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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	Grand 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 I aval Danal	

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	
Moderator: Sime	onetta DI PIPPO, United Nations Office for Outer Space Affairs
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	⊥ Iaking a difference: Working Together Towards Sustainable Space
Moderators: Nik Affairs	las 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)
Monday, 21 Nov	vember 2016
	Women-in-Space Breakfast and Networking

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: 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, EURISY
	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: Xinmin MA, China and André Joào RYPL, Brazil

Rapporteur: Markus WOLTRAN, United Nations Office for Outer Space Affairs

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 Grea Wall Industry Corporation	11	, 55 5 1 55
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World Foundation 09:45 Space medicine and space technology for socioeconomic dedication, <i>Chiaki MUKAI, Japan Aerospace Exploration Agency, Japan</i> 10:00 Space activities in Morocco for socio-economic development, <i>Dris. EL HADANI, Royal Centre For Remote Sensing, Morocco</i> 10:15 Contribution of China's space industry to the socio-economic development of international community, <i>Zhou WEI, China Grea Wall Industry Corporation</i> 10:30 Khaled AL-HASHEMI, United Arab Emirates Space Agency, United Arab Emirates 10:45 – 11:05 Coffee Break	09:15	There test and experiment in analogue environments, the case of the
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	10:45 - 11:05	Coffee Break
11:05 • Claire JOLLY, OECD		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: Naser AL RASHEDI, United Arab Emirates and William WELSER, RAND Corporation

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

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, <i>Xing JIN, China National Space Administration, China</i>
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, <i>Minoo RATHNASABAPATHY</i>, <i>Space</i> <i>Generation Advisory Council</i>
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, <i>Luciano SACCANI, Sierra Nevada Corporation's Space Systems</i>
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, <i>Giovanni RUM, Group on Earth Observations</i>
10:00	 Science in space: Space experiments for sustainable development, Matthias SIMNACHER, Airbus DS
10:15	• Recent developments of China's space activities, <i>Hui JIANG, China</i>
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, CANEUS</i>
11:20	Artiom ANISIMOV, EOS Data Analytics
11:35 – 12:30	 Discussions
12:30 - 13:30	Lunch Break
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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: Nik	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, <i>Ram JAKHU, Canada</i>
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, <i>Kenneth HODGKINS, United States</i>
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	• Space diplomacy in China: Policy and practice, <i>Xinmin MA</i> , <i>China</i>
15:50	 Space diplomacy: Useful initiatives for taking international cooperation beyond the skies, <i>Rosa Maria RAMIREZ DE</i> <i>ARELLANO Y HARO, Mexico</i>
16:05	 Global space governance for sustainable development, Olga STELMAKH, Canada
16:20	 OG SUMMIT®– Shuttle diplomacy in a new space age, Namira SALIM, Space Trust
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).
	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, VdA
	William WELSER, RAND Corporation
	 Samer HALAWI, <i>Thuraya</i>
10:30 - 10:50	Coffee Break
	Space Activities: National Programmes and Case Studies
Moderator: An	geliki KAPOGLOU, Greece
Rapporteur: M	inoo RATHNASABAPATHY, Space Generation Advisory Council
10:50	 The importance of space activities for the socioeconomic development of Mexico, Balan Alejandro GUTIÉRREZ HERRERA, Mexico
11:05	 Space technology in Mongolia, Oyuntsetseg BAASANJAV, Mongolia
11:20	 Space technology and applications for wildlife management and protecting biodiversity, <i>Margaret MAIMBA</i>, <i>Kenya</i>
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, <i>Ms. Rayar</i> <i>IMAM</i> , <i>Sudan</i>
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 Rashia Space Centre will be organized for the Forum participants.
	Adjourn

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, Mexico
10:00 - 10:20	Coffee Break
10:20 - 11:20	Capacity Building and Information Dissemination
Moderator: Marg	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, 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