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ispace, Luxembourg

Organizers



International Astronautical Federation (IAF)

Connecting @ll Space People

Founded in 1951, the International Astronautical Federation is the world's leading space advocacy body with 407 members in 71 countries, including all leading space agencies, companies, research institutions, universities, societies, associations and institutes worldwide.

Following its theme "A space-faring world cooperating for the benefit of humanity", the Federation advances knowledge about space, fostering the development and application of space assets by promoting global cooperation.

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



ROSCOSMOS

ROSCOSMOS

ROSCOSMOS, an IAF Member since 1993, is a State Corporation that was established to oversee and implement a comprehensive reform of the Russian space industry.

State Space Corporation ROSCOSMOS ensures the implementation of the Russian government's space programme and its legal regulation.

ROSCOSMOS is also placing orders for the development, manufacture and supply of space equipment and space infrastructure objects.

The state corporation is also responsible for international space cooperation and tasked with setting the stage for the future use of results of space activities in the social and economic development of the Russian Federation.

IAF Alliance Partners:



Sponsorship Opportunities

GLEX 2021 offers a wide range of visibility and promotion opportunities for your organization.

For more information on sponsorship opportunities, please contact: **Isabella Marchisio**, Senior Projects Manager, International Astronautical Federation, isabella.marchisio@iafastro.org

For more information

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Be part of the conversation on **#GLEX2021**
and **@iafastro**



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14-18 JUNE 2021

St. Petersburg, Russian Federation

Call for Papers



www.glex2021.org

Welcome to GLEX 2021!

It is with great pleasure that the International Astronautical Federation invites you to the third Global Space Exploration Conference 2021 – GLEX 2021. After Washington, D.C. in 2012 and Beijing in 2017, St. Petersburg will now host the Global Space Exploration stakeholder community for a unique and timely global conference. GLEX 2021 is dedicated to building and maintaining the international relationships that will support human exploration of outer space.



Pascale Ehrenfreund

*President,
International Astronautical Federation (IAF),
Austria*

A Global Space Exploration Conference appears timely considering current discussions and efforts worldwide to define the next steps for international cooperation that seems to become increasingly relevant to the future of space exploration. This conference will cover a large spectrum of topics pertinent to space exploration. Where do we stand on robotic and human missions to the moon? Are there new business models for space exploration? What is the life support challenge for human space exploration? How can we improve international cooperation for Space Exploration?

The Global Space Exploration Conference will be an essential milestone in the world's leading and emerging Space nations' decision-making process. We welcome all members of the global space community to actively participate in this critical discussion on space exploration policy, science, and technology.

Dear Colleagues,

On behalf of the State Space Corporation ROSCOSMOS I am delighted to invite you to the Global Space Exploration Conference 2021 (GLEX 2021) that will be held 14-18 June 2021 in Saint Petersburg, the Russian Federation, the city that is known to be one of the most attractive business and touristic destinations around the world. Moreover Saint Petersburg is the historical and cultural capital of the Russian Federation. Magnificent architecture takes you back in time of the 18th and 19th centuries of Imperial Russia with its beautifully built palaces, mansions and bridges.



Sergey Saveliev

Deputy Director General for International
Cooperation, State Space Corporation
ROSCOSMOS,
VP for Relations with International
Organizations, International Astronautical
Federation (IAF)
Russian Federation

Humanity has always dreamed of conquering space. We proudly recall Yuri Gagarin's first space flight. In 2021 the entire global community will celebrate the 60th anniversary of this significant event with which the era of practical space exploration began and totally forever changed the world. Then we also witnessed the first space flight by a woman, the first spacewalk and human landing on the Moon.

Nowadays the international space community is concentrating on the Moon exploration and going forward, we see manned flights to Mars. At the same time, unmanned spacecraft are already actively exploring the Moon, Mars and other objects of the Solar system.

The main goal of GLEX 2021 is to bring together scientists, engineers, lawyers and students from different countries who want to study and explore space, want to share their thoughts and plans, and are ready to discuss them with colleagues. Only in such close cooperation and mutual understanding, we will be able to implement ambitious projects on the Moon, Mars and beyond the Solar system.

In this regard, during our Conference we plan to discuss the full range of issues related to space exploration: manned space flights, research of objects of the Solar system and the Universe, astronomical and astrophysical research and so on.

With respect to the program of the Conference, it will contain: 3 plenary sessions, namely, heads of space agencies, heads of aerospace companies, as well as a session devoted to the future of developing space countries, an IAF Global Networking Forum, 12 technical sessions, interactive presentations, a specialized exhibition, a Welcome Reception on behalf of the State Space Corporation ROSCOSMOS and a Gala Dinner on behalf the city of Saint Petersburg. A separate day, 14 June 2021, will be allocated to young professionals, on whom the future exploration of space will depend. In addition, a rich cultural and excursion program will be organized, including, a visit to the Peterhof Museum-Reserve.

We are confident that GLEX 2021 will be an outstanding scientific event that will contribute to strengthen the links between the Russian Federation and the rest of the world, among present and future generations of specialists in the field of space exploration activities.

We look forward to meeting you all in Saint Petersburg at a memorable event GLEX 2021!

Welcome from IPC Co-Chairs

Dear fellow members of the global space exploration community,

We look forward to welcoming you to the Global Space Exploration Conference 2021 in St. Petersburg! GLEX 2021 is jointly organized by the International Astronautical Federation and ROSCOSMOS and follows the successful GLEX 2012 in Washington, D.C. and GLEX 2017 in Beijing.

Space Exploration has been a dream of many for a long time. Beginning in the middle of the last century humanity has started to turn this dream into reality. We remember with pride the first artificial satellite, Gagarin's spaceflight, the first woman in space, the first spacewalk, and the first steps by man on the Moon. International partnerships have become ever more important, and today the International Space Station, the biggest and largest human-made space object serves as a unique science laboratory in Earth orbit.

We stand today at a truly transformational time in space exploration. Humanity's gaze is now often focused ever further out – to the Moon, and Mars, and beyond. Robotic and human lunar missions are being planned and implemented by both governments and private industry around the world. Others are planning lunar bases and villages. Others are developing missions to explore Mars, or to mine asteroids. One of the remarkable aspects of the global space world today is how commercially funded space exploration activities are becoming an ever more common complement to government-led space programmes.

Against this exciting backdrop, GLEX 2021 will bring together all the key space exploration players for a week in wonderful St. Petersburg this coming summer. Space agency leaders, captains of industry, academic researchers, policy experts, entrepreneurs, and other enthusiasts are invited to exchange ideas, report on results, share visions, and together make space exploration plans. Delegates will be able to inform themselves about programmes around the world and establish and advance international partnerships to turn exploration dreams into reality.

We encourage all who are active and interested in moving humanity beyond the boundaries of the known world to join us for GLEX 2021 on 14-18 June 2021 in St. Petersburg!



Sergey Krikalev

*Past VP for International Relations and Outreach,
International Astronautical Federation (IAF),
Executive Director for Piloted Spaceflights,
State Space Corporation ROSCOSMOS,
Russian Federation*



Christian Sallabergen

Chair,
IAF Space Exploration Committee,
International Astronautical Federation (IAF),
President,
Canadensys,
Canada

Conference Objectives

Following its mission to encourage cooperation, promote international development and share knowledge, the IAF as well as ROSCOSMOS are committed to supporting the international relationships that enable exploration of outer space. GLEX 2021 is designed to encouraging the sharing of programmatic, technical and policy information, as well as collaborative solutions, challenges, lessons learnt, and paths forward among all nations with the desire to explore space. During the 4 years since GLEX 2017 the international space exploration community has significantly moved forward with their respective exploration planning and programmes and it is therefore timely to take stock of the developments and undertake an outlook to the future of space exploration on a global scale.

The GLEX 2021 programme is designed to bring together leaders and decision-makers within the science and human exploration community – engineers, scientists, entrepreneurs, educators, agency representatives and policy makers. It will provide a forum to discuss recent results, current challenges and innovative solutions and it will contain several opportunities to learn about how space exploration investments provide benefits as well as discuss how those benefits can be increased through thoughtful planning and cooperation.

Call For Papers

Abstracts should be written in English and submitted on the IAF restricted area at www.iafastro.net to one of the following tracks:

- | | |
|--|--|
| 1. International Cooperation for Space Exploration | 8. Challenges of Life Support/Medical Support for Human Missions |
| 2. Lunar Exploration | 9. Space Stations |
| 3. Mars Exploration | 10. Space Resources |
| 4. Exploration of Near-Earth Asteroids | 11. Ground-Based Preparatory Activities |
| 5. Exploration of Other Destinations | 12. Transcending Societal Issues for Space Exploration |
| 6. Space Transportation | |
| 7. Key Technologies | |

Submitted abstracts will be evaluated by the session chairs on the basis of technical quality and relevance to the session topics.

Note: An abstract can be submitted to only one technical track.

Important dates and deadlines

26 October 2020	➤	Call for Papers opens
29 January 2021	➤	Call for Papers closes
14 June 2021	➤	Next Generation Seminar
14 - 18 June 2021	➤	Conference
18 June 2021	➤	Cultural Visits



TAVRICHESKY PALACE
Shpalernaya Ulitsa, 47, St Petersburg, Russia, 191015

GLEX 2021 at a Glance

	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
Monday 14 June	IPC Meeting														
	Next Generation Seminar (NG)														
	NG Seminar Registration		NG Seminar Opening Ceremony		Tea Break	NG Seminar Plenary Session		Lunch Break		NG Seminar Parallel Working Groups		Tea Break	NG Seminar Closing Session		Next Generation Reception
	NG Seminar Welcome Tea														
Tuesday 15 June	Registration		Opening Ceremony	Exhibition Opening	Networking & Tea Break	High-level PE 1 Part 1 (HoA)	High-level PE 1 Part 2 (HoI)	Lunch Break	Plenary 2	Networking Tea Break	Parallel Technical Sessions			Welcome Reception	
	Welcome Tea										Global Networking Forum (GNF) Sessions				
Wednesday 16 June	Registration		Keynote Lectures 1	Plenary 3	Networking Tea Break	Parallel Technical Sessions		Lunch Break	IP Awards Ceremony	Interactive Presentations (IP) Session	Networking Tea Break	Parallel Technical Sessions		Gala Dinner	
						Global Networking Forum (GNF) Sessions						Global Networking Forum (GNF) Sessions			
Thursday 17 June	Registration		Keynote Lectures 2	Plenary 4	Networking Tea Break	Parallel Technical Sessions		Lunch Break	Plenary 5	Networking Tea Break	Parallel Technical Sessions		Closing Ceremony		
						Global Networking Forum (GNF) Sessions					Global Networking Forum (GNF) Sessions				
Friday 18 June	Cultural Visits														