
International
Telecommunication Union
(ITU),
Switzerland



Marlène Michèle LOSIER
Principal,
Losier González, PLLC,
United States



Steve MIRMINA
Senior Attorney,
Office of the General Counsel,
National Aeronautics and
Space Administration (NASA),
United States



Daniel PEÑAHERRERA
Senior Lawyer,
Abad&Campos Abogados,
Ecuador



**João Paulo RODRIGUES
CAMPOS**
President & CEO,
Visiona Space Technology,
Brazil



Hebe ROMERO
General Director of Legal and
International Affairs,
Paraguayan Space Agency,
Paraguay



Tatiana RIBEIRO VIANA
Scientific Technical Secretary,
Italo-Latin American
International Organization,
Italy



MODERATOR
Sergio MARCHISIO
Full Professor of International
Law,
Sapienza University of Rome,
Italy

10:20 - 11:20 IAF GNF SESSION: Governance Risk and Compliance In The Emerging Space Ecosystem



Location: Los Shyris BC - Hotel Hilton Colón

Speakers:



Christian HAUGLIE-HANSEN
Director General,
Norwegian Space Agency,
Norway



Marchel HOLLE
US Government Affairs Lead,
ispace technologies US,
United States



Salvador LANDEROS
Director General,
Mexican Space Agency
(AEM),
Mexico



José MEDINA BOSLEMAN
Founder and Director,
Space Latam,
Argentina



Clay MOWRY
Chief Revenue Officer,
Voyager Space Holdings,
Incoming President,
International Astronautical
Federation (IAF),
United States



Hebe ROMERO
General Director of Legal and
International Affairs,
Paraguayan Space Agency,
Paraguay



Cristiano Augusto TREIN
Director of the Space
Sector Governance,
Brazilian Space Agency
(AEB),
Brazil



MODERATOR
Christopher GEIGER
Internal Audit Director,
Lockheed Martin
Corporation,
United States

11:20 - 12:50 Ice Cream Tasting at Astralintu Booth

Location: Los Shyris A - Hotel Hilton Colón

Organized by:



11:20 - 11:50 Tea/Coffee Break

Location: Los Shyris A - Hotel Hilton Colón

11:50 - 12:50 IAF GNF SESSION: Developing A Space Exploration Ecosystem Based On International Collaboration



Location: Los Shyris BC - Hotel Hilton Colón

Sponsored by:



Speakers:



Gustavo A. CABRERA RODRIGUEZ
Mexican Ambassador to
the Latin American and
Caribbean Space Agency
(ALCE),
Mexico



Pascale EHRENFREUND
President,
International Astronautical
Federation (IAF),
France



Bernard FOING
Executive Director,
International Lunar
Exploration Working
Group (ILEWG),
EuroMoonMars,
Netherlands



Salvador LANDEROS
Director General,
Mexican Space Agency
(AEM),
Mexico



Carlos MARISCAL
CEO,
Dereum Labs S.A. de C.V.,
Mexico



Charles MWANGI
Director Space Sector and
Technology Development,
Kenya Space Agency (KSA),
Kenya



Anthony TSOUGRANIS
Europe Team Lead,
National Aeronautics and
Space Administration (NASA),
United States



MODERATOR
Pierre-Alexis JOMEL
Director International & New
Business, Space Systems,
Airbus Defence and Space
GmbH,
Germany

13:00 - 14:00 IAF And The Club for the Future Postcards Initiative Luncheon

Location: Bartolomé - Hotel Hilton Colón

Organized by:



14:00 - 15:10 PLENARY 4: How To Build a Space Ecosystem



Location: Los Shyris BC - Hotel Hilton Colón

Whilst an understanding of the key elements of a space ecosystem is vital, it is also important to understand how a country or region goes about establishing such an ecosystem and the resource requirements needed for such an undertaking. The planning and initial implementation phase is critical, as it determines the long-term sustainability and robustness of a national or regional space ecosystem. Getting this phase wrong could mean long-term adverse impacts in correcting shortcomings in the establishment phase. The session will focus on:

- Understanding the framework that could be used in developing a national or regional space ecosystem and how this intersect with other sectors of the economy.
- Sharing knowledge and learning of alternative financial models adopted in other countries or regions in establishing space ecosystems.
- Identifying the base infrastructure required for developing an efficient and effective space ecosystem.
- Grasping the role played by academia in developing the requisite knowledge and skills required for establishing a space ecosystem.

Speakers:



Gabriella ARRIGO
Director, International Affairs Directorate, Italian Space Agency (ASI), Italy



Greg AUTRY
Professor, Thunderbird School of Global Management, Professor, Imperial College London, United States



Michal BRICHTA
Head, Slovak Investment and Trade Development Agency (SARIO) - Slovak Space Office, Slovakia



Carlos Julio EMANUEL
Board Member, Leviathan Space Industries and Former Finance Minister of Ecuador, Ecuador



Ian GROSNER
Federal Attorney, Brazilian Space Agency (AEB), Brazil



Natavan HASANOVA
Strategic Development and Planning Director, Azercosmos Space Agency of the Republic of Azerbaijan, Azerbaijan



Guillermo SALVATIERRA
Member of the Board of Directors, Comisión Nacional de Actividades Espaciales (CONAE), Argentina



KEYNOTE SPEAKER
Valanathan MUNSAMI
GLEC 2022 IPC Co-Chair, Chancellor International Space University (ISU), South Africa



MODERATOR
Peter MARTINEZ
Executive Director, Secure World Foundation (SWF), United States

15:20 - 16:30 PLENARY 5: Co-Evolution Of The Space Ecosystem



Location: Los Shyris BC - Hotel Hilton Colón

A space ecosystem is not a static environment but is rather a dynamic and constantly evolving system. It is imperative to understand the different stages of the evolving system and what is required for each of these stages so that proper planning and implementation can be appropriately instituted. In addition, the governance architecture needs to keep in step with the evolving landscape to ensure proper oversight and resourcing. The session will focus on:

- Understanding the different stages of an evolving space ecosystem and what underpins each of these stages.
- Understanding the different and changing business models and macro structure that aligns to the changing space ecosystem.
- Understanding the skills development strategy and the role of government, industry and academia in the context of a changing ecosystem.
- Understanding the evolution of private space sector institutions from the start-up phase to the fully operational phase into the maturity phase.

Speakers:



Natavan HASANOVA
Strategic Development and Planning Director, Azercosmos Space Agency of the Republic of Azerbaijan, Azerbaijan



Charles MWANGI
Director, Space Sector and Technology Development, Kenya Space Agency (KSA), Kenya



Danilo SAKAY
Senior Space Project Analyst, Brazilian Space Agency (AEB), Brazil



Armengol TORRES
Vice President of Coordination and Education, World Space Week Association, Spain



KEYNOTE SPEAKER
Salvador LANDEROS
Director General, Mexican Space Agency (AEM), Mexico



MODERATOR
Masami ONODA
Director, Washington D.C. Office, Japan Aerospace Exploration Agency (JAXA), United States

16:30 - 17:00 Tea/Coffee Break

Location: Los Shyris A - Hotel Hilton Colón

17:00 - 18:00 IAF GNF SESSION: The Gender Gap



Location: Los Shyris BC - Hotel Hilton Colón

Gender parity within a space ecosystem is critical for ensuring that equal opportunities are provided to all people, and this GNF will explore how a level playing field with targeted initiatives can be created and implemented.

Speakers:



María Fernanda DEL BARCO
Co-Founder and Vice President, Women in Aerospace Costa Rica, Costa Rica



Pascale EHRENFREUND
President, International Astronautical Federation (IAF), France



Natavan HASANOVA
Strategic Development and Planning Director, Azercosmos Space Agency of the Republic of Azerbaijan, Azerbaijan



Katherine HERRERA JORDAN
President & Co-Founder,
Guatemalan Association
of Space Sciences and
Engineering (AGICE),
Guatemala



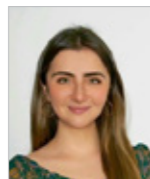
Masami ONODA
Director, Washington D.C.
Office,
Japan Aerospace Exploration
Agency (JAXA),
United States



MARY PREVILE
Vice President Space
Program Policy,
Canadian Space Agency
(CSA),
Canada



Dominique TILMANS
VP: Parliamentarian and
Ministerial Relations and User
Communities,
International Astronautical
Federation (IAF),
President,
EURISY,
Belgium



MODERATOR
Daniela MERA
Vice-President and
Marketing Director,
Sideralis Foundation,
Ecuador

19:30 - 23:00 Gala Dinner

Location: Iglesia de San Francisco

The first bus destined to take Gala Dinner attendees to its venue will be arriving at Hotel Hilton Colon's main entry at 6:45 pm and will leave at 7 pm.



Thursday 19 May 2022

09:00 - 10:10 PLENARY 6: Space Industry Development & Support



Location: Los Shyris BC - Hotel Hilton Colón

Recent developments in the global space sector demonstrate an increasing role played by the space industry and private sector institutions, including a plethora of new start-ups, referred to as new space. This underscores the need for a space industry as an important segment of the space value chain, especially where there is a move for space agencies to support space initiatives by the local industry. Traditionally agencies tend to focus on mitigating risks, whereas the industry is focused on driving down costs and pushing the boundaries for innovation. The Session focus will be on:

- a. Understanding the instruments used to develop, stimulate and grow the space industry within a space ecosystem.
- b. Appreciating how industry can self-organise to maximise on opportunities and deliver maximum impact along the space value chain.
- c. Understanding the agency-industry interface and how this relationship can be used to the benefit of national and regional priorities.
- d. Understanding the need for added measures to ensure the long-term sustainability of space to reinforce a culture geared towards the responsible use of outer space and its resources.

Speakers:



James CAUSEY
Managing Partner, CWSP
International, Executive
Director,
Global Spaceport Alliance,
United States



Vincenzo GIORGIO
Vice President Institutional
Marketing & Sales,
Thales Alenia Space Italia,
ALTEC,
Italy



Henrik PETERSSON
Vice President of Business
Development, Science &
Launch Services,
Swedish Space Corporation
(SSC),
Sweden



Carlos RODRIGUEZ
Chief Operating Officer,
Orbital Space Technologies,
Costa Rica



John ROTH
Vice President, Business
Development,
Sierra Space,
United States



Pieter VAN BEEKHUIZEN
Treasurer,
Stichting Space
Professionals Foundation
(SSPF),
Vice Chair,
IAF CLIODN,
Netherlands



MODERATOR
Matias CAMPOS
CEO & Founder,
Astralintu Space
Technologies,
Ecuador

10:20 - 11:20 IAF GNF SESSION: Space In Schools & The Role Of Academia



Location: Los Shyris BC - Hotel Hilton Colón

Outreach and education at school levels is central to creating the interest that fuels the future workforce for a space ecosystem, and this GNF will highlight some of the interventions that are currently being implemented. Academia is central for skills development and knowledge production that can be absorbed into a space ecosystem, and this GNF aims to unpack the positioning of academia within this ecosystem.

Speakers:



Angel ARCIA GIL
Professor and Researcher,
Universidad Santa Maria la Antigua,
Space generation Advisory Council (SGAC),
Panama



Gregg CANNADY
D.M.A, Collaboration and Concept Development,
STEM School Highlands Ranch,
United States



Erasmo CARRERA
Professor of Aeronautics and Astronautics,
Politecnico di Torino,
Italy



Gustavo MEDINA TANCO
Professor,
Universidad Nacional Autónoma de México (UNAM),
Mexico



Diego Paul SANCHEZ LANA
Senior Research Associate,
Colorado Center for Astrodynamics Research,
University of Colorado,
United States



Dominique TILMANS
VP: Parliamentarian and Ministerial Relations and User Communities,
International Astronautical Federation (IAF),
President,
EURISY,
Belgium



Armengol TORRES
Vice President of Coordination and Education,
World Space Week Association,
Spain



MODERATOR
Pascale EHRENFREUND
President,
International Space University (ISU),
France

11:20 - 12:05 Chocolate Tasting Event By Paccari

Location: Los Shyris BC - Hotel Hilton Colón

Organized by:



11:20 - 12:05 Tea/Coffee Break

Location: Los Shyris A - Hotel Hilton Colón

12:10 - 13:10 IAF GNF SESSION: Space Technology For Emerging Countries



Location: Los Shyris BC - Hotel Hilton Colón

The panel will focus on different applications of space technology and will showcase examples of the use of space technology, data and applications in support of sustainable economic, social and environmental development, and how countries have worked together to enable international cooperation to enable the space applications. The panel will showcase examples of the use of space data, applications and technology for socio-economic benefits of programmes like UNOOSA flagship Access to Space For All, Copernicus and E-GNSS, SERVIR and ARSET[JDRV1] will be showcased. Senior panelists will explore the different topics, share lessons learned and explore space-related opportunities.

The structure of the panel will take the form of short introductory presentations from the panelists followed by a moderated panel discussion.

This session is organized by



Speakers:



Fuad ASLANOV
Vice-Chairman,
Azercosmos Space Agency of the Republic of Azerbaijan,
Azerbaijan



Gustavo A. CABRERA RODRIGUEZ
Mexican Ambassador to the Latin American and Caribbean Space Agency (ALCE),
Mexico



Verónica GÓMEZ RICAURTE
Regional Integration Director,
Ministry of Foreign Affairs of Ecuador,
Ecuador



Hazuki MORI
Expert, Space Application Section,
United Nations Office for Outer Space Affairs (UNOOSA),
Austria



Masami ONODA
Director, Washington D.C. Office,
Japan Aerospace Exploration Agency (JAXA),
United States



Danilo SAKAY
Senior Space Project Analyst,
Brazilian Space Agency (AEB),
Brazil



MODERATOR
Pieter VAN BEEKHUIZEN
Treasurer,
Stichting Space Professionals Foundation (SSPF),
Vice Chair,
IAF CLIODN,
Netherlands

13:10 - 14:00 Luncheon

Location: Bartolomé - Hotel Hilton Colón

14:00 - 15:10 PLENARY 7: Benefits Of A Space Ecosystem Approach

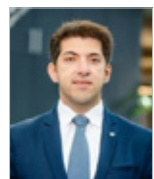


Location: Los Shyris BC - Hotel Hilton Colón

The primary focus within space ecosystems is to develop programs to leverage the benefits of space technologies and applications products and services, and the secondary focus is to establish sustainable local space industries. Whereas some countries or regions may have a fair appreciation of what this entails, there are a significant number of emerging countries that have not grasped these important benefits and how this can assist in the socio-economic development of the country. The Session focus will be on:

- Pinpointing the benefits of a thriving local space industry within the broader economy of a country or region.
- Understanding how a space ecosystem could be effectively integrated into the global space value chain.
- Appreciating the use of policy instruments to increase the 3G (generation, gender and geographic) diversity within a space ecosystem
- Understanding how a national or regional ecosystem could drive economies of scale and foster innovation.

Speakers:



Fuad ASLANOV
Vice-Chairman,
Azercosmos Space Agency of
the Republic of Azerbaijan,
Azerbaijan



Petr BAREŠ
Honorary President,
Czech Space Alliance,
Czech Republic



Maria Cristina FALVELLA
General Inspector,
Italian Space Agency (ASI),
General Inspector President,
Fondazione E. Amaldi,
Italy



Rodrigo LEONARDI
Coordenador de Satélites e
Aplicações,
Brazilian Space Agency (AEB),
Brazil



Oleg MANSUROV
CEO/Founder,
Success Rockets,
Russian Federation



Luigi SCATTEIA
Partner,
PwC Space France,
France



Pilar ZAMORA ACEVEDO
Executive Director,
Colombian Space Agency
(AEC),
Colombia



KEYNOTE SPEAKER
Robert AILLON
CEO,
Leviathan Space Industry LLC,
United States



MODERATOR
Alejandro J. ROMAN MOLINAS
General Director of Aerospace
Development,
Paraguayan Space Agency,
Paraguay

15:20 - 16:20 IAF GNF SESSION: Latin American Culture In Space



Location: Los Shyris BC - Hotel Hilton Colón

As space applications products and services are intended to service society and the adoption thereof is influenced by culture, this GNF will explore how culture shapes and is being shaped by a space ecosystem.

Speakers:



Miguel AYALA
CEO/Founder,
Aphelion Aerospace,
United States



Nelson R. GUIM
Coordinator of the National
Board for Education with
Values, President of the
Guayaquil Downtown
Reactivation Committee,
Ecuador



Camilo Guzmán Gómez
Lawyer, Professor of Space
Law,
Universidad Sergio Arboleda,
Director,
Research Group on Public
Law – CREAR,
Colombia



Katherinne HERRERA JORDAN
President & Co-Founder,
Guatemalan Association
of Space Sciences and
Engineering (AGICE),
Guatemala



Anne W. JOHNSON
Professor,
Universidad Iberoamericana,
Mexico



Ericson Daniel LÓPEZ IZURIETA
Professor,
Quito Astronomical
Observatory,
Director,
National Observatory of
Ecuador,
Ecuador



Javier MEJUTO
Head of Archaeoastronomy
and Cultural Astronomy
Department, Space Sciences
Faculty - UNAH,
President of the National
Committee for Astronomy in
Honduras, Co-Chair of the IAU
WG Astronomy in Culture,
Honduras



MODERATOR
Bernard FOING
Executive Director,
International Lunar
Exploration Working Group
(ILEWG), EuroMoonMars,
Chair IAF ITACCUS
Committee,
Netherlands

16:20 - 16:50 Tea/Coffee Break

Location: Los Shyris A - Hotel Hilton Colón

16:50 - 17:50 Closing Ceremony

Location: Los Shyris BC - Hotel Hilton Colón

Master of Ceremony:



Christian FEICHTINGER

Executive Director,
International Astronautical
Federation (IAF),
France

Speakers:



Pascale EHRENFREUND

President,
International Astronautical
Federation (IAF),
France



**Christian HAUGLIE-
HANSEN**

Director General,
Norwegian Space Agency,
Norway



Juan JARAMILLO ROJAS

President,
Sideralis Foundation,
Ecuador



Valanathan MUNSAMI

GLEC 2022 IPC Co-Chair,
Chancellor,
International Space
University (ISU),
South Africa

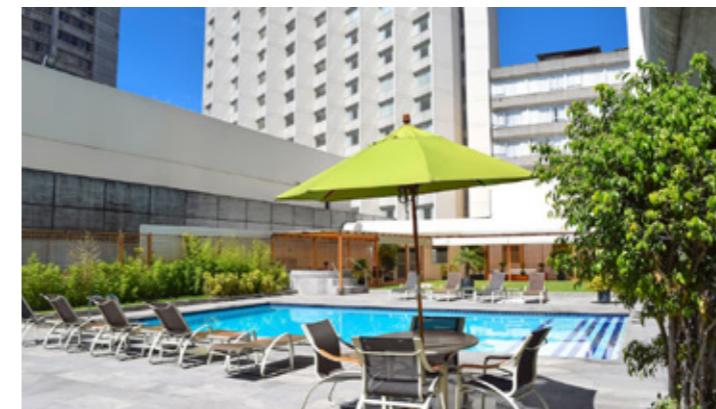
6 SOCIAL & CULTURAL PROGRAMME

Welcome Reception

Date: Monday 16 May

Hour: 17:00 - 19:00

Location: Pool Area - Hilton Colón Hotel



Gala Dinner

Date: Wednesday 18 May

Hour: 19:30 - 23:00

Location: Iglesia de San Francisco

Our journey will start in the colonial center of the city of Quito, where we will offer a private walking ceremony with traditional local legend characters through the historical "Plaza San Francisco".

Afterward, we will enter the beautiful 16th-century Roman Catholic church of San Francisco greeted by a soprano singer accompanied by a trio of musicians who will be playing typical Ecuadorian and Andean music from the church's altar. Attendees will be able to appreciate the colonial infrastructure, paintings, art, and overall architecture that this amazing historical church has to offer.

We will continue to the convent area, where attendees will be greeted by music from a traditional Quiteño "Pueblo" band. Guests will then proceed to a station with traditional drinks and appetizers while enjoying Ecuadorian folkloric dances. Finally, attendees will continue to the dining area in the convent's refectory where they will enjoy a 3-course dinner accompanied by an assortment of beverages.



Transportation to and from the Gala Dinner

The first bus destined to take the Gala Dinner attendees to its venue will be arriving at Hotel Hilton Colón’s main entry at 6:45 pm and will leave at 7 pm. After the first bus, there will be two more buses departing every 20 minutes.

After the Gala Dinner, GLEC transportation buses will be waiting outside the venue to return attendees to Hotel Hilton Colón.



Day Tours

Consult all the GLEC tours available at: <https://pure-travelgroup.com/glec-tours-2022/>

Otavalo

You will be picked up from your hotel to head towards Imbabura known as “The Province of the Lakes”. The highway offers a lovely view passing through Calderón and Guayllabamba valleys.

We will make a short stop here to get to know more about local culture. Passing through Cayambe we can get a sight of the snow-capped volcano (5,790m.), the world’s highest point crossed by the Equator Line. This small town is also famous for its salt biscuits with “leaf cheese” and “manjar”, where we will stop to try this delicacy before we continue to the Imbabura province, named after the Imbabura Volcano, where we will first head to the largest lake in Ecuador, the San Pablo. We will then enter Otavalo City which holds a local market every day, the biggest are on Wednesdays and Saturdays, an ancient tradition and cultural exchange site among the Otavalo community. Furthermore, we visit the peaceful Cotacachi Village, famous for its leather, and meet the local craftsmen. After a last visit to the charming Cuicocha Crater Lake, we will head back to Quito in the late afternoon.



Included: Private transportation, English-speaking guide, lunch
Price: \$106

Quito

During the historical city tour of Quito, you will explore the best-preserved colonial center of all of South America.

The first stop is the Basilica del Voto Nacional. Due to its size and style, it is considered the largest neo-gothic temple in the Americas, and the most important piece of neo-gothic architecture in Ecuador. You will continue to the Plaza Grande or Independence Square. Admire the historical buildings surrounding the square and its important history! Located here are the Presidential Palace, the Catholic Cathedral, and the Archbishop’s Palace and the San Francisco de Quito Church.



Walk through the lively colonial streets of the old town to visit other historical highlights such as the Panecillo, from where you will have an amazing 360-degree view of the city.

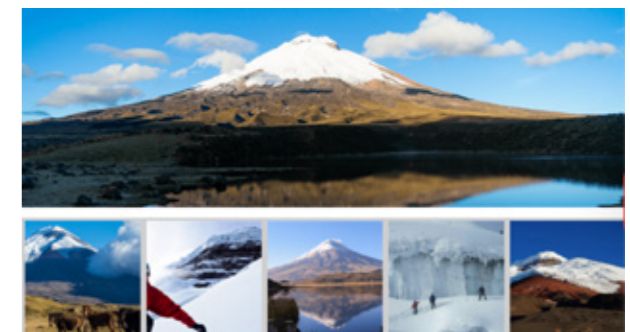
A must-see stop during your visit to Ecuador is the Middle of the World. This unique place allows you to be a part of a historic landmark in what was once thought as the exact equator line. Have fun while taking playful photos with the monument in the background, such as the popular takes with one foot in each hemisphere or pretending to hold the monument ball in your hands! Additionally, the complex offers an Ethnographic museum, a planetarium, artisanal stores, great for picking up souvenirs, coffee shops, and restaurants that serve local food.

We end the tour at a local brewery, the first beer is on us!

Included: Private transportation, English-speaking guide, entrance to La Compañía, Panecillo, and Middle of the World, 1 beer
Price: \$121

Cotopaxi National Park

The adventure starts early in the morning when you drive south through the Avenue of the Volcanoes. This destination is one of the highest active volcanoes. in the world and one of Ecuador’s most popular highlights: the elegant Cotopaxi Volcano, with an altitude of 5,897 meters above sea level. This impressive, snow-capped volcano stands proudly in the middle of the beautiful national park that bears its name.



Upon arrival at the entrance of the Cotopaxi National Park, your guide will explain the unique flora and fauna of the area and the history of the volcano. Subsequently, you’ll continue to the Limpiopungo Lake (altitude: 3,850 meters), to enjoy a hike through the stunning “paramo”, or grassland, a landscape where you can see hummingbirds, wild horses, and other wildlife. All this time, the imposing Cotopaxi Volcano is just a few steps away and on a clear day, you can admire its full glory.

Included: Private transportation, English-speaking guide, lunch
Price: \$101

Mindo Cloud Forest

Mindo is a natural paradise hidden amongst the clouds. The site is considered one of the most biodiverse places on earth and its protected forest Mindo-Nambillo is home to many species of birds, mammals, reptiles, orchids, and butterflies. You can visit this natural reserve through a 'tarabita' or cable car that will ride you above breathtaking scenery. Once there, you can choose to do a hike to visit 15 waterfalls of different heights and beauty.



On the way back you can visit one of the most touching experiences in Mindo; a butterfly garden. The place has an exhibition of 25 colorful butterfly species and you can observe them in their four stages of life. In the afternoon, you can delight your senses by taking a chocolate tour. A guide will teach you about all the necessary steps to produce the best chocolate in the world! At the end of the tour, you will be able to try and buy several chocolate products.

Zip-Line Through the Cloud Forest

In Mindo, you can experience the cloud forest like a bird, soaring above in the treetops. Before taking off through the forest with a new perspective, you will be given a briefing on the equipment. There is more than one zip-line and each is built under strict international safety regulations, hardy pulleys, and stainless steel that can withstand 11,000 lbs or 5,000 kg.

Included: Private excursion, English-speaking guide, entrance to Butterfly farm, chocolate factory, zip-line, lunch
Price: \$160

Antisana National Park

In the morning you leave Quito to travel southeast to the Antisana Ecological Reserve. The impressive Antisana Volcano stands proudly in the middle of this beautiful reserve, creating stunning landscapes.



Because of the altitude of 4,000 meters and the extreme temperature, the flora and fauna in the Antisana Ecological Reserve are truly unique. The plants in this area have adapted to the natural circumstances and make a mysterious and beautiful landscape. Your guide brings you close to the snow-capped top of the volcano by car, where you start to explore this special area. During the hike and car ride through the national park, you have the opportunity to see wildlife, such as horses, llamas, Andean gulls, black-faced ibises, and even condors, with some luck.

Included: Private transportation, English-speaking guide, lunch.
Price: \$101

Papallacta Hot Springs Spa

You leave Quito in the morning to drive over the Eastern Cordillera, up to an impressive altitude of 4,065 meters, before arriving at the small town of Papallacta (3,300 meters).

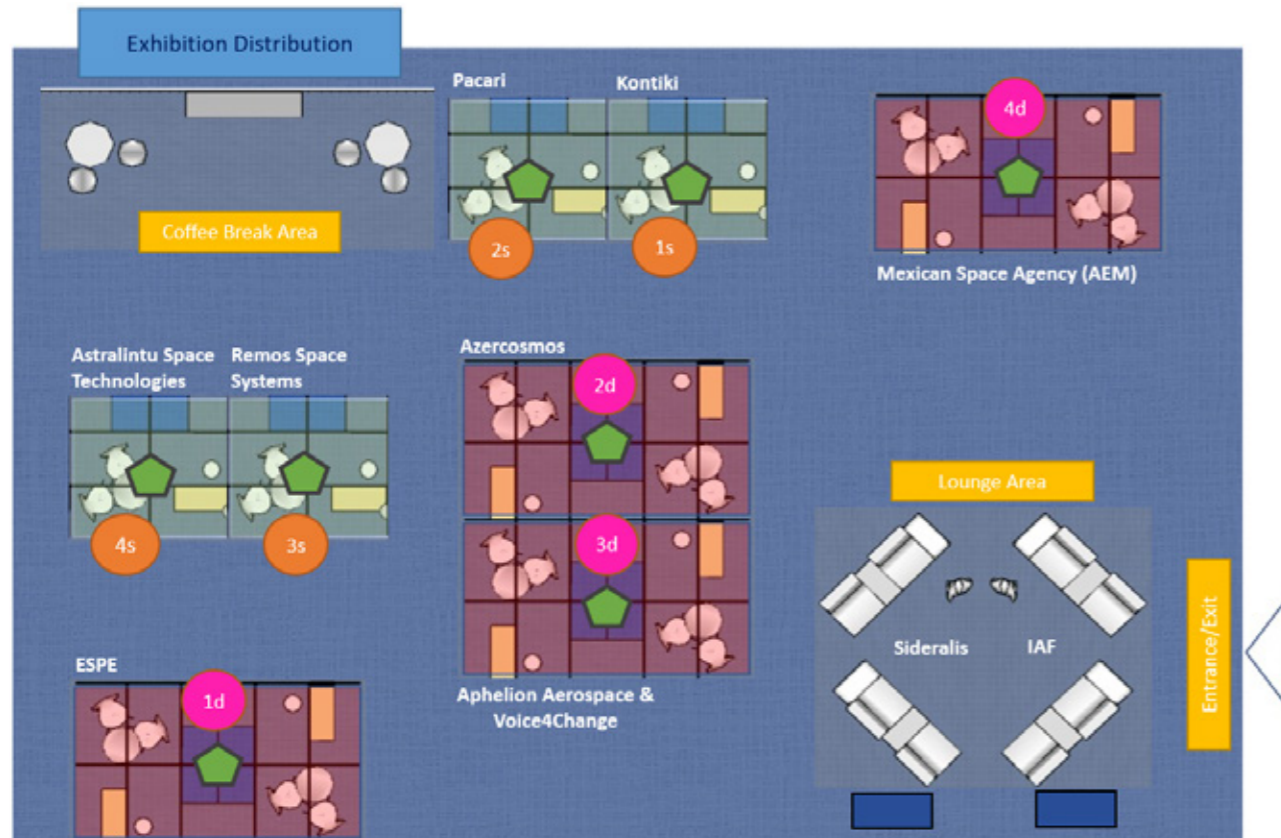


On a clear day, you get amazed by magnificent views of the Antisana Volcano and the surrounding paramo highlands. In this beautiful region, you can spot birds, wild horses, and even spectacled bears, with some luck. Upon arrival in Papallacta, begin by exploring the area with a hike and then relax at the spa of Termas de Papallacta thermal hot springs that are naturally heated by the volcanic activity in the area. Thanks to the volcanoes, this water contains minerals that make bathing here benefit your mind and body. With this tour, you will experience ultimate relaxation in a beautiful environment. If you like, there is also time for a short hike to explore the area further.

Included: Private transportation, English-speaking guide, entrance to Termas de Papallacta (spa area)
Price: \$125

7 EXHIBITORS

7.1 Exhibition Area Floorplan



7.2 List of Exhibitors

Agencia Espacial Mexicana (AEM)



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The Mexican Space Agency is a decentralized public body of the Federal Government and sectorized in the Secretariat of Infrastructure, Communications and Transportation.

Our mission is to use space science and technology to meet the needs of the Mexican population and generate jobs with high added value, promoting innovation and development of the space sector; contributing to the competitiveness and positioning of Mexico in the international community, in the peaceful, effective and responsible use of space.

Our vision is to have a sovereign and sustainable space infrastructure for Earth observation, navigation and broadband satellite communications, which contributes to improving the quality of life of the population and the economic growth of Mexico.

The National Program for Space Activities 2020-2024 consists of three Priority Axes that set the guidelines for a series of strategies and lines of action to comply with the provisions of the Law:

1. Satellite Telecommunications and Navigation
2. Earth Observation
3. Space Exploration

In turn, these Priority Axes give name to the Cross-cutting themes that make up our structure:

- * Formation of Human Capital in the Space Field
- * Industrial, Commercial Development and Competitiveness in the Space Sector
- * International Affairs and Safety in Space Matters

Aphelion Aerospace



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Aphelion Aerospace is a nanosatellite systems and service company on a mission to operate the first dedicated CubeSat-class reusable launch system that allows for regular, scheduled orbital access at an unprecedented rate and cost. We are developing technologies to enable a complete end-to-end solution for reliable commercial access to space. We provide launch services with our Aphelion Aerospace vehicle as well as CubeSat systems sales and mission integration services

Astralintu



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Twitter: <https://twitter.com/astralintu>

Astralintu Space Technologies is a New Space startup founded in 2020 to provide services to facilitate access to space. Our SharedSat / FullSat eliminates the need of developing an in-house space program from scratch. Customers just focus on the payload; we integrate it into our spacecraft and launch it, then they get valuable data back.

Azercosmos



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Twitter: <https://twitter.com/Azercosmos1>

Facebook: <https://www.facebook.com/Azercosmosofficial/>

Azercosmos Space Agency short description - Azercosmos, the Space Agency of the Republic of Azerbaijan, is the leading force behind the development of innovative space ecosystem in Azerbaijan. Founded in 2010 as the first and only satellite operator in the Caucasus region, Azercosmos currently operates two telecommunication (Azerspace-1 and Azerspace-2) and one Earth Observation (Azersky) satellites, successfully providing high quality and reliable services to partners across the globe. Apart from delivering a broad spectrum of services and solutions via our satellite fleet, we also engage in a wide range of R&D activities that aim to foster the technological advancement. Furthermore, we cooperate with international stakeholders and partners to ensure the establishment and strengthening of collaborative ties in the space industry, participate in major global projects, and build the local know-how. Being committed to creating a better connected, developed and secure world for future generations, we aim to emerge as one of the driving forces in the global space industry. For more information, please visit our [website](#).

ESPE - Universidad De Las Fuerzas Armadas



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The institution is fundamentally owed to society and the Armed Forces, to which it directs its efforts, contributing to the solution of their development needs, through professional, technical and scientific training, research, planning and implementation of solutions in the field of their academic domains. With the permanent search for excellence as a century-old institution and a benchmark in society, through the practice of principles: respect for human dignity, ESPE identity, academic excellence; and the values: discipline, integrity, leadership, creativity, cohesion and effectiveness, in all its academic and administrative activities, applying effective methods and tools for the integration of teaching, research and connection with society.

The training of professionals is based on multidisciplinary projects related to the "Smart University" paradigm that includes the development of a postmodern university with an emphasis on the application of electronic government (e-government), internationalization and an innovative educational model, tending to continue as an institution of higher education of the Armed Forces, a benchmark at the national and international level.

International Astronautical Federation (IAF)



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Founded in 1951, the International Astronautical Federation is the world's leading space advocacy body with more than 433 members, 72 countries on six continents, including all leading agencies, space companies, societies, associations and institutes worldwide. Following its theme "A space-faring world cooperating for the benefit of humanity", the Federation advances knowledge about space and fosters the development and application of space assets by advancing global cooperation. As the organizer of the annual International Astronautical Congress (IAC), and other meetings on specific spacerelated topics, the IAF actively encourages the development of astronautics for peaceful purposes and supports the dissemination of scientific and technical information related to space.

Kontiki Expeditions



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President

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Unique in the world, this is the first luxury marine expedition to be part of the community of Small Luxury Hotels of the World. Our routes, which have been traced from sustainability, culture and adventure, reveal the beauty and authenticity of the Ecuadorian coast and the warmth and traditions of its people, making a cruise aboard Kontiki an unforgettable experience.

Embark on this sensory journey aboard a luxury yacht that will take you to seldom-traveled routes that reveal the beauty and authenticity of the destinations. Discover forests and wetlands, pristine beaches, ecological reserves and experiential gastronomic experiences at each stop of the expedition.

One Voice 4 Change



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To create world-wide educational partnerships that inspire learning and global citizenship.

One Voice 4 Change is a non-profit organization, whose vision is a world where all students have equal learning opportunities. Their mission is to create and facilitate partnerships, both locally and globally, that connect learners and mentors with the ability to collaborate. Voices are heard, needs are assessed, and resources are provided. One Voice 4 Change is unique in that they are not offering curriculum, but rather, educational opportunity. They create connections, listen to learners and mentors, and customize their support to each collaboration. The content areas are as diverse as the participants, and there are truly no limits to the potential of these partnerships. Through shared voices, both students' and teachers' horizons are broadened, and rich and equitable learning opportunities are created.

Paccari



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Paccari is an Ecuadorian chocolate company, it is a sustainable company and the basis of Paccari is fair trade.

Remos Space



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Remos delivers software-defined ground station equipment for satellite ground operations. New Space is a fast-growing industry sector, and today, there are more satellite-based applications than ever. But for many companies, the high cost of ground operations is prohibitive for their development and upcoming launch. Remos' vision is to help emerging space companies manage their satellites cost-efficiently, by replacing traditional transceivers for satellite ground operations with future-proof software-defined solutions. Welcome to the next generation of space communication.

Sideralis Foundation



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Ecuador

Sideralis Foundation is a nonprofit organization founded in 2019, offering education and collaboration for space exploration for new actors in the global space community.

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