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14 - 18 OCTOBER 2024 MILAN - ITALY

RESPONSIBLE
SPACE FOR
SUSTAINABILITY

SUPPORTED BY:



HIGHLIGHTS

IAC2024.ORG

INTRODUCTORY REMARKS

What an incredible journey we have had in Milan! The 75th International Astronautical Congress was not just a gathering — it was a unifying moment that brought our global community together in ways that left us all inspired and energized. We saw such a rich mix of perspectives, from Heads of Space Agencies and astronauts to industry leaders, government representatives, researchers, students, and young professionals. Each one of you brought fresh ideas and passion to Milan, making our theme, “*Responsible Space for Sustainability*,” come alive.

With a strong support from our host, AIDAA, and co-hosts, ASI and Leonardo, IAC 2024 represented a powerful symbol of the remarkable achievements that are possible when we join forces for a common goal. Over 11,200 delegates from 120 countries gathered, sparking new ideas and conversations to build a sustainable future for space. Our technical programme broke records, and the exhibition, with more than 530 exhibitors, was a world-class showcase of technology and vision and last but not least the inaugural IAF Global Space Leaders Summit brought together 60 heads of space agencies in the largest meeting of space leaders, starting vital conversations on our shared path forward.

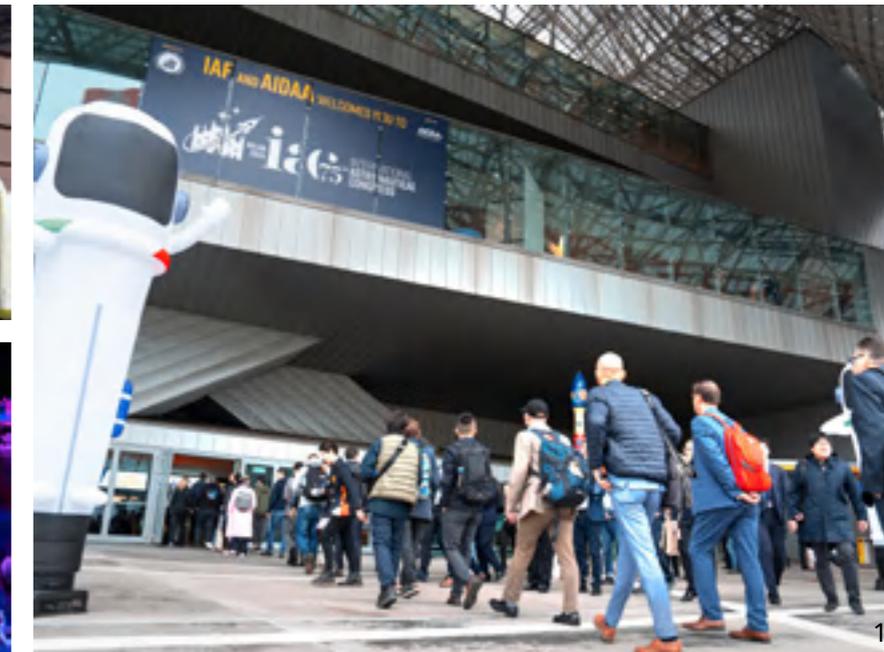
We are deeply grateful to all of you—our members, sponsors, authors, volunteers, and partners — who made this IAC unforgettable. Your dedication is the heartbeat of this congress, and without you, none of this would be possible.

And now, as IAC continues its journey around the globe, we are heading to Sydney for IAC 2025! It’s going to be a fantastic opportunity to reconnect, discover, and make new memories in a beautiful new setting. Let’s bring the same energy and commitment to Australia as we work together to drive the future of space forward.

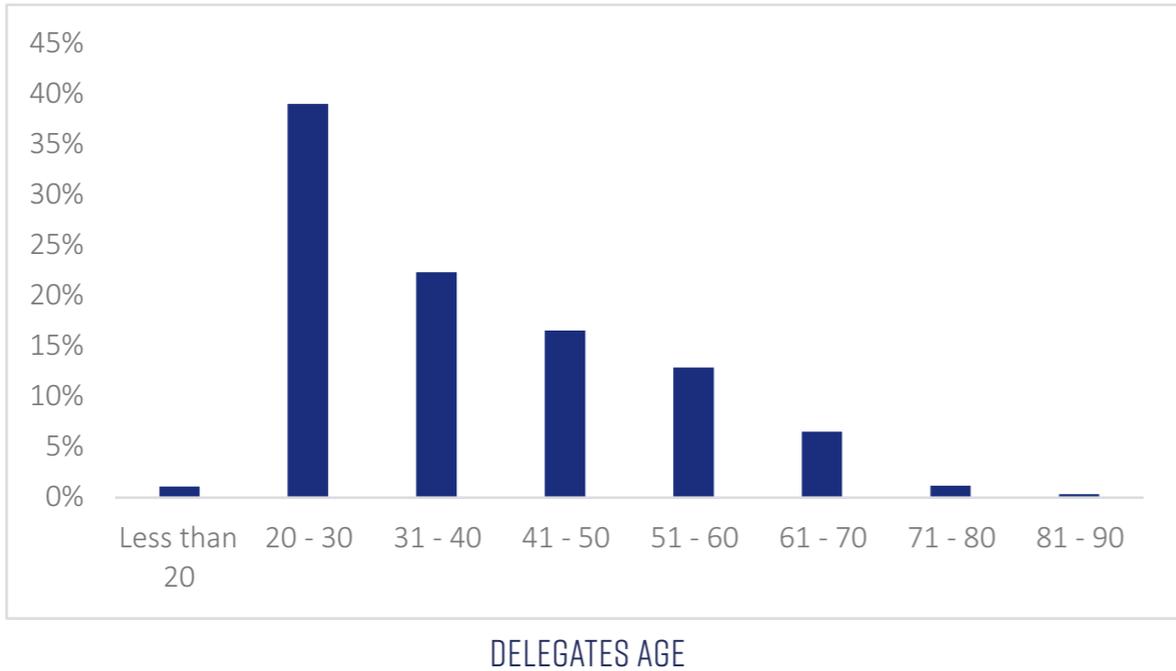
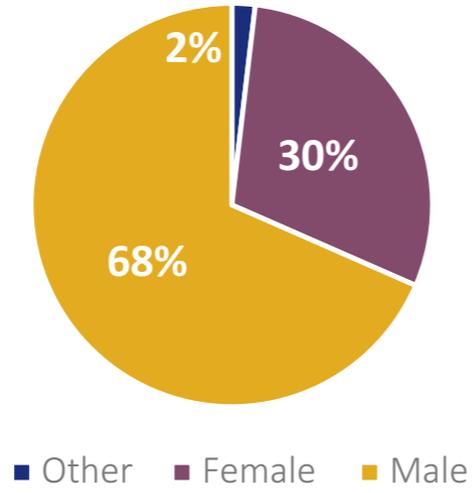
Enjoy these highlights, and I can not wait to see you next year in Sydney!

Clay MOWRY

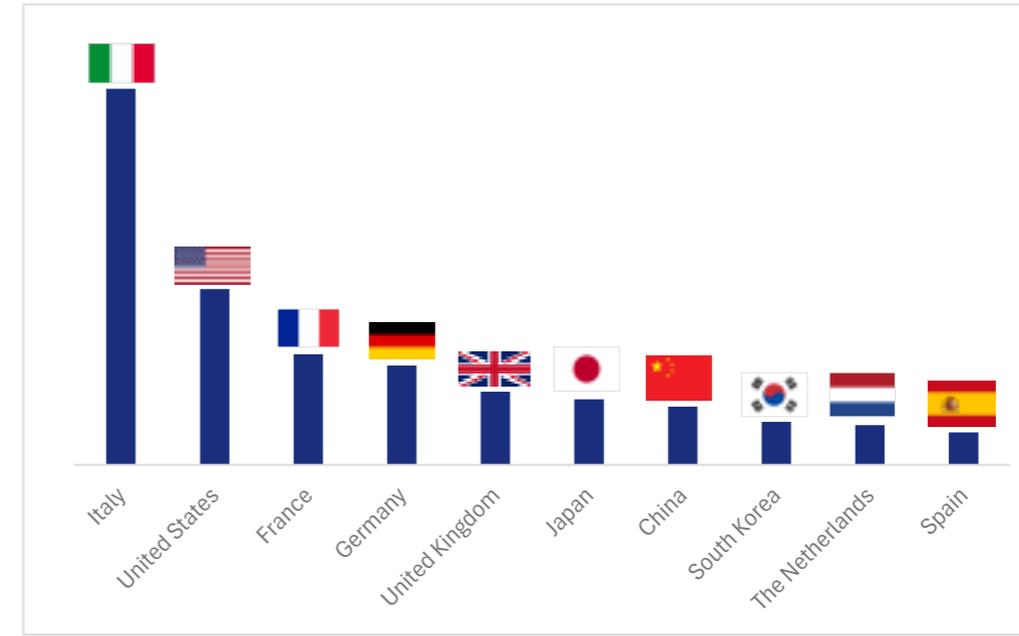
President,
International Astronautical Federation (IAF)



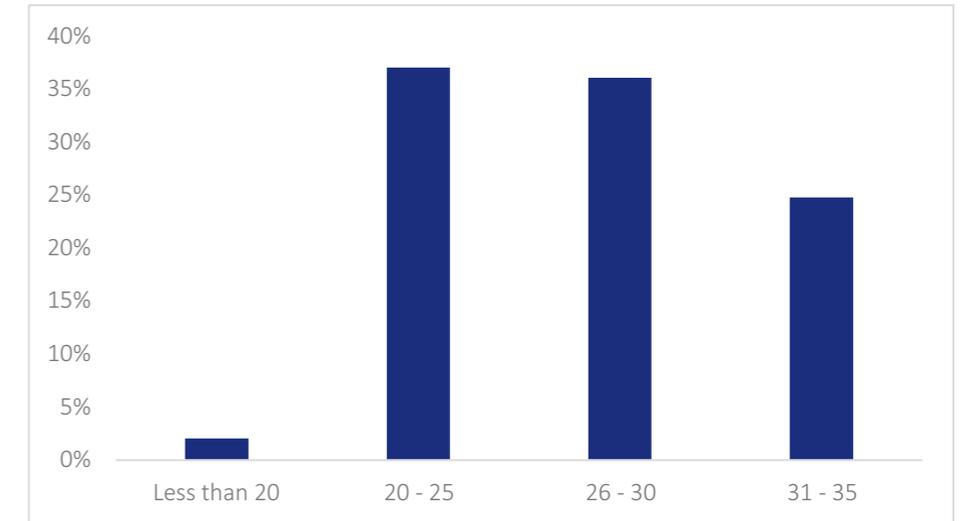
GENDER DISTRIBUTION



REGISTRATION TOP 10 COUNTRIES



NEXT GENERATION BY AGE



MONDAY

AGENCY DAY

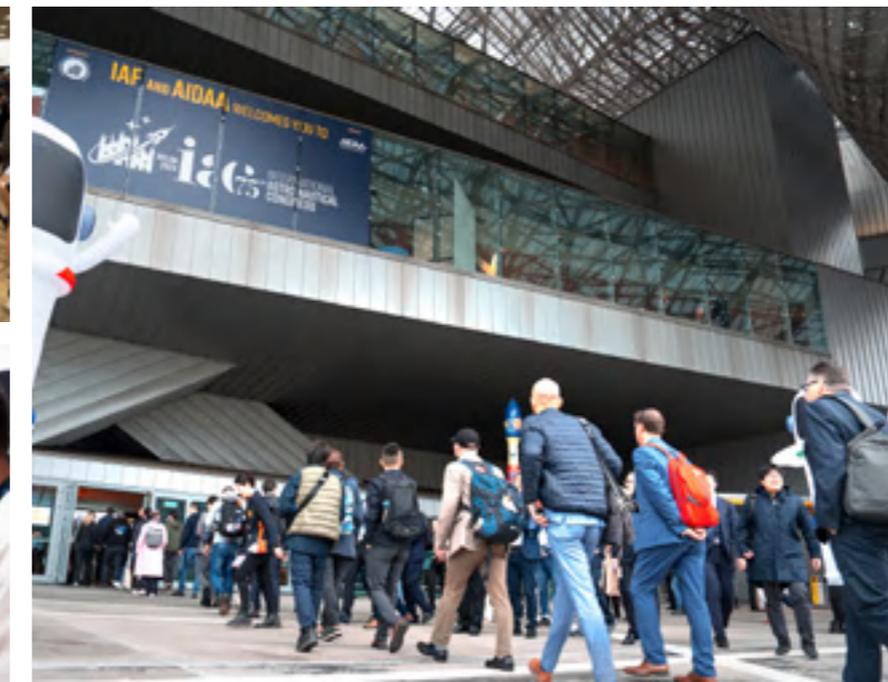


THE ARRIVAL

The opening day of the 75th International Astronautical Congress set an exciting record as the largest IAC in history, bringing together over 11,200 delegates from 120 countries. This unprecedented turnout made it one of the most diverse gatherings in the global space community.



MONDAY



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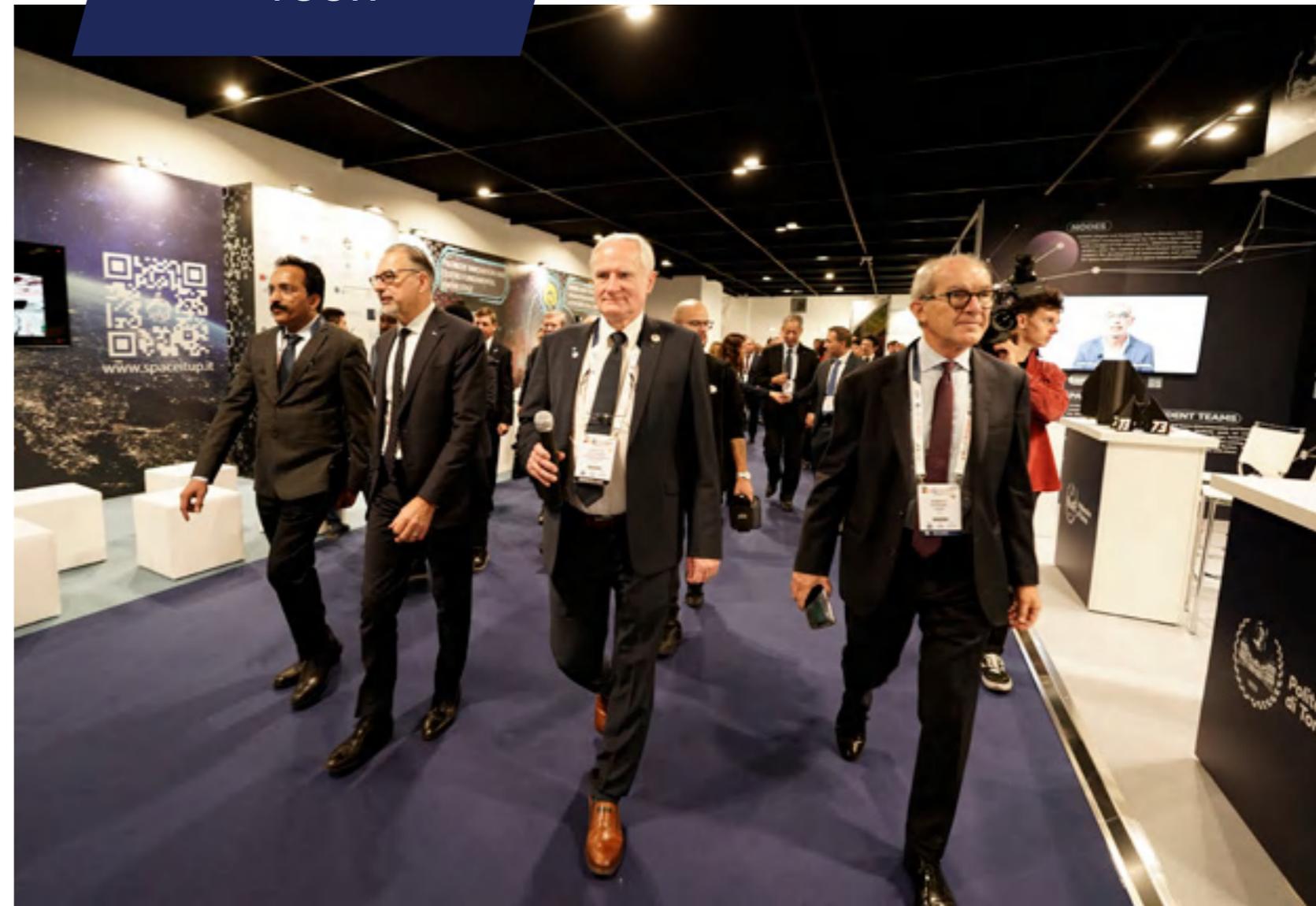


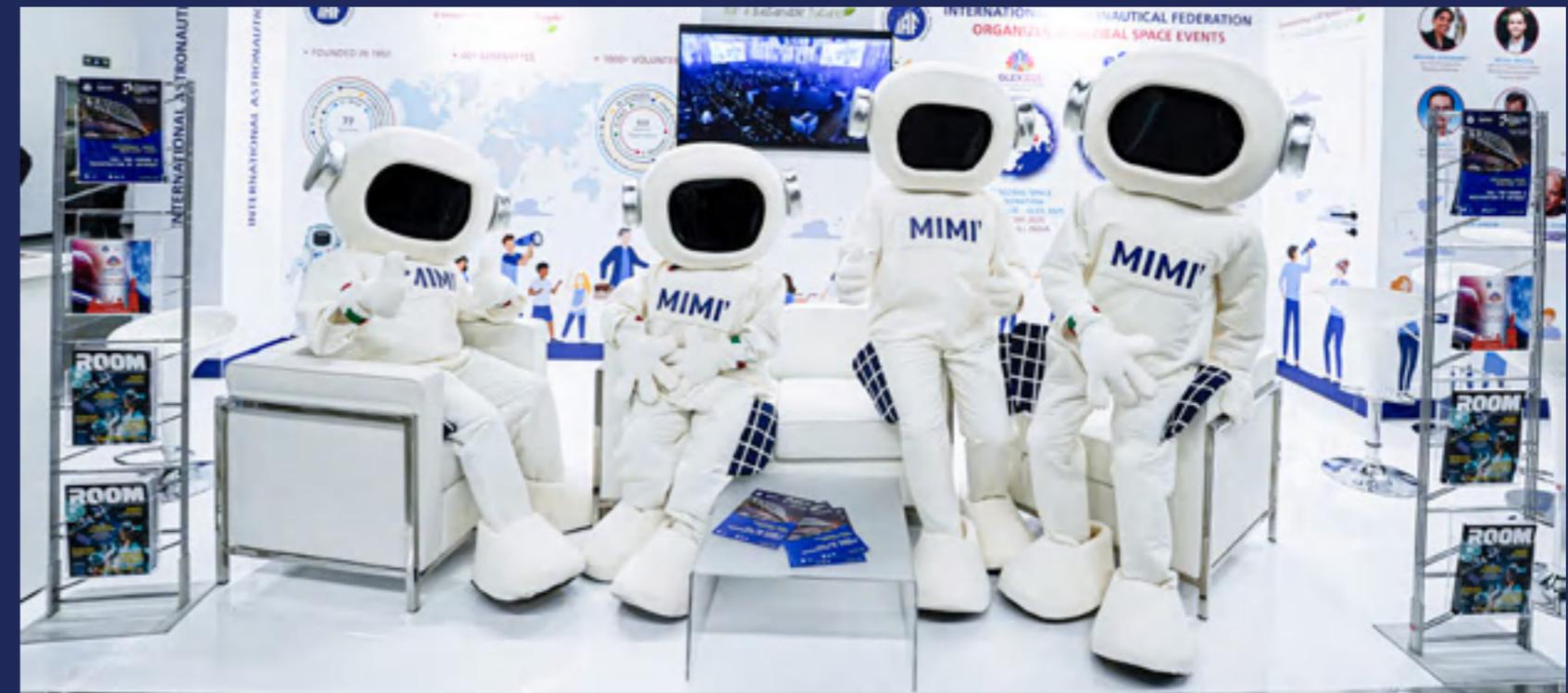
THE EXHIBITION OPENING



The astonishing IAC 2024 Exhibition featured a record number of more than 530 exhibitors! It was filled with captivating displays, interactive booths, and groundbreaking technologies, including the magnificent display of the samples from the far side of the Moon brought by China's Chang'e 6 mission as well as samples from the asteroid Bennu brought back by NASA's OSIRIX-REx Mission.

VIP EXHIBITION TOUR





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Six heads of agencies convened in the first panel of IAC 2024 to foster dialogue on pressing space issues and encourage collaboration among stakeholders from diverse backgrounds.







This plenary event highlighted the need for responsible practices in sustainable space exploration, focusing on Moon to Mars initiatives and collaborative efforts.





PRESS CONFERENCE

ARTEMIS ACCORDS MULTILATERAL PRESS BRIEFING



IAF GLOBAL NETWORKING FORUM



SPECIAL SESSIONS



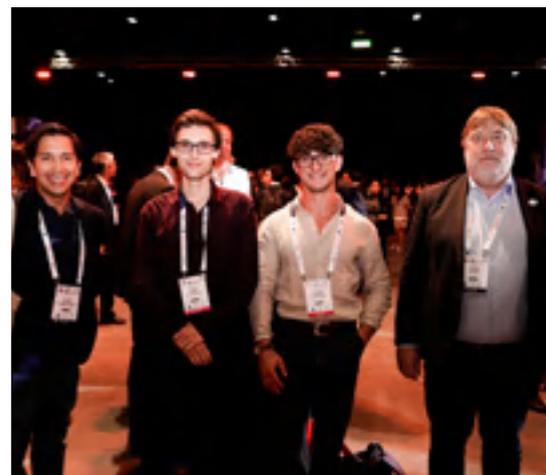
TECHNICAL SESSIONS



MONDAY



WELCOME RECEPTION



TUESDAY

INDUSTRY DAY

Sponsored by:



TUESDAY





This plenary event explored the future of space exploration through the lens of non-space sectors, highlighting innovative collaborations that aimed to unlock the Moon's potential.



IAF GLOBAL SPACE LEADERS SUMMIT



A key highlight of this year's IAC was the inaugural IAF Global Space Leaders Summit, uniting 60 heads of space agencies for a historic and the largest-ever gathering of leaders from established and emerging space nations to discuss cooperation, governance, and sustainability.







The recipients of this year's IAF Excellence in Industry Awards are United Launch Alliance in the large industry category, and ispace in the SME category.



INTERNATIONAL ASTRONAUTICAL FEDERATION
AIDAA
ASSOCIAZIONE ITALIANA DI AERONAUTICA E AEROSPAZIO

75th INTERNATIONAL ASTRONAUTICAL CONGRESS

VALUE OF RESOURCES: RECIPE FOR IN-SITU RESOURCE UTILIZATION ON SPACE FRONTIERS

MODERATOR

SPEAKERS

Jun SHIMADA
Lead for ISRU Research, Space Exploration Center, Japan Aerospace Exploration Agency (JAXA)

Kathryn HADLER
Director, European Space Resources Innovation Centre (ESRIC)

Jeffrey HOFFMAN
Professor of the Practice of Aerospace Engineering, Massachusetts Institute of Technology

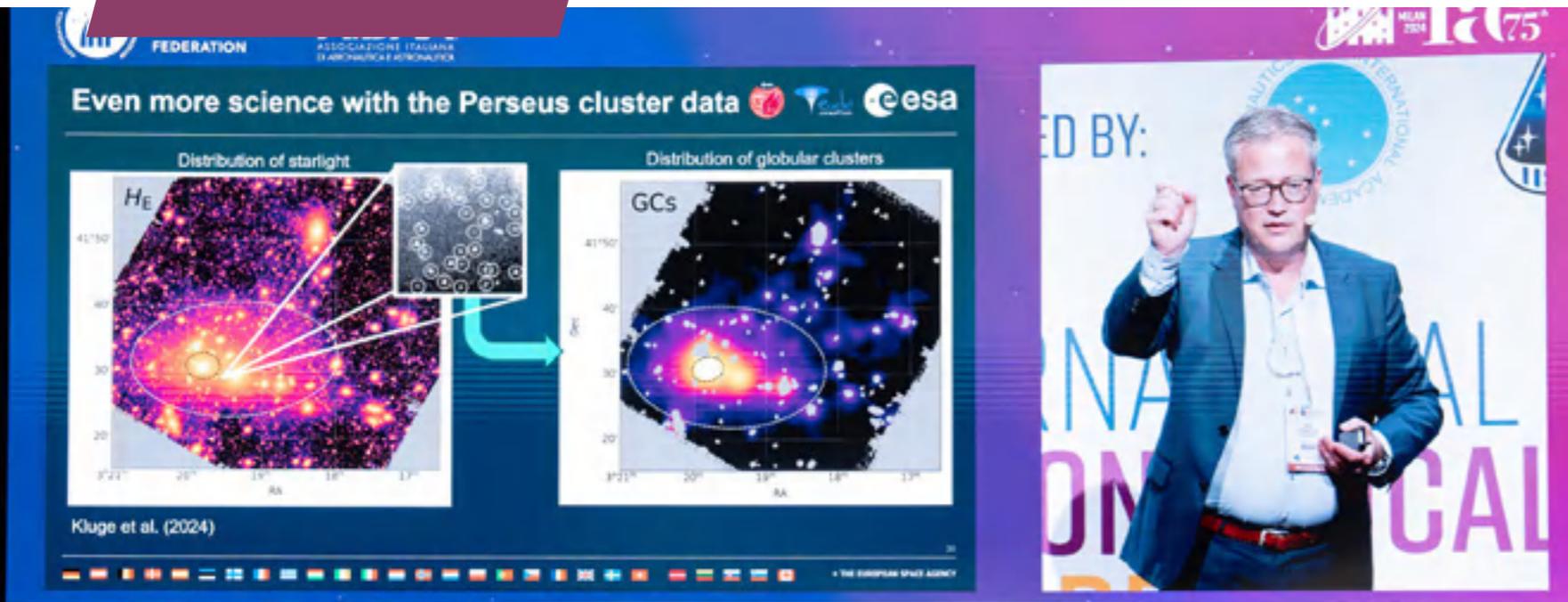
Simone PIRROTTA
Exploration and Orbital Infrastructures Office, Italian Space Agency (ASI)

Gerald B. SANDERS
Lead, In-Space Resource Utilization (ISRU), National Aeronautics and Space Administration (NASA)



This plenary examined advancements in in-situ resource utilization (ISRU) and how international cooperation could enable the production of essential materials on the Moon and Mars.





The highlight lecture summarized the Euclid mission, focusing on its dark Universe survey to study dark energy and dark matter, and outlined the development challenges and international collaboration for data processing.





The late breaking news highlighted the successful Chang'E-6 mission, which collected 1,935.3 kg of lunar samples from the Moon's far side, marking a historic achievement in lunar exploration and advancing international cooperation in space research.



The late breaking news revealed the Euclid mission's first-year observations, aimed at uncovering dark matter and dark energy, along with a preview of its capabilities and upcoming scientific results.

IAF GLOBAL NETWORKING FORUM



TUESDAY



SPECIAL SESSIONS



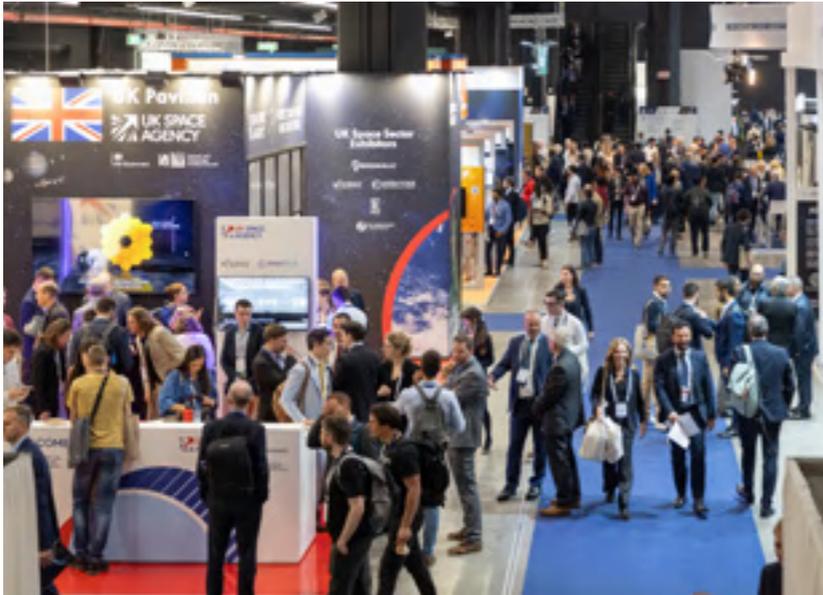
TUESDAY



TECHNICAL SESSIONS



EXHIBITION



WEDNESDAY

DIVERSITY DAY



Sponsored by:



WEDNESDAY





The 5th Plenary highlighted emerging leaders using big data, advanced algorithms, and autonomous robotics to improve space operations and tackle challenges like data integrity and space debris tracking.





Axiom Space and Prada revealed the next-generation spacesuit for the Artemis III lunar mission during a press conference, showcasing the Axiom Extravehicular Mobility Unit (AxEMU) and its advanced technologies.



ARTEMIS EVA Spacesuit Technology and Design

The Axiom Extravehicular Mobility Unit (AxEMU) spacesuit will be used for NASA's Artemis III mission, worn by the next humans to walk on the surface of the moon. The suit includes advanced technologies and provides unmatched flexibility, mobility, and safety for spacewalks on the lunar surface.

- Light and HD Camera
- Helmet & Visor
- Advanced 4G/5G Communication
- Endurance Athlete Based In-suit Nutrition
- Suit Control Interface
- Biometric Monitoring
- Advanced Tactiles
- Accommodates Wide Range of Crewmembers (anthropomorphic range)
- Enhanced Flexibility, Mobility, Safety
- Variable Suit Pressure
- Critical System Redundancy
- Regenerable CO2 Scrubbing System
- Maintained On-orbit/On-mission
- Modular, Evolvable Design
- Cellular Communication
- Portable Life Support System Backpack to Keep Astronauts Safe for Up to 8 Hrs
- Spacesuit Outer Layer Engineered/Designed by Axiom Space & Prada
- Custom-made Gloves
- Boots Engineered to Withstand Lunar Temp & Rough Terrain



Sponsored by:



WEDNESDAY





The plenary highlighted the essential role of space observation in addressing climate change, emphasizing satellite technology's impact on local adaptation and mitigation strategies.





The highlight lecture addressed the escalating freshwater crisis, emphasizing how satellite data is crucial for assessing and mitigating the impacts of extreme flooding and droughts globally.

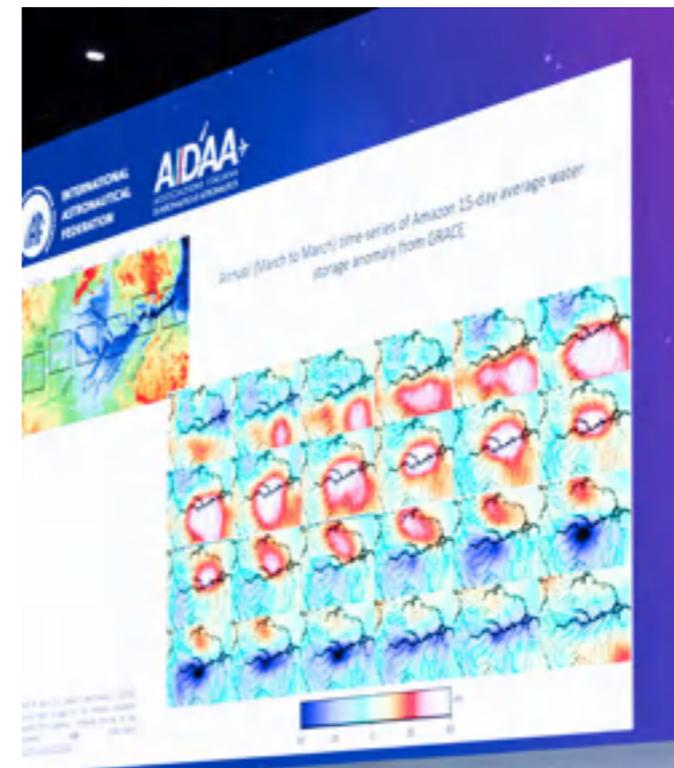
Emilia Romagna floods, May 2023





6 months rainfall in 2 days

- 17 deaths
- ~50,000 people displaced
- ~400 landslides
- >40 settlements flooded
- ~US\$10bn in damages
- F1 Grand Prix cancelled



IAF GLOBAL NETWORKING FORUM



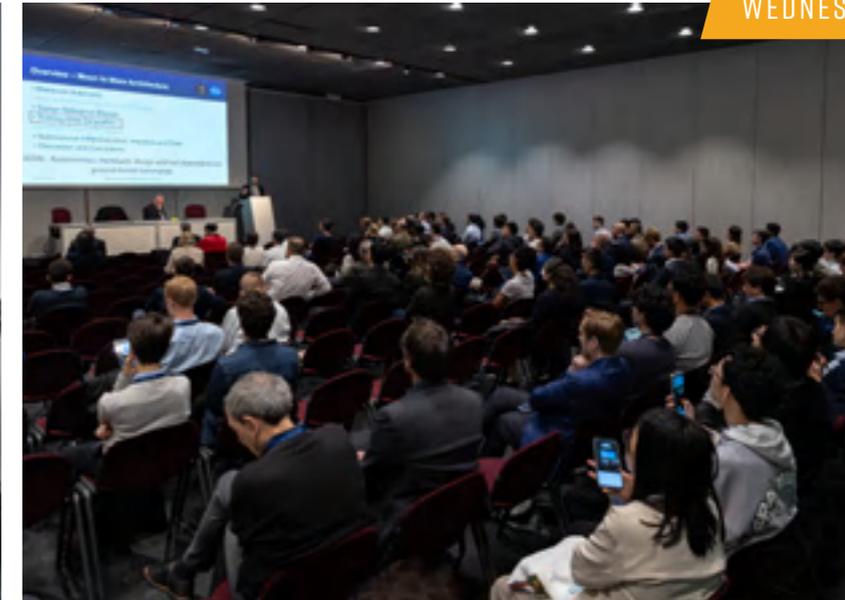
SPECIAL SESSIONS



WEDNESDAY



TECHNICAL SESSIONS



WEDNESDAY



THURSDAY

SCIENCE AND
ACADEMIC DAY

Sponsored by:



THURSDAY





The plenary discussed China's progress and future plans for human spaceflight, highlighting the Tiangong Space Station's capabilities and inviting global collaboration in microgravity research and experiments.

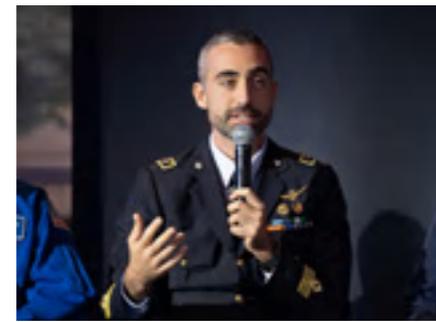
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THURSDAY



PRESS CONFERENCE

PROMOTING EARTH'S SUSTAINABILITY: INSIGHTS FROM SPACE BY INTERNATIONAL ASTRONAUTS





The session showcased India's Chandrayaan-3 mission, which achieved a historic soft landing near the Moon's South Pole and revealed significant geological data, with plans for a crewed lunar mission by 2040.

IAF GLOBAL NETWORKING FORUM



THURSDAY

SPECIAL SESSIONS



THURSDAY

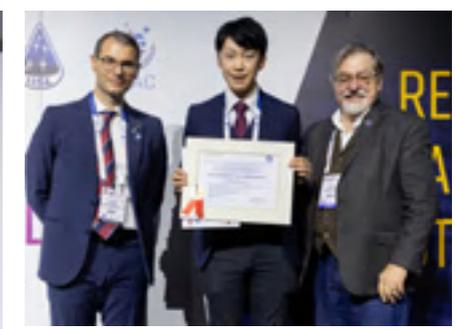


INTERACTIVE PRESENTATIONS

IP AWARD CEREMONY AND INTERACTIVE PRESENTATIONS SESSION



THURSDAY





FRIDAY

PUBLIC DAY



The lecture announced the successful inaugural flight of Ariane 6 on July 9, 2024, marking a significant achievement in European engineering after a decade without new rocket launches.



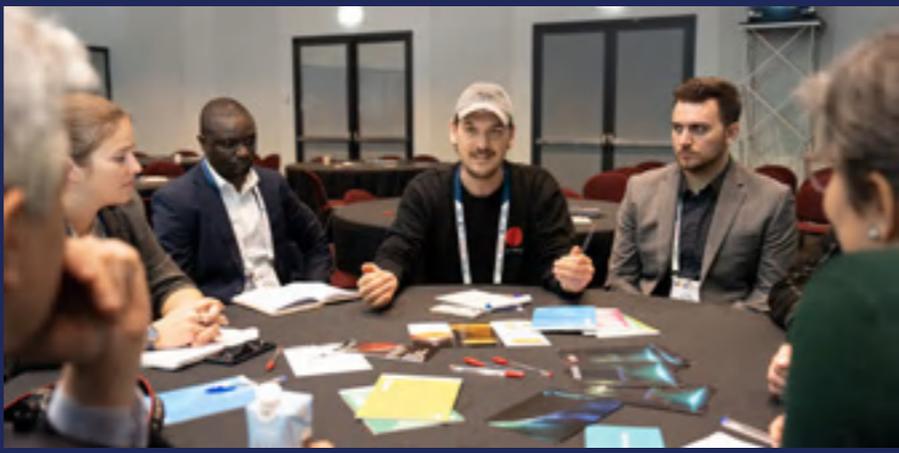
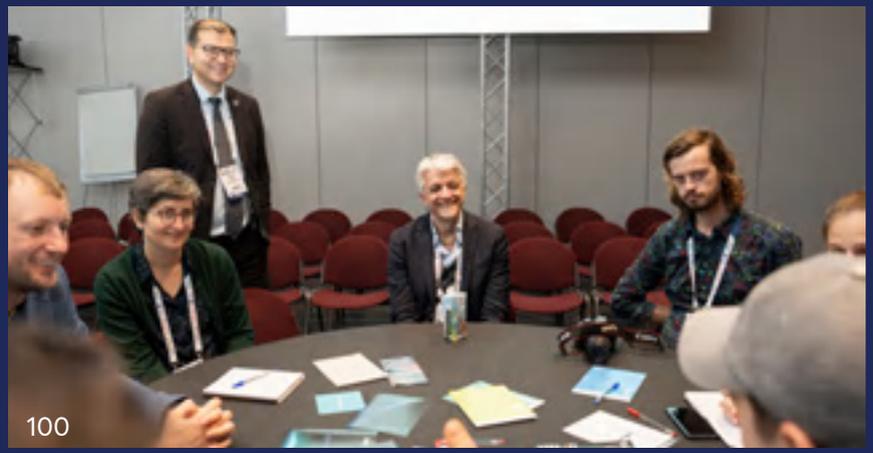
IAF GLOBAL NETWORKING FORUM



FRIDAY



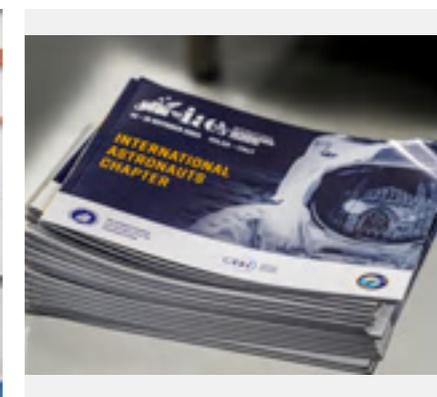
SPECIAL SESSIONS



PUBLIC DAY



FRIDAY



Four new Vice-Presidents have been elected to the IAF Bureau:

- **Amal ALBINALI**, Kingdom of Bahrain National Space Science Agency (NSSA), has been appointed as IAF VP for Education and Workforce Development

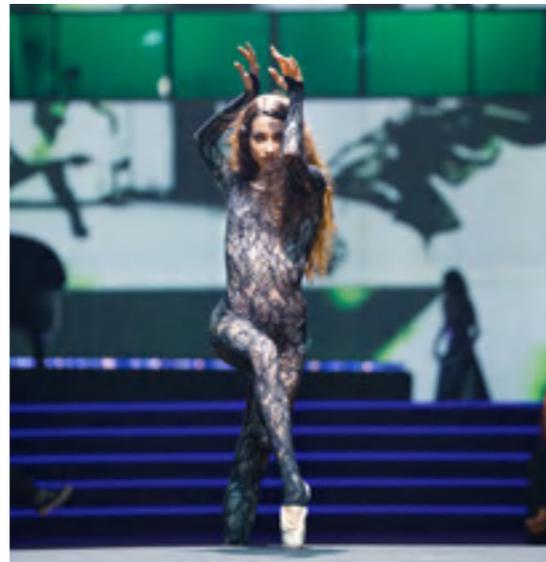
- **Samaddin ASADOV**, Space Agency of the Republic of Azerbaijan (Azercosmos), has been appointed as IAF VP for Science and Academic Relations
- **Enrico PALERMO**, Australian Space Agency, has been appointed as IAF VP for Space Agency Relations
- **David SPENCER**, American Astronautical Society (AAS), has been appointed as IAF VP for IAF Global Networking Forum





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ORGANIZER:



International Astronautical Federation

100 Avenue de Suffren
75015 Paris, France

Phone: +33 1 45 67 42 60

E-mail: info@iafastro.org

www.iafastro.org

Connecting @ll Space People
for a sustainable future 

HOST:



Italian Association of Aeronautics and Astronautics (AIDAA)

Via Salaria 851,
00138 Rome, Italy

Phone: (+39) 366 1442131

Email: info@aidaa.it

www.aidaa.it