

ORGANIZED BY:

HOSTED BY:



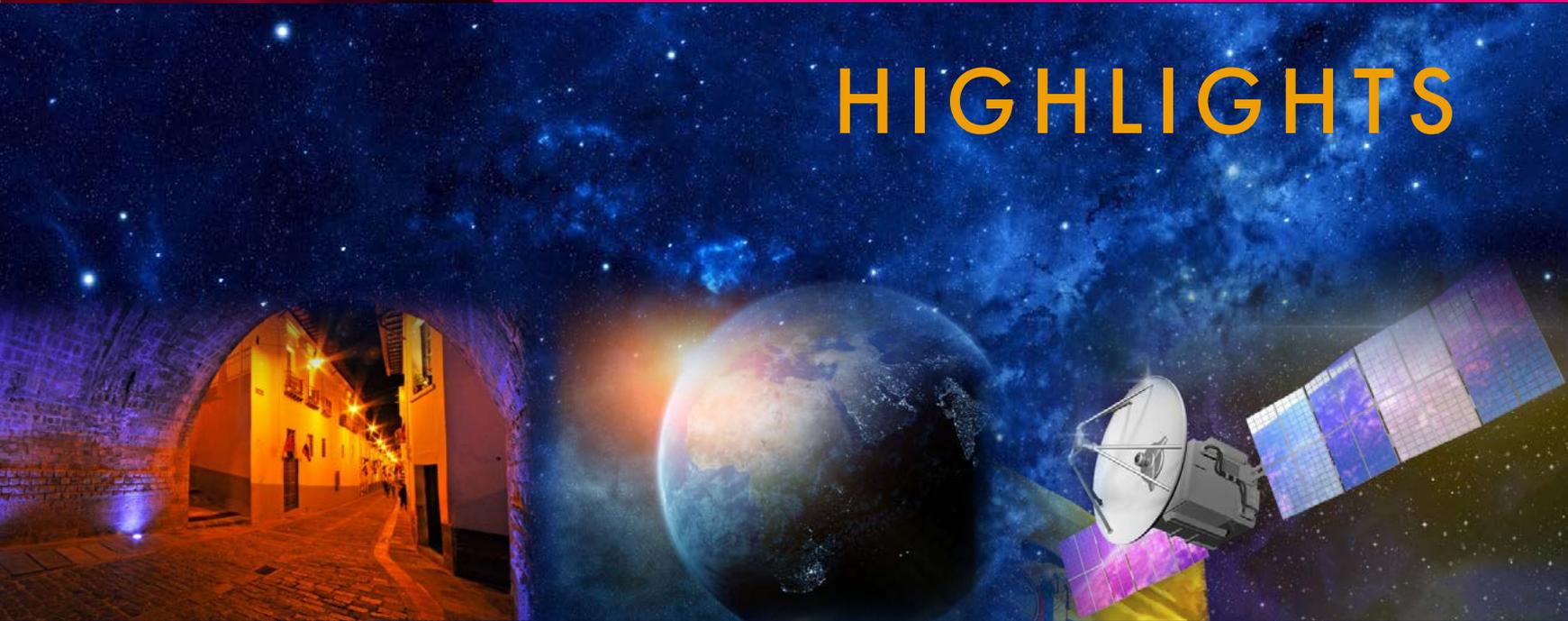
GLEC2022

GLOBAL CONFERENCE
ON SPACE FOR
EMERGING COUNTRIES



Space Ecosystems that bring Government, Industry and Society Together

HIGHLIGHTS





WELCOME MESSAGE

The second edition of the Global Conference on Space for Emerging Countries (GLEC 2022) was organized together with the Sideralis Foundation in Quito, Ecuador 16 - 20 May 2022. It was the second IAF Global Conference in South America and the first time that the IAF organized an event in Ecuador. The conference successfully attracted 250 participants from 43 different countries, many participants travelled very far to participate in this unique event.

The inclusion of emerging nations in the global space arena deserves, today more than ever, all our efforts and attention. The GLEC 2022 programme was designed to bring together the international community, including senior representatives of the major space agencies, industry, governments, policy makers, academia and NGOs. The conference provided an environment to foster and support the international relations that allow space faring nations and space developing nations to share practices and data about space activities and their concrete social benefits.

It was a wonderful week in Quito filled with interesting discussions during the many plenary and GNF sessions, networking opportunities and social events. An inspiring outreach event was organized together with the Club for the Future where Ecuadorian children sent postcards to space and an unforgettable gala dinner that was organized in the magnificent church of San Francisco. I am sure that the GLEC 2022 legacy remains in Ecuador and will advance the space sector the region.

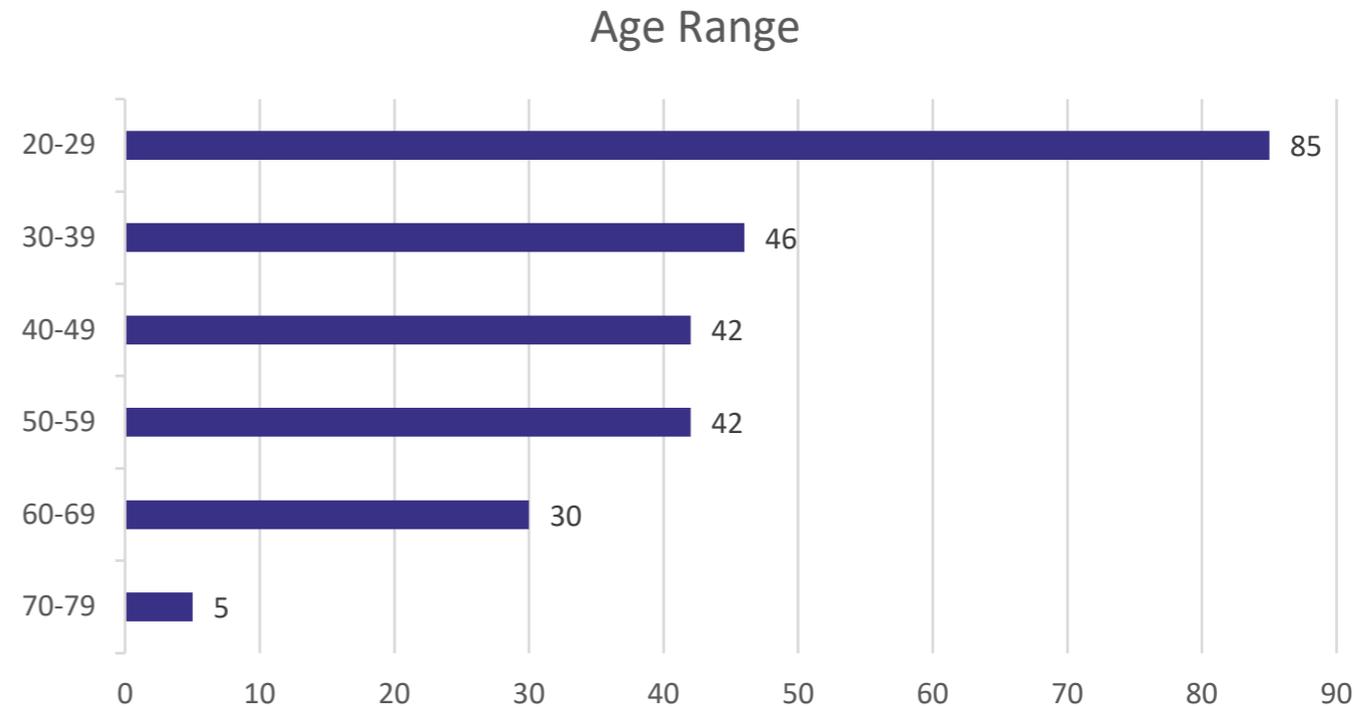
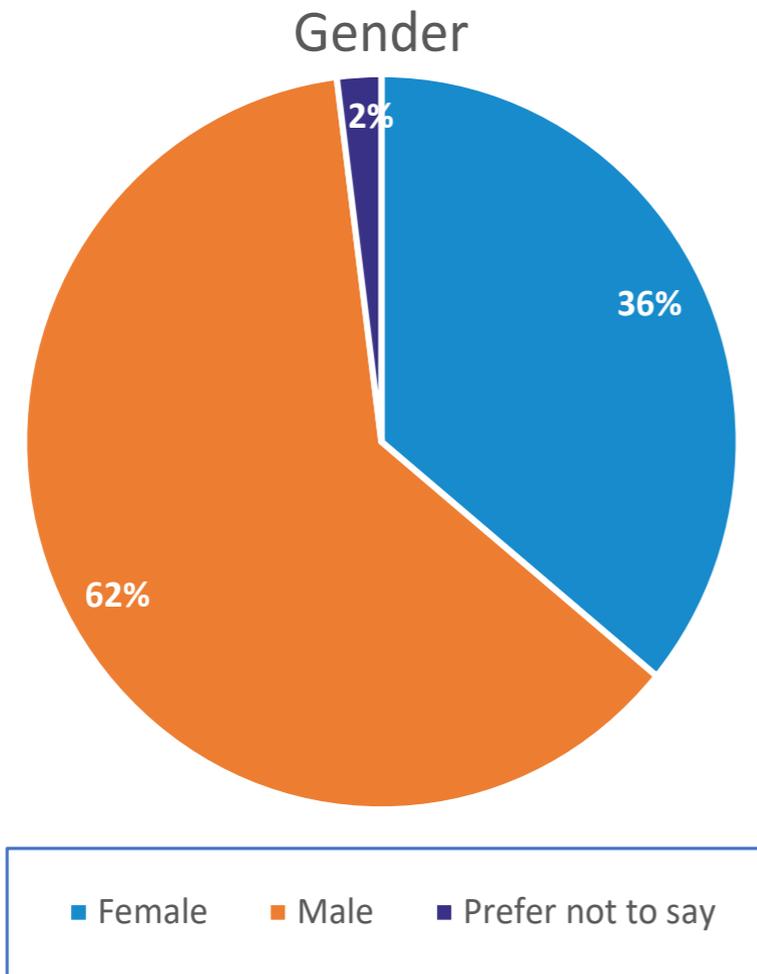
We will be continuing our Global Conference journey next year, when we head to Oslo, Norway for the Global Space Conference on Climate Change, GLOC 2023. This conference is hosted by the Norwegian Space Agency (NOSA) from 23-25 May. The conference will focus on a better understanding of climate change through the use of space-based services and applications.

Enjoy this booklet capturing the main highlights of GLEC 2022 in Quito and we are already looking forward to inviting you to Oslo for the next Global Conference!



Pascale EHRENFREUND
President
International Astronautical Federation

250 Participants from **34** Countries



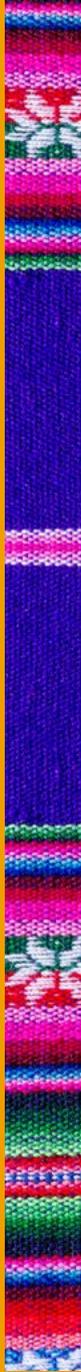
TOP 10 COUNTRIES

- 1 Ecuador
- 2 United States
- 3 Italy
- 4 France
- 5 Brazil
- 6 Mexico
- 7 Turkey
- 8 Azerbaijan
- 9 Peru
- 10 Austria

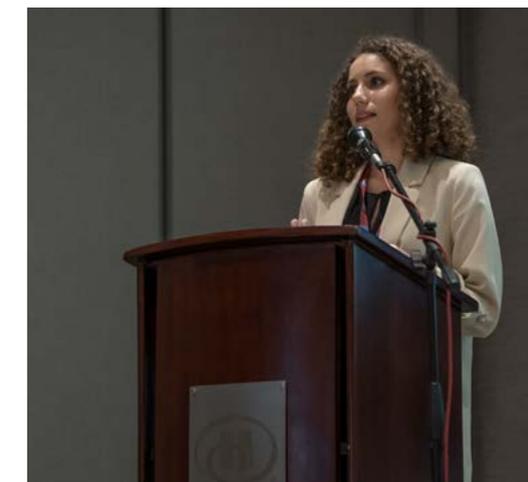


MONDAY

16 May 2022



SPACE LAW AND POLICY MASTERCLASS



"International space law is just one small part of the space law that countries require; in addition there is also national space legislation, laws that come from international organizations, and laws that come from national parties like soft laws."

Steve MIRMINA
NASA

MASTERCLASS

THE SPACE INDUSTRY AND ENTREPRENEURSHIP WORKSHOP



WORKSHOP

"Operating in space is a challenging environment but I am very positive for the future, the technology is proving to be extremely promising for the next years. We are living in an area where entrepreneurs can be very dynamic!"

Clay MOWRY
Voyager Space



WELCOME RECEPTION





GLEC2022
GLOBAL CONFERENCE
ON SPACE FOR
EMERGING COUNTRIES



TUESDAY

17 May 2022



“The countries that only have a short experience in space activities can take the best of the long experience that other countries have built up to contribute and go beyond to prepare a solid and sustainable future for space activities.”

Giorgio SACCOCCIA
Italian Space Agency

OPENING CEREMONY

EXHIBITION OPENING



HIGH LEVEL PANEL: THE ROLE OF SPACE AGENCIES IN A SPACE ECOSYSTEM

PLENARY 1A



“Every space agency can contribute. There are ideas to be found, there are discoveries to be made, and there are problems to be solved, and space agencies are positioned in the space ecosystem to do exactly that.”

Anthony TSOUGRANIS
NASA

HIGH LEVEL PANEL: THE ROLE OF SPACE AGENCIES IN A SPACE ECOSYSTEM

“When we come together with other emerging economies and the nations in the space sector, then we see that there are many opportunities. We can make use of the capacities which are existing on their side or our side and combine them so we are more capable of doing big projects”

Serdar Hüseyin YILDIRIM
Turkish Space Agency



PLENARY 1B

GLOC 2023 PRESENTATION LUNCHEON



Join us for the IAF Global Space Conference on Climate Change the 23-25 2022 May in Oslo, Norway!

LUNCHEON

HIGH LEVEL PANEL: THE ROLE OF SPACE INDUSTRIES IN A SPACE ECOSYSTEM

“One of my pieces of advice to emerging space agencies is do not think that you can spend a lot of money to create a commercial economy. You really have to depend on commercial businesses bringing in outside equity money and relying on infrastructure that is already out there.”

John ROTH
Sierra Space



PLENARY 2



LATIN AMERICAN AND CARIBBEAN SPACE AGENCY (ALCE)

IAF GNF SESSION



"We believe that it is important to change minds regarding the participation of girls and women in science and technology. I think this is one of the main gaps that we have in Latin America and the Caribbean, but I think the most important thing is to have the commitment of men and women to include these issues in all fields of our work."

Verónica GÓMEZ RICAURTE
Ecuador Ministry of Foreign Affairs

MINISTERS AND MEMBERS OF PARLIAMENTS FORUM



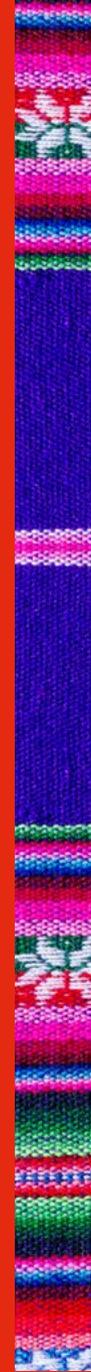


PRESS CONFERENCE



WEDNESDAY

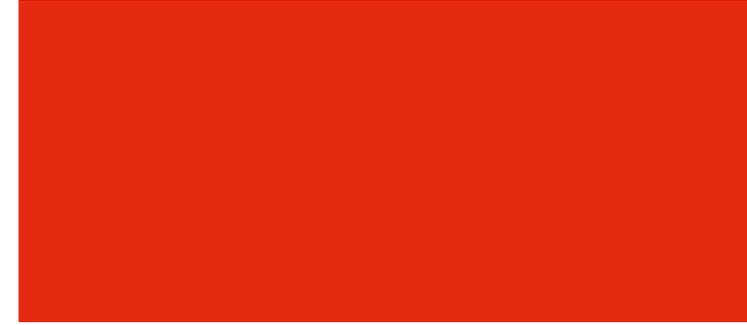
18 May 2022



SPACE LAW AND POLICY

“The outer space treaty is perfect as it is and perfectly valid but it needs a little bit more clarification in order to understand where the treaty should evolve.”

Michelle HANLON
University of Mississippi



GOVERNANCE RISK AND COMPLIANCE IN THE EMERGING SPACE ECOSYSTEM

“Emerging countries need to focus not only on risks that can threaten value but also on the risks an enterprise can take to create value.”

Christopher GEIGER
Lockheed Martin

IAF GNF SESSION



DEVELOPING A SPACE EXPLORATION ECOSYSTEM BASED ON INTERNATIONAL COLLABORATION

IAF GNF SESSION



“Space technologies play an important role in accelerating sustainable development as well as international research collaboration has many benefits to develop a space exploration ecosystem.”

Pierre-Alexis JOUMEL
Airbus



IAF AND CLUB FOR THE FUTURE POSTCARDS INITIATIVE LUNCHEON



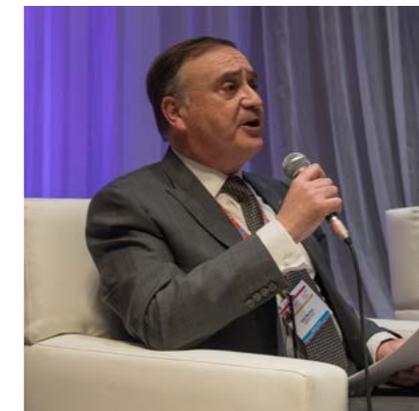
LUNCHEON



"1000 postcards were distributed reaching more than 900 children from seven schools and two organizations in Quito, Otavalo, and Cotacachi."

Daniela MERA
Sideralis Foundation

HOW TO BUILD A SPACE ECOSYSTEM



“To develop a space ecosystem it is paramount to take well-informed decisions so that interdisciplinary stakeholders can support safe, economically productive, and sustainable space infrastructure and provide transformative science advancements.”

Peter MARTINEZ
Secure World Foundation

CO-EVOLUTION OF THE SPACE ECOSYSTEM



“How space ecosystems should be evolving? It seems that while the space industry workforce continues to increase, industries are struggling to attract new people to the field.”

Masami ONODA
JAXA



THE GENDER GAP

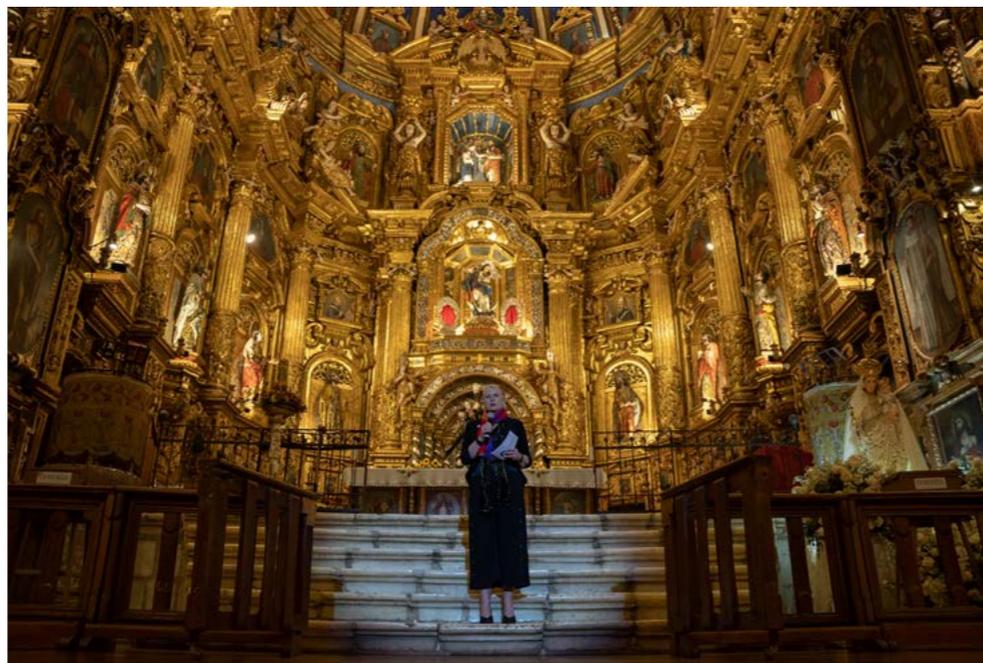
IAF GNF SESSION



"In the last 30 years there was very little change in what subjects women study.. a slightly change in medicine studies but unfortunately technologies studies are still dominated by men. We should use more the system of quotas."

Pascale EHRENFREUND
IAF





GALA DINNER



THURSDAY

19 May 2022

SPACE INDUSTRY DEVELOPMENT & SUPPORT



PLENARY 6

"The biggest opportunity for emerging countries in space is in Earth Observation. There is a wealth of space data readily available for downstream entrepreneurs to be picked up."

Pieter VAN BEEKHUIZEN
Stitching Space Professionals Foundation



SPACE IN SCHOOLS & THE ROLE OF ACADEMIA

IAF GNF SESSION



"We should all care about space so please reach out to people, bring space to everybody even your family and then increase your relationships, talk to everybody!"

Gregg CANNADY
STEM School Highlands Ranch



SPACE TECHNOLOGY FOR EMERGING COUNTRIES

“Brain drain is a big issue in Ecuador. Funding for education and research is one of the key causes. Nevertheless, we hope that some of those who go abroad to study will come back to support our country.”

Verónica GÓMEZ RICAURTE
Ecuador Ministry of Foreign Affairs



IAFGNF SESSION

BENEFITS OF A SPACE ECOSYSTEM APPROACH



“Space has become the critical infrastructure upon which every other infrastructure is dependent. A day without space access and space-inspired technologies would be catastrophic to the security of the world’s economies and ways of life.”

Robert AILLON
Leviathan Space Industries LLC

LATIN AMERICAN CULTURE IN SPACE

IAF GNF SESSION



“Culture is a unique human invention to increase our ability to cope with the environment, to facilitate daily living. It provides a useful tool for understanding human behavior and its relationship to a particular environment.”

Bernard FOING
International Lunar Exploration Working Group

CLOSING CEREMONY





SPONSORS & MEDIA PARTNERS

Silver Sponsor



Sponsors



Media Partners





International Astronautical Federation

100 Avenue de Suffren
75015 Paris, France
T: +33 (0)1 45 67 42 60
E: info@iafastro.org
www.iafastro.org

Connecting @ll Space People

Be part of the conversation @iafastro

