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**73<sup>rd</sup>**

**INTERNATIONAL ASTRONAUTICAL CONGRESS**

**18 - 22 SEPTEMBER 2022, PARIS, FRANCE**

*Space for @ll*

**GENERAL INFO  
& CONGRESS  
OVERVIEW**

**[www.iac2022.org](http://www.iac2022.org)**

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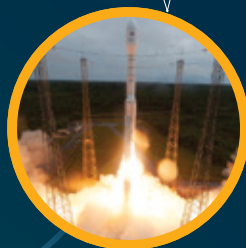






# International Astronautical Congress

Paris  
18-22  
September  
2022



[airbus.com/OrionESM](https://airbus.com/OrionESM)   

## THE SKY IS NOT OUR LIMIT

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Out of necessity, or indeed curiosity, from the beginning of time humankind has always explored. Our desire to discover continues today and is now fuelled by a spirit of collaboration and responsibility. No wonder we're so thrilled that Airbus is playing a pivotal role in the NASA Artemis missions to return astronauts to the Moon. Together with the European Space Agency, we're providing what they need to stay alive on board the Orion spacecraft, as well as keeping it moving. After all, this odyssey is not a space race; it is humanity venturing out together to learn and pioneer new technologies, enabling us to stay longer on the Moon.

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# 74<sup>th</sup> INTERNATIONAL ASTRONAUTICAL CONGRESS



2-6 October 2023  
Baku, Azerbaijan

IAC is back to Baku 50 years later under the theme  
**Global Challenges and Opportunities:  
Give Space a Chance**

Join us next year for an extraordinary celebration of space in a unique  
ambiance of hospitality, cultural diversity and acclaimed space legacy!

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# GLOC 2023

## IAF GLOBAL SPACE CONFERENCE ON CLIMATE CHANGE

Fire and Ice - Planetary Extremes in a Changing Climate

23 - 25 MAY 2023 | OSLO, NORWAY



[www.gloc2023.org](http://www.gloc2023.org)



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

- Climate change impacts on the environment
- Applications and services driven by climate change
- Impacts of a changing climate on policy and law
- Commercial opportunities created by a changing climate
- Present and future international collaboration on space missions related to climate change
- Social, communications, economic and cultural dimensions of environmental change



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For more info:



Join us for the **GLOC 2023 RECEPTION!**  
IAC 2022, Monday 19 September 17:00 - 17:45  
Norwegian Pavillion (Booth D10)

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IAF Alliance Programme Partners 2022





## 1 Welcome Messages

### 1.1 Message from the International Astronautical Federation (IAF)

Esteemed colleagues,

Never have there been more space missions in the planning, or commercial companies and emerging and developing space nations engaged in space ventures than today. The International Astronautical Congresses provides the main platform for global space actors to meet, share and connect.

The 73<sup>rd</sup> International Astronautical Congress, IAC 2022, is taking place in the beautiful city of Paris, France and it is hosted by the Centre National d'Études Spatiales (CNES), a member of IAF since 1981. Paris will host the IAC for the fourth time after 1950, 1963 and 1982. With the theme Space for @ll, the IAC 2022 will be reaching beyond the space community and bring together many communities that can benefit from space applications and offer them opportunities for networking and forging new contacts and potential partnerships.

IAF and CNES have been working intensively to make this IAC 2022 the place-to-be for many space and non-space communities to gather and reflect on the rapidly increasing global space economy; and to connect the global space community with flourishing start-ups, entrepreneurs, research organizations and manufacturers from all sectors to exchange ideas and showcase their own achievements.

I am particularly delighted to invite you to this unique event where the space community can interchange views and share experiences. Thank you for your commitment and active participation.

Enjoy the your IAC 2022!



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

### 1.2 Message from the Chair of the Local Organizing Committee (LOC)

CNES is delighted to welcome you to the 73<sup>rd</sup> International Astronautical Congress in the beautiful city of Paris. Paris hosted the very first IAC in 1950, then again in 1963 and 1982, and now will hold the record for the city with most IACs hosted.

While hosting this IAC 2022, CNES is pleased to be celebrating the 60<sup>th</sup> anniversary of its inception. IAC is indeed a catalyst affording great opportunities across the space community, as it provides unique momentum to spotlight space activities, boosts synergies and forges ties with an increasingly diverse panel of international partners. CNES is also glad to announce that the IAC 2022 exhibition is already a record-breaking one, with around 8,000 sq.m for exhibitors from all over the world.

With the theme of Space for @ll, CNES wants to make this IAC an outstanding opportunity to bring together the burgeoning global ecosystem of agencies, big companies, start-ups, entrepreneurs, laboratories and research scientists likely to get involved in space activities or benefit from them. Special attention is also being paid to students and young professionals who will be closely associated through dedicated events.

On Wednesday 21 September, CNES is hosting a public open day for families. Besides the exhibition and sponsors' large-scale mock-ups on display, visitors will be able to attend events with astronauts, planetary exploration specialists, experts in Earth observation and applications serving citizens, and even authors of space-inspired fiction.

France is one of the world's most visited countries; its capital offers a wealth of culture, history and heritage that make any stay worthwhile. We are sure you will enjoy your time here!



**Lionel SUCHET**  
*Chair,*  
*IAC 2022 Local Organizing Committee,*  
*Chief Operating Officer,*  
Centre National d'Études Spatiales (CNES)



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

Dear Colleagues and Friends,

On behalf of the International Programme Committee, we are very pleased to welcome all of you to the 73<sup>rd</sup> International Astronautical Congress (IAC) hosted for the 4<sup>th</sup> time in the beautiful city of Paris, France. The year 2022 will be a significant symbol for France as it is both the year of the celebrations of the 60<sup>th</sup> anniversary of CNES and the year it hosts the International Astronautical Congress (IAC), the largest specialized gathering in the space sector worldwide. Space has become an essential asset for society. Major topics such as the evolution of access to orbit, the build-up of large constellations and associated sustainability issues, the need to monitor Earth and climate change from space, and the amazing roadmap of human and robotic exploration missions for the next decade have inspired a very exciting panel of contributions to the conference.

The International Programme Committee has selected an outstanding array of material from a record collection of more than 4,800 abstract proposals. In addition, Plenary Events, Highlighted Lectures, Late Breaking News, Special Sessions and Interactive Presentations, will offer the most exciting points of view on recent research breakthroughs, technical advances, cooperation opportunities and emerging space technologies, and the IAF Global Networking Forum will provide even more opportunities to hear from some of the most qualified colleagues of the Space community.

In addition to the more than 5,000 leading figures in the international space industry from 70 countries, the Paris IAC 2022 encourages participation from users and partners from other sectors not belonging to the space community, according to the motto “*Space for @ll*”. Upon this, we intend to highlight the countless domains such as agriculture, fisheries, land planning, mobility, healthcare, tourism, construction and public works, for which space offers new solutions. Participating in the IAC 2022 will also enrich the youth’s knowledge in space science and technology. It will act as an accelerator for STEM education and will be a source of enormous pride and inspiration for the ambitious younger generations.

We firmly believe that your participation in IAC 2022 in Paris represents a tremendous opportunity to experience the evolutionary role of international partnerships in exploration, research, and development.

By working hand-in-hand, we will come up with a common vision which could reveal novel pathways for the established and emerging space nations in 2023 when the upcoming IAC is held in Baku, Azerbaijan. Returning to the same city – Baku – after a half century later, IAC 2023 will define an ambitious agenda for all to take part in the global space initiatives and activities sustainably.

Welcome to Paris and enjoy the IAC 2022!



**Pierre BOUSQUET**  
IPC Co-Chair,  
Senior Expert Planetology,  
Centre National d’Études Spatiales (CNES),  
France



**Dunay BADIRKHANOV**  
IPC Co-Chair,  
Vice-Chairman,  
Azercosmos Space Agency of  
the Republic of Azerbaijan,  
Azerbaijan

## 2 Organizer

### 2.1 The International Astronautical Federation (IAF)

Founded in 1951, the International Astronautical Federation is the world’s leading space advocacy body. The IAF has 433 members from 72 countries, including all leading space agencies, companies, societies, associations and institutes worldwide.

Following its theme - “*A space-faring world cooperating for the benefit of humanity*” and its motto “*Connecting @ll Space People*” - the Federation advances knowledge about space and fosters the development and application of space assets by advancing global cooperation.

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

#### International Astronautical Federation

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75015 Paris, France

T: +33 1 45 67 42 60

W: [www.iafastro.org](http://www.iafastro.org)

E: [info@iafastro.org](mailto:info@iafastro.org)

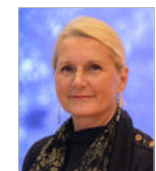
**Connecting @ll Space People**

Be part of the conversation @iafastro





## IAF Bureau Members 2022 – 2023



**PRESIDENT**  
**Pascale EHRENFREUND**  
President, International Space University (ISU), Austria



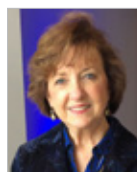
**INCOMING IAF PRESIDENT**  
**Clay MOWRY**  
Chief Revenue Officer, Voyager Space Holdings, United States



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



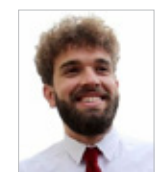
**HONORARY SECRETARY**  
**Geir HOVMORK**  
Special Adviser to the Director General, Norwegian Space Agency, Norway



**VP: COMMUNICATIONS, PUBLICATIONS AND GLOBAL CONFERENCES**  
**Mary SNITCH**  
Lead, External Engagements, Lockheed Martin Corporation, United States



**VP: DIVERSITY INITIATIVES AND SCIENCE & ACADEMIC RELATIONS**  
**Deganit PAIKOWSKY**  
Lecturer, Department of International Relations, Hebrew University of Jerusalem, Israel



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**Davide PETRILLO**  
Executive Director, Space Generation Advisory Council (SGAC), Italy



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**Andreas LINDENTHAL**  
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**Steve EISENHART**  
Senior Vice President, Space Foundation, United States



**VP: PARLIAMENTARIAN AND MINISTERIAL RELATIONS AND USER COMMUNITIES**  
**Dominique TILMANS**  
President, EURISY, Honorary Senator, Belgium



**VP: RELATIONS WITH INTERNATIONAL ORGANIZATIONS**  
**Sergey SAVELIEV**  
Deputy Director General for International Cooperation, State Space Corporation ROSCOSMOS, Russian Federation



**VP: SOCIETIES AND MUSEUMS**  
**Xiaojun WANG**  
President, China Academy of Launch Vehicle Technology (CALT), China



**VP: SPACE ECONOMY AND SPONSORSHIP**  
**Nobu OKADA**  
Founder & CEO, Astroscale, Japan



**VP: TECHNICAL ACTIVITIES**  
**Lionel SUCHET**  
Chief Operating Officer, Centre National d'Études Spatiales (CNES), France



**IAA PRESIDENT**  
**John SCHUMACHER**  
Senior Vice-President, Aerojet Rocketdyne, United States



**IISL PRESIDENT**  
**Kai-Uwe SCHROGL**  
European Space Agency (ESA), Germany



**IAF EXECUTIVE DIRECTOR**  
**Christian FEICHTINGER**  
Executive Director, IAF Secretariat, Austria



**SPECIAL ADVISOR TO THE IAF PRESIDENT (IAC Evolution)**  
**S. SOMANATH**  
Chairman, Indian Space Research Organization (ISRO), India



**SPECIAL ADVISOR TO THE IAF PRESIDENT (International Space Forum & Developing Countries and Emerging Nations)**  
**Giorgio SACCOCCIA**  
President, Italian Space Agency (ASI), Italy

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Executive Director



**Giulia Maria BERARDI**  
Deputy Executive Director



**Silvia ANTOLINO**  
Senior Communications Manager



**Isabella MARCHISIO**  
Senior Projects Manager



**Myriam MORABET**  
Senior Projects Manager



**Giulia ANGELETTI**  
Office Manager



**Emma BOISDUR**  
Projects Manager



**Alessandra D'ARGENIO**  
Projects Manager



**Martina FABBIANI**  
Projects Manager



**Evelina HEDMAN**  
Creative Services & Projects Manager



**Stefano PASCALI**  
Projects Manager



**Elena FEICHTINGER**  
Projects Manager and Special Advisor (Volunteer)



**Martin FEICHTINGER**  
Administrative & Project Support



## IAF Member Organizations 2022

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AAKA SPACE STUDIO CORP	Canada	Beijing Smart Satellite Technology Co., Ltd.	China	Curtin University	Australia	Fraunhofer Alliance Space	Germany
Access e.V.	Germany	Beijing SpaceD Aerospace Application & Science Education Technology Co.,Ltd.	China	CVA (Community of Ariane Cities)	France	Fundacion para el Desarrollo de las Ciencias la Sociedad y el Estado (FUNDECISE)	Costa Rica
Adriatic Aerospace Association	Croatia	Beijing Sunwise Space Technology Ltd.	China	Cyprus Astronautical Society	Cyprus	Future Space Leaders Foundation	United States
AED Cluster Portugal	Portugal	Belgian Federal Science Policy Office (BELSPO)	Belgium	Cyprus Space Exploration Organisation (CSEO)	Cyprus	G.A.U.S.S. Srl	Italy
Aerojet Rocketdyne	United States	Ben-Gurion University of the Negev	Israel	Czech Space Alliance	Czech Republic	Geo-Informatics and Space Technology Development Agency (GISTDA)	Thailand
Aerospace Industries Association	United States	Berkeley SETI Research Center	United States	Czech Space Office	Czech Republic	German Aerospace Industries Association (BDLI)	Germany
Aerospace Research Institute	Iran	beSpace GmbH	Germany	Dalian University of Technology (DUT)	China	GIFAS	France
Aexa Aerospace LLC	United States	Beyond Gravity	Switzerland	Danish Aerospace Company A/S	Denmark	GK Launch Services, JSC	Russian Federation
Agence Spatiale Algérienne (ASAL)	Algeria	Black Engine Aerospace UG	Germany	Danish Astronautical Society	Denmark	GKN Aerospace Engine Systems	Sweden
Agencia Espacial Mexicana (AEM)	Mexico	Blue Origin LLC	United States	Dassault Aviation	France	Global Defence for Industrial Transformation	United States
AGI	United States	Brazilian Space Agency (AEB)	Brazil	Dcubed (Deployables Cubed GmbH)	Germany	GMV Aerospace & Defence SAU	Spain
Agrupacion Astronautica Espanola	Spain	Bryce Space and Technology	United States	Deimos Space S.L.	Spain	Gokmen Space and Aviation Training Center (GUHEM)	Turkey
Airbus Defence and Space GmbH	Germany	Bulgarian Aerospace Agency	Bulgaria	Delft University of Technology	The Netherlands	GomSpace Aps	Denmark
Airbus Defence and Space Netherlands B.V.	The Netherlands	California Polytechnic State University	United States	Denel Spaceteq	South Africa	Graz University of Technology (TU Graz)	Austria
Airbus Defence and Space SA	Spain	Canadensys Aerospace Corporation	Canada	Department of Space Studies, University of North Dakota	United States	Gumush Aerospace & Defense	Turkey
Airbus Defence and Space SAS	France	Canadian Aeronautics & Space Institute (CASI)	Canada	Dereum Labs S.A. de C.V.	Mexico	HE Space	Germany
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ALE Co., Ltd.	Japan	Canadian Space Society	Canada	Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)	Germany	Hermann-Oberth-Raumfahrt Museum e.V.	Germany
Alma Mater Studiorum - University of Bologna	Italy	C-Astra Technologies	United States	Digantara Research and Technologies Private Limited	India	Hermes Engineering	Bulgaria
American Astronautical Society (AAS)	United States	Georgia Tech Center for Space Technology and Research (CSTAR)	United States	Disrupting Space LLC	United States	High Technology Unit (UAT) Faculty of Engineering - UNAM	Mexico
American Institute of Aeronautics and Astronautics (AIAA)	United States	Center of Space Exploration, Ministry of Education (COSE)	China	D-Orbit SpA	Italy	Hong Kong Aerospace Technology Group Limited (HKATG)	China
Andøya Space Center	Norway	Central American Association for Aeronautics and Space (ACAE)	Costa Rica	Dragonfly Aerospace Pty (Ltd)	South Africa	Hungarian Astronautical Society (MANT)	Hungary
Angolan National Space Program Management Office (GGPEN)	Angola	Central Research Institute for Machine Building (JSC TSNIIIMASH)	Russian Federation	Dynetics	United States	IABG Industrieanlagen - Betriebsgesellschaft mbH	Germany
ANU Institute for Space (InSpace)	Australia	Centre for Mechanical and Aerospace Science and Technologies (C-MAST)	Portugal	Ecole Polytechnique Fédérale de Lausanne (EPFL)	Switzerland	IHI Aerospace Co, Ltd.	Japan
Arianespace	France	Centre for the development of Industrial Technology (CDTI)	Spain	Egyptian Space Agency	Egypt	Indian Space Research Organization (ISRO)	India
Asgardia	Austria	Centre National de la Cartographie et de la Teledetection (CNCT)	Tunisia	Embry-Riddle Aeronautical University	United States	Indonesian Space Agency Secretariat (INASA)	Indonesia
Asher Space Research Institute (ASRI)	Israel	Centre National d'Etudes Spatiales (CNES)	France	EMXYS (Embedded Instruments and Systems S.L)	Spain	Infostellar	Japan
Asia-Pacific Space Cooperation Organization (APSCO)	China	Centre Royal de Télédétection Spatiale (CRTS)	Morocco	EnduroSat AD	Bulgaria	IngeniArs Srl	Italy
Association Aéronautique & Astronautique de France (3AF)	France	Centro de Investigacion y Difusion Aeronautico Espacial (CIDA-E)	Uruguay	Engineers Australia	Australia	INNOSPACE Co. Ltd.	South Korea
Association of Space Explorers (ASE)	United States	China Head Aerospace Technology Co.	China	EngineRoom.io Pty Ltd	Australia	Institut d'Estudis Espacials de Catalunya	Spain
Associazione Italiana di Aeronautica e Astronautica (AIDAA)	Italy	Chinese Society of Astronautics (CSA)	China	EOS Data Analytics Inc.	United States	Institut Français d'Histoire de l'Espace	France
Astralintu Space Technologies	Ecuador	CIRA Italian Aerospace Research Centre	Italy	Estonian Business Innovation Agency	Estonia	Institut Supérieur de l'Aéronautique et de l'Espace (ISAE)	France
Astrax, Inc.	Japan	Colegio Federado de Ingenieros y de Arquitectos de Costa Rica (CFIA)	Costa Rica	EUMETSAT	Germany	Institute for Q-shu Pioneer of Space, Inc. (iQPS)	Japan
Astronautic Technology SDN BHD	Malaysia	Colombian Space Agency	Colombia	EURISY	France	Institute of Biomedical Problems (IBMP), Russian Academy of Sciences (RAS)	Russian Federation
Astronautical Society of India	India	Colorado Center for Astrodynamics Research, University of Colorado	United States	Euro Space Center	Belgium	Institute of Experimental and Applied Physics, Czech Technical University in Prague	Czech Republic
Astrosat Ltd	United Kingdom	Comision Nacional de Actividades Espaciales (CONAE)	Argentina	Euroconsult	France	Institute of Mechanics, Chinese Academy of Sciences	China
Astroscale Pte. LTD	Japan	Commission d'Astronautique de l'Academie Roumaine	Romania	European Conference for Aero-Space Sciences (EUCASS)	Belgium	Institute of Space Technology (IST)	Pakistan
Auspace Pty Ltd	Australia	COMSPOC Corp.	United States	European Organization for Nuclear Research (CERN)	Switzerland	Instituto de Aeronáutica e Espaço (IAE)	Brazil
Australian Space Agency	Australia	Cosmoexport Aerospace Research Agency	Russian Federation	European Space Agency (ESA)	France	Instituto Nacional de Pesquisas Espaciais (INPE)	Brazil
Austrian Research Promotion Agency (FFG)	Austria	Council of European Aerospace Societies (CEAS)	Belgium	European Space Foundation	Poland	Instituto Nacional de Tecnica Aeroespacial (INTA)	Spain
AUSTROSPACE	Austria	Croatian Astronautical and Rocket Federation (HARS)	Croatia	European Space Policy Institute (ESPI)	Austria	Instituto Tecnológico de Costa Rica (TEC)	Costa Rica
Axiom Space LLC	United States	CSIRO Astronomy & Space Science	Australia	European Test Services (ETS) B.V.	The Netherlands	International Association for the Advancement of Space Safety	The Netherlands
Bauman Moscow State Technical University	Russian Federation			European Union Agency for the Space Programme (EUSPA)	Czech Republic	International Institute of Space Commerce	Isle of Man
Beihang University	China			Eurospace	France	International Lunar Observatory Association	United States
Beijing FutureSpace Space Technology Institute	China			Fachhochschule Wiener Neustadt GmbH	Austria	International Peace Alliance	China
Beijing Infinite Education Inc.	China			Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST)	United States	International Space Center - Space Park Israel Ashkelon	Israel
Beijing Interstellar Glory Space Technology Co., Ltd	China			Felix & Paul Studios	United States	International Space University (ISU)	France
				Finnish Astronautical Society	Australia		
				Firefly Aerospace Inc.			
				Flinders University			



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Intersputnik International Organization of Space Communications	Russian Federation	Moon Village Association (MVA)	Austria	Portugal Space Agency	Portugal	Space Commercial Services Holdings (Pty) Ltd	South Africa
Invap S.E.	Argentina	Moscow Aviation Institute (MAI)	Russian Federation	PRATIAN LLC	Puerto Rico	Space Flight Laboratory (SFL)	Canada
Iranian Space Agency	Iran	MT Aerospace AG	Germany	PricewaterhouseCoopers Advisory (PwC)	France	Space Foundation	United States
ispace, inc	Japan	Mudd Law	United States	Proximai	United States	Space Generation Advisory Council (SGAC)	Austria
Israel Aerospace Industries. Ltd.	Israel	Nanjing University of Aeronautics and Astronautics	Mexico	PTS Planetary Transportation Systems GmbH	Germany	Space Industry Association of Australia	Australia
Israel Space Agency	Israel	NanoAvionika UAB (NanoAvionics LLC)	China	Purple Mountain Observatory (PMO)	China	Space Policy Institute, George Washington University	United States
Italian Space Agency (ASI)	Italy	Nanoracks	Lithuania	QinetiQ Space nv	Belgium	Space Tech Expo - Smarter Shows Ltd	United Kingdom
Japan Aerospace Exploration Agency (JAXA)	Japan	National Aeronautics and Space Administration (NASA)	United States	Qwaltec Inc.	United States	Space Trust	United Kingdom
Japan Manned Space Systems Corporation (JAMSS)	Japan	National Aerospace Agency (NASA) of Azerbaijan Republic	United States	Rafael Advanced Defense Systems Ltd.	Israel	Spacebit Global Ltd	United Kingdom
Japan Society for Aeronautics and Space Sciences (JSASS)	Japan	National Astronomical Research Institute of Thailand	Azerbaijan	Ramirez de Arellano y Abogados, S.C. Law Firm	Mexico	SpaceBuzz	The Netherlands
Japanese Rocket Society	Japan	National Autonomous University of Honduras	Thailand	Reaction Engines	United Kingdom	SpaceChain Foundation Ltd.	Singapore
Joanneum Research	Austria	National Institute of Information and Communications Technology (NICT)	Honduras	RFA - Rocket Factory Augsburg	Germany	SpaceForest	Poland
JSC Glavkosmos	Russian Federation	National Oceanic and Atmospheric Administration (NOAA)	Japan	Rocket Research Institute, Inc.	United States	SpaceLand Africa	Mauritius
JSC NPO Energomash	Russian Federation	National Space Centre	United States	Romanian Space Agency (ROSA)	Romania	SpaceNed	The Netherlands
JSC SRC Progress	Russian Federation	National Space Research and Development Agency (NASRDA)	Ireland	ROSCOSMOS	Russian Federation	Spacety	China
Karman Project	Germany	National Space Science Agency (NSSA)	Nigeria	Rovsing A/S	Denmark	Spade	United States
KBR	United States	National Space Society	Bahrain	RUAG Space	Sweden	Spartan Space	France
Keldysh Research Center	Russian Federation	NEC Corporation	United States	S.P. Korolev Rocket and Space Corporation Energia	Russian Federation	Starburst Aerospace Ltd	France
Kenya Space Agency	Kenya	Netherlands Aerospace Centre (NLR)	Japan	Safran Aircraft Engines	France	Stardust Technologies Inc.	Israel
Khalifa University of Science of Technology	United Arab Emirates	Netherlands Space Office (NSO)	The Netherlands	Saint Petersburg State University of Aerospace Instrumentation	Russian Federation	State Space Agency of Ukraine (SSAU)	Canada
Khrunichev State Research & Production Space Center	Russian Federation	Netherlands Space Society (NVR)	The Netherlands	Samara National Research University (Samara University)	Russian Federation	Stellenbosch University	Ukraine
King Abdulaziz City for Science & Technology (KACST)	Saudi Arabia	NeutronStar Systems UG (hb)	Germany	Sapienza University of Rome	Italy	STM (Savunma Teknolojileri Muhendislik ve Ticaret A.S.)	South Africa
Kongsberg Satellite Services AS	Norway	New Zealand Space Agency	New Zealand	Satellogic	Spain	Surrey Satellite Technology Ltd (SSTL)	Turkey
Korea Aerospace Industries, Ltd	Korea, Republic of	NGC Aerospace Ltd.	Canada	Satrec Initiative	Korea, Republic of	Swedish Society for Aeronautics and Astronautics	United Kingdom
Korea Aerospace Research Institute (KARI)	Korea, Republic of	Nigerian Meteorological Agency	Nigeria	Saudi Space Commission (SSC)	Saudi Arabia	Swedish Space Cooperation (SSC)	Sweden
Korea Association for Space Technology Promotion (KASP)	Korea, Republic of	Norsk Astronautisk Forening	Norway	Secure World Foundation	United States	Swiss Space Office (SSO)	Switzerland
Korea Astronomy and Space Science Institute	Korea, Republic of	Northrop Grumman Corporation	United States	SEMECCEL Cité de l'Espace	France	SwissSpace Association	Switzerland
Kyushu Institute of Technology	Japan	Northwestern Polytechnical University	China	SENER Ingenieria y Sistemas, S.A.	Spain	Teaching Science and Technology, Inc (TSTI)	United States
LandSpace Technology Corporation Ltd.	China	Norwegian Space Agency	Norway	Serbian Office for Space Sciences, Research and Development (SERBSPACE)	Serbia	Technical University of Košice	Slovak Republic
Lavochkin Science and Production Association	Russian Federation	Novespace	France	SES	Luxemburg	Techno System Developments S.R.L.	Italy
Law Offices of Sterns and Tennen	United States	Office for Space Technology & Industry, Singapore	Singapore	Shaanxi Engineering Laboratory for Microsatellites	China	Technology and Engineering Center for Space Utilization, Chinese Academy of Sciences	China
Leviathan Space Industry LLC	Greece	Office National d'Etudes et de Recherches Aéropatiales (ONERA)	France	Shaanxi XingYi Space technologies Co. Ltd.	China	Teledyne Brown Engineering	United States
Libre Space Foundation	Austria	OHB Italia SpA	Italy	Shamakhy Astrophysical Observatory	Azerbaijan	Telespazio S.p.A.	Italy
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Mitsubishi Electric Corporation				Space Agency of Republic of Azerbaijan (Azercosmos)	Azerbaijan	The National Space Science and Technology Center (NSSTC)	United Arab Emirates
Mitsubishi Heavy Industries, Ltd.				Space Applications Services NV/SA	Belgium	The Ohio State University College of Engineering	United States
				Space Canada Corporation	Canada		



The Planetary Society	United States	University Space Program, Universidad Nacional Autonoma de Mexico	Mexico
The Sergei Korolev Space Museum	Ukraine	University Wuerzburg	Germany
The University of Sydney	Australia	UNSW Australia	Australia
The University of Winnipeg	Canada	Valispace	Germany
ThrustMe	France	Victorian Space Science Education Centre	Australia
TNO	The Netherlands	Vieira de Almeida & Associados	Portugal
Tsinghua University	China	Vietnam National Space Center (VNSC)	Vietnam
Turkish Space Agency (TUA)	Turkey	Virgin Galactic L.L.C	United States
U.S. Geological Survey	United States	Viterbi School of Engineering, USC	United States
UAE Space Agency	United Arab Emirates	VITO nv	Belgium
UK Space Agency	United Kingdom	Von Karman Institute for Fluid Dynamics	Belgium
United Launch Alliance LLC	United States	Voyager Space Holdings	United States
Universiti Teknologi Mara (UITM)	Malaysia	WFB - Wirtschaftsförderung Bremen	Germany
University Mediterranea of Reggio Calabria	Italy	Women in Aerospace Europe (WIA-E)	The Netherlands
University of Adelaide	Australia	World Space Week Association	United States
University of Alabama in Huntsville	United States	Xovian Research & Technologies Pvt. Ltd	India
University of Naples "Federico II"	Italy	Yuzhnoye State Design Office	Ukraine
University of South Australia	Australia	ZARM Fab GmbH	Germany
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University of Tartu	Spain		
University of Vigo	Romania		
University POLITEHNICA of Bucharest - Research Center for Aeronautics and Space			

## 3 Host

### 3.1 Centre National d'Études Spatiales (CNES)

For the last 60 years, CNES has played a pivotal role in the French, European and international space arena.

CNES's mission is to foster new initiatives, nurture innovation and employ its technical expertise to further the design, development and operation of orbital systems. It is also instrumental in maintaining France and Europe's sovereignty in access to space and strategic data. With its four centres of excellence in Paris, Toulouse and French Guiana, CNES is working to extend France's scientific influence, promote its industry and more broadly encourage uptake of space applications.

#### Centre National d'Études Spatiales

2 place Maurice Quentin  
75039 Paris Cedex 01, France

T: +33 1 44 76 75 00

W: [www.cnes.fr](http://www.cnes.fr)



### The Local Organizing Committee



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IAC 2022 Chair  
CNES



**Myriam CURNET**  
IAC 2022 Project manager  
CNES



**Christine GOUHOT**  
IAC 2022 Project and  
communication support  
CNES



**Philippe COLLOT**  
IAC 2022 Communication head  
CNES



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CNES



**Lionel BAIZE**  
IAC 2022 Project advisor  
CNES



**Jean-Paul BERTHIAS**  
IAC 2022 Advisor  
CNES





## 4 Partner Organizations

### 4.1 The International Academy of Astronautics (IAA)

The International Academy of Astronautics is a community of leading experts committed to expanding the frontiers of space, the newest realm of human activity. To foster the development of astronautics, the Academy undertakes a number of activities, including the recognition of outstanding contributors through elections and awards. It also facilitates professional communication, develops and promotes new ideas and initiatives, engages the public and fosters a sense of community among the members.

The IAA is a unique independent non-governmental organization established in 1960 and recognized by the United Nations in 1996. It is an honorary society with an action agenda. With about 1,200 elected members and corresponding members from 91 nations, the International Academy of Astronautics works closely with space agencies, industry, the academic community and the national science and engineering academies to determine needs and objectives and to help shape policy and forge cooperation by means of studies, position papers, conferences and publications.

The IAA has published more than 70 studies to date and is engaged in the preparation of about 40 others. The Academy also publishes four book series and its journal Acta Astronautica ranked 1<sup>st</sup> in the space area in the world and containing each year about 3500 refereed papers. The Academy organizes about 25 conferences and regional meetings per year focused on the development and promotion of all space activities and covering all continents including space developing countries.

In addition, the Academy activity also includes, in cooperation with the International Astronautical Federation and the International Institute of Space Law, the traditional contribution to the International Astronautical Congress (IAC), where the Academy organizes 13 symposia. The Academy also continues to enjoy its participation in the COSPAR Assemblies and the International Society for Photogrammetry and Remote Sensing (ISPRS) congress. Although the IAA has many connections to these and other similar organizations, it is distinctive as the only International Academy of elected members in the broad area of astronautics and space.

IAA Academy Day will be held at the IAA Headquarters, 6 rue Galilee, Paris.

#### International Academy of Astronautics (IAA)

Aeroclub de France building  
6, rue Galilee  
75116 Paris FRANCE - Metro Boissieres

Mailing address:  
P.O. Box 1268-16  
75766 Paris Cedex 16, France

T: +33 1 47 23 82 15  
E: [sgeneral@iaaemail.org](mailto:sgeneral@iaaemail.org)  
W: <https://iaaspace.org/>



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## 4.2 The International Institute of Space Law (IISL)

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

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

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

### International Institute of Space Law (IISL)

E: [info@iislweb.org](mailto:info@iislweb.org)

W: <http://iislweb.space>

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

Twitter: [https://twitter.com/iisl\\_space](https://twitter.com/iisl_space)



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### 4.3 The Space Generation Advisory Council (SGAC)

The Space Generation Advisory Council in Support of the United Nations Programme on Space Applications is a global non-governmental, non-profit (US 501(c)3) organization and network which aims to represent university students and young space professionals aged 18-35 to the United Nations, space agencies, industry, and academia. Headquartered in Vienna, Austria, the SGAC network of members, volunteers, and alumni has grown to more than 21000 members representing more than 165 countries.

SGAC was conceived at UNISPACE III in 1999, as part of the Vienna Declaration, "To create a council to support the United Nations Committee on the Peaceful Uses of Outer Space, through raising awareness and exchange of fresh ideas by youth. The vision is to employ the creativity in advancing humanity through peaceful uses of space". SGAC holds Permanent Observer status at the United Nations Committee on the Peaceful Uses of Outer Space (UN COPUOS) and regularly takes part in the annual meeting, as well as its Legal and Scientific and Technical Subcommittees. SGAC holds consultative status at the United Nations Economic and Social Council (UN ECOSOC), contributing to discussions on the role of space in achieving the UN Sustainable Development Goals.

As a volunteer-run organization, SGAC believes in empowering its members and providing them with opportunities for professional development through roles in the SGAC teams.

Further information regarding SGAC can be found at [www.spacegeneration.org](http://www.spacegeneration.org)

#### Space Generation Advisory Council

SGAC % European Space Policy Institute  
Schwarzenbergplatz 6  
A-1030 Vienna, Austria

E: [info@spacegeneration.org](mailto:info@spacegeneration.org)  
W: [www.spacegeneration.org](http://www.spacegeneration.org)  
Facebook: @spacegeneration  
Twitter: @SGAC



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## 5 PARIS

### 5.1 General Information A – Z

We are pleased to welcome you to the 73<sup>rd</sup> International Astronautical Congress 2022. Here you will find some important information about the Congress.

#### ACCESS TO THE PARIS CONVENTION CENTRE

##### By Public Transport:

- Entrance Gate A2 – Porte de Versailles
- Metro: Line 12, station Portes de Versailles or Line 8, station Balard
- Tramway: Lines T2 or T3, station Portes de Versailles
- Bus : Line 39 or 80, station Portes de Versailles
- Bicycle : Vélib' station in avenue Ernest Renan

##### By Car:

- GPS coordinates: 32 U 691610 5334765; 48.13726°N 11.57558°E
- Parking: Car Park 7: Rue Marcel Yol, 92170 Vanves

##### By Plane:

- **From Roissy-Charles de Gaulle airport:**
- Take the RoissyBus to Paris–Opéra, then take Metro Line 8 (direction Balard) to Madeleine, and change to Line 12 (direction Mairie d'Issy) to Porte de Versailles–Parc des Expositions station
- Take the RER B (direction Saint-Rémy-lès-Chevreuse) to Cité Universitaire station, then take tramway T3 (direction Pont du Garigliano) to Porte de Versailles–Parc des Expositions stop.
- **From Orly airport:**
- Take the Orlyval train to Antony, then the RER B to Cité Universitaire, change to the tramway T3 and get off at the Porte de Versailles–Parc des expositions stop
- Take the Orlybus to Denfert-Rochereau, then the RER B to Cité Universitaire, change to the tramway T3 and get off at the Porte de Versailles–Parc des expositions stop.

##### Carpooling:

A great way to fight pollution is by using carpooling. Please register with the following [Link](#)

#### ACCESSIBILITY

The Paris Convention Centre is fully accessible for persons with disabilities. The entire IAC 2022 onsite staff is trained to support delegates with handicaps an/or reduced mobility. Do not hesitate to ask them should you require any specific assistance. More information can be found under [www.iac2022.org/accessibility/](http://www.iac2022.org/accessibility/)

#### ACCOMMODATION

Please visit the hotel counter in the registration area if you wish to book a hotel room or if you have any problem with your hotel reservation.

Please book your hotel room here <https://iac2022.org/accommodation/> with the official Congress accommodation partner, K.I.T. Group France.

#### BABYSITTING

Need a babysitter while you are at IAC 2022? Barnett Consulting offers babysitting services so that your children can be kept outside the congress in complete safety. Send your request by e-mail to [conciierge@barnettconsulting.fr](mailto:conciierge@barnettconsulting.fr)

#### BANKING FACILITIES

The currency in Paris is Euros. A cash machine is situated on level 7.1 of the Paris Convention Centre.

#### CATERING AREA

Delegates can use one of the several facilities at the Paris Convention Centre.

Within the Exhibition Area, Hall 7.2:

- Delegates coffee during exhibition opening time
- Four restaurants to purchase meals, sandwiches, and desserts as well as beverages.

Within the entrance hall:

- Restaurant Bistrot de Paris

Water fountains are available throughout the Congress Centre, and a water bottle are offered to each delegate in the congress bag.

#### CLOAKROOM

The Cloakroom is located on Registration level 7.1 of the Paris Convention Centre.

There is no charge.

The Cloakroom will be open during the following hours:

16 September: 7:00-20:00

17 September: 7:00-21:30

18 September: 7:00-22:00

19 September: 7:00-21:30

20 September: 7:00-21:30

21 September: 7:00-19:30

22 September: 7:00-18:00

#### CONGRESS BAG



The Congress Bag, containing the Congress material, can be obtained at the Congress Material Counter close to the Registration Counter.

#### CONGRESS BAG

The Congress Bag, containing the Congress material, can be obtained at the Congress Material Counter close to the Registration Counter.

#### CONGRESS COURTESY AND CODE OF CONDUCT

The IAF expects its staff, members, volunteers, and event participants to be guided by the highest standard of ethics, to communicate professionally and constructively, whether in person or virtually, handling dissent or disagreement with courtesy, dignity, and an open mind, being respectful when providing feedback, and being open to alternate points of view

Amongst unacceptable behaviors at any IAF activity or event are:

- Abuse: threats, intimidation, bullying, stalking, or other types of abuse.
- Discriminatory harassment: includes offensive verbal or written comments and negative behavior, sustained disruption of talks or other events, either in real or virtual space.
- Sexual harassment: sexual harassment may involve any conduct of a verbal, nonverbal, or physical nature, including written and electronic communications.

[iaf-code-of-ethics--professional-conduct.pdf](http://iaf-code-of-ethics--professional-conduct.pdf) ([iafastro.org](http://iafastro.org))

#### CONGRESS PROGRAMMES



As part of the CSR approach of IAC 2022, there will be no printed copies of the IAC 2022 Final Programmes. The programmes are available online on the IAF Website.

<https://www.iafastro.org/events/iac/iac-2022/publications.html>



## CSR POLICY

CNES, the 73<sup>rd</sup> International Astronautical Congress host, vows to produce the first sustainable IAC!

As the Professional Congress Organizer chosen by CNES, K.I.T. Group France shares this commitment and has integrated sustainable practices at all levels of the construction and organization of the event.

The certification process has been initiated according to the ISO 20121: 2012 “responsible event” standard. ISO 20121 offers guidance and best practice to help manage the event and control its social, economic, and environmental impact.

In addition to ISO 20121, IAC 2022 has decided to go even further and calculate its Carbon Footprint: the total amount of greenhouse gases (including carbon dioxide and methane) generated by our actions in all departments of the event: from registration, accommodation, transport, materials, to food, energy, and waste.

Objective 1: Eco-designing its communication with the various stakeholders. It means that we:

- Raise awareness of the CSR approach among our stakeholders.
- Reduce the ecological footprint of the congress communication through responsible communication practices (for example, the congress programs will not be printed but will be available in digital format).

Objective 2: Positive social impact: making the congress accessible and welcoming to all

- Make the event accessible to all (within the venue with adapted care).
- Commitment to parity and diversity with, for example, the wearing of gender-neutral clothing by reception staff.
- Develop the experience of others by having solidarity partners intervene during the Public Day.

Objective 3: Environment: control consumption and promote responsible actors

- Limiting waste production, rationalizing consumption (eliminating single-use plastic, energy management).
- Use eco-responsible suppliers via a responsible purchasing policy.
- Carry out the carbon footprint of the event.

Objective 4: Health, safety, and collaboration: Putting the health, safety, and satisfaction of conference participants at the center of our concerns

- Ensure a safe environment for all participants (implementation of a safety policy specific to the event).
- To ensure the good health of the participants by including a medical service during the event.
- Fully satisfying the stakeholders through an optimized quality of service and the evaluation of their satisfaction.

Objective 5: Favor local products, take advantage of certification, and transmit innovation outside of space

- Use local suppliers to generate positive local economic spin-offs.
- Certify the congress ISO 20121, an international standard, to make it a reference for sustainable development in the space industry.
- Be a platform for innovation exchange between space and non-space actors.

## EMERGENCY PHONE NUMBERS

Dial 112 for all emergencies (police, fire, medical). Callers will then be placed through to the appropriate emergency service.

## ENTITLEMENTS

The registration fees for the following categories: delegates, retired people, young professionals, full-time students, and teachers include:

- a congress badge,
- congress bag,
- admission to the plenary programme,
- access to all scientific and technical sessions,
- access to the exhibition hall,
- the Welcome Reception,
- and the Opening Ceremony.

## EXHIBITION AREA

Congress participants are invited to visit the Exhibition Area located in Hall 7.2.

Opening Hours:

- 18 September: 9:00-18:00
- 19 September: 9:00-18:00
- 20 September: 9:00-18:00
- 21 September: 9:00-18:00
- 22 September: 9:00-16:15

## IAF SECRETARIAT

You find us in the IAF team in Hall 7.3 Room E01A!

## IAF MEMBERS LOUNGE

The IAF Members Lounge is located in the Exhibition Area (Hall 7.2) and is accessible for all IAF Members.

## INFORMATION POINTS

Located on levels 7.2 and 7.3 of the Paris Convention Centre. Hosts and hostesses will be present for any information:

- 16 September: 13:00-18:00
- 17 September: 8:00-18:00
- 18 September: 7:00-18:00
- 19 September: 8:00-17:00
- 20 September: 8:00-17:00
- 21 September: 8:00-17:00
- 22 September: 8:00-13:00

## INSURANCE AND LIABILITY

The International Astronautical Federation (IAF) and the Centre National d’Etudes Spatiales (CNES) do not accept any liability for personal injury, loss, or damage to belongings of Congress participants, either during or as a result of the Congress. Please check the validity of your own insurance.

## INTERACTIVE PRESENTATION AREA

Interactive Presentations will be displayed all week in the IP Area located on Hall 7.3, east side of the building. 50 touchscreens will be at your disposal for consultation during the whole event.

IAC 2022 will hold an Interactive Presentation Award Ceremony on Wednesday 21 September 2022, with awards for the top five presentations. IAC 2022 will also hold two IP sessions, one 1-hour session on Monday 19 September 2022 and 1.5-hour session on Wednesday 21 September 2022 which will follow the Interactive Presentation Award Ceremony.

The main goal of the IP sessions is to create a lively interaction between presenters and interested congress delegates, do not hesitate to join and participate!

## LANGUAGE

The official Congress language is English.

## LOST AND FOUND

Lost items can be collected at the cloakroom during the Congress. Any objects found during the Congress and not claimed will remain at the Congress Venue.



## NAME BADGE

A badge is required for admittance to all official Congress sessions and events, as well as the Exhibition. Each participant is asked to present the badge to gain access to the Congress. The badge must be clearly displayed.

## PUBLIC DAY

The IAC 2022 Public Day takes place on Wednesday 21 September from 9:00-18:00. Visitors can visit the Exhibition and take part in sessions taking place in Room Paris. More information can be found on the IAC 2022 website. <https://iac2022.org/public-day/>

## REGISTRATION OPENING TIMES

The registration counters are open during the following times:

- 16 September: 13:00-18:00
- 17 September: 8:00 - 18:00
- 18 September: 7:00-18:00
- 19 September: 8:00-17:00
- 20 September: 8:00-17:00
- 21 September: 8:00-17:00
- 22 September: 8:00-13:00

## SMOKING POLICY

It is forbidden to smoke in any part of the Paris Convention Centre.

## SOCIAL MEDIA

Stay up to date with the latest developments at the IAC and the latest news from IAC.  
Visit us on <https://www.facebook.com/IACParis2022>  
Find us on "LinkedIn Logo" <https://www.linkedin.com/company/iac2022>  
Follow us on "Twitter Logo" <https://twitter.com/IACParis2022>  
#IAC2022

## SPACE FOR @LL LOUNGE

Delegates are invited to relax in the Space for @ll Lounge located within the Exhibition Area, Hall 7.2. This lounge illustrates the commitment to sustainable development and declines "Space for @ll" the slogan of the Congress. Delegate can there read about the IAC 2022 CSR commitment (ISO 20121, carbon footprint) and the actions in favor of sustainable development (limitation of printing, elimination of single-use plastic, local suppliers). Best practices with all types of actors are shared and solidarity actors (associations) will get the opportunity to speak and to share their experience with the public.

## SPEAKER PREPARATION ROOM

The speakers of the technical sessions must send their presentations in advance. They have the possibility to consult them in the speaker preparation room and to make changes or to submit a new presentation. The Speaker Preparation Room is located at the back of Hall 7.3.

Opening hours:

- 17 September: 14:00-20:00
- 18 September: 8:00-18:00
- 19 September: 8:00-18:00
- 20 September: 8:00-18:00
- 21 September: 8:00-18:00
- 22 September: 8:00-18:00

## SURVEY

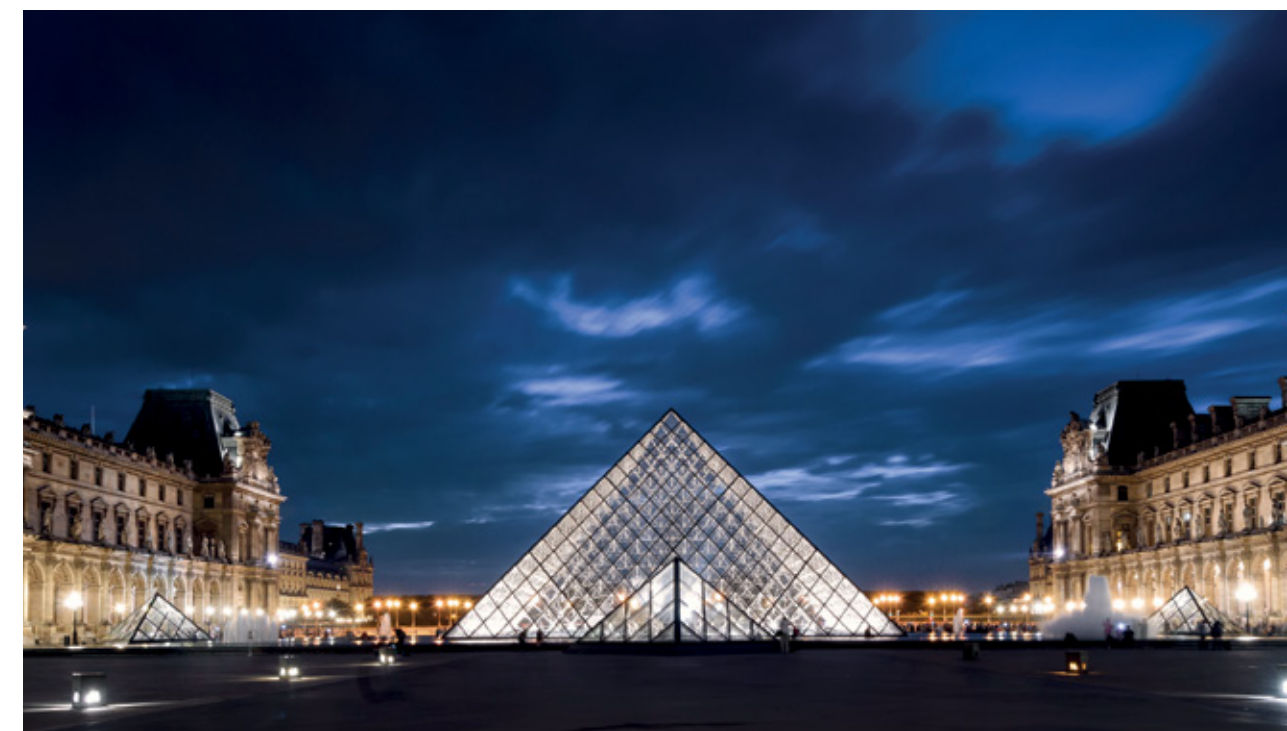
A survey about Congress will be available online after the Congress. This survey will help us better understand your needs and wishes.

## TAXIS

Alpha-Taxis: +33 1 45 85 85 85  
Taxis G7: 36 07 (0,45 cts/mn + Price of a call)  
Taxi Parisien: +33 1 84 60 40 54

## WI-FI ACCESS

Wireless internet is available for registered delegates free of charge at the Congress Centre. Please select the network "IAC2022", enter the password "IACPARIS2022" and follow the instructions.  
We are looking forward to welcoming you to Paris!



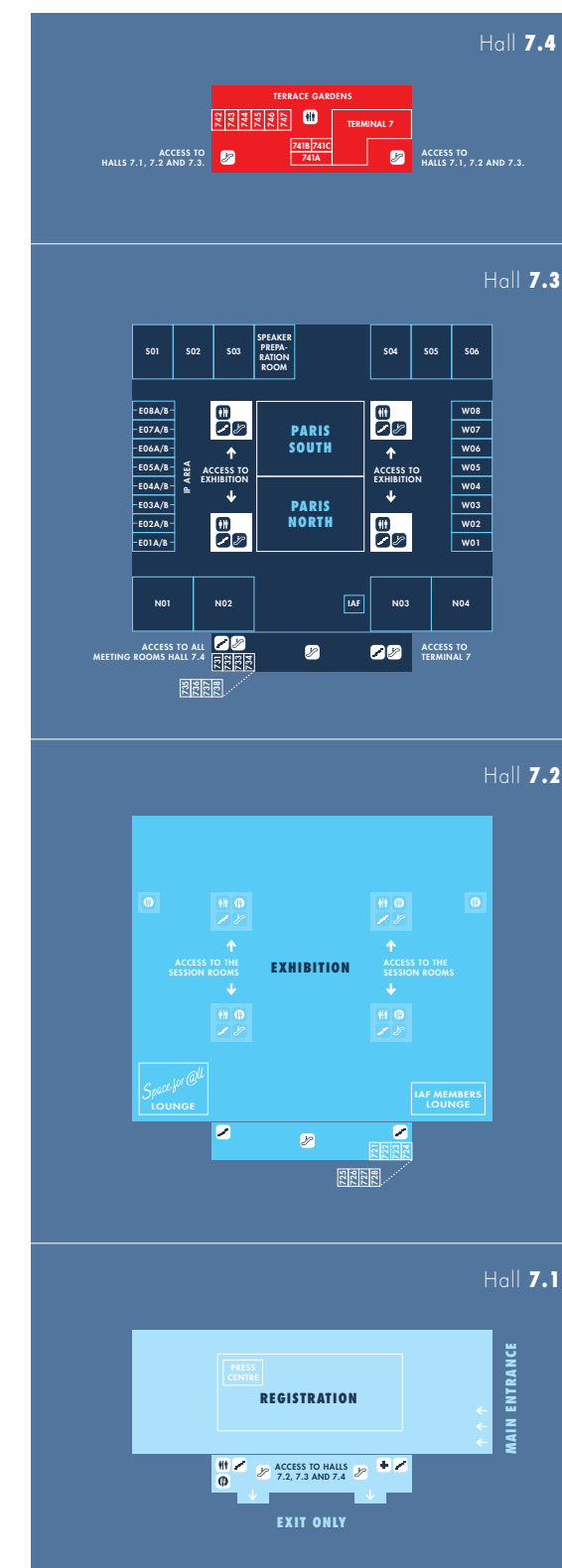
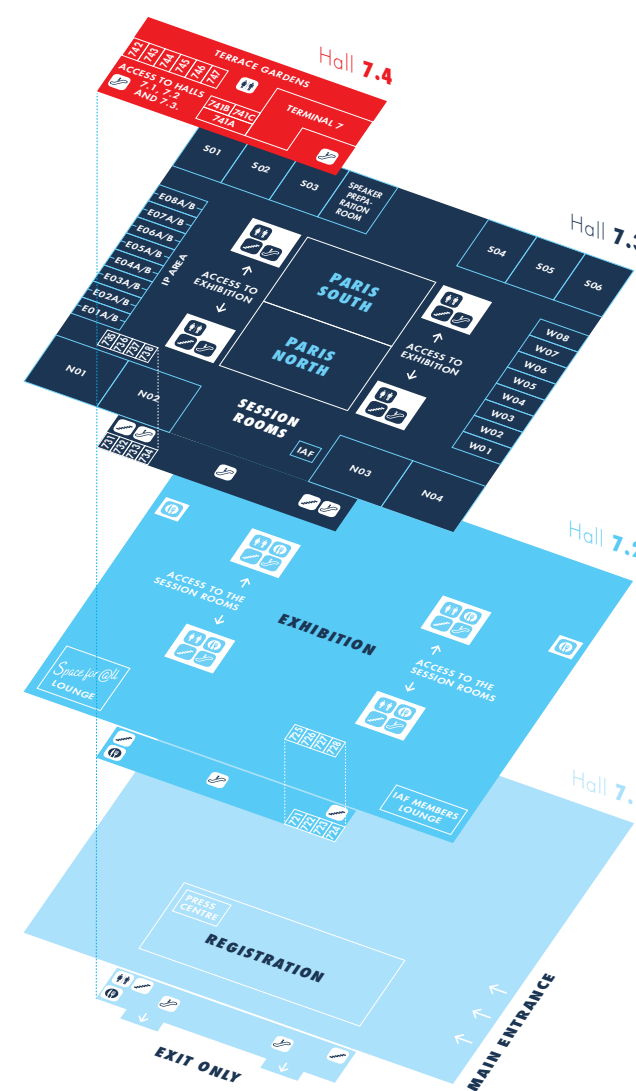


## 5.2 Paris Convention Centre



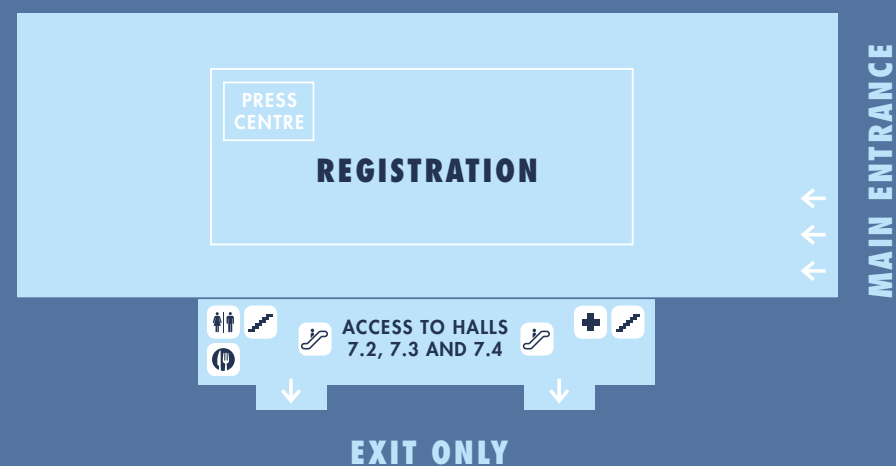
## 6 CONGRESS PRACTICAL INFORMATION

### 6.1 Congress Venue Floor Plans





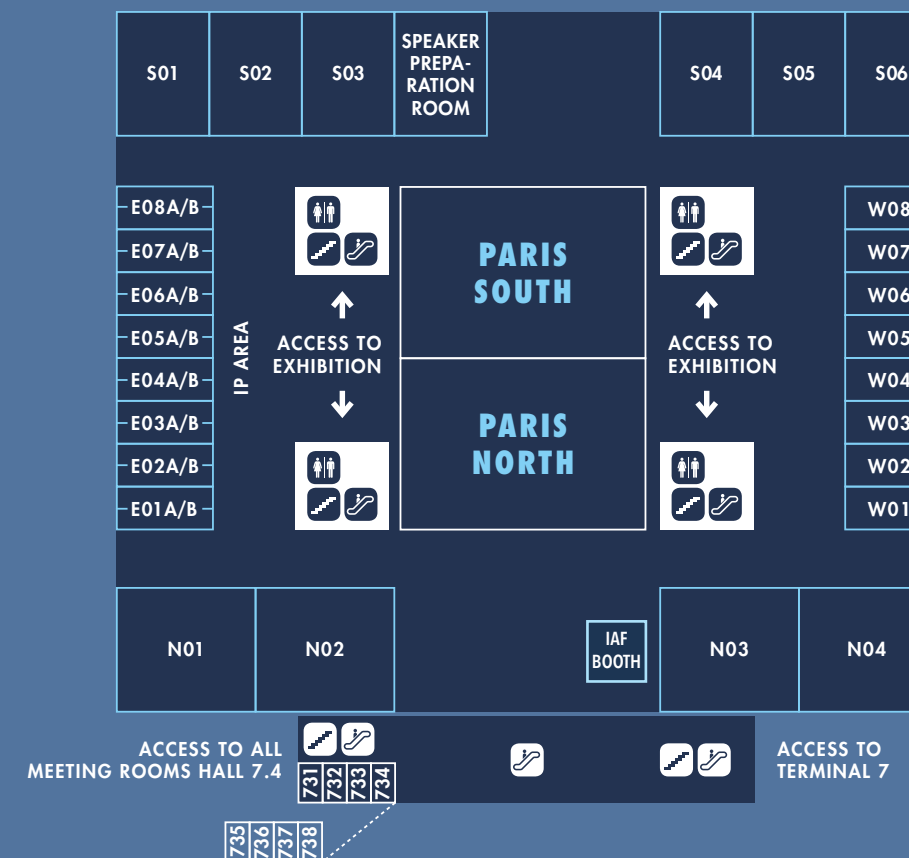
## Hall 7.1



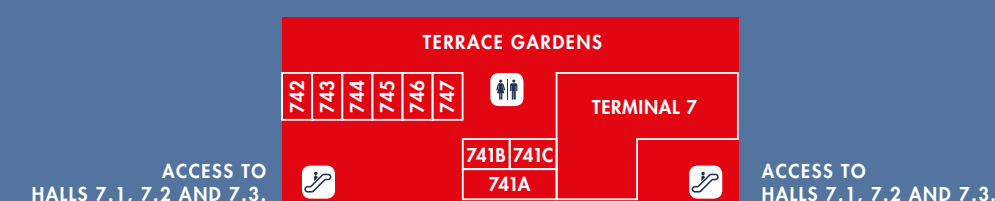
## Hall 7.2



## Hall 7.3



## Hall 7.4



## 6.2 Registration

### Registration hours:

	16 Sept	17 Sept	18 Sept	19 Sept	20 Sept	21 Sept	22 Sept
	FRIDAY	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY
	Hall 7.1	Hall 7.1	Hall 7.1	Hall 7.1	Hall 7.1	Hall 7.1	Hall 7.1
OPEN TIMINGS	13:00	08:00	07:00	08:00	08:00	08:00	08:00
CLOSE TIMINGS	18:00	18:00	18:00	17:00	17:00	17:00	13:00

### Registration fees:

Registration Category		Fees in Euro
Early Rates: 10 June 2022		
Standard Rates: 18 <sup>th</sup> August 2022   Late Registration: From 19 <sup>th</sup> August 2022		
Delegate Member	Early Rates	1,000€
	Standard Rates	1,200€
	Late Registrations	1,350€
Delegate Non Member	Early Rates	1,300€
	Standard Rates	1,500€
	On-Site Rates	1,600€
Retired Person	Early Rates	580€
	Standard Rates	650€
	Late Registrations	720€
Young Professional	Early Rates	440€
	Standard Rates	520€
	Late Registration	600€
Full-Time Student	Early Rates	200€
	Standard Rates	240€
	Late Registration	260€
Primary and Secondary Level Teacher	Early Rates	200€
	Standard Rates	240€
	Late Registration	260€
Accompanying Persons	Early Rates	110€
	Standard Rates	120€
	Late Registration	160€
All rates are inclusive of 5% VAT		

### Registration Categories:

- **Delegate Members** are full-paying Participants who are employees or elected officers of an IAF member organization or who are current members of the IAA and the IISL.
- **Delegate Non-Members** (Standard) are full-paying Participants not members of IAF, IISL, or IAA.
- **Retired Persons** are defined as no longer employed and full-time retired, (will be requested to provide a document confirming their status).
- **Young Professionals** will have to upload an ID card or passport as a proof of the 35 years of age limitation (that has to be valid at the time of the Congress)
- **Students** will be requested to upload a valid student card (that has to be valid at the time of the Congress) and must be under 35 years old.
- **Primary and Secondary level Teachers** must provide documentation from their organization to confirm they are educators of primary or secondary level.
- **Accompanying Persons** is defined as a spouse, civil partner or translator. Maximum 1 per Full-paying Delegate, Retired, or Young Professional. Includes: Admission to the Exhibit Hall, Plenary Programme, the Opening Ceremony and the Welcome Reception. It DOES NOT include access to the Technical Programme.
- **Accredited Press** must submit a request for press credentials to cover IAC 2022 in Paris. All requests will be reviewed by IAF staff; and submitting a request does not guarantee credentials will be granted. Press will have to upload a valid government- or company-issued Press Card/Press Credential or provide other documentation proving their status as "Working Press" or "Media" as part of the registration process. NOTE: Although press can access Technical Sessions as observers, they are forbidden to present papers.



## 7 CONGRESS SCHEDULE

FRIDAY 16 SEPTEMBER																											
HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00										
HALL 7.2.	721/722				IAF Finance Committee 10:00 - 12:30																						
	723/724																	IPC Steering Group - Session 1 13:00 - 14:30									
HALL 7.3.	W06						IAF/ISEB Educators Professional Development Workshop 08:30 - 17:00																				
	E05A											IAF Technical Activities Committee (TAC) 15:00 - 16:30															
HALL 7.4.	741A											29 <sup>th</sup> UN/IAF Workshop 08:00 - 17:00															
	741B + C																										
	The FIAP Jean Monnet												Space Generation Congress 08:00 - 18:30														

## SATURDAY 17 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	
HALL 7.2.	721/722									IAF Bureau Meeting - Session 1 15:00 - 18:00								
	723/724		Cross-Cultural Communications and Presentation Workshop   08:30 - 13:00					IAF Space Education and Outreach Committee (SEOC) - Session 1 14:00 - 16:00		IAF Space Propulsion Committee 16:00 - 17:30	IAF Committee for the Cultural Utilisation of Space (ITACCUS) - Session 1bis 17:30 - 18:30							
	725/726			IAF Workforce Development-Young Professionals Programme Committee (WD-YPP) 10:00 - 12:00			IAF Workshop Global Workforce Development Subcommittee 13:00 - 14:00		IAF Commercial Spaceflight Safety Committee 14:30 - 16:00	IAF Astrodynamics Committee - Session 1 16:00 - 18:00								
	727/728							IAF Space Power Committee 13:30 - 15:00	IAF Space Astronomy Technical Committee (SATC) 15:00 - 16:30	IAF Space Astronomy Technical Committee (SATC) 16:00 - 18:00								
HALL 7.3.	N02		IAF International Meeting for Minister & Members of Parliaments (MMoP) 08:30 - 13:00						MMoP Press Conference 14:00 - 15:00						YP Event 19:00 - 20:00	YP Reception 20:00 - 21:00		
	W02			IAA Space Debris Committee 09:00 - 10:30	IAF Space Traffic Management Committee and SpS Session 10:30 - 12:00													
	W03		Cross-Cultural Communications and Presentation Workshop   08:30 - 13:00								IAF PS Lab 15:00 - 16:30							
	W04			YP IPMC Workshop   09:00 - 18:00														
	W05				IAC Hosts Summit 10:30 - 13:00													
	E05A							GLOC 2023 - IPC Meeting 13:00 - 15:00		IAF Earth Observations Committee 15:00 - 16:30		IAF Subcommittee on the Global Earth Observation System of Systems (GEOSS) 16:30 - 18:00	IAF ESL/YSL Meeting 18:00 - 19:00					
	E07A				IAF Committee for the Cultural Utilisation of Space (ITACCUS) - Session 1 10:30 - 12:00		IAF Space Transportation Committee 12:00 - 14:00		IAF Space Exploration Committee 14:00 - 16:00			IAF Materials and Structures Committee 16:30 - 18:00						
HALL 7.4.	741A	29 <sup>th</sup> UN/IAF Workshop 08:00 - 17:00												UN/IAF Reception 18:30 - 20:00				
	741B + C																	
	Brasserie La Coupole													MMoP Dinner 19:00 - 22:00				



CONGRESS SCHEDULE

CONGRESS PRACTICAL INFORMATION

PARIS

IAC PARTNER ORGANIZATIONS

HOST

ORGANIZER

WELCOME MESSAGE





## MONDAY 19 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
HALL 7.2.	721/722								IAF Space Economy Committee 14:00 - 15:30								
	Paris South			PE 3 09:00 - 10:00		IAF GNF Session 11:20 - 12:20			PE 4 13:45 - 14:45				HHL 1 17:45 - 18:45				
HALL 7.3.	N01				IAF GNF Session 10:15 - 11:05						IAF GNF Sessions 15:00 - 15:45   16:00 - 16:30 16:45 - 17:30						
	N02													YP Event 19:00 - 20:00	YP Programme 20:00 - 21:00		
	N03				Special Sessions 10:15 - 11:25   11:30 - 12:45						Special Sessions 15:00 - 16:10   16:20 - 17:30						
	N04				Technical Sessions A3.2A   10:15 - 12:45						Technical Sessions A3.2B   15:00 - 17:30						
	S01				Technical Sessions E7.2   10:15 - 12:45						Technical Sessions E7.3   15:00 - 17:30						
	S02				Technical Sessions B4.1   10:15 - 12:45						Technical Sessions B4.3   15:00 - 17:30						
	S03				Technical Sessions B3.2   10:15 - 12:45						Technical Sessions B3.3   15:00 - 17:30						
	S04				Technical Sessions A6.9   10:15 - 12:45						Technical Sessions A6.4   15:00 - 17:30						
	S05				Technical Sessions C1.2   10:15 - 12:45						Technical Sessions C1.3   15:00 - 17:30						
	S06				Technical Sessions D2.3   10:15 - 12:45						Technical Sessions D2.2   15:00 - 17:30						
	W01				Technical Sessions D5.1   10:15 - 12:45						Technical Sessions E5.2   15:00 - 17:30						
	W02				Technical Sessions C3.1   10:15 - 12:45						Technical Sessions C3.2   15:00 - 17:30						
	W03				Technical Sessions D1.2   10:15 - 12:45						Technical Sessions D1.3   15:00 - 17:30						
	W04				Technical Sessions A4.1   10:15 - 12:45						Technical Sessions A4.2   15:00 - 17:30						
	W05				Technical Sessions A1.2   10:15 - 12:45						Technical Sessions A1.3   15:00 - 17:30						
	W06				Technical Sessions C2.2   10:15 - 12:45						Technical Sessions C2.3   15:00 - 17:30						
	W07				Technical Sessions D6.1   10:15 - 12:45						Technical Sessions E2.3/GTS.4 15:00 - 17:30						
	W08				Technical Sessions C4.3   10:15 - 12:45						Technical Sessions C4.5   15:00 - 17:30						
	E03A				Technical Sessions E2.2   10:15 - 12:45						Technical Sessions B6.3   15:00 - 17:30						
	E04B				Technical Sessions E3.1   10:15 - 12:45						Technical Sessions E3.2   15:00 - 17:30						

## MONDAY 19 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
HALL 7.3.	E06B				Technical Sessions D4.2   10:15 - 12:45					Technical Sessions D4.3   15:00 - 17:30							
	E08B				Technical Sessions E1.2   10:15 - 12:45					Technical Sessions E1.3   15:00 - 17:30							
	731 / 732				Technical Sessions B2.1   10:15 - 12:45					Technical Sessions B2.2   15:00 - 17:30							
	733 / 734				Technical Sessions E6.4   10:15 - 12:45					Technical Sessions E6.3   15:00 - 17:30							
	E05A			IAF Committee on Space Security 09:30 - 12:00				IAA Committee on Small Satellite Missions 13:00 - 14:00	IAF Space Life Sciences Committee 14:00 - 15:00				IAF Space Universities Administrative Committee (SUAC) 17:30 - 19:00				
	E07A		IAF Space Operations Committee (SOC) 08:00 - 10:00														
	IP Screens							IP Session 12:45 - 13:30									
HALL 7.4.	741A				Space Climate Observatory Meeting 10:00 - 12:00												
	741B + C								SGAC Advisory Board 14:00 - 16:00		SGAC US Board of Directors 16:00 - 18:00						
	Terminal 7		Industry Breakfast 08:00 - 08:45					Industry Luncheon 12:30 - 13:30									



## TUESDAY 20 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
HALL 7.2.	721/722								IAF Industry Relations Committee (IRC) 13:30 - 15:30	IAF Committee for Liaison with International Organisations and Developing Nations (CLIODN) 15:30 - 17:30							
	723/724								IAF Honours and Awards Committee 13:30 - 15:00								
HALL 7.3.	Paris South			PE 5 09:00 - 10:00				CGTN TV Stream 12:30 - 13:30		PE 6 13:45 - 14:45			HHL 2 17:45 - 18:45				
	N01				IAF GNF Sessions 10:15 - 11:05   11:10 - 11:40 11:45 - 12:30					IAF GNF Sessions 15:00 - 15:50   16:35 - 16:55 16:55 - 17:35							
	N02									IAF EIC - CSCF New Space Business Plan Competition (BPC) 15:30 - 17:00			YP Event 19:00 - 20:00	YP Reception 20:00 - 21:00			
	N03				Special Sessions 10:15 - 11:25   11:30 - 12:45					Special Sessions 15:00 - 16:10   16:20 - 17:30							
	N04				Technical Sessions A3.3A   10:15 - 12:45					Technical Sessions A3.3B   15:00 - 17:30							
	S01				Technical Sessions E7.4   10:15 - 12:45												
	S02				Technical Sessions B4.4   10:15 - 12:45					Technical Sessions B4.5   15:00 - 17:30							
	S03				Technical Sessions B3.4/B6.4 10:15 - 12:45					Technical Sessions B3.5   15:00 - 17:30							
	S04				Technical Sessions A6.3   10:15 - 12:45					Technical Sessions A6.2   15:00 - 17:30							
	S05				Technical Sessions C1.4   10:15 - 12:45					Technical Sessions C1.5   15:00 - 17:30							
	S06				Technical Sessions D2.4   10:15 - 12:45					Technical Sessions D2.5   15:00 - 17:30							
	W01				Technical Sessions D5.2   10:15 - 12:45					Technical Sessions E5.3   15:00 - 17:30							
	W02				Technical Sessions B1.2   10:15 - 12:45					Technical Sessions B1.3   15:00 - 17:30							
	W03				Technical Sessions A5.1   10:15 - 12:45					Technical Sessions A5.2   15:00 - 17:30							
	W04				Technical Sessions A2.2   10:15 - 12:45					Technical Sessions A2.3   15:00 - 17:30							
	W05				Technical Sessions C4.4   10:15 - 12:45					Technical Sessions A1.4   15:00 - 17:30							
	W06				Technical Sessions C2.4   10:15 - 12:45					Technical Sessions C2.5   15:00 - 17:30							
	W07				Global Technical Sessions D6.3 10:15 - 12:45					Global Technical Sessions E6.5/GTS.1 15:00 - 17:30							
	W08				Technical Sessions C4.2   10:15 - 12:45					Technical Sessions C4.6   15:00 - 17:30							
	E03A				Technical Sessions E2.4   10:15 - 12:45					Technical Sessions B5.2   15:00 - 17:30							

## TUESDAY 20 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
HALL 7.3.	E04B				Technical Sessions E3.3   10:15 - 12:45					Technical Sessions E3.4   15:00 - 17:30							
	E06B				Technical Sessions D3.1   10:15 - 12:45					Technical Sessions D3.2A   15:00 - 17:30							
	E08B				Technical Sessions E1.4   10:15 - 12:45					Technical Sessions E1.5   15:00 - 17:30							
	731 / 732				Technical Sessions B2.3   10:15 - 12:45					Technical Sessions B2.4   15:00 - 17:30							
	733 / 734				Technical Sessions E6.2   10:15 - 12:45					Technical Sessions E4.1   15:00 - 17:30							
	E04A				IAF Committee on Planetary Defense and Near-Earth Objects (NEOs) 10:30 - 11:30												
	E05A				IAA SETI Permanent Committee Meeting 10:00 - 13:00				IAF Committee on Integrated Applications 14:00 - 15:00								
HALL 7.4.	E07A						IAA study group 3.26 11:30 - 13:00	IAA Study Group 3.30 13:00 - 14:30		IAA Study Group 3.27 14:30 - 16:00							
	IP Screens							IP Session 12:45 - 13:30									
	Terminal 7		IDEA Breakfast 08:00 - 08:45					IDEA Luncheon 12:30 - 13:30			Press Conference Sustainability as the Game Changer 15:30 - 16:30						
	Maison des Océans								IISL Moot Court 14:00 - 18:00								



## WEDNESDAY 21 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
HALL 7.2.	721/722				IAF Bureau Meeting - Session 2 10:15 - 12:30												
	725/726							IISL Board of Directors 13:00 - 17:00									
	723/724		IAF Space Education and Outreach Committee (SEOC) - Session 2 08:00 - 09:30							IPC Steering Group - Session 2 15:00 - 16:30							
HALL 7.3.	Paris South			PE 7 09:00 - 10:00									HHL 3 17:45 - 18:45				
	N01				IAF GNF Sessions 10:15 - 10:45   10:55 - 11:25 11:35 - 12:25					IAF GNF Sessions 13:45 - 14:40   14:50 - 15:40 15:50 - 16:35   16:45 - 17:30							
	N02							IP Award 13:00 - 13:30	James Webb Media Event 14:00 - 14:45								
	N03				Special Sessions 10:15 - 11:25   11:30 - 12:45					Special Sessions 15:00 - 16:10   16:20 - 17:30							
	N04				Technical Sessions A3.4A   10:15 - 12:45					Technical Sessions A3.5   15:00 - 17:30							
	S01				Technical Sessions E7.6/E3.5 10:15 - 12:45					Technical Sessions E10.1   15:00 - 17:30							
	S02				Technical Sessions B4.6B   10:15 - 12:45					Technical Sessions B4.7   15:00 - 17:30							
	S03				Technical Sessions B3.6/A5.3 10:15 - 12:45					Technical Sessions B3.7   15:00 - 17:30							
	S04				Technical Sessions A6.5   10:15 - 12:45					Technical Sessions A6.6   15:00 - 17:30							
	S05				Technical Sessions C1.6   10:15 - 12:45					Technical Sessions C1.7   15:00 - 17:30							
	S06				Technical Sessions D2.6   10:15 - 12:45					Technical Sessions D2.7   15:00 - 17:30							
	W01				Technical Sessions D5.3   10:15 - 12:45					Technical Sessions E5.4   15:00 - 17:30							
	W02				Technical Sessions E5.4   10:15 - 12:45					Technical Sessions B1.5   15:00 - 17:30							
	W03				Technical Sessions D1.4A   10:15 - 12:45					Technical Sessions D1.4B   15:00 - 17:30							
	W04				Technical Sessions A2.4   10:15 - 12:45					Technical Sessions A2.5   15:00 - 17:30							
	W05				Technical Sessions A1.5   10:15 - 12:45					Technical Sessions A1.6   15:00 - 17:30							
	W06				Technical Sessions C2.6   10:15 - 12:45					Technical Sessions C2.7   15:00 - 17:30							
	W07				Global Technical Sessions C3.3 10:15 - 12:45					Global Technical Sessions B4.9/GTS.5 15:00 - 17:30							
	W08				Technical Sessions C4.7   10:15 - 12:45					Technical Sessions C4.8/B4.5A 15:00 - 17:30							





## THURSDAY 22 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
HALL 7.2.	721/722								IAF Bureau Meeting - Session 3 14:00 - 15:00								
	Paris South			LBN 09:00 - 10:00				CGTN TV Stream 12:30 - 13:30				Closing Ceremony 16:30 - 17:30					
HALL 7.3.	N01					IAF GNF Session 11:20 - 12:15			IAF GNF Session 13:45 - 14:45								
	N02				IAF General Assembly   10:15 - 12:30												
	N03				Special Sessions 10:15 - 11:25   11:30 - 12:45					Special Sessions 13:45 - 14:55   15:05 - 16:15							
	N04				Technical Sessions A3.2C   10:15 - 12:45					Technical Sessions A3.4B   13:45 - 16:15							
	S01				Technical Sessions E7.5   10:15 - 12:45					Technical Sessions E7.7   13:45 - 16:15							
	S02				Technical Sessions B4.8   10:15 - 12:45					Technical Sessions B4.6A   13:45 - 16:15							
	S03				Technical Sessions B3.8   10:15 - 12:45					Technical Sessions A6.10/E10.2 13:45 - 16:15							
	S04				Technical Sessions A6.8/E9.1 10:15 - 12:45					Technical Sessions A6.1   13:45 - 16:15							
	S05				Technical Sessions C1.8   10:15 - 12:45					Technical Sessions C1.9   13:45 - 16:15							
	S06				Technical Sessions D2.8/A5.4 10:15 - 12:45					Technical Sessions D2.9/D6.2 13:45 - 16:15							
	W01				Technical Sessions E5.5   10:15 - 12:45					Technical Sessions E5.6   13:45 - 16:15							
	W02				Technical Sessions B1.6   10:15 - 12:45					Technical Sessions C3.4   13:45 - 16:15							
	W03				Technical Sessions D1.5   10:15 - 12:45					Technical Sessions D1.6   13:45 - 16:15							
	W04				Technical Sessions A2.6   10:15 - 12:45					Technical Sessions A2.7   13:45 - 16:15							
	W05				Technical Sessions A1.7   10:15 - 12:45					Technical Sessions A1.8   13:45 - 16:15							
	W06				Technical Sessions C2.8   10:15 - 12:45					Technical Sessions C2.9   13:45 - 16:15							
	W07				Technical Sessions D5.4   10:15 - 12:45					Global Technical Sessions B3.9/GTS.2 13:45 - 16:15							
	W08				Technical Sessions C4.9   10:15 - 12:45					Technical Sessions C4.10/C3.5 13:45 - 16:15							
	E03A				Technical Sessions B6.2   10:15 - 12:45					Technical Sessions B6.5   13:45 - 16:15							
	E04B				Technical Sessions A7.2   10:15 - 12:45					Technical Sessions E8.1   13:45 - 16:15							

## THURSDAY 22 SEPTEMBER

HALL	ROOM	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00
HALL 7.3.	E06B				Technical Sessions D3.2B   10:15 - 12:45				Technical Sessions D3.3   13:45 - 16:15								
	E08B								Technical Sessions E1.9   13:45 - 16:15								
	731 /732				Technical Sessions B2.7   10:15 - 12:45				Technical Sessions A7.3   13:45 - 16:15								
	733 /734				Technical Sessions E4.3   10:15 - 12:45												
	E02B								SGAC Executive Committee 14:00 - 16:00								
	E05A							IAF Committee on Developing Countries and Emerging Communities (ACDCEC) 12:30 - 14:00		IAF Latin American & Caribbean Subcommittee (LAC) 14:00 - 15:30							
HALL 7.4.	Terminal 7							WSW/ Astroscale Luncheon 12:30 - 13:30									
	Musée des Arts Forains													Gala Dinner 19:00 - 22:00			







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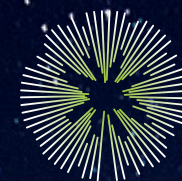
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