



72nd INTERNATIONAL ASTRONAUTICAL CONGRESS



25-29 October 2021 | Dubai, United Arab Emirates









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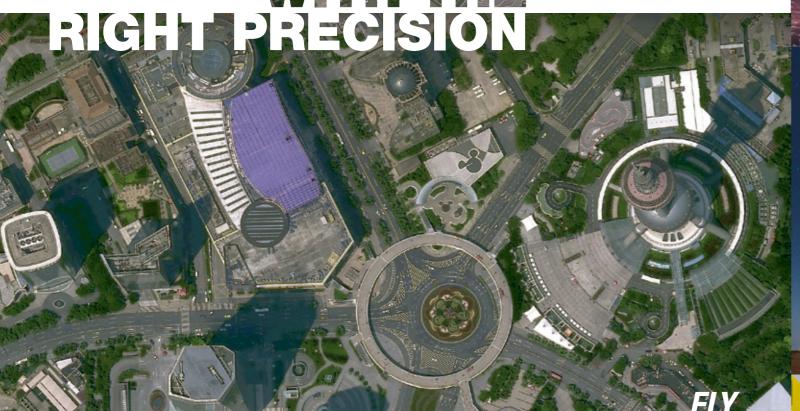




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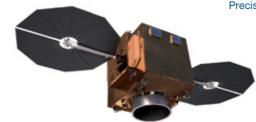


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INTERNATIONAL ASTRONAUTICAL CONGRESS ■ 25-29 October 2021 | Dubai, United Arab Emirates

Welcome Messages

1.1 Message from the International Astronautical Federation

Dear Friends and Colleagues,

Welcome to the 72nd International Astronautical Congress - IAC 2021!

As President of the International Astronautical Federation - IAF, it is my immense pleasure to meet you in Dubai where the global space community is gathered for the world's premier space event. The IAC 2021 opens its doors to the global space community in the United Arab Emirates, the first Arab country to ever host the IAC since its establishment in 1950. Since the birth of the UAE's national space sector, space has become an attractive sector to many Emiratis and I am confident that the legacy of the IAC 2021 will be an inspiration to the region, and serve as a catalyst for many other Arabic nations to establish space centers and agencies.

Within these pages you will find the details of the rich and exciting programme addressing the theme "Inspire, Innovate & Discover for the Benefit of Mankind". The IAC 2021 includes a thoroughly selected Plenary Programme, an attractive IAF Global Networking Forum, and a stimulating Technical Programme which comprises Special Sessions and Technical Sessions. At the IAC 2021 space leaders will address space science, technology, and policy issues. And of course, the week will be filled with exciting associated and social events, a unique occasion for networking.

This week would not be possible without the hard work of all the parties involved. This is why I would like to extend my deep gratitude to our host, the Mohammed Bin Rashid Space Center (MBRSC), the members of the IAF committees and the IAF Secretariat led by its Executive Director, Dr. Christian Feichtinger for their excellent management as well as all the volunteers who dedicate their time to ensure the success of this congress.

Finally, let me underline that the IAF together with the Mohammed Bin Rashid Space Center and the city of Dubai have established solid health and security measures to ensure the safety of all delegates.

Once again, a warm welcome to the IAC 2021. On behalf of the IAF, I wish you all a fruitful and successful congress.



Pascale EHRENFREUND

President. International Astronautical Federation (IAF)

1.2 Message from the Chair of the Local Organizing Committee

Welcome to the 72nd International Astronautical Congress in Dubai, held under the patronage of H.H. Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai.

Inspired by our futuristic leadership's vision, the UAE has been tirelessly working on setting a strong and sturdy foundation for the Emirati space sector through multiple programmes. Through global strategic partnerships with leaders in the field, we have also set the foundation for fostering generations of astronauts, scientists and innovators which will assure our continuous development in the space sector, both locally and internationally.

Hosting IAC 2021 is key to fostering a UAE-based flourishing startup space ecosystem, placing an impactful footprint, and establishing pivotal alliances and building bridges of knowledge with leading international space organizations and agencies for the betterment

We are excited to have you join us for the 72nd International Astronautical Congress and we look forward to delivering on a global event that will enhance the scientific commitment and long-term cooperation on many vital issues related to the space sector.

Yours sincerely



H.E. Hamad Obaid AL MANSOORI Chair, IAC 2021 Local Organizing Committee, Mohammed Bin Rashid Space Centre (MBRSC)







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

On behalf of the International Programme Committee, we are pleased to welcome you to the 72nd International Astronautical Congress (IAC) in Dubai, the United Arab Emirates. For the first time, since the establishment of the International Astronautical Federation (IAF) in 1951, it opens its doors to the global space community in an Arab country. We are really delighted to welcome the international space community for an edifying and enjoyable week of information, networking and social activities.

The IAC in Dubai is your broad gateway to be in touch with new actors, pioneers, experts and leaders of space industry and agencies. Together in a single platform, research breakthroughs, technical advances, existing opportunities and emerging space technologies will be discussed.

Such a platform will provide participants with a holistic and up-to-date view of science, engineering and space technology fields and offer an access to space knowledge for professionals and experts all over the world. IAC 2021 presents an opportunity to highlight the evolutionary role of international partnerships in space exploration, research, and development. It is time to envision the discoveries to be made and knowledge to be gained to move forward together. Participating in the IAC 2021 will enrich the youth's knowledge in space science and technology. It will also act as an accelerator for STEM education, and will be a source of enormous pride and inspiration for ambitious younger generations. As IAC 2021 comes to Dubai, along with more than 5,000 leading figures in the international space industry from 70 countries, a platform will be developed to further cement space as one of the seven key sectors for the UAE. The year 2021 will be a significant milestone in the UAE's history as it will witness accommodating EXPO 2020 in Dubai, and the release of the Emirates Mars Mission – Hope Probe's data for the scientific community, synchronized with the hosting of the International Astronautical Congress (IAC), the largest specialized gathering in the space sector worldwide.

In preparing for the Technical Programme, Plenary Events, Highlighted Lectures, Late-Breaking News, Special Sessions and Interactive Presentations, the International Programme Committee has selected an outstanding array of materials that will satisfy even the most voracious appetite for meaningful and relevant information across a broad spectrum of topics, all supporting the Congress theme of "Inspire, Innovate & Discover for the Benefit of Humankind." In addition, the IAF Global Networking Forum will provide even more opportunities to hear from some of the best space colleagues.

In addition to our very robust programme, there will be a plenty of social activities and opportunities for networking that lead to a highly promising and rewarding week hoping to construct perpetual relationships and again meet in Paris, the following year during IAC 2022.

Welcome to Dubai wishing you an informative, fruitful and enjoyable IAC 2021!



Saeed AL MANSOORI

IPC Co-Chair,

Senior Manager – Applications Development and Analysis Section, Mohammed Bin Rashid Space Centre (MBRSC), United Arab Emirates



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

1.4 Message from the Director General, Mohammed Bin Rashid Space Centre

It is my great pleasure to welcome you to the 72nd International Astronautical Congress in Dubai.

The UAE hosting this year's edition reaffirms our commitment to support the growth and development of the global space sector. Being the first Arab country to host this prominent event has been the spark that ignited our plan to create an unprecedented event.

The UAE's strategy for the coming decade is focused on becoming one of the leading countries in the field of space sciences through multiple ambitious programmes. From the recent success of the Emirates Mars Mission "Hope Probe", the first Arab interplanetary mission, and the launch of the Emirates Lunar Mission, the first regional mission to explore the Moon to the announcement of the second batch of the UAE Astronaut Programme, we have time and again made significant strides in the space sector.

IAC 2021 will act as a catalyst for more nations from the region to join the International Astronautical Federation, as well as engage with international partners and empower a new generation of space experts that are ready to take on the world.

We welcome you to the futuristic city of Dubai and hope you have a wonderful learning experience.

Yours sincerely



H.E. Yousuf Hamad AL SHAIBANI Director General. Mohammed Bin Rashid Space Centre (MBRSC)

VP: RELATIONS WITH

Deputy Director General for International Cooperation,

VP: TECHNICAL ACTIVITIES

Director of Vikram Sarabhai

State Space Corporation

INTERNATIONAL

ORGANIZATIONS

Sergey SAVELIEV

ROSCOSMOS,

S. SOMANATH

Space Centre (VSSC). Indian Space Research

Organization (ISRO),



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 more than 407 members from 71 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 @Il Space People" the Federation advances knowledge about space and fosters the development and application of space assets by advancing global

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 100 Avenue de Suffren 75015 Paris, France

T: +33 1 45 67 42 60 W: www.iafastro.org E: info@iafastro.org



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IAF Bureau Members 2020 – 2021



Pascale EHRENFREUND President International Space University







VP: FINANCIAL MATTERS AND INDUSTRY RELATIONS

Bruce CHESLEY Former Senior Director of Strategy, Space and Missile Systems.



VP: DIVERSITY INITIATIVES AND SCIENCE & ACADEMIC RELATIONS

GENERAL COUNSEL

Sergio MARCHISIO

Full Professor of International Law

Sapienza University of Rome,

Deganit PAIKOWSKY Lecturer, Department of International Relations, Hebrew University of Jerusalem



WORKFORCE

DEVELOPMENT Minoo RATHNASABAPATHY Research Engineer, Massachusetts Institute of

HONORARY SECRETARY

Special Adviser to the Director

Norwegian Space Agency,

VP: EDUCATION AND

Geir HOVMORK

General,

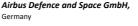


VP: HONOURS AND AWARDS Anthony TSOUGRANIS National Aeronautics and Space Administration (NASA),



VP: IAF GLOBAL NETWORKING FORUM Andreas LINDENTHAL Head of Business Operations

Space Systems, Head of Spacecraft Equipment, Head of Space Systems Germany, Airbus Defence and Space GmbH,





IAF EXECUTIVE DIRECTOR

Christian FEICHTINGER

IAF Secretariat.

China Academy of Launch Vehicle



SPECIAL ADVISOR TO THE IAF **PRESIDENT** (IAC Evolution) Clayton MOWRY



VP, Global Sales, Marketing & Customer Experience, Blue Origin, United States

VP: PARLIAMENTARIAN AND

VP: SPACE ECONOMY AND

USER COMMUNITIES

Dominique TILMANS

President.

EURISY,

Belgium

Honorary Senator

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Nobu OKADA

Founder & CEO,

Astroscale,

MINISTERIAL RELATIONS AND



and Emerging Nations) Giorgio SACCOCCIA Italian Space Agency (ASI),

SPECIAL ADVISOR TO THE IAF

Forum & Developing Countries



PRESIDENT (IAC Resilience) **Lionel SUCHET** Chief Operating Officer, Centre National d'Etudes Spatiales (CNES),



HONORARY AMBASSADOR Jean-Yves LE GALL Former President, Centre National d'Études Spatiale (CNES),





Christian Feichtinger Executive Director



Silvia Antolino Senior Communications Manager

Giulia Angeletti

Office Manager



Isabella Marchisio Senior Projects Manager

Giulia Maria Berardi

Deputy Executive Director



Myriam Morabet Senior Projects Manager



VP: GLOBAL MEMBERSHIP DEVELOPMENT

Mohammed Nasser AL AHBABI Former Director General UAE Space Agency (UAESA),





ASTRONAUTICA Alessandra D'Argenio Projects Manager



Emma Boisdur Projects Manager



European Space Agency (ESA)

Centro de Investigacion y Difusion Aeronautico Espacial

(CIDA-E)





France



Martina Fabbiani Projects Manager



Evelina Hedman

Creative Services & Projects

Manager



Stefano Pascali Projects Manager



A9C Capital

Elena Feichtinger
Projects Manager and Special
Advisor (Volunteer)



Martin Feichtinger
Administrative &
Project Support

IAF Member Organizations 2021

Access e.V.	Germany
AccessAerospace LLC	United States
Adriatic Aerospace Association	Croatia
Advanced Instrumentation and Technology Centre (AITC)	Australia
AED Cluster Portugal	Portugal
Aerojet Rocketdyne	United States
Aerospace Industries Association	United States
Aerospace Research Institute	Iran
Aexa Aerospace LLC	United States
Agence Spatiale Algérienne (ASAL)	Algeria
Agencia Espacial Mexicana (AEM)	Mexico
AGI	United States
Agrupacion Astronautica Espanola	Spain
Airbus Defence and Space GmbH	Germany
Airbus Defence and Space Netherlands B.V.	The Netherlands
Airbus Defence and Space SA	Spain
Airbus Defence and Space SAS	France
Airbus Ltd.	United Kingdom
Alma Mater Studiorum - University of Bologna	Italy
American Astronautical Society (AAS)	United States
American Institute of Aeronautics and Astronautics (AIAA)	United States
Andøya Space Center	Norway
ArianeGroup SAS	France
Arianespace	France
Asgardia	Austria
Asher Space Research Institute (ASRI)	Israel
Association Aéronautique & Astronautique de France (3AF)	France
Association Dedicated to Development in Astronautics (A.D.D.A)	Romania
Association of Space Explorers (ASE)	United States
Associazione Italiana di Aeronautica e Astronautica (AIDAA)	Italy
Astronautic Technology SDN BHD	Malaysia
Astronautical Society of India	India
Astrosat Ltd	United Kingdom
Astroscale Pte. LTD	Japan
Auspace Pty Ltd	Australia

Australian Space Agency	Australia
Austrian Research Promotion Agency (FFG)	Austria
AUSTROSPACE	Austria
Axiom Space LLC	United States
Bauman Moscow State Technical University	Russian Federation
bavAlRia e.V.	Germany
Beihang University	China
Beijing FutureSpace Space Technology Institute	China
Beijing Infinite Education Inc.	China
Beijing Interstellar Glory Space Technology Co., Ltd	China
Beijing Smart Satellite Technology Co., Ltd.	China
Beijing SpaceD Aerospace Application & Science Education Technology Co.,Ltd.	China
Beijing Sunwise Space Technology Ltd.	China
Belgian Federal Science Policy Office (BELSPO)	Belgium
Ben-Gurion University of the Negev	Israel
Berkeley SETI Research Center	United States
beSpace GmbH	Germany
Black Engine Aerospace UG	Germany
Blue Origin LLC	United States
Brazilian Space Agency (AEB)	Brazil
Bryce Space and Technology	United States
Bulgarian Aerospace Agency	Bulgaria
California Polytechnic State University	United States
Canadensys Aerospace Corporation	Canada
Canadian Aeronautics & Space Institute (CASI)	Canada
Canadian Space Agency	Canada
Canadian Space Society	Canada
Center of Space Exploration, Ministry of Education (COSE)	China
Central American Association for Aeronautics and Space (ACAE)	Costa Rica
Central Research Institute for Machine Building (JSC TSNIIMASH)	Russian Federation
Centre for Mechanical and Aerospace Science and Technologies (C-MAST)	Portugal
Centre National de la Cartographie et de la Teledetection (CNCT)	Tunisia
Centre National d'Etudes Spatiales (CNES)	France
Centre Royal de Télédétection Spatiale (CRTS)	Morocco

(CIDA-E)		European Space Policy Institute (ESPI)	Austria
China Head Aerospace Technology Co.	China	European Test Services (ETS) B.V.	The Netherlands
Chinese Society of Astronautics (CSA)	China	Eurospace	France
CIRA Italian Aerospace Research Centre	Italy	Faculty of Aviation and Space Sciences, Necmettin Erbakan	Turkey
Colegio Federado de Ingenieros y de Arquitectos de Costa Rica (CFIA)	Costa Rica	University Federal Aviation Administration Office of Commercial Space	United States
Colombian Space Agency	Colombia	Transportation (FAA/AST)	
Colorado Center for Astrodynamics Research, University of Colorado	United States	Finnish Astronautical Society	Finland
Comision Nacional de Actividades Espaciales (CONAE)	Argentina	Firefly Aerospace Inc.	United States
Commission d'Astronautique de l'Academie Roumaine	Romania	Flinders University	Australia
Cosmoexport Aerospace Research Agency	Russian Federation	Fondazione E. Amaldi	Italy
Council of European Aerospace Societies (CEAS)	Belgium	Fraunhofer Alliance Space	Germany
Croatian Astronautical and Rocket Federation (HARS)	Croatia	Fundacion para el Desarrollo de las Ciencias la Sociedad y el Estado (FUNDECISE)	Costa Rica
CSIRO Astronomy & Space Science	Australia	Future Space Leaders Foundation	United States
CSL (Centre Spatial de Liège)	Belgium	G.A.U.S.S. Srl	Italy
Curtin University	Australia	Geo-Informatics and Space Technology Development	Thailand
CVA (Community of Ariane Cities)	France	Agency (GISTDA)	Titaliana
·		German Aerospace Industries Association (BDLI)	Germany
Cyprus Astronautical Society	Cyprus	GIFAS	France
Cyprus Space Exploration Organization (CSEO)	Cyprus	GK Launch Services, JSC	Russian Federation
Czech Space Alliance	Czech Republic	GKN Aerospace Engine Systems	Sweden
Czech Space Office	Czech Republic	Global Student Commercial Space Society (GSCSS)	United States
Dalian University of Technology (DUT)	China	GMV Aerospace & Defence SAU	Spain
Danish Aerospace Company A/S	Denmark	GomSpace Aps	Denmark
Danish Astronautical Society	Denmark	Graz University of Technology (TU Graz)	Austria
Dassault Aviation	France	Gumush Aerospace & Defense	Turkey
Deimos Space S.L.	Spain	HE Space	Germany
Delft University of Technology	The Netherlands	Hermann-Oberth-Raumfahrt Museum e.V.	Germany
Denel Spaceteq	South Africa	Hermes Engineering	Bulgaria
Department of Space Studies, University of North Dakota	United States	High Technology Unit (UAT) Faculty of Engineering - UNAM	Mexico
Dereum Labs S.A. de C.V.	Mexico	Hong Kong Aerospace Technology Group Limited (HKATG)	China
Deutsche Gesellschaft für Luft-und Raumfahrt, Lilienthal- Oberth e.V. (DGLR)	Germany	Hungarian Astronautical Society (MANT)	Hungary
Deutsches Zentrum für Luft- und Raumfahrt e.V. (DLR)	Germany		Germany
Digantara Research and Technologies Private Limited	India	IABG Industrieanlagen - Betriebsgesellschaft mbH IHI Aerospace Co, Ltd.	•
Disrupting Space LLC	United States	,	Japan Mexico
		Incomspace	India
Dnipropetrovsk National University	Ukraine	Indian Space Research Organization (ISRO)	
Dniprotekhservice, SPF, LLC	Ukraine	Indonesian National Institute of Aeronautics and Space (LAPAN)	Indonesia
D-Orbit SpA	Italy	Infostellar	Japan
DTU Space	Denmark	IngeniArs Srl	Italy
Dynetics	United States	Institut Français d'Histoire de l'Espace	France
Ecole Polytechnique Fédérale de Lausanne (EPFL)	Switzerland	Institut Supérieur de l'Aéronautique et de l'Espace (ISAE)	France
Ecuadorian Civilian Space Agency (EXA)	Ecuador	Institute for Q-shu Pioneer of Space, Inc. (iQPS)	Japan
Embry-Riddle Aeronautical University	United States	Institute of Biomedical Problems (IBMP), Russian Academy	Russian Federation
EMXYS (Embedded Instruments and Systems S.L)	Spain	of Sciences (RAS)	Russian rederation
EnduroSat AD	Bulgaria	Institute of Experimental and Applied Physics, Czech	Czech Republic
Engineers Australia	Australia	Technical University in Prague	
Enterprise Estonia	Estonia	Institute of Space Technology (IST)	Pakistan
EOS Data Analytics Inc.	United States	Instituto de Aeronáutica e Espaço (IAE)	Brazil
EUMETSAT	Germany	Instituto Nacional de Pesquisas Espaciais (INPE)	Brazil
EURISY	France	Instituto Nacional de Tecnica Aeroespacial (INTA)	Spain
Euro Space Center	Belgium	Instituto Tecnológico de Costa Rica (TEC)	Costa Rica
Euroconsult	France	International Association for the Advancement of Space	The Netherlands
European Conference for Aero-Space Sciences (EUCASS)	Belgium	Safety	
European Union Agency for the Space Programme (EUSPA)	Czech Republic	International Institute of Space Commerce	Isle of Man
European Organization for Nuclear Research (CERN)	Switzerland	International Lunar Observatory Association	United States
- ,			







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Italy Secure World Foundation United States National Space Research and Development Agency Japanese Rocket Society Nigeria Technology and Engineering Center for Space Utilization, China SEMECCEL Cité de l'Espace France Chinese Academy of Sciences SENER Ingenieria v Sistemas, S.A. **National Space Society** United States Snain Russian Federation Teledyne Brown Engineering United States Serbian Office for Space Sciences, Research and Serbia **NEC Corporation** Japan JSC NPO Energomash Russian Federation Telespazio S.p.A. Italy Development (SERBSPACE) Netherlands Aerospace Centre (NLR) The Netherlands Russian Federation Telespazio VEGA UK LTD United Kingdom JSC SRC Progress Sergio Arboleda University Colombia Netherlands Space Office (NSO) The Netherlands **United States** Tesat-Spacecom GmbH & Co. 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Canada Russian Federation The Andy Thomas Space Foundation Australia SIDERALIS Foundation King Abdulaziz City for Science & Technology (KACST) Saudi Arabia Nigerian Meteorological Agency Nigeria The Boeing Company **United States** Sierra Space United States Kongsberg Satellite Services AS Norway Norsk Astronautisk Forening Norway The British Interplanetary Society United Kingdom SIMEON Technologies France Korea Aerospace Industries, Ltd Korea, Republic of Northrop Grumman Corporation **United States** The Chinese Aeronautical and Astronautical Society located Taiwan, China Singapore Space and Technology LTd (SSTL) Singapore Korea Aerospace Research Institute (KARI) Korea, Republic of Northwestern Polytechnical University China Singapore Technologies Engineering Limited Singapore Korea Association for Space Technology Promotion (KASP) The Federal University of Technology, Akure (FUTA) Korea, Republic of Norwegian Space Agency Norway Nigeria Sirius XM Radio United States Korea Astronomy and Space Science Institute Korea, Republic of Novespace France The Institute for Earth and Space Exploration Canada Sitael Spa Italy Kyiv Politechnic Institute (NTUU "KPI") Ukraine Office National d'Etudes et de Recherches Aérospatiales France The Johns Hopkins University Applied Physics Laboratory **United States** Sky and Space Global (UK) Ltd United Kingdom The Korean Society for Aeronautical and Space Sciences Korea, Republic of Kvushu Institute of Technology Japan SODERN France OHB Italia SpA Italy LandSpace Technology Corporation Ltd. China The National Aerospace Educational Centre of Youth Ukraine Soletop Co., Ltd Korea, Republic of OHB System AG - Munich Germany The National Space Science and Technology Center (NSSTC) United Arab Layochkin Science and Production Association Russian Federation South African National Space Agency (SANSA) OHB System AG-Bremen South Africa Germany Emirates Law Offices of Sterns and Tennen United States South African Space Association (SASA) South Africa Open Cosmos United Kingdom The Ohio State University College of Engineering **United States** Leviathan Space Industry LLC United States Space Agency of Republic of Azerbaijan (Azercosmos) Azerbaijan Pakistan Space and Upper Atmosphere Research Pakistan The Planetary Society United States Libre Space Foundation Greece Commission (SUPARCO) Space Applications Services NV/SA Belgium The Sergei Korolev Space Museum Ukraine LIQUIFER Systems Group Austria Paraguavan Space Agency Paraguay Space Canada Corporation Canada The University of Sydney Australia Lithuanian Museum of Ethnocosmology Lithuania Peoples's Friendship University of Russia (RUDN) Russian Federation Space Center Houston **United States** ThrustMe France Lithuanian Space Association (LSA) Lithuania PJSC "Elmiz" Ukraine Space Commercial Services Holdings (Ptv) Ltd South Africa TNO The Netherlands Lockheed Martin Corporation **United States** Planet Labs Germany GmbH German United States Space Cooperative Inc. Tsinghua University China Luxembourg Space Agency Luxembourg Polish Academy of Sciences Poland Space Flight Laboratory (SFL) Canada TÜBITAK Turkev Malaysian Space Agency (MYSA) Malaysia Polish Astronautical Society Poland Space Foundation United States U.S. Geological Survey United States Mars Planet Italy Polish Space Agency (POLSA) Poland Space Generation Advisory Council (SGAC) Austria **UAE Space Agency** United Arab Massachusetts Institute of Technology United States Politecnico di Milano Italy **Emirates** Space Industry Association of Australia Australia Maxar United States Politecnico di Torino Italy **UK Space Agency** United Kingdom Space Policy Institute, George Washington University United States Max-Planck-Institute for Ornithology Germany PRATIAN II C United Launch Alliance LLC **United States** Puerto Rico Space Tech Expo - Smarter Shows Ltd United Kingdom McGill Institute for Aerospace Engineering (MIAE) Canada PricewaterhouseCoopers Advisory (PwC) Universiti Teknologi Mara (UITM) Malaysia France Space Trust United Kingdom MDA Corporation Canada Project Management Institute United States University Mediterranea of Reggio Calabria Italy Spacebit Global Ltd United Kingdom MEDES - IMPS France United States University of Adelaide Australia Proximai SpaceBuzz The Netherlands **United States** PTS Planetary Transportation Systems GmbH University of Alabama in Huntsville United States Germany SpaceChain Foundation Ltd. Singapore Mitsubishi Electric Corporation Japan Purple Mountain Observatory (PMO) China University of Naples "Federico II" Italy SpaceForest Poland Mitsubishi Heavy Industries, Ltd. Japan QinetiQ Space nv Belgium University of South Australia Australia Spacel and Africa Mauritius

10

United States



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University of Tartu Estonia University of Vigo Spain University POLITEHNICA of Bucharest - Research Center for University Space Program, Universidad Nacional Autonoma Mexico University Wuerzburg Germany UNSW Australia Australia Valispace Victorian Space Science Education Centre Australia Vieira de Almeida & Associados Portugal Vietnam National Space Center (VNSC) Vietnam Virgin Galactic L.L.C United States

Viterbi School of Engineering, USC

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3 Host

The Mohammed Bin Rashid Space Centre, founded in 2006, is home to the UAE National Space Programme. The Centre builds and operates earth observation satellites, offering imaging and data analysis services to clients around the world. It has launched the DubaiSat-1, DubaiSat-2 and the KhalifaSat, which was developed 100% in the UAE by a team of highly qualified Emirati engineers. The Centre also launched the Emirates Mars Mission "Hope Probe", which became the first Arab interplanetary mission to reach the Martian orbit on 9 February 2021. The Hope Probe is currently gathering key scientific data about Mars' atmosphere. Recently, the Centre announced the launch of the Emirates Lunar Mission, the first Emirati and Arab mission to explore the Moon and plans to develop MBZ-SAT, the most advanced commercial satellite in the region in the field of high-resolution satellite imagery.

The Centre is also responsible for the UAE Astronaut Programme, which saw the launch of Hazzaa AlMansoori, the first Emirati Astronaut, to the International Space Station on a scientific mission on 25th September 2019, and the development of the Mars 2117 Programme to build a human colony on Mars.

Mohammed Bin Rashid Space Centre

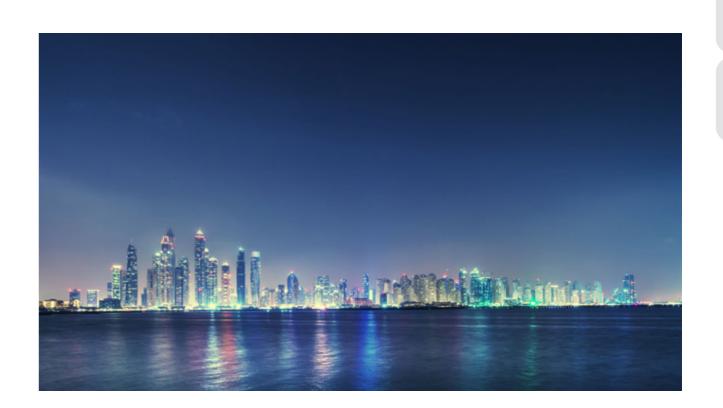
UAE, Dubai, Al Khawaneej Area

P.O.Box: 211833

T: + 971-4-6071200
W: www. mbrsc.ae/en
E: info@mbrsc.ae













1 Partner Organizations

4.1 The International Academy of Astronautics (IAA)

The International Academy of Astronautics is an international community of leading experts committed to expanding the frontiers of space. The IAA is distinguished as the only international Academy of elected members in the areas of Astronautics and Space.

The IAA is an independent non-governmental organization established in 1960 and recognized by the United Nations in 1996. With about 1200 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, summits and publications.

To foster the development of astronautics, the Academy undertakes a number of activities, including the recognition of outstanding contributors through elections and awards. The IAA has published more than 72 studies to date and is engaged in the preparation of about 40 others. The Academy also publishes a four book series and the journal Acta Astronautica, which is ranked first in the world regarding the research related to Space.

The Academy organizes over 25 conferences and regional meetings per year. In addition, the Academy in cooperation with the IAF and the IISL, provides an important contribution to the IAC, where the Academy organizes 13 symposia.

International Academy of Astronautics

6 rue Galilée 75016 Paris, France

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

T: +33 1 47 23 82 15
E: sgeneral@iaamail.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 fourty 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

Email: info@iislweb.org Website: http://iislweb.space

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

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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 nongovernmental, non-profit (US 501(c)3) organisation 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 16000 members representing more than 168 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 organisation, 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

Space Generation Advisory Council

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

E: info@spacegeneration.org
W: www.spacegeneration.org
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DUBAI

5.1 About Dubai

Once a small fishing village in the Arabian Gulf, Dubai is today one of the most cosmopolitan cities in the world. One of the seven emirates that make up the United Arab Emirates, Dubai is home to nearly 200 nationalities and offers a truly memorable experience to all visitors.

Dubai Means Business

The best way to understand Dubai's wonders and achievements is to see them first-hand. The city has firmly established itself as a leading commercial and trade hub with a state-of-the-art infrastructure and a world-class business environment.

Economic Powerhouse

Dubai is at the centre of a bustling region emerging as a major force within the global economy. A region that stretches from North Africa to South Asia and the Caspian Sea to South Africa - that comprises 42 countries and some of the world's fastest growing emerging markets. Central to Dubai's ethos is to be a city where it is easy to do business.

Multi-cultural Lifestyle

Expatriates comprise over 80% of Dubai's population. More than 150 nationalities live and work together within a safe environment with a far lower crime rate than many other major international cities.

World-class Infrastructure

Dubai's growing number of international firms, service companies, SMEs and financial institutions attract a highly skilled workforce. The city's businesses and expatriate population enjoy tax-free benefits. Schools accredited to international standards and top healthcare facilities are plentiful. Superb recreational facilities include eight championship golf courses.

Diverse Economy

The UAE is well-known for its liberal outlook and commitment to free trade. Contrary to popular belief, only 30% of UAE GDP comes from oil revenues. Within Dubai's own diverse, robust economy this figure is closer to 7%. Its modern business infrastructure includes a high-quality and high-tech commercial office environment. This is frequently within free-zones allowing 100% foreign owned businesses and complete tax-free repatriation of revenue earnings.

Airports

Dubai International

Connected to over 260 destinations through 140 airlines, Dubai International is the world's busiest airport for international passengers. The massive airport comprises four terminals and three concourses including the world's first and only purpose-built A380 facility.

Dubai World Central

Dubai's airport of the future, Dubai World Central will become the world's largest airport upon completion. Its ultimate capacity will be more than 240 million passengers and 12 million tonnes of cargo per annum.

Public Transport

Dubai has a comprehensive public transport network comprising taxis, buses, Dubai Metro, Dubai Tram and even water taxis. Operated by the Roads & Transport Authority, these services cover the length and breadth of the Emirate.

Taxis

All taxi services are regulated by the government. The minimum fare for travel within Dubai is Dhs12. For transfers from the airport to any destination within Dubai, fares start from Dhs25. An additional Dhs25 is charged if the destination is in another Emirate. Ladies-only taxis are available.

Buses

The Public Transport Agency provides public bus services with a large fleet of 1,518 buses. PTA operates an extended bus network of 119 internal lines, including 35 lines linking to metro stations, 12 intercity lines to transport passengers to other emirates, 62 internal lines and 8 fast lines. The network covers 82% of the urban areas in Dubai, and transports about 369,248 passengers per day.

Dubai Metro

Launched in 2009, the Dubai Metro operates three lines: the Red Line, which runs from Rashidiya to Jebel Ali, the Green Line, which runs from Al Qusais to Jadaf and the Route 2020, starting at Jabal Ali and extending all the way to the EXPO 2020 Dubai Station.

Nol card

The Nol card is a smart card that enables commuters to pay for the use of various RTA transport modes in Dubai with a single card. The card can be used to travel on the Dubai Metro, RTA buses, taxis, water buses, Dubai Tram as well as pay for RTA's paid parking. Nol cards can be purchased and recharged at Dubai Metro station ticket booths and ticket vending machines, Dubai bus stations, RTA customer service centres and RTA-authorised sales agents. Prices start at Dhs25. nol.ae

Dubai Tram

The Dubai Tram is the best way to get around the densely populated Dubai Marina and Jumeirah Beach Residence areas. It connects with the Dubai Metro at the Dubai Marina and Jumeirah Lakes Towers stations.

Water Bus

Beginning at Al Shindagha Station, visitors can enjoy a 45-minute trip along Dubai Creek to Al Seef Station.

Car Hire

Visitors who would like to explore the city at their own convenience can opt for rent-a-car facilities. Visitors will need an international driver's licence, passport and credit card to hire a car. It's also worth noting that third-party insurance is compulsory.

Medical Care

Dubai's hospitals are regulated by Dubai Health Authority (DHA). DHA itself provides medical care in three main facilities: the Dubai Hospital, Latifa Hospital and Rashid Hospital. Numerous private clinics and hospitals also offer top-notch facilities for both in-patients and out-patients.







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5.2 Dubai World Trade Centre (DWTC)

At **Dubai World Trade Centre (DWTC)** the only limit is your imagination. As the region's largest events venue, we offer every type of service and support all under one roof.

Our business was founded on one simple idea creating better events and experiences. If you can imagine it, we'll make it happen. Dubai World Trade Centre is centrally located within the commercial business district of Dubai amidst the city's iconic landmarks.

With over 30 years experience and more than one million square feet of multi-purpose space, we have welcomed some of the world's most high-profile events. A destination in itself, DWTC hosts more than 500 events across international trade fairs, mega consumer shows and prestigious conventions - and welcomes more than 3 million visitors from 160 global markets every year.

With the Dubai International Convention and Exhibition Centre at the heart of our complex, DWTC is home to the commercial offices of Sheikh Rashid Tower and the Convention Tower. With our own fully onsite serviced accommodation at The Apartments as well as our associate onsite hotels, Novotel and Ibis, a good night's sleep is within arm's reach. The result is a complex fully integrated into the business heart of Dubai.

5.3 Dubai Map



6 CONGRESS PRACTICAL INFORMATION

6.1 Congress Venue Floor Plans









6.2 Offices

Registration

Location: Concourse

Saturday 23 October & Sunday 24 October, 07:00-18:00 Monday 25 October - Friday 29 October, 07:00-18:00

IAF Secretariat Office

Location: Al Wasl Pressroom

Friday 22 October - Friday 29 October, 08:00-18:00

IAA Secretariat Office

Location: Fujairah C

Friday 22 October - Friday 29 October, 08:00-18:00

Exhibition Hall

Location: Hall 5,6,7,8

Monday 25 October - Thursday 28 October, 09:00-18:00

Friday 29 October, 09:00 - 16:00

IAF Members' Lounge

Location: Exhibition Hall 5

Monday 25 October - Thursday 28 October, 09:00-18:00

Friday 29 October, 09:00 - 16:00

IISL Members' Lounge

Location: Ajman C

Saturday 23 October - Friday 29 October, 08:00 - 18:00

Press Centre

Location: Exhibition Hall 5

Monday 25 October - Thursday 28 October, 09:00-18:00

Friday 29 October, 09:00 - 16:00

Speaker Preparation Room

Location: Exhibition Foyer

Sunday 24 October, 14:00-18:00

Monday 25 October - Thursday 28 October, 08:30-18:00

Friday 29 October, 08:30-13:00

6.3 Registration

Registration hours:

	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
	SATURDAY	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	CONCOURSE						
OPEN TIMINGS	7:00 AM						
CLOSE TIMINGS	6:00 PM						

Registration fees:

Registration Category		Fees in Euro	Fees in AED
Standard Rates:	Early Rates: 30 July 20 18th October 2021 On site Rates		
Standard Nates.	Early Rates	€ 900	AED 4,050
Delegate Member	Standard Rates	€ 1,090	AED 4,905
	On-Site Rates	€ 1,215	AED 5,467.50
			,
	Early Rates	€ 1,150	AED 5,175
Delegate Non Member	Standard Rates	€ 1,330	AED 5,985
	On-Site Rates	€ 1,400	AED 6,300
	Early Rates	€ 540	AED 2,430
Retired Person	Standard Rates	€ 600	AED 2,700
	On-Site Rates	€ 665	AED 2,992.50
	Early Rates	€ 400	AED 1,800
Young Professional	Standard Rates	€ 470	AED 2,115
	On-Site Rates	€ 530	AED 2,385
	Early Rates	€ 115	AED 517.50
Full-Time Student	Standard Rates	€ 130	AED 585
	On-Site Rates	€ 150	AED 675
	Early Rates	€ 115	AED 517.50
Primary and Secondary Level Teacher	Standard Rates	€ 130	AED 585
	On-Site Rates	€ 150	AED 675
	Early Rates	€ 105	AED 472.50
Accompanying Persons	Standard Rates	€ 115	AED 517.50
	On-Site Rates	€ 150	AED 675

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. Membership to AIAA is not a qualification for this discount.
- Delegate Non-Members (Standard) are full-paying Participants whom are 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 copy of their passport).
- 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)
- **Primary and Secondary level Teachers** must provide documentation from their organization to confirm they are educators of primary or secondary level.
- Accompanying Persons Accompanying Person 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: Members of the press must submit a request for press credentials to cover IAC 2021 in Dubai. All requests will be reviewed by IAF staff; and submitting a request does not guarantee credentials will be granted. Once approved, 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 credentialed press can access Technical Sessions as observers, they are forbidden to present papers.











7 CONGRESS SCHEDULE

FRIDAY 22	FRIDAY 22 OCTOBER															
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
Al Ain A+B			28 th UN/IAF Workshop 08:00 - 18:00													
Al Ain D																
Al Ain F																
MBRSC University of Dubai			Space Generation Congress 08:00 - 19:00													

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SGAC Gala Dinner

19:00 - 22:00



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SATURDAY 23 OCTOBER ROOM 07:00 08:00 09:00 10:00 11:00 12:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 13:00 14:00 28th UN/IAF Workshop Al Ain A+B 09:00 - 18:00 **IPC Steering Group** Al Ain E 13:00 - 14:30 Al Ain F IAF Space Exploration Al Ain K 13:00 - 14:30 **IAF Finance Committee** Fujairah A 10:00 - 12:30 Abu Dhabi A IAF/ISEB Educators' Workshop Abu Dhabi B 08:30 - 16:00 Ajman D IAF/ISEB Workshop Lunch MoP/IPC Welcome Reception **Bubble Lounge** 11:30 - 14:00 18:00 - 21:00 **TAC Meeting** Sharjah D 15:00 - 16:30 IPC General Al Multaqua Meeting Ballroom 17:00 - 18:00

Space Generation Congress

08:00 - 19:00

MBRSC University of Dubai

Sahara Desert Resort







SUNDAY 24 OCTOBER 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 28th UN/IAF Workshop Al Ain A+B 09:00 - 13:00 IAF Space Transporta-IAF Commercial Spaceflight Safety Committee Al Ain C tion Committee 16:00 - 17:30 13:00 - 14:30 **IAF Space Power Committee** Al Ain E 15:00 - 17:00 IAF Space Traffic Management Committee IAF Space Propulsion Committee **IAA Space Debris Committee** Al Ain K 09:30 - 12:30 15:00 - 17:00 11:00 - 12:30 IAF Astrodynamics Committee -Session 2 Hatta B 16:00 - 18:00 IAF Workforce Development-IAF Human Spaceflight Committee Young Professionals Programme Committee (WD-YPP) Hatta D 16:00 - 18:00 14:00 - 16:00 **IAF Global** Workforce Development Hatta F Subcommittee 16:00 - 17:00 **IAF Earth Observations Committee** IAF Subcommittee on the Global Earth Hatta H Observation System of Systems (GEOSS) 14:30 - 17:30 **IAF Space Life Sciences IAF Materials and Structures Committee** Hatta J Committee 11:00 - 12:30 11:00 - 12:30 SGAC Advistory Meeting - Session 1 Ajman A 14:30 - 17:00 Host Summit Lunch **MOP Dinner Bubble Lounge** 19:00 - 22:00 13:00-14:00 **IAC Hosts Summit** Dubai C+D 10:30-13:00 IAFBureau Meeting - Session 1 Fujairah A 14:00 - 17:00 Sharjah A Cross-Cultural Workshop | 08:30 - 13:00 Cross-Cultural Workshop | 08:30 - 13:00 Sharjah D YP Reception Al Multaqua YP Event IAF International Meeting for Members of Parliaments | 08:30 - 14:30 Ballroom 19:00 - 20:00 Sheikh Maktoum A IAA Academy Day | 08:30 - 18:30 IAF PS Lab Sheikh Maktoum C 15:00 - 17:00 YP IPMC Lunch Ras Al Khaimah 12:30 - 13:30 Umm Al Qwain YP IPMC Workshop | 08:30 - 18:00 Raffles Dubai Hotel IAA Dinner | 18:30 - 22:30



Economy

Committee 17:00 - 18:00





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SCHEDULE

MONDAY 25 OCTOBER 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 Al Ain A Technical Sessions | 15:15 - 18:15 Technical Sessions | 15:15 - 18:15 Al Ain B Microgravity Sciences and **IAF Space Astronomy Technical Committee** Al Ain C (SATC) Processes Committee 13:00 - 14:30 18:00 - 19:00 Al Ain F Technical Sessions | 15:15 - 18:15 Al Ain J Technical Sessions | 15:15 - 18:15 Abu Dhabi A Technical Sessions | 15:15 - 18:15 Abu Dhabi B Technical Sessions | 15:15 - 18:15 IAF Space Systems Symposium - D1 Session **IAF Space Systems** Committee Hatta H Coordination 18:00 - 19:30 Meeting 11:00 - 12:00 IAF Entrepreneurship and Investment Ajman A Committee (EIC) 10:30 - 13:30 Technical Sessions | 15:15 - 18:15 Ajman D Technical Sessions | 15:15 - 18:15 Dubai C GTS Technical Session | 15:15 - 18:15 Dubai D Sharjah A Technical Sessions | 15:15 - 18:15 Sharjah D Technical Sessions | 15:15 - 18:15 Al Multaqua Ballroom

Opening Exhibition/

Ribbon cutting/

VIP Tour 10:30 - 11:30

Fujairah A

Exhibition Halls

5/6/7/8





Welcome Reception | 19:30 - 22:00



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PRACTICAL

SCHEDULE

MONDAY 25 OCTOBER 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 ESA Speakers Luncheon HoA Press Conference Pavillion A 12:00 - 13:00 15:00 - 16:00 Technical Sessions | 15:15 - 18:15 Sheikh Maktoum A Sheikh Maktoum B Technical Sessions | 15:15 - 18:15 Sheikh Maktoum C Technical Sessions | 15:15 - 18:15 Sheikh Maktoum D Technical Sessions | 15:15 - 18:15 Technical Sessions | 15:15 - 18:15 Sheikh Rashid A Sheikh Rashid B **Special Sessions** | 15:15 - 18:15 Technical Sessions | 15:15 - 18:15 Sheikh Rashid C Sheikh Rashid D Technical Sessions | 15:15 - 18:15 PE 2 Sheikh Rashid E 13:15 - 14:45 18:15 - 19:30 **Opening Ceremony** 09:00 - 10:30 IAF GNF Sessions Sheikh Rashid F 14:55 - 15:45 | 15:55 - 16:55 | 17:05 - 18:05 Technical Sessions | 15:15 - 18:15 Ras Al Khaimah

Technical Sessions | 15:15 - 18:15

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& 3 @ DWTC

Sheikh Saeed Hall 2







TUESDAY 26 OCTOBER 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 Al Ain A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Al Ain B Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 **B4 IAA Small** Satellite IAF Knowledge **IAF Committee** Missions **IAF Committee on Space Security Management for Space** on Integrated Program Al Ain C Organisations (KMTC) Applications 10:00 - 12:00 Committee 14:30 - 16:00 16:00 - 17:00 Meeting 14:30 - 16:00 GEO MENA Forum Al Ain E 10:00 - 11:30 Al Ain F Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Al Ain J Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 IAF Committee for the IAF Space Education and Out-**Cultural Utilisation of IAF Space Operations Committee** reach Committee (SEOC) Al Ain K Space (ITACCUS) 08:00 - 10:00 14:00 - 16:00 18:30 - 20:00 Hatta B IAF Nomination Committee | 08:00 - 18:00 CSAC Meeting | 08:00 - 18:00 Hatta J Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Abu Dhabi A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Abu Dhabi B IAF Committee on **Developing Countries** IAA Study Group Meeting 6.17 and Emerging
Communities (ACDCEC) Ajman A 17:00 - 19:00 15:00 - 16:30 Ajman D Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 GTS Technical Sessions | 09:45 - 12:45 GTS Technical Sessions | 14:45 - 17:45 Dubai D Sharjah A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sharjah D **YP Event** YP Reception Al Multaqua Ballroom 19:30 - 20:30 20:30 - 21:30 OHB Industry Breakfast Planet Industry Pavillion A

12:30 - 13:30

07:00 - 08:00







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TUESDAY 26 OCTOBER 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 **Lightning Talk** cep-tion ASI Reception 17:00 - 18:00 Session 12:50 - 13:30 Pavillion B Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum A Sheikh Maktoum B Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum C Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum D Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid A Sheikh Rashid B Special Sessions | 09:45 - 13:00 Special Sessions | 14:45 - 17:45 Sheikh Rashid C Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid D PE 3 PE 4 HHL1 Sheikh Rashid E 08:30 - 09:30 13:30 - 14:30 18:00 - 19:00 IAF GNF Session 2 IAF GNF Session 1 Sheikh Rashid F 14:35 - 15:35 | 15:40 - 16:40 | 16:45 - 17:15 09:40 - 10:40 | 10:50 - 11:50 | 12:00 - 12:30 17:25 - 17:55

Technical Sessions | 14:44 - 17:45

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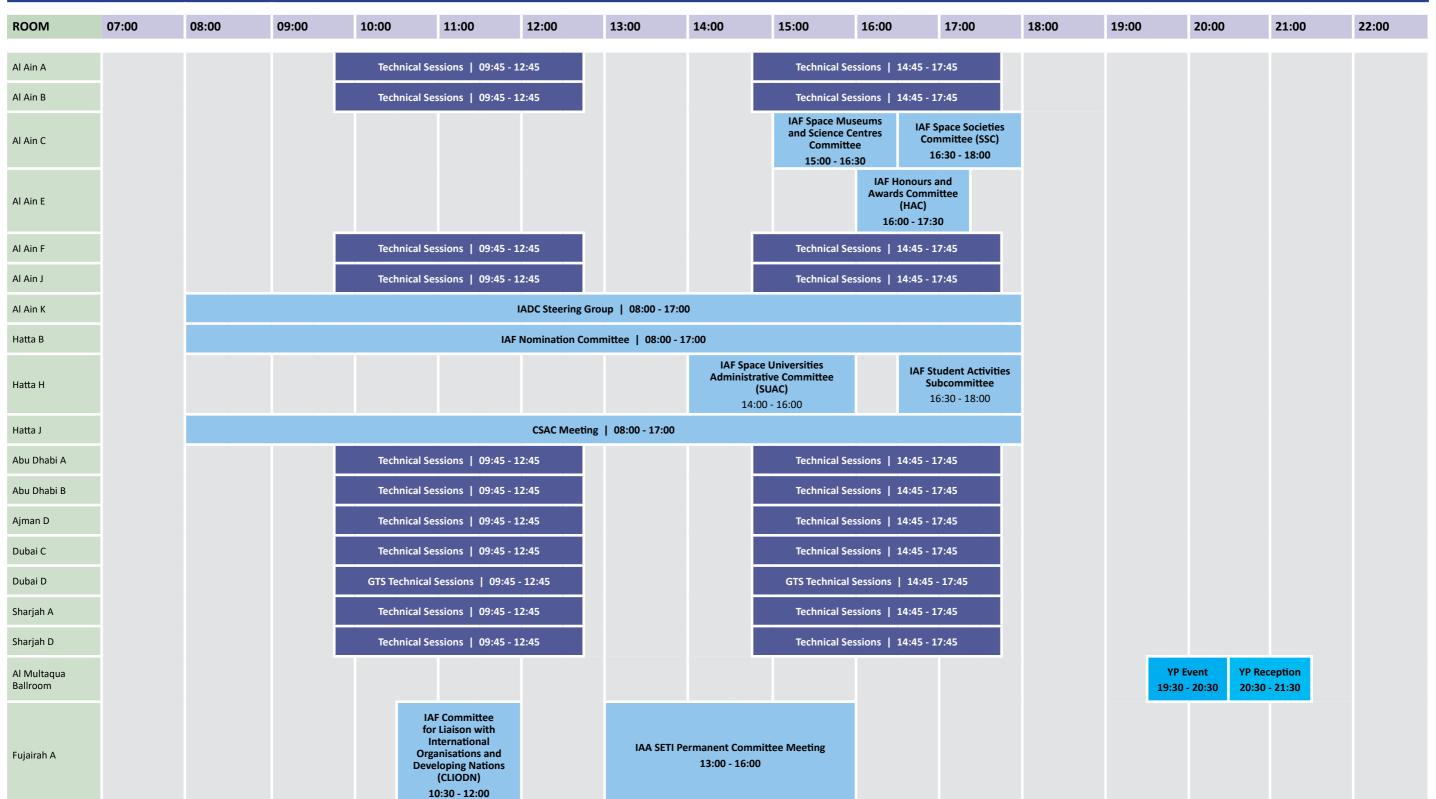
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WEDNESDAY 27 OCTOBER 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 ROOM IDEA 3G IAF IDEA Diversity Luncheon Pavillion A 07:00 - 08:30 Jacobs 12:30 - 13:30 Sheikh Maktoum A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum B Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum C Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum D Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid B Special Sessions | 09:45 - 13:00 Special Sessions | 14:45 - 18:00 Sheikh Rashid C Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid D Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 PE 5 PE 6 HHL 2 Sheikh Rashid E 08:30 - 09:30 13:30 - 14:30 18:00 - 19:00 **IAF GNF Sessions** IAF GNF Sessions Sheikh Rashid F 14:40 - 15:25 | 15:45 - 16:15 | 16:30 - 17:00 09:40 - 10:40 | 10:50 - 12:20 17:15 -17:45

Technical Sessions | 14:45 - 17:45

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THURSDAY 28 OCTOBER 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 Al Ain A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Al Ain B Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 **IPC Steering Group -**Session 2 Al Ain E 15:00 - 16:30 Al Ain F Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Al Ain J Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Al Ain K IAF Enterprise Risk IAF Astrodynamics Management Commit-Committee - Session 1 IAF Nomination Committee | 08:00 - 12:00 Hatta B tee (ERMC) 16:30 - 18:00 15:00 - 16:30 Committee on Near **IAA History Committee** Earth Hatta H 12:00 - 14:00 Objects (NEO) 16:30 - 17:30 Abu Dhabi A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Abu Dhabi B Ajman D Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Dubai C Dubai D GTS Technical Sessions | 09:45 - 12:45 GTS Technical Sessions | 14:45 - 17:45 **IAF Industry Relations** IAF Bureau Meeting - Session 2 Committee (IRC) Fujairah A 09:45 - 12:30 13:15 - 14:45 Technical Sessions | 09:45 - 12:45 Sharjah A Technical Sessions | 14:45 - 17:45 Sharjah D Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Speakers Luncheon Pavillion A 12:30 - 13:30 ΙP Award **IP Award Session** Pavillion B 12:45 -13:15 - 14:45

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THURSDAY 28 OCTOBER 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 Sheikh Maktoum A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum B Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum C Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Maktoum D Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid A Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid B Special Sessions | 09:45 - 13:00 Special Sessions | 14:45 - 18:00 Sheikh Rashid C Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45 Sheikh Rashid D PE 7 HHL (WSL) Sheikh Rashid E 08:30 - 09:30 18:00 - 19:00 IAF GNF Sessions **IAF GNF Sessions** Sheikh Rashid F 09:40 - 10:35 | 10:45 - 11:15 | 11:25 - 12:25 13:40 - 14:25 | 14:35 - 15:35 | 15:45 - 16:45 | 16:55 - 17:45 Ras Al Khaimah Technical Sessions | 09:45 - 12:45 Technical Sessions | 14:45 - 17:45

Technical Sessions | 14:45 - 17:45

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FRIDAY 29 OCTOBER

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
Al Ain A				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Al Ain B				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Al Ain C									F Space Habitats Committee							
Al Ain F				Technical Se	ssions 09:45	5 - 12:45			14:30 - 16:00 ons 13:30 - 16:3	0						
Al Ain J				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Al Ain K				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Abu Dhabi A				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Abu Dhabi B				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Ajman D				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Dubai C				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Dubai D				GTS Technical	Sessions 09:	45 - 12:45		GTS Technical Ses	ssions 13:30 - 16							
Hatta H										Navigation	ommunications and Committee (SCAN)					
Fujairah A								Bureau Meet- ing - Session		14	30 - 16:00					
harjah A				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
narjah D				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
Al Multaqua Ballroom				IAF General A	ssembly 09:	30 - 13:00										
Pavillion A							s Luncheon 0 - 13:30									
heikh Maktoum A	L			Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
heikh Maktoum B	3			Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
heikh Maktoum C				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
heikh Maktoum D)			Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
neikh Rashid A				Technical Se	ssions 09:45	i - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
heikh Rashid B							Spec	ial Sessions 11:30	- 16:45							
heikh Rashid C					ssions 09:45				ons 13:30 - 16:3							
heikh Rashid D				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
heikh Rashid E		LB 08:30 -									Closing Ceremony 16:45 - 17:45					
heikh Rashid F				IAF GNF S 09:40 - 10:40				IAF GNF Sessio 13:40 -14:40								
as Al Khaimah				Technical Se	ssions 09:45	5 - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
mm Al Qwain				Technical Se	ssions 09:45	i - 12:45		Technical Sessi	ons 13:30 - 16:3	0						
rmani Hotel, uri Khalifa													Gala Di	nner 19:00 - 22	:00	

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What is the IAC 2022 about?

The International Astronautical Congress 2022 will be hosted in the beautiful city of Paris, France. Exceptionally, the IAC 2022 will be from Sunday till Thursday, 18 – 22 September. The Hosting Organization is the Centre National d'Études Spatiales (CNES), a member of IAF since 1981. Paris hosted the first IAC ever in 1950, then in 1963 and lastly in 1982 and now will be holding the record of the city with most IACs hosted.

The IAC 2022 theme will be **Space for @II** to reach beyond the space community and bringing together all communities. The IAC 2022 will offer great opportunities for networking and forging new contacts and potential partnerships.

For the latest information, visit www.iac2022.org or www.iafastro.org

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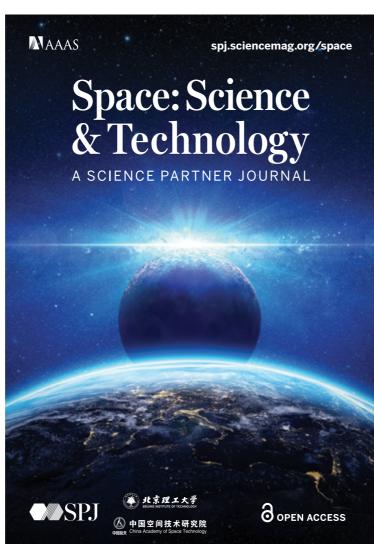














IAF Alliance Programme Partners 2021

























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16-20 MAY 2022 QUITO, ECUADOR





GLEC 2022 will focus on:

- Creating awareness on the essential legislative and policy elements that must be considered in establishing a firm foundation for national or regional space ecosystems.
- Promoting the creation and development of a local/regional space ecosystem that is innovative, responsive, robust, and commercially viable.
- Highlighting the socio-economic benefits of space applications so that high-level citizen support can be secured for advancing national or regional space ecosystems.



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