





PROGRAMME

United Nations/United Arab Emirates High Level Forum

"Space as a driver for socio-economic sustainable development"

Organized by the

United Nations Office for Outer Space Affairs

and the

United Arab Emirates

Co-organized and co-sponsored by

Secure World Foundation,

Sierra Nevada Corporation's Space Systems and International Committee on Global Navigation Satellite Systems

Hosted by the

United Arab Emirates Space Agency and the Mohammed Bin Rashid Space Centre

20 - 24 November 2016

Dubai, United Arab Emirates

Sunday, 20 November 2016		
Venue: Grand H	Venue: Grand Hyatt Dubai Hotel Conference Centre, Sheikh Rashid Road, Oud Metha Road	
08:00 – 17:30	On-site registration	
	Opening Ceremony and High Level Panel	
Gra	nd Hyatt Dubai Hotel Conference Centre: Al Ameera Ball Room	
09:00	Welcome and opening addresses	
	Message by the UN SG	
	 Khalifa AL-ROMAITHI, United Arab Emirates Space Agency 	
	■ Simonetta DI PIPPO, Director, United Nations Office for Outer Space Affairs	
	 Yury FEDOTOV, Director-General, United Nations Office at Vienna (video message) 	
	 Michael SIMPSON, Executive Director, Secure World Foundation 	
	■ Mark SIRANGELO, Sierra Nevada Corporation's Space Systems	
09:45	 Setting the scene, Simonetta DI PIPPO, United Nations Office for Outer Space Affairs 	
10:15	■ Keynote presentation, Scott KELLY, United States of America	
10:45 – 11:15	Coffee Break (Press-conference: By invitation only)	

High-Level Panel

Organized with participation of top-level representatives of space agencies and other relevant national/regional/international institutions and organizations from both space-faring and non-space faring countries, establishing a direct debate with the HLF participants on the role of space science and technology in fostering global development.

Panel 1: Global Challenges and Space Technology: Towards SPACE2030

Moderator: Simonetta DI PIPPO, United Nations Office for Outer Space Affairs

11:15	Speakers:
	■ Jean-Yves LE GALL, National Centre for Space Studies, France
	Yanhua WU, China National Space Administration, China
	 Gale ALLEN, National Aeronautics and Space Administration, United States
	 Pascale EHRENFREUND, German Aerospace Centre, Germany
	 Mohammed Nasser AL-AHBABI, United Arab Emirates Space Agency, United Arab Emirates
	 Roscosmos State Corporation for Space Activities, Russian Federation

12:30 – 14:00	Group Photo/Lunch Break
High-Level Panel (continues) Panel 1 (continues): Global Challenges and Space Technology: Towards SPACE2030	
14:00	Speakers:
	 Francisco Javier MENDIETA-JIMENEZ, Mexican Space Agency, Mexico
	■ Carlo des DORIDES, European GNSS Agency, Czech Republic
	■ Roberto BATTISTON, Italian Space Agency, Italy
	Xinjun LI, Asia-Pacific Space Cooperation Organization
	 Avi BLASBERGER, Israel Space Agency, Israel
	■ Chris LEE, United Kingdom Space Agency, United Kingdom
	■ Marius-Ioan PISO, Romanian Space Agency, Romania
15:15 – 15:35	Coffee Break
Panel 2: N	Interest of the control of t
Moderators: Nik Affairs	clas HEDMAN and Luc ST-PIERRE, United Nations Office for Outer Space

15:35 - 17:30**Speakers:** Won-soo KIM, United Nations Office for Disarmament Affairs Francois RANCY, International Telecommunication Union Bertrand FROT, United Nations Development Programme Giovanni RUM, Group on Earth Observation Lennard FISK, Committee on Space Research Dominique TILMANS, EURISY Jean-Jacques TORTORA, European Space Policy Institute Soichi NOGUCHI, Association of Space Explorers Steve EISENHART, Space Foundation Giovanni Sylos LABINI, European Association of Remote Sensing 17:30 Adjourn 19:00 **Welcome Dinner** (Presentation by Taner KODANAZ, Digital Globe)

Women-in-Space Breakfast and Networking

Open to all participants, this event designed to foster the interests of women working in space

Monday, 21 November 2016

science and technology, and to advance women through initiatives and leadership development, as well as networking.

This event is sponsored by Women-in-Aerospace Europe (WIA-E)

Moderator: Xinmin MA. China and André Joào RYPL. Brazil

Moderator: Christiane LECHTENBOERGER, German Aerospace Centre

08:00 - 08:45	Speakers:
	■ Simonetta DI PIPPO, United Nations Office for Outer Space Affairs
	 Sumaya AL HAJERI, United Arab Emirates Space Agency, United Arab Emiraes
	 Mohamed Bin Rashid Space Centre, United Arab Emirates
	 Gale ALLEN, National Aeronautics and Space Administration, United States
	■ Dominique TILMANS, <i>EURISY</i>

Breakout session 1 – Space Economy

"The full range of activities and use of resources that create and provide value and benefits to human beings in the course of exploring, understanding and utilizing space". Economic growth is driven by technology innovation, and space is innovation by definition, because it is at the edge of what is possible for humanity to do and develop.

Moderator. Atmir	un MA, Cuma ana Anare Joao KII L, Drazu
Rapporteur: Man	kus WOLTRAN, United Nations Office for Outer Space Affairs
09:00	■ ESA's concept of "Space 4.0", Piero MESSINA, European Space Agency
09:15	 Field test and experiment in analogue environments: the case of the Ibn Battuta Centre, Morocco, Gian Gabriele ORI, Morocco
09:30	 Measuring value; Defining benefit, Michael SIMPSON, Secure World Foundation
09:45	 Space medicine and space technology for socioeconomic dedication, Chiaki MUKAI, Japan Aerospace Exploration Agency, Japan
10:00	 Space activities in Morocco for socio-economic development, Driss EL HADANI, Royal Centre For Remote Sensing, Morocco
10:15	 Contribution of China's space industry to the socio-economic development of international community, Zhou WEI, China Great Wall Industry Corporation
10:30	 Khaled AL-HASHEMI, United Arab Emirates Space Agency, United Arab Emirates
10:45 – 11:05	Coffee Break
Breakout session 1 – Space Economy (continues)	
11:05	■ Claire JOLLY, OECD

11:20	■ Masood M. SHARIF, CEO, YAHSAT
11:35 – 12:30	Discussions
12:30 - 13:30	Lunch Break
	Breakout session 2 – Space Society
Refers to a society, which carries out its core functions while making the best use of space technologies and space-based services and applications.	
Moderator: Nas	er AI RASHEDI United Arab Emirates and William WEISER RAND

Moderator: Naser AL RASHEDI, United Arab Emirates and William WELSER, RAND Corporation

Rapporteur: Romana KOFLER, United Nations Office for Outer Space Affairs

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13:30	 Open Universe Initiative, Pablo GIOMMI, Italian Space Agency, Italy
13:45	Steve EISENHART, Space Foundation
14:00	■ Space sciences for the benefit of society, <i>Pascal MICHEL</i> , <i>Canada</i>
14:15	 Space assets and the sustainable development goals, Michael SIMPSON, Secure World Foundation
14:30	 Matar AL SUWAIDI, United Arab Emirates Space Agency, United Arab Emirates
14:45	 Evolution of decision support in public service: Application of CHEOS, Xing JIN, China National Space Administration, China
15:00	 Sheikha AL MASKARI, United Arab Emirates Space Agency, United Arab Emirates
15:15 - 15:35	Coffee Break
Breakout session 2 – Space Society (continues)	
15:35	 Designing a Moon Village for all humanity, Angeliki KAPOGLOU, Greece
15:50	 Biofabrication in space: new opportunities for global health, Lorenzo MORONI, the Netherlands
16:05	 Shared vision, common action - stronger capacity building to support a sustainable society, Minoo RATHNASABAPATHY, Space Generation Advisory Council
16:20	■ Samer HALAWI, Thuraya, United Arab Emirates
16:35 – 17:30	 Discussions
17:30	Adjourn
17:30 – 18:00	(Informal meeting of the sessions moderators/rapporteurs to prepare conclusions and recommendations for the Forum's consideration).
Tuesday, 22 November 2016	

Breakout session 3 – Space Accessibility

Refers to all user communities and decision-makers being able, on an equal basis, to benefit from and use space technologies and space-based data. "Data accessibility", a subset, promotes principles, policies and practices that ensure that all countries can benefit and make equal use of space science and technology applications and space-based data, information and products.

Moderator: Luciano SACCANI, Sierra Nevada Corporation's Space Systems and Michael SIMPSON, Secure World Foundation

Rapporteur: Sharafat GADIMOVA, United Nations Office for Outer Space Affairs

09:00	■ The contribution of European Earth Observation industries to the global challenges, <i>Giovanni Sylos LABINI, EARSC</i>
09:15	 How the Dream Chaser can allow countries to quick start a domestic space program, Luciano SACCANI, Sierra Nevada Corporation's Space Systems
09:30	 Small satellite technology and space capability, Christopher JOHNSON, Secure World Foundation
09:45	 GEO contribution to UNISPACE+50: data accessibility as a target for a joint UNOOSA/GEO initiative, Giovanni RUM, Group on Earth Observations
10:00	 Science in space: Space experiments for sustainable development, Matthias SIMNACHER, Airbus DS
10:15	 Recent developments of China's space activities, Hui JIANG, China
10:30	■ Taner KODANAZ, Digital Globe
10:45 – 11:05	Coffee Break
	Breakout session 3 – Space Accessibility (continues)
11:05	 Proposed global partnership for data accessibility and CANEUS small satellite design and construction facilities to serve the needs of UN Member Nations, <i>Milind PIMPRIKAR</i>, <i>CANEUS</i>
11:20	 Artiom ANISIMOV, EOS Data Analytics
11:35 – 12:30	 Discussions
12:30 - 13:30 <i>I</i>	Lunch Break

Breakout session 4 – Space Diplomacy

For the purpose of fostering socio-economic sustainable development, defined as cooperation among nations in using space technologies and applications to address common challenges facing humanity and to build constructive, knowledge-based partnerships.

Moderator: Kenneth HODGKINS, United States of America and Jean-Jacques TORTORA, European Space Policy Institute

Rapporteur: Niki	las HEDMAN, United Nations Office for Outer Space Affairs
13:30	 International cooperation in promoting a global navigation satellite system of systems, Sharafat GADIMOVA, ICG Executive Secretariat, United Nations Office for Outer Space Affairs
13:45	 Existing global space governance and the way forward, Ram JAKHU, Canada
14:00	 Perspectives on sustainable space activities, Christopher JOHNSON, Secure World Foundation
14:15	 COPUOS' thematic priority area of global partnership in space exploration and innovation, Kenneth HODGKINS, United States
14:30	 Designing space policies in emerging countries: main challenges, Magda COCCO, VdA
14:45	 The goals, challenges and limitations of space diplomacy, André Joào RYPL, Brazil
15:00	 Naser AL RASHEDI, United Arab Emirates
15:15 - 15:35	Coffee Break
	Breakout session 4 – Space Diplomacy (continues)
15:35	Breakout session 4 – Space Diplomacy (continues) • Space diplomacy in China: Policy and practice, <i>Xinmin MA</i> , <i>China</i>
15:35 15:50	
	 Space diplomacy in China: Policy and practice, <i>Xinmin MA</i>, <i>China</i> Space diplomacy: Useful initiatives for taking international cooperation beyond the skies, <i>Rosa Maria RAMIREZ DE</i>
15:50	 Space diplomacy in China: Policy and practice, <i>Xinmin MA</i>, <i>China</i> Space diplomacy: Useful initiatives for taking international cooperation beyond the skies, <i>Rosa Maria RAMIREZ DE ARELLANO Y HARO</i>, <i>Mexico</i> Global space governance for sustainable development, <i>Olga</i>
15:50 16:05	 Space diplomacy in China: Policy and practice, <i>Xinmin MA</i>, <i>China</i> Space diplomacy: Useful initiatives for taking international cooperation beyond the skies, <i>Rosa Maria RAMIREZ DE ARELLANO Y HARO</i>, <i>Mexico</i> Global space governance for sustainable development, <i>Olga STELMAKH</i>, <i>Canada</i> OG SUMMIT®– Shuttle diplomacy in a new space age, <i>Namira</i>
15:50 16:05 16:20	 Space diplomacy in China: Policy and practice, Xinmin MA, China Space diplomacy: Useful initiatives for taking international cooperation beyond the skies, Rosa Maria RAMIREZ DE ARELLANO Y HARO, Mexico Global space governance for sustainable development, Olga STELMAKH, Canada OG SUMMIT®– Shuttle diplomacy in a new space age, Namira SALIM, Space Trust

Wednesday, 23 November 2016

Roundtable Discussion Session:

Partnership with industries, private sector and non-governmental organizations

The primary purpose is to discuss possible future collaboration schemes and partnerships with the United Nations, to foster dialogue with the space industry, the private sector and non-governmental organizations in the framework of the Committee on the Peaceful Uses of Outer Space, and to promote scientific and technological development, capacity-building and a more sustainable space economy, in preparation for UNISPACE+50.

09:00	Panelists:
	■ Introduction Remarks, Simonetta DI PIPPO, United Nations Office for Outer Space Affairs
	 Michael SIMPSON, Secure World Foundation
	 Mark SIRANGELO, Sierra Nevada Corporation's Space Systems
	■ Giovanni Sylos LABINI, European Association of Remote Sensing
	 Steve EISENHART, Space Foundation
	■ Magda COCCO, <i>VdA</i>
	 William WELSER, RAND Corporation
	■ Samer HALAWI, <i>Thuraya</i>
10:30 - 10:50	Coffee Break
	Space Activities: National Programmes and Case Studies
Moderator: Ang	geliki KAPOGLOU, Greece
Rapporteur: Mi	noo RATHNASABAPATHY, Space Generation Advisory Council
10:50	■ The importance of space activities for the socioeconomic development of Mexico, <i>Balan Alejandro GUTIÉRREZ HERRERA</i> , <i>Mexico</i>
11:05	Space technology in Mongolia, Oyuntsetseg BAASANJAV, Mongolia
11:20	 Space technology and applications for wildlife management and protecting biodiversity, Margaret MAIMBA, Kenya
11:35	 Characterization of locations and durations of ionospheric scintillation over the equatorial region, <i>Joseph OUKO OLWENDO</i>, <i>Kenya</i>
11:50	 Challenges and prospects for sustainable development in Africa, Adamou BAMANGA, Cameroon
12:05	 Space Research for Sustainable Development in Sudan, Ms. Rayan IMAM, Sudan
12:20	■ Empowering women for space science education for socio- economic sustainable development, <i>Manisha DWA</i> , <i>Nepal</i>
12:35	■ Life in space for life on earth, Nandu GOSWAMI, Austria
12:50 - 14:00	Lunch Break
14:00	Technical Tour: An informative technical tour of the Mohammed Bin Rashid Space Centre will be organized for the Forum participants.

Thursday, 24 November 2016

Roundtable Discussion Session:

UNISPACE+50 - The way ahead

The primary purpose is to address the future global space governance leading up to the fiftieth anniversary of the First United Nations Conference on the Exploration and Peaceful Uses of Outer Space "UNISPACE+50" in 2018.

Moderator: David KENDALL, Canada

Rapporteur: Niklas HEDMAN, United Nations Office for Outer Space Affairs	
09:00	Panelists:
	 Michael SIMPSON, Secure World Foundation;
	 Naser AL RASHEDI, United Arab Emirates;
	■ Luciano SACCANI, Sierra Nevada Corporation's Space Systems
	■ Rosa Maria RAMIREZ DE ARELLANO Y HARO, <i>Mexico</i>
10:00 - 10:20	Coffee Break
10:20 – 11:20	Capacity Building and Information Dissemination
Moderator: Mar	garet MAIMBA, Kenya
Rapporteur: Ma	nisha DWA, Nepal
10:20	■ ARCSSTE-E Education programme: Best practices, challenges and future projections, <i>Mr. Ganiyu AGBAJE, ARCSSTE-E, Nigeria</i>
10:35	■ The significance of social media to increase public awareness of the benefits of space, <i>Remco TIMMERMANS</i> , <i>Netherlands</i> TBC
10:50	■ TBC
11:05	■ TBC
11:20 – 12:00	(Informal meetings of the breakout sessions to prepare results of their sessions, including the draft recommendations to be included in the Dubai Declaration)
12:00 – 13:30	Plenary Closing Session and Concluding Remarks
12:00 – 12:40	Summaries of the breakout sessions
	 Breakout session 1: Space Economy
	 Breakout session 2: Space Society
	 Breakout session 3: Space Accessibility
	 Breakout session 4: Space Diplomacy
12:40	Summary of HLF: Dubai Declaration (with recommendations consolidated at the breakout sessions and conclusions)

	Concluding Remarks
	 Simonetta DI PIPPO, United Nations Office for Outer Space Affairs Mohammed Nasser AL-AHBABI, United Arab Emirates Space Agency, United Arab Emirates
13:30	Adjourn