



Organized by the United Nations Office for Outer Space Affairs (UNOOSA) and the International Astronautical Federation (IAF)

Hosted by





Venue: Paris Convention Center, 1 Place de la Porte-de-Versailles, Paris, 75015, France

Dates: 16-17 September 2022





Programme at glance

Opening session: Opening Remarks

Setting the scene: Background and the objectives of the workshop.

Session 1: Heads of Governmental Space Actors on Innovation, International Cooperation and Socioeconomic Benefits of Space

Governmental Space Actors bear the most responsibilities to serve social and economic development using space technologies and bring the benefits of space all over the world. The Access to Space for All Initiative works with various governmental actors to bring the access to space opportunities to United Nations Member States with particular attention to developing nations, to bridge the space divide.

Session 2: Access to Space Enablers

This session will provide an overview of the different elements that are needed to maximize the benefits of space activities. This session welcomes government officials, members of academia, private sector, students and practitioners, aiming at providing a holistic view of the key elements that make space a sustainable endeavour.

Session 3a: Science, Technology and Innovation from Hypergravity and Microgravity Experimentation

The Hypergravity and Microgravity experimentation aims at developing the knowledge, engineering processes and human workforce to conduct basic science and technology experiments in hypergravity and microgravity conditions. It works as the foundation of space technology and space exploration. Hypergravity and Microgravity experimentation contains ground facility experimentation and in-orbit experimentation, research outcomes, innovation ideas and cooperation efforts are welcome in this session.

Session 3b: Science, Technology and Innovation from Satellite Development

This session provides a chance in exchanging ideas on satellite development efforts, including educational efforts for developing technical know-how, engineering processes and satellite development case studies. Participants from developing nations are especially encouraged to submit their contributions to this session.

Session 3c: Science, Technology and Innovation from Space Exploration

Thanks to an inclusive approach implemented by many space-faring countries, several developing, and space emerging nations are also diving into space exploration. Space exploration efforts by international and national entities, space agencies, industry and civil society, reveal the latest and future approaches toward space exploration are welcome in this session.

Flash Wrap-Up Session

Closing session: Closing remarks







Agenda of the Workshop

Friday, 16 September 2022, Morning Session

Time	Title of Presentation	Speaker	Organisation			
08:00-09:00	Registration					
Opening Cerei	mony					
09:00-09:05	Opening remarks by UNOOSA	Niklas Hedman	Acting Director, UN Office for Outer Space Affairs			
09:05-09:10	Opening remarks by IAF	Pascale Ehrenfreund	President, International Astronautical Federation			
09:10-09:15	Opening remarks by CNES	Jean-Marc Astorg	Strategy Director, French Space Agency			
Setting the sce	ene					
09:20-9:35	Perspective from the programme committee	Jorge Del Rio Vera	United Nations Office for Outer Space Affairs			
9:35-9:40	Perspective from the programme committee	Christian Feichtinger	International Astronautical Federation			
9:40-9:45	Perspective from the programme committee	Masami Onoda	Chair, Committee for Liaison with International Organizations and Developing Nations, International Astronautical Federation			
9:45-09:50	Perspective from the programme committee	Alejandro Roman	Chair, Committee on Developing Countries and Emerging Communities, International Astronautical Federation			
Session 1: Hea	ads of Governmental Space Actors on Innovati	on, International Coopera	tion and Socioeconomic Benefits of			
Space (Failel)	Chair: Niklas Hedman Rapporteur: Giovanna Estefania Ramirez Ruiz					
	Mambimba Ndjoungui Aboubakar	Deputy General Manager, Gabonese				
	iviambimba Nujoungui Aboubakai		Agency for Space Studies and Observations			
	Yeshurun Alemayehu		Deputy Director General, Ethiopian Space Science and Technology Institute			
	Jean-Marc Astorg		Strategy Director, French Space Agency			
	Marglad Bencomo Noguera		Executive Director, Bolivarian Agency for Space Activities (Venezuela)			
	Rodrigo Da Costa		Executive Director, European Union Agency for the Space Programme			
09:55-11:30	Christyl C. Johnson		Deputy Director for Technology and Research Investments, Goddard Space Flight Center, National Aeronautics and Space Administration (United States)			
	Charles Maina Mwangi		Acting Director Space Sector and Technology Development, Kenya Space Agency			
	Giorgio Saccoccia		President, Italian Space Agency			
	Sherif Mohamed Sedky	Chief Executive Officer, Egyptian Space Agency				
11:30-11:45	Group Picture					
11:45-12:15	Coffee Break (sponsored by CNES) Ice Breaker					





12:15-12:30 12:30-12:45 12:45-13:00 13:00-13:15 13:15-13:30 14:30 14:30 14:30-14:45	Chair: Masami Onoda Rapporteur: Alma Okpalefe National Space Law as a key Access to Space Enabler Frequency allocations and the corresponding regulatory process for the registration and recording of frequency assignments The Role of Intellectual Property in Promoting Innovation and Access to Space Technologies Socio economic foundations for space programme	Yukiko Okumura Chuen Chern Loo Tomoko Miyamoto	United Nations Office for Outer Space Affairs International Telecommunication Union		
12:30-12:45 12:45-13:00 13:00-13:15 13:15-13:30 14:30 14:30 14:30-14:45	Enabler Frequency allocations and the corresponding regulatory process for the registration and recording of frequency assignments The Role of Intellectual Property in Promoting Innovation and Access to Space Technologies Socio economic foundations for space	Chuen Chern Loo	Affairs International Telecommunication		
12:45-13:00 13:00-13:15 13:15-13:30 13:30-14:30 14:30 14:30-14:45	regulatory process for the registration and recording of frequency assignments The Role of Intellectual Property in Promoting Innovation and Access to Space Technologies Socio economic foundations for space				
13:00-13:15	Innovation and Access to Space Technologies Socio economic foundations for space	Tomoko Miyamoto	1		
13:15-13:30 // 13:30-14:30 14:30 14:30-14:45 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14:30-15 14	•		World Intellectual Property Organization		
13:30-14:30 14:30 14:30-14:45	propramme	Claire Jolly	Organization for Economic Co- operation and Development		
14:30 (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14:45 (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14) (14:30-14:45 (14:30-14) (14:30-14:30-14) (14:30-14:45 (14:30-14) (14:30-14) (14:30-14:45 (14:30-14) (14:30-14) (14:30-14) (14:30-14) (14:30-14) (14:30-14) (14:3	An overview of ALCE and its connections with STI policies	Gustavo Alonso Cabrera Rodriguez	Latin-American and Caribbean Space Agency		
14:30-14:45	Lunch Break (sponsored by IAF)				
14:30-14:45	Chair: Pieter van Beekhuizen Rapporteur: Eden Abeselom Habteslasie				
14.45 15.00	Management of Space Exploration, Development and Scientific and Technological Cooperation in Space	Jesus Romero	Mexican Space Agency		
	Strategic Alliances – Key to bridging the Space Divide	Hebe Romero	Paraguay Space Agency		
15:00-15:15	The Recovery Observatory	Helene de Boissezon	French Space Agency		
	Jumpstarting the Philippines' Space Activities Through International Cooperation	Julie Ann Banatao	Philippines Space Agency		
15:30-15:45	Activities of the Egyptian Space Agency	Somaia Mohammed	Egyptian Space Agency		
	Activities of the Space Research and Technology Agency	Ismoil Rasulov	Space Research and Technology Agency (Uzbekistan)		
16:00-16:15	Coffee Break (sponsored by CNES)				
16:15	Chair: Alejandro Roman Rapporteur: Giovanna Estefania				
16:15-16:30	Space Diplomacy: A U.S. Perspective	JR Littlejohn	State Department, United States		
	The ESA solutions catalogue for the SDGs	Maria Gabriella Sarah	European Space Agency		
16:45-17:00	ASECNA (EGNOS - SBAS Use Cases)	Julien Lapie	Agency for Air Navigation Safety in Africa and Madagascar		
	The role of space sustainability for the space economy	Nicolas Peter	International Space University		
	Space Enabled integrated Environment- Vulnerability-Decision-Technology framework	Danielle Wood	Massachusetts Institute of Technology		
	Introduction to the University Space Engineering Consortium (UNISEC)	Rei Kawashima	UNISEC Global		
	The role of the youth in bridging the space divide	Hamza Hameed	Space Generation Advisory Council		
	- SGAC as an enabler for access to space for all.				
		Janine Geijsen	Spacebuzz		

No activities are planned after day 1







		DAY 2	
	ess to Space Enablers (Cont)		
8:30	Chair: Alejandro Roman Rapporteur: Giovan		
08:30-08:45	Access to Space for All	Jorge Del Rio Vera	United Nations Office for Outer Space Affairs
08:45-09:00	Building Nepal's Space Infrastructure and	Abhas Maskey	Antarikchya Pratisthan Nepal (Nepal Space
	Community from Ground-Up through a		Foundation)
	Structured Public-Private Partnership Approach		
09:00-09:15	The importance of inclusive outreach	Remco Timmermans	Spaceside OU
	ience, Technology and Innovation from Hyp		<u> </u>
9:15	Chair: Abhas Maskey Rapporteur: Madiha R		avity Experimentation
09:15-09:30	Spaceflight Associated Neuro-ocular	Scott Ritter	German Aerospace Center (Germany)
03.23 03.00	Syndrome (SANS)		Community to espace content (Community)
09:30-09:45	Utility of hypergravity as a novel tool in	Hosamani Ravikumar	University of Agricultural Sciences (India)
	inducing reliable phenotype/s for improving		
	crop plants – A relevance to terrestrial		
	agriculture		
09:45-10:00	Microgravity Ground Facility	Funmilola Oluwafemi	National Space Research and Development Agency
	Experimentation on Root Developments		(Nigeria)
	and Biochemical Characterization of		
10:00-10:15	Selected Vital Crops Space Studies Program on Microgravity	Nambiar Shrrirup	Politecnico di Torino (Italy)
10:00-10:15	Supporting the Advancement of Technology	Nambiar Shriirup	Politechico di Torino (italy)
	in the fields of Space Pharma and Space		
	Medicine		
10:15-10:30	Human Commercial Space Activities provide	Dorit Donoviel	Translational Research Institute for Space Health
	an Opportunity Platform for Human Health		(TRISH) at Baylor College of Medicine (United
	Discoveries		States)
10:30-10:45	Coffee Break (sponsored by CNES)		
Socion 2h, So	ience, Technology and Innovation from Sate	allita Davalanmant	
10:45	Chair: Umamaheswaran Raman Rapporteur:		
10:45-11:00	State of Art of Small Satellites Systems,	Chantal Cappelletti	University of Nottingham (United Kingdom)
10.45 11.00	Missions and Applications	Chantai Cappelletti	oniversity of Nottingham (officed Kingdom)
11:00-11:15	The First Tunisian Student Satellite	Hana Aouinet	High School of Engineering and Applied Technology
11.00 11.15		Trans 7 to amor	(ESPITA) (Tunisia)
11:15-11:30	Open-Sourcing of CubeSat Bus for Capacity	Tetsuhito Fuse	Kyushu Institute of Technology (Japan)
	Building aimed to Acquire Original Space		, , , , ,
	Development Capability		
11:30-11:45	NSSA Aman Payload	Yaqoob Alqassab	National Space Science Agency (Bahrain)
11:45-12:00	Promoting quality education through	Cecilia Marsicovetere	University of the Valley (Guatemala)
	CubeSat Quetzal-1, the first Guatemalan		
	CubeSat		
12:00-12:15	CubeSat as a Platform for space Engineering	Adrian Salces	Philippines Space Agency
	Education and Training in the Philippines		
12:15-12:30	Satellite technology at school. Awakening	Maximiliano Pisano	National Commission on Space Activities
	vocations		(Argentina)





12:30-12:45 12:45-13:00 13:00-13:15	Chair: Nomfuneko Majaja Rapporteur: Lily Ro International Space Exploration Coordination Group Benefits for the emerging countries of the exploration and use of the Moon with a perspective focused on coordination and cooperation Is it possible socialize the benefits of space exploration? (Policy aspects of space exploration)	Christian Lange Rosa Maria Michele Cristina Silva	International Space Exploration Coordination Group / Canadian Space Agency Mexican Space Agency
12:45-13:00 13:00-13:15	Coordination Group Benefits for the emerging countries of the exploration and use of the Moon with a perspective focused on coordination and cooperation Is it possible socialize the benefits of space exploration? (Policy aspects of space	Rosa Maria Michele Cristina Silva	Group / Canadian Space Agency
13:00-13:15	exploration and use of the Moon with a perspective focused on coordination and cooperation Is it possible socialize the benefits of space exploration? (Policy aspects of space	Michele Cristina Silva	Mexican Space Agency
	exploration? (Policy aspects of space		
		Melo	Brazilian Space Agency
	European Space Agency and Space Exploration	Thomas Weissenberg	European Space Agency
13:30-14:30	Lunch Break (sponsored by IAF)		
Session 3c: Science	ce, Technology and Innovation from Spa	ce Exploration	
14:30	Chair: Nomfuneko Majaja Rapporteur: Lily Ro	ospeen Asongfac	
	Science and Exploration for All: NASA's Transformation to Open Science	Christa Peters-Lidard	National Aeronautics and Space Administration (United States)
	The Vision & Activities of Emerging Space Agencies Working Group in ISECG	Soyoung Chung	International Space Coordination Group Korea Aerospace Research Institute
15:00-15:15	COSPAR Planetary Protection	Athena Coustenis	Committee on Space Research
:	Planetary Protection: Exploration of the Solar System in Support of Sustainable Space	Elaine Seasly	National Aeronautics and Space Administration (United States)
15:30-15:45	Space Renaissance for the Benefits of All	Bernard Foing	ILEWG LUNEX EuroMoonMars Earth Space Innovation & Space Renaissance International
15:45-16:00	No one shows a child the sky	Mae Jemison	100 Year Starship
16:00-16:15	Coffee Break (sponsored by CNES)		
16:15-17:00	Flash Round Discussion Session		
Closing Ceremony	у		
	Closing remarks by IAF	Pascale Ehrenfreund	President, International Astronautical Federation
17:15-17:30	Closing remarks by CNES	Phlippe Baptiste	President, French Space Agency
17:30-17:45	Closing remarks by UNOOSA	Niklas Hedman	Acting Director, United Nations Office for Outer Space Affairs
17:45-18:00	Group Picture		
	END O	F THE WORKSHOP	

18:30 Participants are invited to a cocktail organized by the International Astronautical Federation

