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29.SEP-03.OCT.2025

SYDNEY, AUSTRALIA

PUBLIC, PLENARY & IAF GNF PROGRAMME

FINAL PROGRAMME

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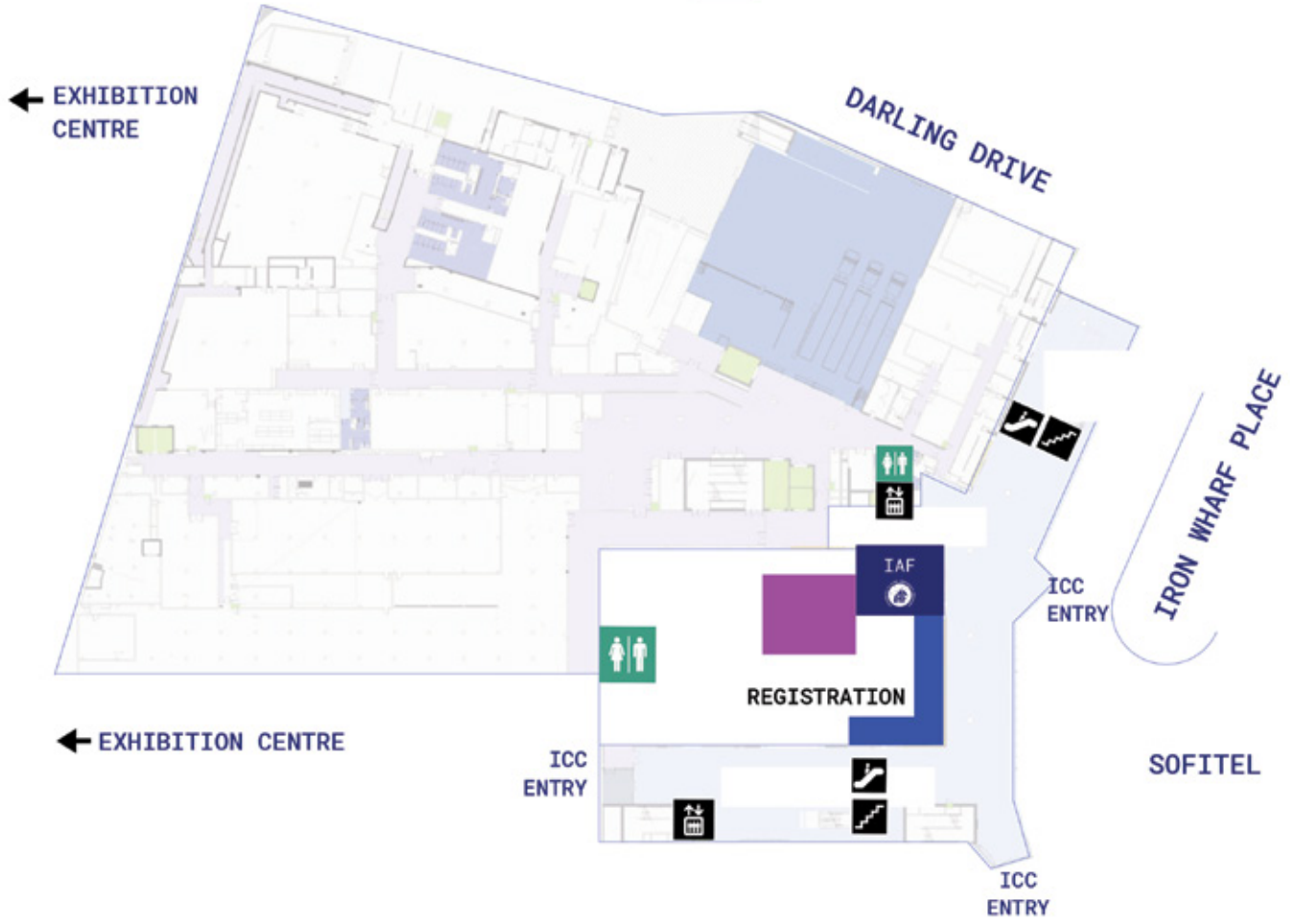
CONTENTS

Floor plans

ICC CONVENTION CENTRE
GROUND FLOOR

LEGEND

ELEVATORS
ESCALATORS
REGISTRATION
STAIRS
TOILETS
IAF SECRETARIAT
SPEAKERS PREPARATION CENTRE



ICC CONVENTION CENTRE
LEVEL 1

LEGEND

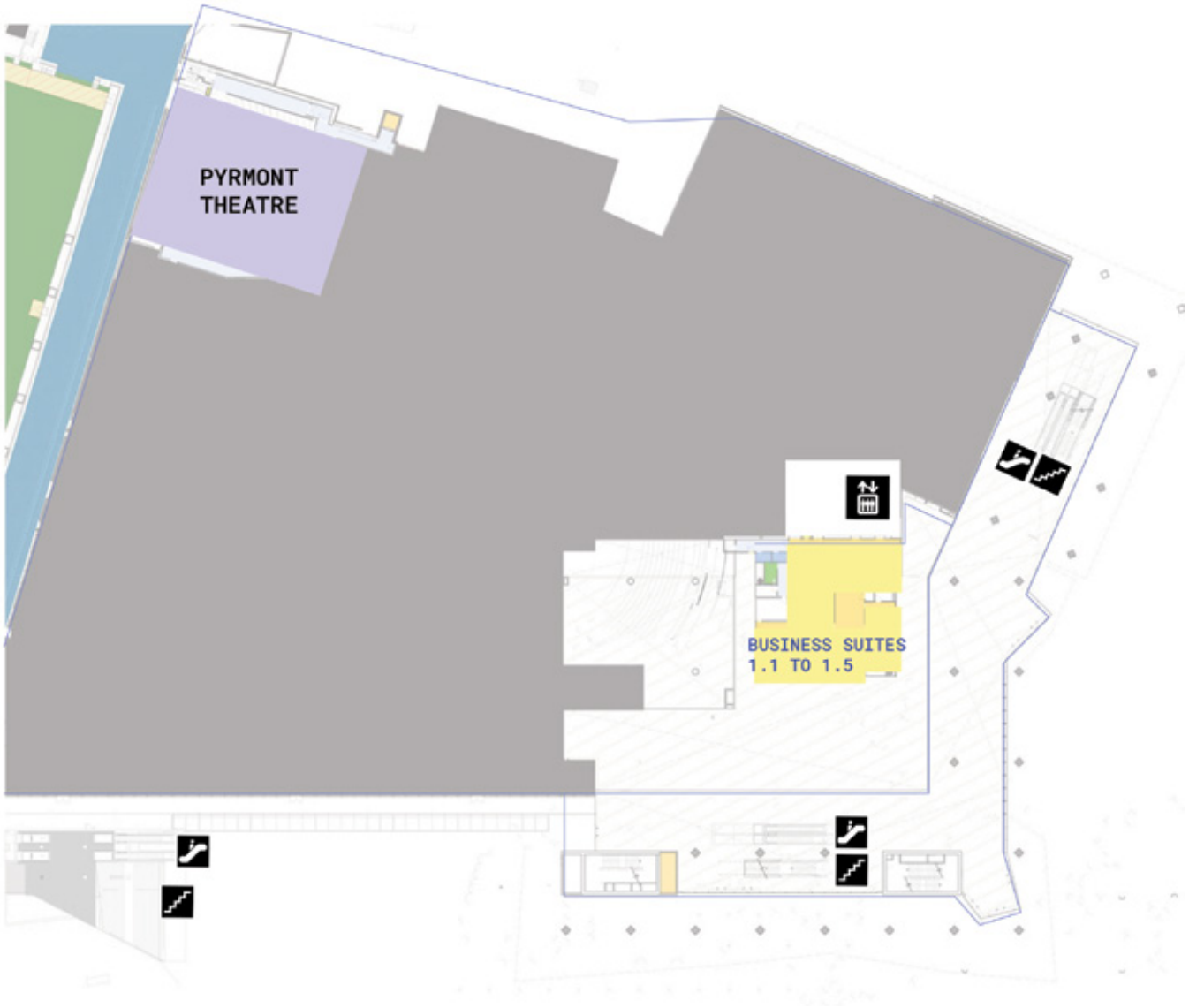
ELEVATORS

ESCALATORS

BUSINESS SUITES

STAIRS

TOILETS



ICC CONVENTION CENTRE
LEVEL 2

LEGEND

ELEVATORS
STAIRS
ESCALATORS
TOILETS
DARLING HARBOUR THEATRE
PYRMONT THEATRE
THE GALLERY
TECHNICAL SESSION ROOMS
PARKSIDE 1
PARKSIDE 2
PARKSIDE

ICC CONVENTION CENTRE
LEVEL 3

LEGEND

ELEVATORS

TOILETS

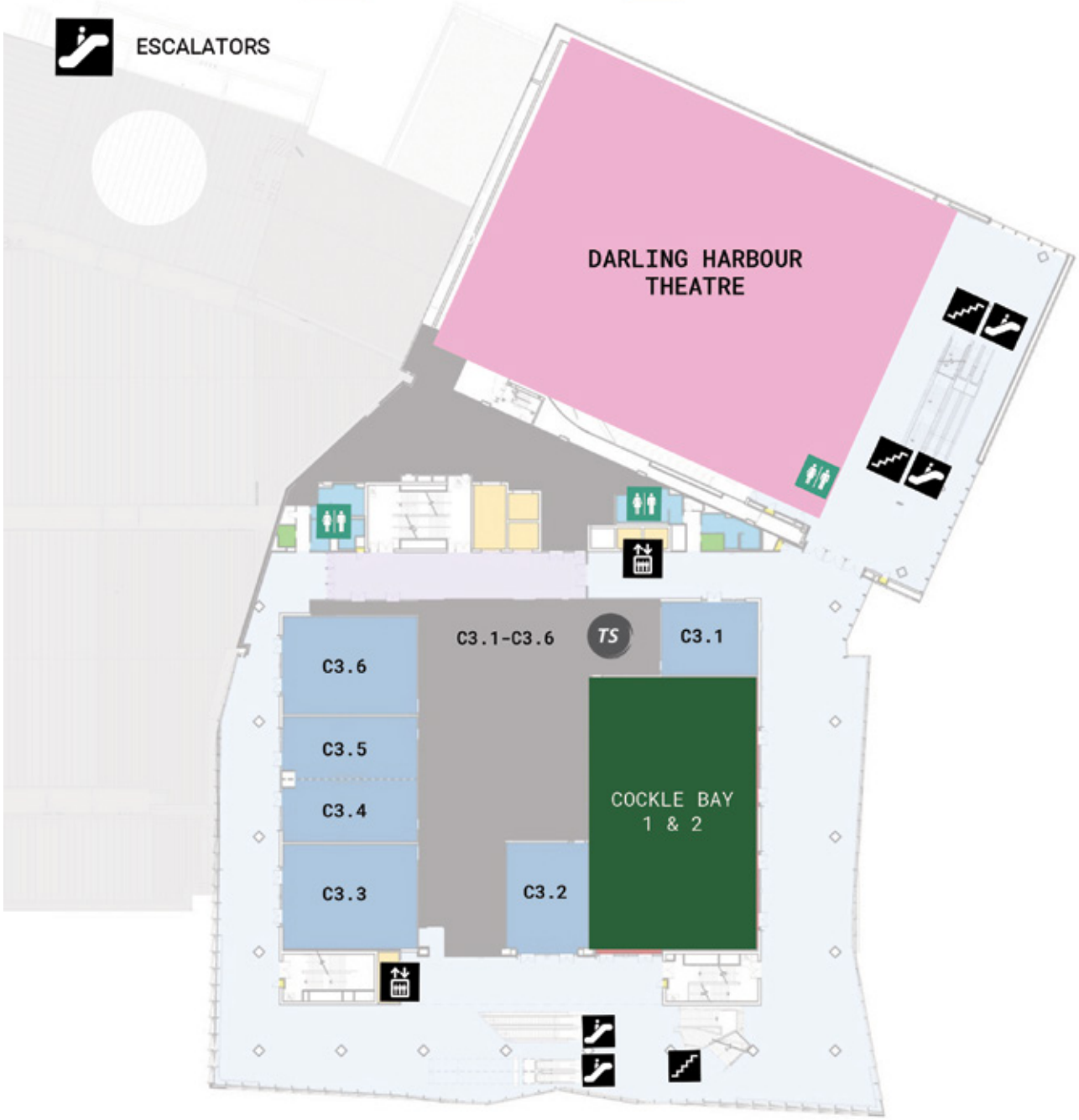
COCKLE BAY 1 & 2

STAIRS

DARLING HARBOUR THEATRE

TECHNICAL SESSION ROOMS

ESCALATORS



ICC CONVENTION CENTRE
LEVEL 4

LEGEND

ELEVATORS
TOILETS
SPECIAL SESSION ROOM
STAIRS
DARLING HARBOUR THEATRE
TECHNICAL SESSION ROOMS
ESCALATORS

ICC CONVENTION CENTRE
LEVEL 5

LEGEND

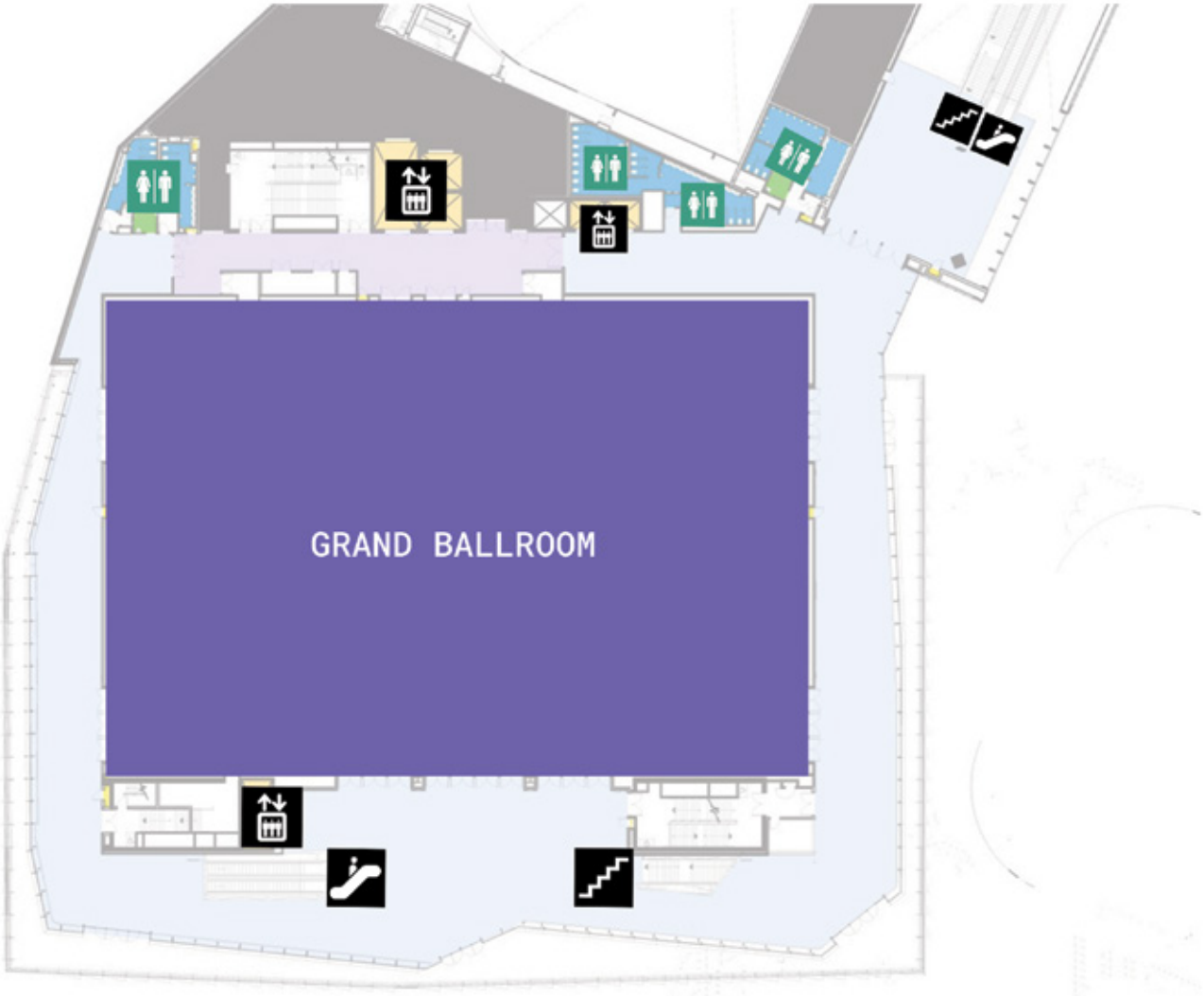
ELEVATORS

TOILETS

STAIRS

GRAND BALLROOM

ESCALATORS



ICC EXHIBITION CENTRE
LEVEL 1

LEGEND

ELEVATORS
TOILETS
EXHIBITION HALLS
STAIRS
ESCALATORS

ICC EXHIBITION CENTRE
LEVEL 2

LEGEND

ELEVATORS

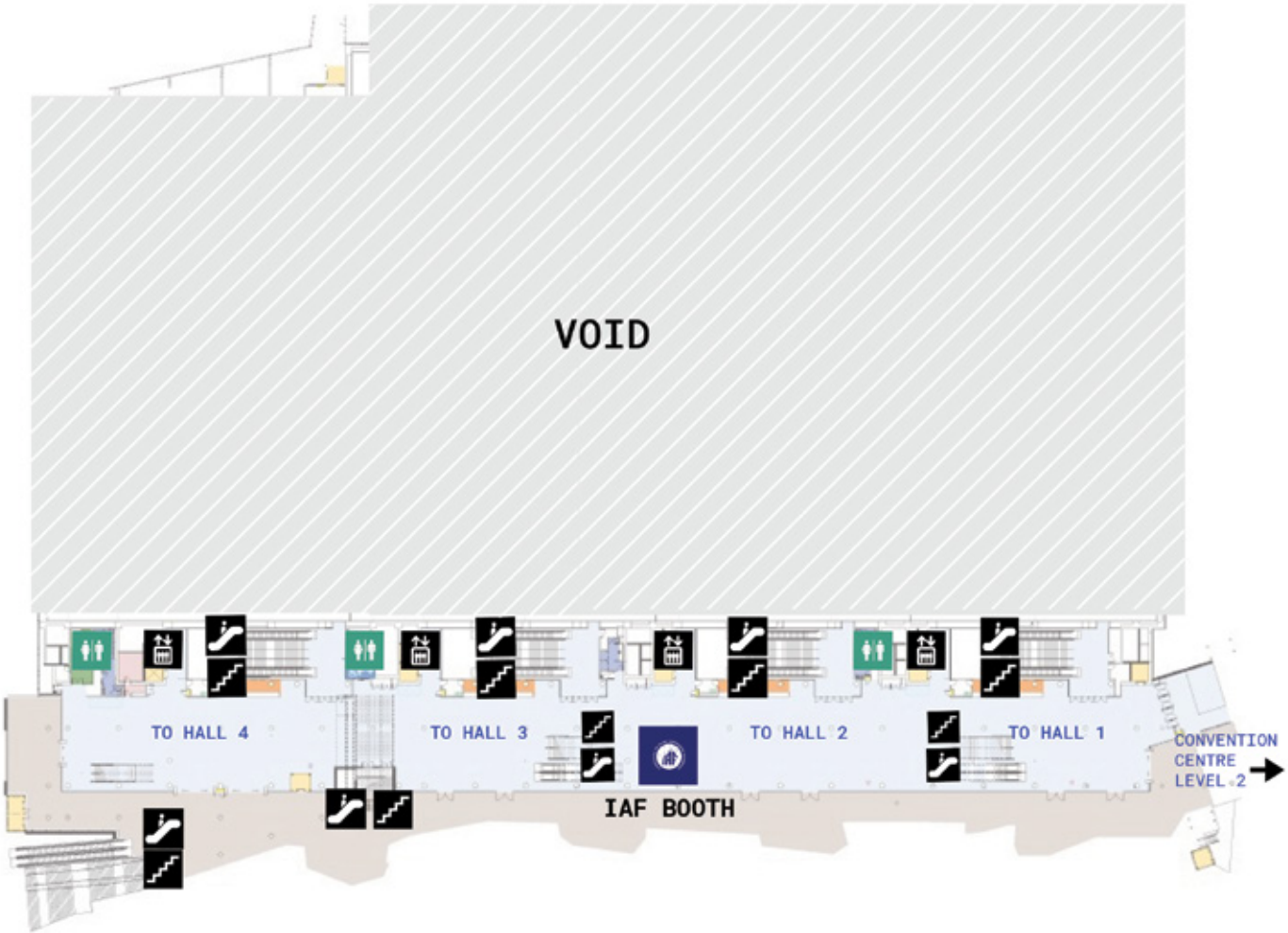
TOILETS

VOID

STAIRS

ESCALATORS

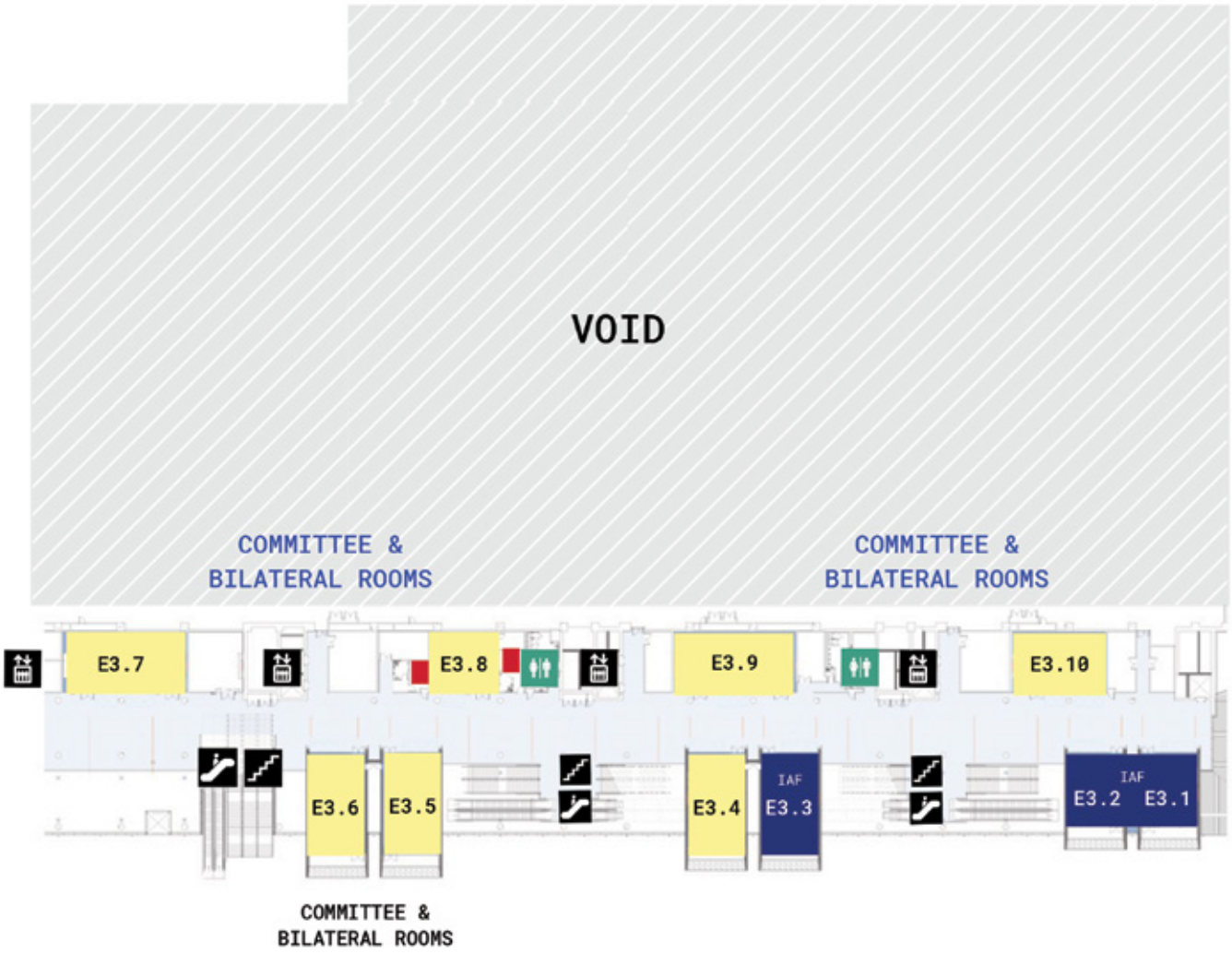
IAF BOOTH



ICC EXHIBITION CENTRE
LEVEL 3

LEGEND

ELEVATORS
TOILETS
COMMITTEE & BILATERAL MEETING ROOMS
STAIRS
VOID
IAF OFFICES
ESCALATORS
PRAYER ROOMS



ICC EXHIBITION CENTRE
LEVEL 5

LEGEND

ELEVATORS

TOILETS

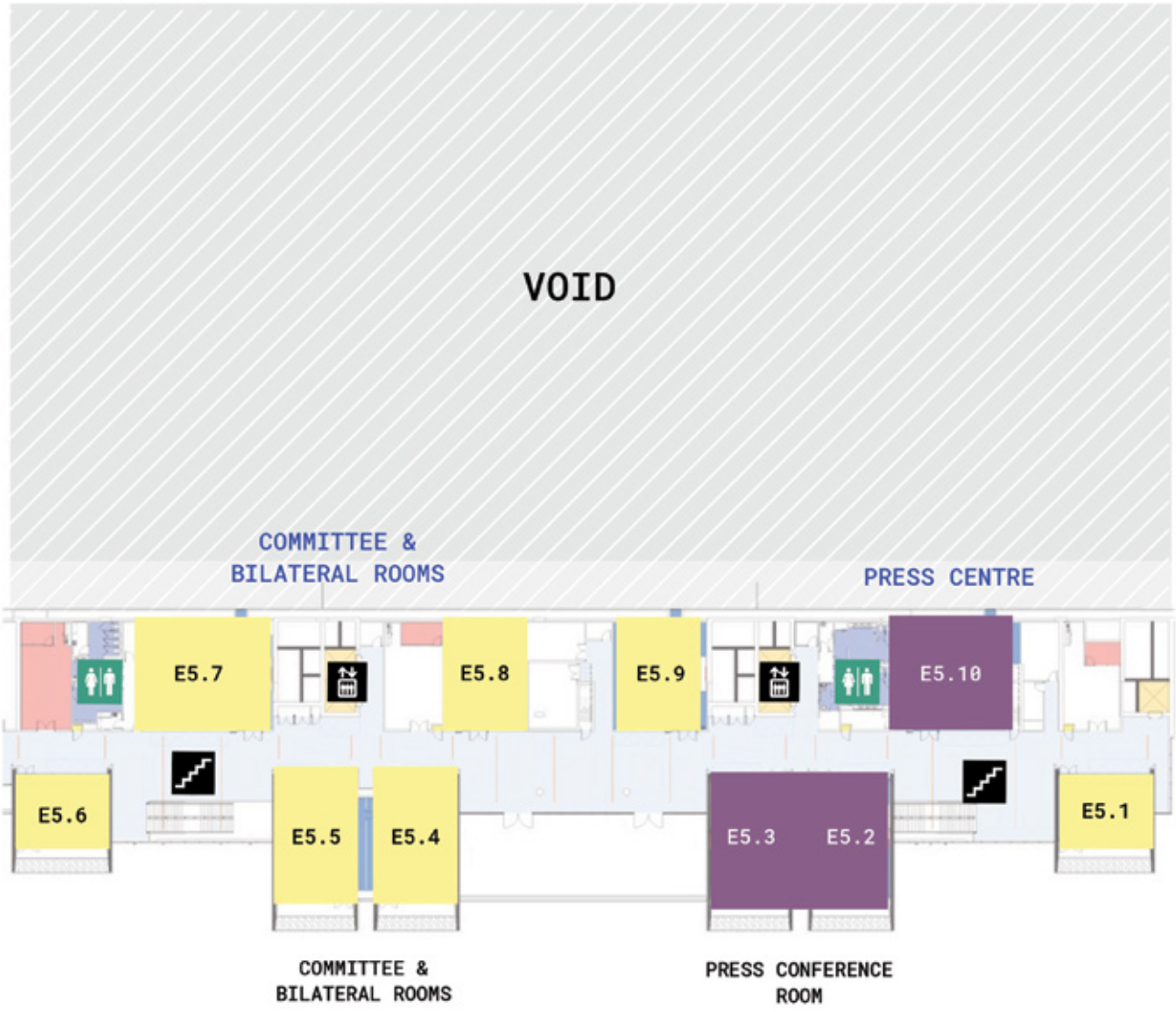
COMMITTEE & BILATERAL MEETING ROOMS

STAIRS

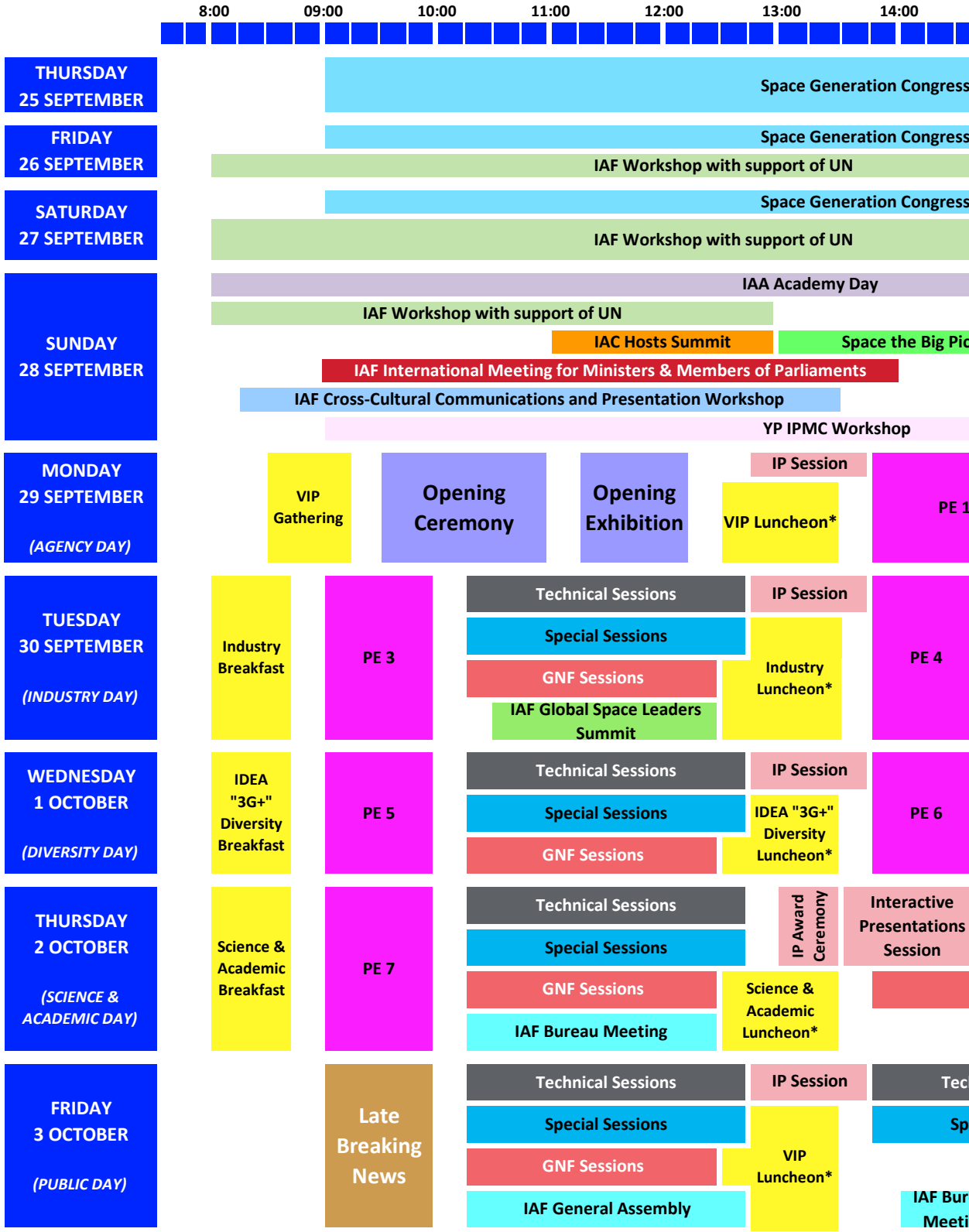
VOID

PRESS/ MEDIA ROOMS

ESCALATORS



1 Congress at a Glance



Please Note: *By invitation only; Pre-Congress events as well as the IISL Moot Court are dedicated to the

respective participants

2 Plenary and IAF GNF Programme at a Glance


13 h 00
14 h 00
15 h 00
16 h 00
17 h 00
18 h 00
19 h 00
One-to-One with Heads of Agencies
ESA Strategy 2040: The Process of Defining ESA's Vision for Europe in Space
Leveraging AI and Emerging Technologies to Drive Innovation and Economic Impact in Space
Ocean Intelligence using Space Data
Beyond integration: Building Earth-Sky Knowledge Infrastructure for Co-discovery in Space and Sustainability
Learning to Live on Another World: The International Community's Return to the Moon
Station to Table: Perspectives on Space Food
ISS to Starlab: The Future of Commercial Space Stations and Global Policy
Unlocking the Commercial Potential for Space-Enabled Healthcare
Waratah Seed: Australia's First Industry Ride-Share Satellite
Designing the Future of Human Spaceflight
Success in Space Through Security, Investment, and Sustainability
Earth Observation for Pacific Disaster Resilience: Synergizing Industry, Government, and NGOs
Systems Architecture and Realization Workforce: Key Success Competencies
ADRAS-J: First Encounter with Space Debris
ROCK and ROLL: Striking a Chord Between Terrestrial Mining Innovation and Space Resource Utilization Opportunities
Sharing space: how satellite constellations and astronomy can co-exist
Out of this world: Building a mobile network on the Moon
Tactically Responsive Space
Astronomy from the Moon and the need for sustainable special sites
Becoming Interplanetary: Film Screening and Dialogue on Human Futures Beyond Earth
Closing Ceremony

3 Daily Congress Programme

All the timings are in accordance with Australian Eastern Standard Time (AEST).

Monday 29 September

8:30 – 09:15	VIP Gathering

Location: Pyrmont Theater Foyer, International Convention Center (ICC) Sydney

09:30 – 11:00	Opening Ceremony

Location: Darling Harbour Theatre, International Convention Center (ICC) Sydney

Master of Ceremony

Keegan BUZZA
Director, Community Engagement,
Australian Space Agency,
Australia

Speakers:

Senator the Hon Tim AYRES
Minister for Industry and Innovation and Minister for Science,
Australian Government,
Australia

Jeremy HALLETT
Executive Chair,
Space Industry Association of Australia,
Australia

The Hon Chris MINNS
Premier,
NSW Government,
Australia

Clay MOWRY
President,
International Astronautical Federation (IAF),
United States

Asanda NTISANA
VP: Honours and Awards,
IAF Bureau,
South Africa

11:15 – 12:15	Exhibition Opening

Location: Exhibition Halls, Level 1, Exhibition Centre, International Convention Center (ICC) Sydney

12:30 – 13:30 VIP Luncheon (upon invitation only)

Location: Parkside 1, International Convention Centre (ICC) Sydney

Sponsored by: planet.

Opening Welcome

Ben ALLARD
Senior Director, Business Development Sales Lead,
APAC
Australia

13:45 – 15:15 Plenary 1 – One-To-One with Heads of Agencies

PE

Location: Darling Harbour Theatre, International Convention Center (ICC) Sydney

Master of Ceremony

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

Opening Welcome

Enrico PALERMO
VP: Space Agency Relations,
IAF Bureau,
Head,
Australian Space Agency,
Australia

Speakers:

Josef ASCHBACHER
Director General,
European Space Agency (ESA),
France

Zhigang BIAN
Vice Administrator,
China National Space Administration (CNSA),
China

Lisa CAMPBELL
President,
Canadian Space Agency (CSA),
Canada

Sean DUFFY
Acting Administrator,
National Aeronautics and Space Administration (NASA),
United States

V. NARAYANAN
Chairman,
Indian Space Research Organisation (ISRO),
India

MODERATOR
Clay MOWRY
President,
International Astronautical Federation (IAF),
United States

MODERATOR
Enrico PALERMO
VP: Space Agency Relations,
IAF Bureau,
Head,
Australian Space Agency,
Australia

15:25 – 15:55	IAF GNF – ESA Strategy 2040: The Process Of Defining ESA'S Vision For Europe In Space

Location: Parkside 2, International Convention Center (ICC) Sydney

This presentation will explore how the European Space Agency (ESA) developed Strategy 2040—a collective, future-oriented roadmap designed to guide Europe's role in space over the next 15 years. More than a strategic document, it represents a coordinated effort of vision and collaboration, uniting 23 Member States, 11 ESA directorates, and a wide range of stakeholders across Europe.

The session will detail how the strategy was shaped through strategic foresight, international benchmarking, scenario planning, and inclusive engagement—from national space agencies to young professionals. The result is a vision aligned with Europe's long-term ambitions and the needs of its citizens.

At the core of Strategy 2040 is the drive to build a united, thriving European space ecosystem—one that not only competes globally, but inspires. Inspires the next generation of scientists, engineers, entrepreneurs, and explorers to dream beyond borders—and beyond Earth.

Europe already possesses world-class talent and a rich scientific legacy. Strategy 2040 provides the roadmap to turn that potential into action. Anchored by five strategic goals—planetary protection, space exploration, strategic autonomy, competitiveness, and societal inspiration—the strategy is a commitment to delivering real, lasting benefits for society, the economy, and the planet.

This session will offer an inside view into how Europe is shaping its future in space—with purpose, innovation, and unity.

Sponsored by:

Speaker:

KEYNOTE SPEAKER
Heriberto SALDIVAR
Head of Strategy,
European Space Agency (ESA),
France

16:05 – 16:50 IAF GNF – Leveraging AI And Emerging Technologies To Drive Innovation And Economic Impact In Space

Location: Parkside 2, International Convention Center (ICC) Sydney

The space sector is undergoing rapid transformation through AI and emerging technologies. This session will examine applications in satellite operations, deep-space missions, and Earth observation, while exploring how these advancements create economic value.

This session supports GNF's mission by fostering dialogue at the intersection of space policy, technology, and economic development, highlighting UAE's leadership also while encouraging international collaboration. It will feature perspectives from government, academia, industry, and startups to offer a 360-degree view of how AI is reshaping the space ecosystem.

Sponsored by: وكالة الإمارات للفضاء UAE SPACE AGENCY

Speakers:

H.E. Dr. Mohammed Nasser AL AHBABI
Senior Advisor,
EDGE Group,
United Arab Emirates

H.E. Salem Humaid ALMARRI
Director General,
Mohammed Bin Rashid Space Centre (MBRSC),
United Arab Emirates

H.E Eng. Salem Butti Salem AL QUBAİSİ
Director General,
UAE Space Agency,
United Arab Emirates

Elias TSOUTSANIS
Chief Researcher,
Technology Innovation Institute's Propulsion and Space Research Center,
United Arab Emirates

MODERATOR
Fatima AL SHAMSHI
Acting Head of Space Regulations and Policies,
UAE Space Agency,
United Arab Emirates

17:05 – 18:05 IAF GNF – Ocean Intelligence Using Space Data

Location: Parkside 2, International Convention Center (ICC) Sydney

The Oceans cover 71% of our planet's surface and supports the livelihoods of over 3 billion people. Oceans are warming and rising, with potentially far-reaching consequences for coastal communities and beyond. Resilience and preparedness can be enabled by leveraging diverse innovative products that make use of satellite data and in situ information. By convening non-space actors, the private sector, space agencies and the UN, this session will explore opportunities, challenges, and gaps in using space data for maritime security, early warning, ocean preservation and resilience.

Organized by:

Sponsored by: Synspective

UNITED NATIONS Office for Outer Space Affairs

Ridge-i

Speakers:

Christian HAUGLIE-HANSSEN
Director General,
Norwegian Space Agency (NOSA),
Norway

Mafua-'i-Vai'utukakau MAKA
Director,
Tonga National Disaster Risk Management Office (NDRMO),
Tonga

Madin MASEEH
Founder & President,
Maldives Space Research Organization,
Maldives

Dawn MCINTOSH
Director,
Space Systems,
Fugro Australia,
Australia

Atsushi TAKATA
Executive Vice President for Global Strategy and Space Utilization,
SpaceData,
Japan

MODERATOR
Aarti HOLLA-MAINI
Director,
United Nations Office for Outer Space Affairs (UNOOSA),
Austria

18:15 – 19:15 Plenary 2 – Beyond integration: Building Earth-Sky Knowledge Infrastructure for Co-discovery in Space and Sustainability

PE

Location: Darling Harbour Theatre, International Convention Center (ICC) Sydney

Space is not empty or dark. There is no such thing as 'Space nullius'. Space itself is alive. Like all living things it needs care, respect and balance. Without embracing this perspective, space exploration cannot be truly sustainable.

The Host nation Plenary will explore how co-discovery in the space sector through structured collaboration between Western science and Indigenous knowledge can unlock new insights into space and sustainability. Drawing parallels with multi-messenger astronomy - where combining detection methods enriches cosmic understanding - the session will illustrate how methodological integration might reveal patterns in earth-sky relationships not accessible through single approaches alone.

Key considerations will include developing institutional mechanisms, creating professional pathways for knowledge integration, and establishing validation protocols across alternate ways of knowing. The session will explore our potential to pioneer systematic approaches in this domain, framing knowledge integration as a form of R&D that could expand analytical capabilities for addressing complex space sustainability challenges.

The Australian Space Agency commissioned five Indigenous Australian strategic advisors to develop the Host Nation Plenary and is deeply grateful for their significant contributions.

The Agency also wishes to thank the New Zealand Space Agency and the Canadian Space Agency for supporting the participation of international Indigenous speakers.

Speakers:

Reuben BOLT
Deputy Vice-Chancellor, Indigenous Strategy and Services,
The University of Sydney,
Australia

Martin NAKATA
Deputy Vice-Chancellor, Indigenous Education & Strategy,
James Cook University,
Australia

Enrico PALERMO
Head,
Australian Space Agency,
Australia

David PERENARA-O'CONNELL
Chair of the Board,
Te Taumutu Rūnanga Representative,
Tāwhaki Joint Venture,
New Zealand

Laurie ROUSSEAU-NEPTON
Assistant Professor,
University of Toronto,
Canada

MODERATOR
Mikaela JADE
Founder and CEO,
Indigital,
Australia

Additional Contributors:

The following Australian Indigenous Strategic Advisors also played a pivotal role in the development of the Plenary and will be speaking at other times through the IAC 2025 week.

Deen SANDERS
Worimi Giparr; Special Counsel,
Deloitte Access Economics,
Australia

Kirsten BANKS
Lecturer,
Swinburne University of Technology,
Australia

17:15 – 17:45	Press Conference – Artemis Accords Press Briefing

Location: Room E5.2 + E5.3, Level 5, International Convention Center (ICC) Sydney

19:30 – 21:30	Welcome Reception

Location: Kensington Street, Chippendale

Tuesday 30 September

08:00 – 08:45 Industry Breakfast

Location: Parkside 1, International Convention Centre (ICC) Sydney

Sponsored by:

SPONSOR SPEAKER

Barbara NEGRI

Head, Human Flight and Scientific Experiments Unit, Science & Research Directorate,
Italian Space Agency (ASI) ,
Italy

WELCOME REMARKS

Clay MOWRY

President,
International Astronautical Federation (IAF),
United States

Speaker:

Mariella GRAZIANO

IRC Member, Executive Director of Strategy and Business Development - Science, Exploration and Transportation
GMV Space Systems,
Italy

09:00 – 10:00 Plenary 3 – How a Circular Economy Framework Unlocks Commercial Success in Space

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

The next generation of the space economy is set to expand beyond launch and satellite communications, powered by the adoption of a sustainable circular economy framework. This panel brings together global leaders from pioneering commercial ventures to explore how sustainability is shaping the future of diverse sectors, including on-orbit servicing, orbital material processing, reusable orbital vehicles, and commercial launch destinations.

As the demand for space-based solutions grows, so too does the need for sustainable practices that minimize waste, maximize the reuse of resources, and harness in-situ capabilities to build a resilient orbital ecosystem. Circular economy principles offer a roadmap for achieving this vision by reducing dependency on Earth-based supply chains, extending the lifespan of assets, and enabling the efficient utilization of orbital infrastructure.

Panelists will discuss how these principles are not only unlocking new economic opportunities but also driving long-term stewardship of the orbital environment. The conversation will highlight the transformative potential of integrating sustainability into business models and how this approach is creating innovative revenue streams while fostering collaboration between industries and governments.

This session will inspire attendees with actionable insights on how circular economy practices can accelerate commercial success and establish the foundation for a sustainable, thriving in-space economy -- one that benefits both orbital ecosystems and life on Earth.

Speakers:

Dana BAKI
Chief Commercial & People Officer,
The Exploration Company GmbH,
Germany

Chris BLACKERBY
Group COO,
Astroscale,
Japan

Max HAOT
CEO,
Vast,
United States

Jeffrey HENDRIKSE
Co-Founder & CTO,
ATMOS Space Cargo,
Germany

MODERATOR
Tim PARSONS
Board Member,
Space Industry Association of Australia,
Australia

10:15 – 11:15 | IAF GNF – From Leo To Lunar: Delivering Sustainable Innovation In Space

Location: Parkside 2, International Convention Center (ICC) Sydney

While unprecedented growth of the population of satellites in Low Earth Orbit (LEO) continues unabated, lunar surface missions, which will be served by satellites in the moon's orbit, are also being envisioned, developed, and launched at an accelerating pace. These exciting space technology and service innovations promise great benefit to the advancement of humankind, but also drive deep concerns about long-term space sustainability, including sustainability of mission critical radiofrequency spectrum that underlies these operations in space. Enabling long-term sustainability of space and spectrum requires urgent national and global action.

This GNF will feature a discussion by experts on efforts currently underway by large LEO system operators, space agencies, and the International Telecommunication Union (ITU) to develop and build global consensus on technological, operational, and regulatory approaches and immediate steps to address these mounting space sustainability challenges. The ITU's upcoming 2027 World Radiocommunication Conference (WRC-27) provides a significant opportunity to enact new international regulations on the sustainable use of orbits and spectrum in LEO and cislunar space as part of the Final Acts of a United Nations treaty conference. Such decisions become amendments to the ITU's Radio Regulations that bind ITU Member States and their domestically authorized operators of space and earth stations to operate in accordance with the provisions of the Radio Regulations and the ITU's Constitution.

Notably, this GNF also offers a rare opportunity for conversation among the largest LEO operators from Asia and North America as well as a leader in the international efforts to return humankind to the moon.

Sponsored by: amazon

Speakers:

Jorge CICCOROSSI
Head, Space Strategy and Sustainability Division, ITU Radiocommunication Bureau,
International Telecommunications Union (ITU),
Switzerland

Kevin COGGINS
Deputy Associate Administrator and Program Manager, Space Communications and Navigation Program (SCaN),
National Aeronautics and Space Administration (NASA),
United States

David GOLDMAN
Vice President, Satellite Policy,
SpaceX,
United States

Josef S. KOLLER
Head of Space Safety and Sustainability,
Amazon Project Kuiper,
United States

Zhang PENG
General Manager of Solutions Department,
GalaxySpace,
China

MODERATOR
Audrey L. ALLISON
Senior Project Leader, Center for Space Policy and Strategy,
The Aerospace Corporation,
United States

11:30 – 12:30	**IAF GNF – AI Governance: Defining An Ethical Framework For Driving The Future Space Economy**

Location: Parkside 2, International Convention Center (ICC) Sydney

Sponsored by: LOCKHEED MARTIN

Speakers:

Bruce CHESLEY
Senior Associate,
Teaching Science and Technology, Inc (TSTI),
United States

Kat CODERRE
Deputy Manager for Deep Space Exploration Advanced Programs,
Lockheed Martin Corporation,
United States

Giampiero DI PAOLO
CEO,
Thales Alenia Space Italia,
Italy

M. Angelo IASIELLO
Executive Vice President of Operations & Chief Strategy Officer (CSO,
American Institute of Aeronautics and Astronautics (AIAA),
United States

Shaun WILSON
Founder and CEO,
SHOAL,
Australia

MODERATOR
Christopher GEIGER
Internal Audit and Enterprise Risk Vice President,
Lockheed Martin Corporation,
United States

12:30 – 13:30	**Industry Luncheon (Upon Invitation Only)**

Location: Parkside 1, International Convention Centre (ICC) Sydney

Sponsored by: GENEVA SWISSMEM clearspace today

Speakers:

Raoul KELLER
Secretary General SSIG,
Teaching Science and Swissmem,
Switzerland

Renato KRPOUN
Head Swiss Space Office, Chair of ESA Council,
Swiss Space Office at the Swiss State Secretariat for Education, Research and Innovation (SERI) ,
Switzerland

Luc PIGUET
CEO & Co-founder,
ClearSpace,
Switzerland

EXCELLENCE IN INDUSTRY AWARD CEREMONY

Master of Ceremony:

Geraldine NAJA
IAF Vice President for Industry and Space Economy,
IAF Bureau,
France

AWARDEE

OHB

Chiara PEDERSOLI
CEO,
OHB System AG-Munich,
Germany

OHB System AG is the largest subsidiary of the German space and technology group OHB SE and one of the three leading providers of space systems in Europe. Headquartered in Bremen and with a second strong site in Oberpfaffenhofen near Munich, OHB System AG has more than 40 years of experience in the development of high-tech solutions for space missions and other applications. The company's activities focus on the development of satellite systems for Earth observation, navigation, telecommunication, science, and reconnaissance and are supplemented by the conception and realization of equipment for crewed space flight. We.Create.Space.

D-Orbit

Luca ROSSETTINI
Founder & CEO,
D-Orbit SpA,
Italy

D-Orbit is a market leader in the space logistics and transportation services industry with a track record of space-proven services, technologies, and successful missions. Founded in 2011, D-Orbit is the first company addressing the logistics needs of the space market. ION Satellite Carrier, for example, is a space vehicle that can transport satellites in orbit and release them individually into distinct orbital slots, reducing the time from launch to operations by up to 85% and the launch costs of an entire satellite constellation by up to 40%. ION can also accommodate multiple third-party payloads like innovative technologies developed by startups, experiments from research entities, and instruments from space companies requiring a test in orbit. Finally, ION can also be rented for edge computing applications and space cloud services to provide satellite operators with storage capacity and advanced computing capabilities in orbit. D-Orbit's roadmap includes becoming a relevant player in the in-orbit servicing market, which is forecasted to become one of the largest, growing markets within the space sector. In April 2025, the company announced a strategic business combination with the Planetek group to integrate new capabilities in cloud-based space applications, AI-powered data processing in orbit, and near real-time data services. With offices in Italy, Portugal, Greece, the UK, and an experienced US team focused on bus design, manufacturing, and commercialization, D-Orbit is the world's first certified B-Corp space company and a registered benefit corporation.

13:45 – 14:45 | Plenary 4 – Learning to Live on Another World: The International Community's Return to the Moon

PE

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

Our Moon, the most accessible extraterrestrial object, is at the nexus of a transformation in space exploration unlike anything we've seen before. Space is undergoing expansive commercialization, mega spacecraft constellations, and human exploration beyond Earth orbit. The international community has now seen China, Russia, India, Japan, Israel, and the US independently attempt new lunar landings, return samples from never-before explored lunar regions (e.g., the far-side of the moon), and deploy new technologies on the lunar surface. These remarkable feats, by a new generation of explorers largely in new spacefaring nations and new space industries, are paving the way for humanity's return to the Moon. And, this time, it is an international endeavor aimed at building a sustained presence on the Moon by utilizing the natural resources on the surface, which itself ensures a resilient Earth.

Our panel assembles a diverse and international group of leading experts from space agencies that have recently dared to attempt lunar landings or are providing critical payloads to advance lunar exploration, including ESA (Europe), ASA (Australia), JAXA (Japan), NASA (USA). The panel will also include senior representation from Firefly, a new US commercial company that successfully landed on the Moon in 2025. The panel will discuss the inspirational missions and what they mean for their nations and the global industry, including the remarkable engineering and science behind the spacecrafts, landers, and rovers and new knowledge gained. Through discussions of successes and failures, risk tolerance, and lessons learned, the conversation will be channeled towards future technologies that are required to establish a sustained human presence on the moon.

This Plenary Session will be organized by Dr. Jason Kalirai and Dr. Ben Greenhagen from the Johns Hopkins University Applied Physics Laboratory (APL), a key institution in lunar science and exploration.

Speakers:

Will COOGAN
Blue Ghost Chief Engineer,
Firefly Aerospace,
United States

Frank DE WINNE
Head of European Astronaut Center,
European Space Agency (ESA),
Belgium

Masaki FUJIMOTO
Director General of Institute of Space and Astronautical Science (ISAS),
Japan Aerospace Exploration Agency (JAXA),
Japan

Nujoud MERANCY
Deputy Associate Administration, Strategy and Architecture,
National Aeronautics and Space Administration (NASA),
United States

Arvind RAMANA
Director Space Programs,
Australian Space Agency,
Australia

MODERATOR
Ben GREENHAGEN
Planetary Scientist,
The Johns Hopkins University Applied Physics Laboratory ,
United States

MODERATOR
Jason KALIRAI
Mission Area Executive, Space Formulation,
The Johns Hopkins University Applied Physics Laboratory ,
United States

14:50 –15:35 IAF GNF – Station To Table: Perspectives On Space Food

Location: Parkside 2, International Convention Center (ICC) Sydney

Space food has come a long way from squeeze tubes, but the next frontier demands more. As missions extend to the Moon, Mars, and beyond, the challenge isn't just about keeping astronauts alive, but optimizing their health, performance, and well-being as well, all while considering sustainability and taste. This panel will kickstart a discussion on how the future of space food can be safe, nutritious, and environmentally responsible without compromising flavor and the astronaut experience.

We'll start with remarks from an accomplished panel of food system stakeholders including: an astronaut sharing firsthand accounts of the psychological and physical impacts of current space food options, nutrition experts providing insights into the evolving nutritional requirements for missions of varying lengths, and those with experience working with innovative startups exploring the development of sustainable food technologies, from in-situ ingredient production to advanced food systems designed for microgravity.

Our panelists will exchange ideas, challenge assumptions, and explore how collaboration across disciplines can lead to solutions that balance taste, nutrition, food safety, and sustainability.

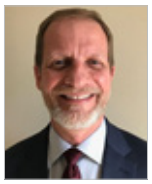
This session aims to break the mold of traditional space food discussions by emphasizing that delicious, healthy, and sustainable food options are not exclusive to Earth. Attendees will leave inspired by new perspectives and potential partnerships that could redefine the future of eating beyond Earth.

Join us for a lively, thought-provoking conversation that feeds both the mind and the mission.

Sponsored by: VAST

Speakers:

Flavia FÁYET-MOORE
Founder & CEO,
FoodiQ Global,
Australia



Ralph FRITSCHE
Strategy and Development Lead,
Deep Space Food Challenge,
United States

Zack ROSENTHAL
Manager, Space Food Systems,
Vast,
United States

MODERATOR
Andrew FEUSTEL
Lead Astronaut,
Vast,
United States

15:45 – 16:15 IAF GNF – ISS To Starlab: The Future Of Commercial Space Stations And Global Policy

Location: Parkside 2, International Convention Center (ICC) Sydney

As a new era of human presence in space approaches, the imminent deployment of commercial space stations by private companies like Axiom, Voyager, and others signals a profound shift in how space is accessed, governed, and utilized. With the International Space Station approaching its planned retirement in 2030, the world stands on the threshold of a transformative era: the rise of permanently crewed commercial space stations. These platforms are poised to complement, and ultimately succeed, the ISS, ushering in a new phase of LEO activity driven by commercial investment, international partnerships, national security implications, and expanded scientific and research opportunity.

But is global policy ready for this transition? What frameworks will govern the use, safety, and sustainability of these private outposts? In this 30-minute discussion, a diverse panel—including a NASA representative, an Australian space industry leader, leading American commercial station developer Starlab, and moderator from Voyager Technologies—will explore how U.S. and international policies are evolving to accommodate this leap into commercially-led space stations, address issues such as sovereignty, regulation, liability, and collaboration, and identify the gaps that must be closed to ensure that the next generation of space stations serves the broadest possible benefit to humanity.

With a focus on the U.S.-led Starlab project—one of the most advanced Commercial LEO Destinations (CLD) set to succeed the ISS—this discussion will highlight how the station, backed by Voyager, Airbus, Mitsubishi, MDA, Hilton, and Palantir, is designed for both civil and dual-use missions, including national security use cases, international research, and industrial innovation. As the global space community expands its activities in low-Earth orbit, the panel will explore whether current international policy frameworks are equipped to support a sustainable and collaborative orbital future. Panelists will evaluate how public-private collaboration, regulatory readiness, and international engagement must evolve to ensure that the next generation of commercial stations reflects broad global participation and builds upon the legacy of the ISS in advancing science, innovation, and human presence in space.

Sponsored by: VOYAGER SPACE

Speaker:

MODERATOR

Eric STALLMER

Executive Vice President for Government Affairs and Public Policy,
Voyager Space Holdings Inc.,
United States

16:55 – 17:40 IAF GNF – Unlocking The Commercial Potential For Space-Enabled Healthcare

Location: Parkside 2, International Convention Center (ICC) Sydney

Space technologies are playing an increasingly important role in the delivery and transformation of healthcare services, from satellite-enabled telemedicine in underserved regions to microgravity research accelerating pharmaceutical innovation. As health systems respond to evolving pressures and governments seek to deliver more resilient, data-driven public services, space-enabled solutions offer both societal value and significant commercial potential.

This session will bring together representatives from Government, industry, investment, and clinical sectors to explore how emerging space capabilities can address real-world healthcare needs and unlock new markets. The discussion will focus on aligning public funding, private capital, and user demand to support the development and adoption of space-health innovations.

Panellists will share insights on market dynamics, regulatory and policy considerations, investment trends, and explore practical routes to commercialisation., drawing on case studies and first-hand experience. The session aims to foster cross-sector collaborate and highlight the opportunity for space to drive both economic growth and public good in the healthcare sector.

Sponsored by: UK SPACE AGENCY

Speakers:

Sanjeev GORDHAN
General Partner,
Type One Ventures,
United States

Bob LAMBORAY
Strategic Advisor European Space Resources Innovation Centre (ESRIC),
Lead for Exploration and Space Resources,
Luxembourg Space Agency,
Luxembourg

Brooke MILLS
COO,
Astraea Technologies,
United States

James WALDIE
Co-founder and CEO,
Cape Bionics,
Co-founder,
Human Aerospace,
Australia

MODERATOR
Paul BATE
Chief Executive Officer,
UK Space Agency,
United Kingdom

16:30 – 17:00	**Press Conference – OQ Technology Launches in Australia, Expanding Satellite 5G IoT to Critical Industries and Communities**

Location: Room E5.2 + E5.3, Level 5, International Convention Center (ICC) Sydney

17:45 – 18:45	**Highlight Lecture – Waratah Seed: Australia's First Industry Ride-Share Satellite**

HLL

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

The Highlight Lecture will present Australia's first industry ride-share satellite, called Waratah Seed-1, including its goals, its route to funding, its clients and payload providers, and its multiple successes in space. Waratah, from the Eora First Nation word "warada", meaning "seen from afar" and "beautiful", is perfect for a satellite in space and is the name of an endemic genus of Australian trees, while "Seed" corresponds to the project's desired role in growing a strong and vibrant New South Wales and Australian space sector. Initiated by the NSW Government's pilot "NSW Space Qualification Mission" grant, the Waratah Seed Consortium was established to perform the mission, with the Waratah Seed-1 satellite built by the ARC Training Centre for CubeSats, UAVs and their Applications (CUAVA), centred in the School of Physics at the University of Sydney.

The Waratah Seed project's primary goal is to engage NSW based space-technology startups to fly with the mission at reduced cost, enabling them to test and demonstrate the viability and space-readiness of their technology. This 'space heritage' is essential to gaining investment and export opportunities for new technology. As such, the Waratah Seed-1 satellite was aimed at providing spaceflight opportunities to NSW space industry start-ups and selected commercial clients, generating development opportunities, space flight

heritage, and promoting the Australian space sector. In detail, Waratah Seed has brought 6 space start-ups, three universities, and multiple companies into space together for the first time.

The Waratah Seed-1 satellite was launched on Transporter-11 with Exolaunch on 16 August 2024. It has now travelled over the Earth-Sun distance around the world and is about to pass the milestone of operating successfully in space for 12 months. Of the nine technology payloads on board Waratah Seed-1, eight are now fully commissioned, operational, and sending data files back to Earth for analysis. Waratah Seed is now entering an extended mission phase, with NSW Government having declared "Mission Success".
The Lecture involves small satellites, industry payloads from startups, other companies and universities, and a commercial industry ride-share project. These themes link strongly to the global space sector. They also address the development of space heritage for startups, companies, and academia working together, plus the sustainability and resilience of the space sector in Australia and globally. Examples sourced from Waratah Seed-1 payloads include novel solar cells, new spacecraft subsystem technologies, GNSS reflectometry, and the ionospheric environment and space debris. Future prospects will be mentioned also, with opportunities for a series of Waratah Seed satellites under consideration.

Speaker:

Iver CAIRNS
Director of CUAVA, the ARC Training Centre for CubeSats, UAVs, and Their Applications Professor in Space Physics,
The University of Sydney, Australia

19:00 – 21:00	**IAF Young Professionals Networking Event** *(restricted to Young Professionals)*

Location: Cockle Bay, Level 3, International Convention Centre (ICC) Sydney

Wednesday 1 October

08:00 – 08:45	IAF IDEA 3G+ Diversity Breakfast

Location: Parkside 1, International Convention Centre (ICC) Sydney

Sponsored by:

Speaker:

Enrico ZAPPINO
Associate Professor,
Politecnico di Torino,
Italy

WELCOME REMARKS
Mishaal ASHEMIMRY
VP: Diversity Initiatives,
IAF Bureau,
Saudi Arabia

09:00 – 10:00	Plenary 5 – Healing Earth, Envisioning Space: Indigenous Knowledge and Partnerships for a Resilient Future

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

Outer space is a shared ancestral environment of immense cultural and scientific value. It connects our past and future, influencing ethics, policies, technologies, and dreams of living off-Earth. As the space community aligns Earth and space sustainability—without overshadowing Earth's climate crisis— enduring philosophical and technical questions urge us to reflect on our diverse and global ecosystems and our relationships with them. Today, innovators and leaders in space are striving for regenerative, not just sustainable, systems to address our greatest challenges of climate change and interstellar travel.

Indigenous Peoples, on the frontlines of climate change for generations, have long been architects of climate resilience and complex systems. Through enduring relationships with the land, they have developed sophisticated understandings of complex environments via interaction, observation, experimentation, and stewardship. Known as Indigenous Knowledge, Traditional Knowledge, or Traditional Ecological Knowledge, the breadth of such oral and written understandings contains technologies, beliefs, methods, and innovations. Recognizing this knowledge is not a step backward but a step forward with the best data and methods available - knowledge that remains under Indigenous stewardship.

Indigenous Peoples, with their socioecological expertise, offer vital insights into what a resilient Earth and sustainable space future can look like. Honoring our shared responsibility for a healthy planet and cosmos requires meaningful partnerships with these original members of the space community. This panel brings together a diverse group of Indigenous and allied scholars, leaders, and researchers to discuss space technology, climate change, and relationship-building to inform and inspire the global audience of the IAC community.

Speakers:

Ren FREEMAN
Director, Research Coordinator, and Co-PI,
Indigenous Research Center (IRC),
United States

Buu NYGREN
President,
Navajo Nation,
United States

Danielle WOOD
Associate Professor,
Massachusetts Institute of Technology,
United States

MODERATOR
Alvin D. HARVEY
Diné, Navajo Nation, Postdoctoral Fellow,
Massachusetts Institute of Technology,
United States

10:15 – 11:15 | IAF GNF – International Collaboration Towards Safe And Sustainable Space Traffic

Location: Parkside 2, International Convention Center (ICC) Sydney

With the high increase in space traffic, the need for improved monitoring, mitigation and remediation has become more stringent. International and interdisciplinary collaboration remain key to address emerging challenges and ensure safe and sustainable operations in Earth orbits. Against this backdrop, this event will bring together representatives of different sectors and background to take stock of current international initiatives and discuss challenges, needs and possible solutions.

Sponsored by: Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Speakers:

KEYNOTE SPEAKER
Raoul KELLER
Secretary General of Swiss Space Industry Group,
Swissmem,
Switzerland

KEYNOTE SPEAKER
Renato KRPOUN
Head,
Swiss Space Office (SSO),
Switzerland

Fatima AL SHAMSHI
Acting Head of Space Regulations and Policies,
UAE Space Agency,
United Arab Emirates

Holger KRAG
Manager, Space Safety Programme,
European Space Agency (ESA),
Germany

Martin REYDNERS
Legal Advisor,
Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR),
Germany

Thomas SCHILDKNECHT
Professor Emeritus,
Astronomical Institute, University of Bern,
Switzerland

MODERATOR
Clay MOWRY
President,
International Astronautical Federation (IAF),
United States

10:15 – 10:45	Press Conference – Open Cosmos Press Conference

Location: Room E5.2 + E5.3, Level 5, International Convention Center (ICC) Sydney

11:30 – 12:30	IAF GNF – Unlocking India's Space Potential: A Global Dialogue On Reforms And Partnerships

Location: Parkside 2, International Convention Center (ICC) Sydney

India's space sector is undergoing a significant transformation, marked by ambitious reforms aimed at fostering private sector participation, boosting innovation, and forging international collaborations. This GNF session will bring together key stakeholders, including Ambassadors, Key policy makers, to discuss the opportunities and challenges arising from these reforms. The session will delve into the policy landscape, explore avenues for international partnerships, and highlight the potential for global players to engage with the burgeoning Indian space ecosystem.

Speakers:

Pascale EHRENFREUND
IAF past President,
IAF Bureau,
President,
President of Committee on Space Research (COSPAR),
France

Pawan GOENKA
Chairman,
Indian National Space Promotion and Authorization Centre (IN-SPACe),
Department of Space,
Government of India,
India

Clay MOWRY
President,
International Astronautical Federation (IAF),
United States

V. NARAYANAN
Chairman,
Indian Space Research Organisation (ISRO),
India

MODERATOR
Vinod KUMAR
Director,
IN-SPACe,
India

12:30 - 13:30	IAF IDEA 3G+ Diversity Luncheon *(Upon Invitation Only)*

Location: Parkside 1, International Convention Centre (ICC) Sydney

WELCOME REMARKS
Mishaal ASHEMIMRY
VP: Diversity Initiatives,
IAF Bureau,
Saudi Arabia

Speaker:

Gabriella ARRIGO
Incoming President,
International Astronautical Federation (IAF),
France

IAF Excellence in "3G+" Diversity Award Ceremony

Asanda NTISANA
VP: Honours and Awards,
IAF Bureau,
South Africa

AWARDEES

The Hong Kong Polytechnic University - Category Internal 3G+ Impact

"With a dynamic community of over 7,600 full-time staff representing 65 countries and regions and comprising a near-equal gender balance of 52% male and 48% female staff, PolyU is strongly committed to fostering both gender and cultural diversity. The University also embraces generational diversity, providing an inclusive environment and encouraging collaboration across different age groups and level of experience. At PolyU, researchers, staff and students from diverse backgrounds and disciplines come together to merge their expertise, driving excellence in education and advancing research and technology for the benefit of mankind."

Christina WONG
Director of Research and Innovation, Professor at School of Fashion and Textiles,
Hong Kong Polytechnic University

Women in Aerospace - Category External 3G+ Impact

"Women in Aerospace Europe (WIA-Europe) is a non-profit organisation committed to promoting diversity and inclusion in the aerospace sector by increasing the representation, and leadership of women. It supports career development through networking, mentoring, scholarships, and outreach activities. Promote aerospace professions and STEM studies among the younger generations to enlarge the pool of talents shaping the future aerospace workforce. WIA-Europe works across industry, academia, and policy to foster a more inclusive environment that drives innovation and excellence. The organisation welcomes and encourages the involvement of individuals, regardless of gender, who share same values and aim to excellence in the aerospace sector. With active regional chapters and committed industrial and governmental partners across Europe, WIA-Europe inspires and connects professionals dedicated to shaping the future of aerospace."

Luisella GIULICCI
President, European Space Agency, Lunar Gateway Project Manager
Women in Aerospace Europe (WIA-E)

13:45 – 14:45 Plenary 6 – Designing the Future of Human Spaceflight

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

There has been a continued human presence in space since 2000, thanks to the birth of the International Space Station. With the ISS' planned decommissioning on the horizon, national space stations and commercial astronauts have taken over a growing segment of the astronautics arena. With planned crewed missions to the Moon and Mars, human spaceflight is taking the next giant leap forward. This panel will look at how we are designing the future of astronautics. Crewed missions are venturing farther into space, staging longer journeys on remote outposts and teams from various nationalities and profiles. Designing spacecraft, habitats, and stations is now not just a technical challenge but a question of how to accommodate the diversity of humankind. This panel will focus on the following three aspects of astronautics: space architecture, life support for space, and inclusive design. This panel addresses the diversity of human spaceflight needs in the coming decades. Plans for crewed missions in space reflect the multipolarity on Earth, and intentional design is essential in ensuring that space will be used for peaceful purposes for all of humankind. The three panel themes will address how we will sustain life in space, build societies in space, and design for inclusive access to space.

Speakers:

Christina BALOMENAKI
Architect - Researcher, Coordinator of "Space Architecture and Extreme Environment's Habitation" Research Group,
Transformable Intelligent Environments Laboratory (TieLab), Technical University of Crete,
Greece

Nadine DUURSMA
Double MSc Candidate, Robotics and Space Engineering,
Delft University of Technology,
Netherlands

Ashley KOWALSKI
Project Leader, International Programs,
The Aerospace Corporation,
United States

Ashutosh MISHRA
Doctoral Researcher (MEXT Scholar),
Space Robotics Lab, Tohoku University,
India

Brenden SWANIK
Host | Mission Manager,
Chasing Space | Voyager Technologies,
United States

MODERATOR
Hillary COE
Chief Design and Marketing Officer,
Vast,
United States

14:50 –15:35 IAF GNF – Success In Space Through Security, Investment, And Sustainability

Location: Parkside 2, International Convention Center (ICC) Sydney

IAF has undertaken a three-pronged initiative to address security, investment, and sustainability (SIS) in its programming and to explore how these themes intersect to shape the future of space. This session serves as a capstone conversation for the IAF's SIS initiative and task forces—highlighting key insights from the past three years while looking ahead to how these themes will continue to define space policy, innovation, and economics. Moderated by IAF President Clay Mowry, the panel features the global leads of the SIS task forces and explores the critical interaction among these three forces that are shaping the future of space. Their discussion will highlight the findings of the SIS initiative and emphasize how these themes converge across civil, commercial, and national security domains.

Topics will include: • The surge of private and public investment in space, and its role in accelerating new infrastructure, capabilities, and global access • National security users leveraging commercial innovations enabled by that investment • How a sustainable space environment contributes to long-term security and operational resilience • Investment in space sustainability technologies, including debris remediation and traffic coordination • Shared industrial base challenges and opportunities that span both commercial and defense sectors

The panel will also highlight IAF's experience implementing the SIS initiative—through convenings, collaborations, and outputs—and invite attendees to engage in a forward-looking dialogue about global cooperation and resilience. This session offers strategic insights for decision-makers, investors, technologists, and policy leaders, and reinforces the IAC 2025 theme of "Sustainable Space: Resilient Earth" through a multidimensional lens.

Speakers:

Carissa BRYCE CHRISTENSEN
CEO,
BryceTech,
United States

Agnieszka ŁUKASZCZYK
Founder and CEO,
hiALtitude Consulting,
Belgium

Clay MOWRY
President,
International Astronautical Federation (IAF),
United States

Victoria SAMSON
Chief Director, Space Security and Stability,
Secure World Foundation,
United States

MODERATOR
Joe LANDON
Co-Founder & President,
Rendezvous Robotics, Inc,
Special Advisor to President on the Sustainability, Investment and Security (SIS) Agenda,
IAF Bureau,
United States

15:00 – 15:30	**Press Conference – GLOC 2026: "Uniting Space and Earth for Climate Resilience"**

Location: Room E5.2 + E5.3, Level 5, International Convention Center (ICC) Sydney

15:40 – 16:25	**IAF GNF – Earth Observation For Pacific Disaster Resilience: Synergizing Industry, Government, And NGOs**

Location: Parkside 2, International Convention Center (ICC) Sydney

The Pacific region is increasingly exposed to climate change and natural disasters, from floods and wildfires to shifting coastal environments. Building resilience requires more than local action; it demands regional and international cooperation to fully harness space-based Earth Observation (EO) technologies.

This session will convene leaders from space agencies, regional institutions, multilateral organizations, and commercial EO providers to explore how satellite data, AI-enabled analytics, and inter-agency collaboration can strengthen disaster preparedness, emergency response, and long-term adaptation strategies.

Panelists will examine both successes and ongoing challenges in ensuring that EO-derived insights are transformed into timely, actionable information for policymakers, responders, and communities across the Pacific. Special attention will be given to data-sharing mechanisms, interoperability across missions, and regional capacity development, ensuring that EO is not only technically advanced but also operationally relevant.

The discussion will also highlight models of cooperation among government, industry, and NGOs, as well as the importance of knowledge hubs and training programs that enable local actors to embed EO data in decision-making processes.

Aligned with the IAC 2025 theme of "Sustainability and Resilience through Space-enabled Solutions", this panel underscores how regional cooperation and innovation can advance disaster resilience across the Pacific through EO-enabled solutions

Sponsored by: NARA SPACE

Speakers:

Leyla ALPASLAN
Branch Head, Digital Earth,
Geoscience Australia,
Australia

Kyungin KANG
Director General for Space Science and Exploration Directorate,
Korea AeroSpace Administration (KASA),
Republic of Korea

Minsik KIM
Co-Founder & Vice President of Business Development,
Nara Space,
Republic of Korea

Stuart MINCHIN
Director General,
Pacific Community,
Australia

Futoshi TAKIGUCHI
Vice President; Director General, Space Technology Directorate | Director, Tsukuba Space Center,
Japan Aerospace Exploration Agency (JAXA),
Japan

MODERATOR
Hamid MEHMOOD
Scientific Affairs Officer (Head of UN-SPIDER Beijing Office),
United Nations Office for Outer Space Affairs (UNOOSA),
China

16:00 – 16:45 Press Conference – Launch of Asia Pacific Alliance of Space Trade Associations (AASTA) - a first for the region

Location: Room E5.2 + E5.3, Level 5, International Convention Center (ICC) Sydney

16:35 – 17:35 IAF GNF – Systems Architecture And Realization Workforce: Key Success Competencies

Location: Parkside 2, International Convention Center (ICC) Sydney

New at IAC! The first-ever plenary on systems architecture and engineering! Space systems change, especially in the commercial and defense/security fields! New companies enter the market. Technology breakthroughs and interdependencies of in-orbit and terrestrial systems drive complexity to ever new heights.

"Systems of Systems" with diverging stakeholder requirements and functionality demands depend upon multi-disciplinary holistic analyses, architectures and realization approaches. Software driven and AI supported, cyber-secure autonomous solutions, based upon model/simulation/virtual reality engineering judgements ensure government, prime contractor and supply chain successes.

The challenge? System architects and engineers are scarce and in high demand. Will they be available tomorrow? What can be done? A paradigm change is needed for systems education and career paths! Closer cooperation between industry, universities, government agencies is mandatory!

This session will feature several short and focused viewpoints from top-level executives with vast experience in architecting and realizing complex space and defense programs. They will share stories of success and failure. The outcome of this plenary will be to generate a "Call for Action" with recommendations for coping with the challenge.

Background reading: https://systems-workforce.eu/summit-results/

Speakers:

Marco FUCHS
CEO and Chairman of the Management Board,
OHB System AG-Bremen,
Germany

Daniel HASTINGS
Interim Vice Chancellor,
Massachusetts Institute of Technology,
United States

Larry D. JAMES
Strategic Advisor,
SmartSat Cooperative Research Centre (CRC),
United States

Kerry LUNNEY
Technical Director,
Thales Australia,
Australia

Paul D. NIELSEN
Director and Chief Executive Officer,
Carnegie Mellon University's Software Engineering Institute (SEI),
United States

Anke PAGELS-KERP
Divisional Board Member for Space,
Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR),
Germany

Dietmar PILZ
Director of Technology, Engineering and Quality (D/TEC),
Head of ESA/ESTEC in Noordwijk, the Netherlands,
Netherlands

Emma SPARKS
Rector and Dean,
UNSW Canberra,
Australia

MODERATOR
Heinz STOEWER
CEO,
Space Associates,
Germany

17:45 – 18:45 | Highlight Lecture – ADRAS-J: First Encounter with Space Debris

HLL

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

Astroscale's ADRAS-J (Active Debris Removal by Astroscale-Japan) spacecraft, selected by JAXA for Phase I of its Commercial Removal of Debris Demonstration program, launched in February 2024 as the world's first mission to safely approach, characterize, and survey a large, unprepared space debris object using Rendezvous and Proximity Operations (RPO). The ADRAS-J team achieved groundbreaking milestones, redefining the possibilities of on-orbit servicing and space sustainability.

ADRAS-J demonstrated unprecedented RPO capabilities by safely approaching a defunct H-IIA upper stage—a rocket body launched in 2009, measuring approximately 11 meters in length, 4 meters in diameter, and weighing 3 tons. The mission successfully navigated to within ~50 meters of the debris and conducted three controlled fly-around operations, capturing high-resolution images from multiple angles under varying lighting conditions.

In December 2024, ADRAS-J reached a historic milestone—achieving a precise approach to within 15 meters of the debris, the closest approach ever approach by a commercial company to space debris using RPO technologies.

Unprepared objects, like defunct satellites and rocket bodies, pose a significant challenge for servicing and removal due to their lack of docking features or cooperative guidance. Despite these obstacles, ADRAS-J successfully captured detailed images of the debris' structural condition and movement, offering invaluable insights into its behavior. Notably, the mission verified that the payload attach fitting—the intended capture point for ADRAS-J2—remains intact, providing critical data for future removal operations.

ADRAS-J's success represents a pivotal moment for the space industry, proving that commercial missions can safely and effectively conduct complex RPO with unprepared debris. This mission lays the technological foundation for future debris removal efforts and reinforces the urgent need for sustainable space operations.

Speakers:

Chris BLACKERBY
Group COO,
Astroscale,
Japan

19:00 – 21:00 | IAF Young Professionals Networking Event

(restricted to Young Professionals)

Location: Cockle Bay, Level 3, International Convention Centre (ICC) Sydney

Next Generation Panel: "Resource Responsibility: Lands, Oceans, And Space"

Thursday 2 October

08:00 – 08:45 IAF Science & Academic Breakfast

Location: Parkside 1, International Convention Centre (ICC) Sydney

Speakers:

MODERATOR

Tanja MASSON-ZWAAN

VP: Technical Activities,
IAF Bureau,
Assistant Professor and Deputy Director of the International Institute of Air and Space Law (IIASL),
Leiden University,
Netherlands

The IAF introduces the Australian academic sector!

09:00 – 10:00 Plenary 7 – Space Sustainability: Regional Priorities, Global Responsibility

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

Space sustainability is becoming a defining principle for how space activities are designed, launched, operated, and governed.

It is essential for both securing the future of space missions and ensuring that the benefits of space continue to support life on Earth. It is also our responsibility to protect the environments we interact with – on Earth, in orbit, and on other celestial bodies such as the Moon.

With increasing launch rates, growing congestion in orbit, and expanding exploration missions, the space sector faces urgent sustainability challenges. These developments call for transformative approaches to reduce environmental impacts on Earth, use resources more efficiently in space, and manage waste responsibly beyond our planet.

This panel will not stop at highlighting the problems. The focus is on practical solutions. Representatives from a diverse group of space agencies will present concrete objectives and strategies designed to mitigate risks and enhance sustainability. Topics will include climate impacts, the protection of dark and quiet skies, and the mitigation of orbital debris, all viewed through the lenses of technological innovation, international cooperation, and regulatory development. Key questions to be explored include:

- How are space agencies integrating sustainability into their strategies and missions?
- In what ways do priorities vary across regions, and what can we learn from these different approaches?
- Which initiatives are already being implemented to support responsible and long-term space activities?

Featuring perspectives from the European Space Agency, Australian Space Agency, NASA, Korea Space Agency, and Philippine Space Agency, this panel aims to encourage meaningful action toward a sustainable space sector – one that remains accessible, safe, and beneficial for future generations.

Speakers:

Josef ASCHBACHER
Director General,
European Space Agency (ESA),
France

Alvin DREW
Director for NASA Space Sustainability,
National Aeronautics and Space Administration (NASA),
United States

Enrico PALERMO
Head,
Australian Space Agency,
Australia

Gay Jane P. PEREZ
Deputy Director General for Space Science and Technology,
Philippine Space Agency (PhilSA),
Philippines

FACILITATOR
Heriberto SALDIVAR
Head of Strategy,
European Space Agency (ESA),
France

10:15 – 11:15 | IAF GNF – Space Computing: Global Open Science And AI In Space

Location: Parkside 2, International Convention Center (ICC) Sydney

This event is jointly organized by the Chinese Society of Astronautics (CSA) and Zhejiang Lab, an entity member of the Society. On May 14, 2025, Zhejiang Lab and its partners successfully launched a group of 12 satellites aboard a Long March-2D carrier rocket. This mission marked the debut deployment of a space computing system, dubbed the "Three-Body Computing Constellation," designed to advance global open science and collaboration. The constellation is engineered to perform real-time data processing in orbit, overcoming the efficiency limitations of traditional satellite systems and accelerating the integration of artificial intelligence into space-based applications. The constellation serves as an open science platform, supporting global collaboration and the monitoring of key United Nations Sustainable Development Goals (SDGs).

This GNF will focus on the following topics:

(1) Share latest research advances and next-phase development plans;

(2) Call for expanded open science collaborations to participate the constellation initiative;

(3) Explore global space application use cases and best practices.

Sponsored by:

Speakers:

Lijun HUANG
Deputy Director of Space Computing Systems,
Zhejiang Lab,
China

Farkhod MAKHMUDKHUJAEV
Head of Artificial Intelligence and Programming Department at Center for Space Monitoring and Geoinformation Technologies,
Uzbekspace Agency,
Uzbekistan

Hamid MEHMOOD
Scientific Affairs Officer (Head of UN-SPIDER Beijing Office),
United Nations Office for Outer Space Affairs (UNOOSA),
China

Quentin PARKER
Director, Laboratory for Space Research,
Hong Kong University,
China

Xu YAN
LandScape Hongqing,
China

MODERATOR
Yi YUAN
Research Professor at Space Computing Systems,
Zhejiang Lab,
China

11:30 – 12:30	**Press Conference – IAF Press Conference with International Astronauts**

Location: Room E5.2 + E5.3, Level 5, International Convention Center (ICC) Sydney

12:30 – 13:30	**IAF Science & Academic Luncheon** *(Upon Invitation Only)*

Location: Parkside 1, International Convention Centre (ICC) Sydney

MODERATOR
Asanda NTISANA
VP: Honours and Awards,
IAF Bureau,
Acting Managing Director, Earth Observations,
South African National Space Agency (SANSA) ,
South Africa

13:45 – 14:45	**IAF GNF – ROCK AND ROLL: Striking A Chord Between Terrestrial Mining Innovation And Space Resource Utilization Opportunities**

Location: Parkside 2, International Convention Center (ICC) Sydney

This GNF event aims to spotlight cutting-edge advancements in technology and innovation shaping both terrestrial resource exploration and space-based mining. It will bring together leading experts from around the world to explore how global collaboration can accelerate efforts to prospect, extract, and utilize resources beyond Earth. The session will highlight how space technologies can deliver transformative benefits to the terrestrial resource sector. By presenting real-world applications, cross-sector collaboration, and visionary strategies for sustainable exploration, the event will be both informative and inspiring for those seeking to bridge space and terrestrial innovations. Moderated by Jun SHIMADA, this GNF event puts its focus on what could be done to realize the situation where mining technology and related business architecture development on Earth would be transferred to lunar exploration from the standpoint of technical practicability and economic viability. The session features three key parts: highlights from leading experts in terrestrial mining industry and in-situ resource utilization (ISRU); a dynamic panel discussion exploring strategies to attract deeper investment in ISRU; and an open Q&A to engage emerging space nations and startups in this evolving frontier. The panel features experts from diverse backgrounds including government, space agencies, industry peak bodies, and academia who will share their insights on policymaking, space economy, and technology roadmapping. They will discuss the feasibility of in-space resource utilization from both technical and commercial perspectives, as well as long-term strategies for sustainable and resilient space exploration through international cooperation. The Q&A session will engage the audience through real-time questions and provide live feedback from the panel.

Sponsored by:

Speakers:

Angel ABBUD-MADRID
Director,
Space Resources Program,
Colorado School of Mines,
United States

Marianne CUMMINGS
Director, Strategic Development,
Austmine,
Australia

Andrew DEMPSTER
Director of the Australian Centre for Space Engineering Research (ACSER),
University of New South Wales,
Australia

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

Jonathon RALSTON
Senior Principal Research Scientist, Frontier Mining Research Team Lead,
CSIRO Space and Astronomy,
Australia

Mark SONTER
Chairman,
Off Earth Resources P/L,
Australia

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

14:55 – 15:50	**IAF GNF – Sharing Space: How Satellite Constellations And Astronomy Can Co-Exist**

Location: Parkside 2, International Convention Center (ICC) Sydney

The boom in satellite technology has brought previously unimagined advances, bringing the internet to remote and under-served areas of the world and enabling economic growth and community benefits. However, the growth in satellites in low Earth orbit has brought new challenges to astronomy, one of humanity's oldest sciences.

Ground-based telescopes, in both optical and radio frequencies, are exquisitely sensitive instruments, allowing them to detect the faintest signals that have travelled for billions of years across space. These billion-dollar ground-based telescopes include Europe's Extremely Large Telescope, under construction in Chile; the SKA radio telescopes being built in South Africa and Australia; and the US's extremely large telescopes planned for Hawaii and Chile. They too aim to transform humanity – revolutionizing our understanding of the Universe, delivering benefits that will impact society and improve lives, and progressing human knowledge.

Satellite constellation providers have been engaging with astronomers to mitigate the effects of satellites on astronomy observations, and deliver the cutting-edge science promised by these new instruments. For optical telescopes, this focuses on reducing the reflectivity of the satellites. Satellite constellations can interfere with ground-based astronomy. For radio telescopes, mitigations include momentarily turning off intentional transmissions or steering beams away from radio sensitive facilities. A more subtle effect arises from 'unintended emissions' from the electronics in the satellites, with early investigations ongoing between astronomers and the satellite industry.

In this panel session, representatives from astronomy facilities and the space industry will discuss how they are collaborating to sustainably share the sky, so that humanity can reap the benefits that satellite constellations bring, while continuing its ancient quest to understand our Universe.

Speakers:

Philip DIAMOND
Director-General,
Square Kilometre Array Observatory (SKAO),
United Kingdom

David GOLDMAN
Vice President, Satellite Policy,
SpaceX,
United States

Catherine GRACE
Acting General Manager, Space Capability,
Australian Space Agency,
Australia

Josef S. KOLLER
Head of Space Safety and Sustainability,
Amazon, Project Kuiper,
United States

Anna MOORE
Director,
Institute for Space, Australian National University,
Australia

MODERATOR
Sara WEBB
Course Director and Program Lead,
Swinburne University of Technology,
Australia

16:05 – 16:35 IAF GNF – Out of this world: Building a mobile network on the Moon

Location: Parkside 2, International Convention Center (ICC) Sydney

A renewed global interest in exploring and inhabiting the Moon and Mars is contributing to the rapid growth of the space economy. Advanced communication infrastructure will be crucial to humanity expanding its presence in space.

Astronauts will need the same advanced capabilities in space that we have on Earth to support their missions and live their lives, such as access to voice, video and data communications capabilities as well as telemetry and biometric data.

Nokia Bell Labs delivered the first cellular network on the Moon, as part of Intuitive Machines' IM-2 mission, to demonstrate that cellular technologies can provide the critical communications needs for future lunar or Martian missions. In addition, as part of the Artemis III mission, which will return the first astronauts to the Moon in more than 50 years, Nokia Bell Labs is partnering with Axiom Space to deliver a spacesuit-integrated communications system that will allow astronauts to communicate while they explore the lunar surface.

We envision a rapidly evolving and growing space economy enabled by advanced communication networks that will facilitate scientific discovery, support commercial activities, and help pave the way for a safe and sustained human presence on the Moon and Mars.

Speaker:

Thierry KLEIN
President Bell Labs Solutions Research,
Nokia,
United States

16:50 – 17:30 IAF GNF – Tactically Responsive Space

Location: Parkside 2, International Convention Center (ICC) Sydney

In a market racing toward sub-24 hour mission response, the CEOs from leading space companies will discuss the challenges and opportunities of building resilient, adaptable space architectures to meet defense, commercial, and scientific objectives in an increasingly contested domain. Can fierce competition spur better outcomes for defense and commercial customers, or do collaborations enabled by agile commercial space companies deliver more reliable, cost-effective tactical missions? And what benefits or hurdles exist when crossing international borders with these collaborations?

On the financial side, the panelists will also discuss the "market" that tactically responsive space has now become. Governments worldwide are injecting tens of millions into responsive space initiatives including the U.S. Space Force, the UK's National Space Innovation Programme, and the EU's Horizon Europe. These commitments, alongside growing VC interest, demonstrate that tactically responsive space is truly an international, well capitalized market and one where strategic partnerships, often brokered by commercial providers, might be the key to unlocking access to both government and private funding.

Join us for a dynamic panel discussion exploring cutting-edge strategies for rapid space operations from both US and international perspectives. This session will delve into critical topics such as rapid spacecraft deployment, responsive launch capabilities, and in-space servicing, assembly, and manufacturing (ISAM). Experts will discuss how innovative technologies and agile mission planning are enabling faster access to space, enhancing orbital flexibility, and addressing evolving global demands. From streamlined launch systems to advanced proximity operations, the panel will highlight how nations and industries are collaborating and competing to achieve new capabilities for future space missions.

Speakers:

Vanessa CLARK
VP of Program & Mission Management,
Katalyst Space,
Co-Founder,
Atomos Space,
United States

Luca ROSSETTINI
Founder & CEO,
D-Orbit SpA ,
Italy

Eric SALWAN
Co-founder and Director, Commercial Business Development,
Firefly Aerospace,
United States

Jeff THORNBURG
Co-Founder & CEO,
Portal Space Systems,
United States

MODERATOR
Sam PETERSON
Founding Partner of Cislunar International and Adjunct Professor,
Embry-Riddle Aeronautical University,
United States

17:45 – 18:45 Highlight Lecture – Astronomy From The Moon: A Science Cornucopia, With Challenges

HLL

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

Astronomers are realizing that the Moon offers rich possibilities for understanding the origins of the solar system, the Dark Ages of the Universe, before there were stars or galaxies, how supernovas explode, and the beginnings of life on other worlds. The equipment that will explore these unknowns include ultra-cold far infrared telescopes, gravitational wave detectors, radio telescopes on the Farside, and interferometers working in visible and ultraviolet light. They will make today's greatest telescopes look like toys. The engineering will be a great challenge, but human bases and their supply chains make them plausible. Perhaps more challenging is that only a few, small, locations on the Moon enable these breakthrough experiments. The protection of these sites for science is highly desirable, but difficult to achieve.

Speaker:

Martin ELVIS
Senior Astrophysicist,
Center for Astrophysics | Harvard & Smithsonian, United States

Friday 18 October

09:00 – 09:30 Late Breaking News – NISAR: Dual Frequencies - Single Purpose - For a Resilient Earth

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

The NASA–ISRO Synthetic Aperture Radar (NISAR) mission is a landmark in space-based Earth observation and international collaboration, launched onboard GSLV on July 30, 2025. Jointly developed by the Indian Space Research Organisation (ISRO) and National Aeronautics and Space Administration (NASA), NISAR is the first mission to operate dual-frequency Synthetic Aperture Radar (SAR) on a single platform.

The SAR payloads employ the advanced SweepSAR technique with digital beam-forming to achieve a wide swath (>240 km) and centimeter level spatial resolution. The observatory features a 12-metre deployable mesh reflector, multi-stage boom deployment with open-loop control, and high-rate data downlink systems. NASA/JPL provided the L-band SAR with Antenna Reflector, while ISRO contributed the S-band SAR, spacecraft bus, systems integration and testing, and launch by GSLV.

NISAR's ability to map the entire globe every 12 days with spatially and temporally consistent measurements enables transformative studies of Earth's ecosystems, biomass, ice sheets, sea level, groundwater, and tectonic deformation. The mission will support disaster monitoring and response for hazards such as earthquakes, tsunamis, floods, volcanoes, and landslides. NISAR science products with datasets will be made available to the global scientific community including academia, research institutions, and user agencies.
The mission directly aligns with the IAC 2025 theme "Sustainable Space: Resilient Earth". It contributes to a Resilient Earth by providing actionable information for resource management, and disaster preparedness.

NISAR comes at a critical moment of heightened global focus on environmental hazards. As NISAR is a technological first and a mission designed for global resilience, its datasets will directly support the UN Sustainable Development Goals.
The proposed presentation jointly by ISRO and NASA, will feature mission engineering perspectives to practical societal applications, apart from emphasizing International cooperation. This LBN on NISAR will deliver a compelling and high-impact content for IAC-2025 attendees.

Speakers:

V. NARAYANAN
Chairman,
Indian Space Research Organisation (ISRO),
India

Karen ST. GERMAIN
Director, Earth Sciences Division, Science Mission Directorate,
National Aeronautics and Space Administration (NASA),
Unites States

09:30 – 10:00 Late Breaking News – Launching Australia's First Orbital Rocket – Lessons Learnt

Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

Australia has a proud history in space, but for over 50 years no orbital rocket had attempted lift-off from our shores—until Gilmour Space's maiden TestFlight1 from the Bowen Orbital Spaceport in July 2025.

This session takes you behind the scenes of building and launching a first-of-its-kind orbital rocket in a nation with no prior sovereign launch technology or infrastructure. From backyard engine tests to opening Australia's first commercial orbital spaceport, it's been a years-long test of engineering, regulation, and resilience.

TestFlight1 lasted just 14 seconds in flight, yet it marked a historic breakthrough for Australia's space capability. In this talk, we'll share:

- Standing up infrastructure: Designing and operating Bowen Orbital Spaceport.
- Navigating regulation: Securing first-of-its-kind permits and licences.
- Flight test realities: What worked, what didn't, and the data powering future missions.
- Industry impact: How this milestone positions Australia in global launch markets, boosts local supply chains, and inspires the next generation.

TestFlight1 laid the foundation for sustainable, sovereign launch from Australian soil. The lessons are already shaping Gilmour's next rockets—and the future of Australia's space industry.

Speaker:

Adam GILMOUR
CEO and Co-founder,
Gilmour Space Technologies,
Australia

10:15 – 11:15 IAF GNF – 25 Years Of Continued Astronaut Presence On ISS: A True Human Outpost In Space

Location: Pyrmont Theatre, Level 2, International Convention Centre Sydney (ICC) Sydney

On November 2nd this year, just a few weeks after the conclusion of IAC 2025 in Sydney, a very special anniversary will take place: 25 years of continuous human presence in lower Earth orbit onboard the International Space Station. This is a significant milestone in the history of human space exploration, as the ISS has become a beacon in the sky and an iconic symbol of collaboration, resilience and engineering prowess.

Despite technical challenges and an ever-changing geopolitical landscape, the ISS has steadily accomplished its mission to conduct research, pushing the boundary of knowledge, welcoming more than 280 crew members from two dozen countries, and paving the way for the next generation of space explorers.

As humans move on to other outposts and travel to farther destinations in the next decade, come and join a panel of veteran astronauts as they reflect on the lessons learned from ISS, from its planning, integration and assembly, to its peaceful and collaborative operation.

Speakers:

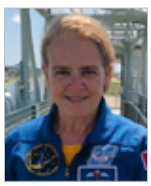
Andrew FEUSTEL
Lead Astronaut,
Vast,
Unites States

Alper GEZERAVCI
First Turkish Astronaut,
Turkish Space Agency Board Member, Turkish Space Command Coordination & Execution Director F-16 & KC-135R Pilot,
Turkish Space Agency (TUA),
Türkiye

Mark POLANSKY
Astronaut,
National Aeronautics and Space Administration (NASA),
United States

Koichi WAKATA
Astronaut and Chief Technology Officer, Asia-Pacific,
Axiom Space, LLC,
Japan

Soyeon Yi
Astronaut,
Republic of Korea



MODERATOR
Julie PAYETTE
Astronaut, President,
Association of Space Explorers (ASE),
Canada

11:30 – 12:30	**IAF GNF – Beyond Buzz: Public Engagement Strategies For A Space-Ready Society**

Location: Parkside 2, International Convention Center (ICC) Sydney

As the space sector rapidly evolves, so must the methods used to engage the public and cultivate a globally aware, space-literate society. Traditional outreach strategies often fall short in reaching diverse, non-technical audiences—particularly in underrepresented or remote communities. This panel seeks to uncover innovative, scalable, and culturally relevant strategies that space organizations and advocates are using (or should be using) to embed space and STEM meaningfully into everyday life.

With insights from space agencies, museums, education networks, space data companies, event organizers, and global outreach initiatives like World Space Week, this panel will explore:

- Grassroots to global campaigns that go beyond awareness and drive ownership of space futures
- The role of immersive storytelling, digital tools, and data democratization
- New frontiers in experiential outreach—from pop culture collaborations
- How investor-backed startups can design scalable, culturally sensitive engagement platforms
- Measurable approaches to ensure outreach translates into education, inspiration, and workforce impact.

Speakers:

Natavan HASANOVA
Strategy and Business Development Director,
Azercosmos Space Agency of the Republic of Azerbaijan,
Azerbaijan

Candace JOHNSON
Co-Initiator,
SES,
France

Lisa KEWLEY
Director,
Center for Astrophysics, Harvard & Smithsonian,
United States

Caroline PEGRAM
Head of Tech and Innovation,
SXSW Sydney,
Australia

Atsushi TAKATA
Executive Vice President for Global Strategy and Space Utilization,
SpaceData,
Japan

MODERATOR
Alma OKPALEFE
Executive Director,
World Space Week Association,
Nigeria

12:30 – 13:30	**VIP Luncheon** *(Upon Invitation Only)*

Location: Parkside 1, International Convention Centre (ICC) Sydney

13:45 - 14:45	**IAF GNF – Beyond Buzz: Public Engagement Strategies For A Space-Ready Society**

Location: Parkside 2, International Convention Center (ICC) Sydney

Step into a unique IAC 2025 session with the world premiere of Becoming Interplanetary, a film shaped by research conducted at Arizona State University and more than 20 expert interviews, led by Dr. Elena Rocchi and astronaut Chris Hadfield. This event invites participants to rethink the meaning of exploration and encourages bold reflection on what it truly means to reach for the unknown.

Science, art, and philosophy entwine on screen as the boundaries of human exploration are challenged and reframed. Attendees will join a conversation with some of the film's featured experts. What will you uncover about the human story and yourself on this interplanetary journey? Arrive curious. Leave transformed.

Watch Chris Hadfield's introductory video

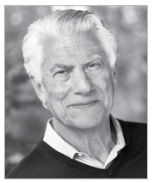
Speakers:

Jim BELL
School of Earth and Science Exploration, Director, ASU Space Technology and Science ("NewSpace") Initiative,
Arizona State University,
United States

Tanja MASSON-ZWAAN
VP: Technical Activities,
IAF Bureau,
Assistant Professor and Deputy Director of the International Institute of Air and Space Law (IIASL),
Leiden University,
Netherlands

Dava NEWMAN
Director; Apollo Professor of
MIT Media Lab,
United States

Jessica ROUSSET
Deputy Director,
Interplanetary Initiative
Arizona State University,
United States



Guillermo TROTTI
Professor, Co-founder and Chairman,
Arizona State University,
EarthDNA, Trotti Studio,
Japan

MODERATOR
Elena ROCCHI
Director of MSD Program, Space Architecture & Extreme Environment &
Clinical Professor of Architecture,
United States

16:30 – 17:30 Closing Ceremony

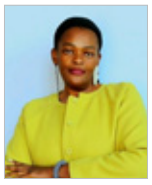
Location: Pyrmont Theatre, International Convention Centre (ICC) Sydney

Master of Ceremony:

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

Speakers:

Gabriella ARRIGO
Incoming President,
International Astronautical Federation (IAF),
Director, International Affairs Directorate,
Italian Space Agency (ASI),
Italy



Asanda NTISANA
VP: Honours and Awards,
IAF Bureau,
South Africa

19:00 – 22:00	Gala Dinner

Location: Grand Ballroom, International Convention Centre Sydney (ICC) Sydney

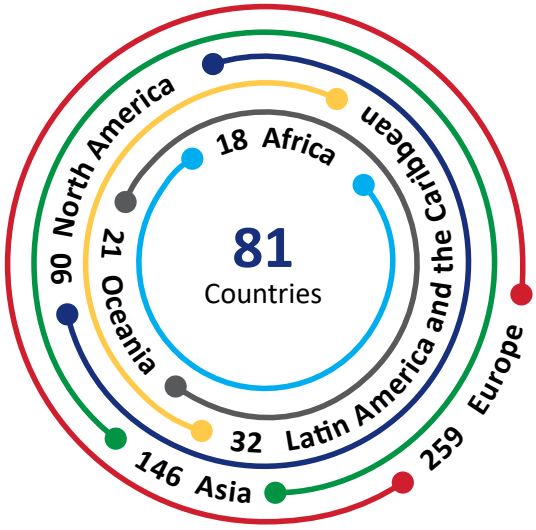
Under the Southern Stars is more than a theme. It is a celebration of life after dark in the Southern Hemisphere: the glow of sunset, the constellations that have guided Indigenous Australians for millennia, and the spirit of a nation that comes alive at night.

This elegant evening will weave together fine dining, exquisite entertainment, and cultural storytelling to create an atmosphere that is both sophisticated and unforgettable. Throughout the night, live performances will evoke the sounds, colours, and character of Australia's nocturnal landscape, offering a fresh and elevated take on Australiana.

The Gala Dinner is not only a social highlight of IAC 2025, but also a rare opportunity to connect with fellow delegates, industry leaders, and dignitaries in a truly memorable setting.

Notes

Join the IAF, the World's Leading and Most Diverse Space Advocacy Body



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- ✔ Apply on https://www.iaf-membership.org/
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- ✔ Propose to host a Plenary Event during the IAC
- ✔ Propose a Global Networking Forum (GNF) Event to showcase your organization's latest achievements or to discuss the most interesting topics about Space
- ✔ Participate and vote in the General Assembly and nominate IAF Officers
- ✔ Host one of our events!

Contact: membership@iafastro.org

Join Us

1 Connect to the **IAF Membership Platform** through the **IAF Website**

2 Complete the Application Form and attach the **requested documents.**

3 Remember to inlcude the Logo of your organization and a short description.

4 We will review your application and ask in case of missing information.

5 Once reviewed, your application will be recommended by the **IAF General Counsel**.

6 **Final approval** by the General Assembly during the IAC.

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