

**United Nations/Germany High Level Forum:
The way forward after UNISPACE+50 and on Space2030**

13 – 16 November 2018 in Bonn, Germany

Tuesday, 13th November 2018

8:00 – 9:00	<i>Registration and Welcome Coffee</i>	
OPENING AND WELCOME REMARKS		
9:00 – 9:10	Welcoming remarks <i>Mr. Uli BOBINGER, Master of Ceremony</i>	
9:10 – 9:40	Opening addresses <i>Mr. Thomas JARZOMBEK, Federal Government Coordinator of German Aerospace Policy</i> <i>Mr. Niklas HEDMAN, UNOOSA</i> <i>Mr. Walther PELZER, Executive Board Member, DLR Space Administration</i> <i>Mr. Reinhard LIMBACH, Deputy Mayor of Bonn</i>	
9:40 – 10:30	Setting the Scene The evolution of the High-Level Forum <i>Mr. Markus WOLTRAN, UNOOSA</i> The Space2030-Agenda: Current Status and the Way Forward <i>Mr. Niklas HEDMAN, UNOOSA</i>	
10:30 – 11:00	<i>Coffee Break</i>	
SESSION 1: GLOBAL PARTNERSHIP IN SPACE EXPLORATION AND INNOVATION		
Moderator: <i>Mr. Uli BOBINGER, Master of Ceremony</i>		Rapporteur: <i>Mr. Ian FREEMAN, UNOOSA</i> <i>Ms. Maruska STRAH</i>
11:00 – 11:15	The European Space Science Committee on Global Partnership in Space Exploration <i>Ms. Athena COUSTENIS, Paris Observatory</i>	
11:15 – 11:30	The NASA Exploration Campaign <i>Mr. Jim GREEN, NASA</i>	
11:30 – 11:45	Legal aspects of commercial activities in the field of manned space flights <i>Mr. Igor POROKHIN, Inspace Consulting</i>	
11:45 – 12:00	Global Partnerships: No One Left Behind <i>Mr. John ROTH, Sierra Nevada Corporation</i>	
12:00 – 12:15	Improving Health Span in Space and on Earth <i>Mr. Jens JORDAN, DLR</i>	
12:15 – 12:30	<i>Mr. Jiwei CHEN, ISSE</i>	
12:30 – 12:45	Open Data in Space Sciences: Perspectives and opportunities for development <i>Mr. Ulissess BARRES DE ALMEIDA, Brazilian Center for Physics Research</i>	
12:45 – 13:00	Legal Regimes for a Sustainable Space Resource Utilization <i>Mr. Georgios KYRIAKOPOULOS, National and Kapodistrian University of Athens</i>	
13:00	<i>Group Picture</i>	
13:05 – 14:00	<i>Lunch</i>	

SESSION 2: FURTHERING SUSTAINABLE DEVELOPMENT AND STRENGTHENING INTERNATIONAL COOPERATION ON GLOBAL HEALTH AND LOW-EMISSION AND RESILIENT SOCIETIES	
Moderator: Mr. Uli BOBINGER, Master of Ceremony	Rapporteur: Mr. Radu BOTEZ, UNOOSA Ms. Patricia ZUNDRITSCH, UNOOSA
14:00 – 14:15	<i>Mr. Godstime JAMES, NASRDA / Mr. Juan-Carlos VILLAGRAN, UNOOSA</i>
14:15 – 14:30	International Cooperation for Animal Research Using Space (ICARUS) <i>Mr. Martin WIKELSKI, Max Planck Institute for Ornithology</i>
14:30 – 14:45	Satellite Applications for Development Cooperation <i>Ms. Antje HECHELTJEN, German Agency for International Cooperation</i>
14:45 – 15:00	Earth Observation to support sustainable development - providing objective evidence for development cooperation <i>Mr. Jonas FRANKE, Remote Sensing Solutions</i>
15:00 – 15:15	Earth Observation, a game changer for the 2030 Agenda on sustainable development <i>Mr. Marc PAGANINI, ESA</i>
15:15 – 15:30	UNOOSA and SDGs <i>Mr. Hui DU, UNOOSA</i>
15:30 – 16:00	<i>Coffee Break</i>
SESSION 2 CONTINUES	
16:00 – 16:15	Space Agencies' Contribution to Tackling to the Climate Change <i>Mr. Kazuo TACHI, JAXA</i>
16:15 – 16:30	UN Sustainable Development Goals – Indonesian national monitoring activities and international contribution potential of weather and cloud independent radar satellite monitoring and services <i>Mr. Alexander KAPTEIN, Airbus / Ms. Orbita ROSWINTIARTI, LAPAN</i>
16:30 – 16:45	Space Technologies Application Micros Studies in Global Health for Sustainable Development: Microgravity, Microplastics, Microbiology <i>Ms. Funmilola OLUWAFEMI, National Space Research and Development Agency</i>
16:45 – 17:00	Reusable cruise rocket for urgent cargo delivery in case of disaster <i>Mr. Roman MYKHALCHYSHYN, Yuzhnoye SDO</i>
17:00 – 17:15	Advancing Health Related Sustainable Development Goals through Space Science, Technology and Applications <i>Mr. Jason HATTON, ESA / Mr. Ramesh KRISHNAMURTHY, WHO</i>
17:15 – 17:30	Space Climate Observatory <i>Ms. Selma CHERCHALI, CNES</i>
17:30 – 17:45	The Use of Space Technologies in Enhancing International Regimes & Disaster Preparedness <i>Ms. Sze Wai CHIU, University of Oxford</i>
17:45 – 18:00	<i>Q&A with audience</i>
18:00 – 21:00	<i>Reception at Roof Top Bar Langer Eugen</i>

Wednesday, 14th November 2018

8:00 – 9:00	<i>Registration and Welcome Coffee</i>	
SESSION 3: LEGAL REGIME OF OUTER SPACE AND GLOBAL SPACE GOVERNANCE		
Moderator: Mr. Uli BOBINGER, Master of Ceremony		Rapporteur: Mr. Bernhard SCHMIDT-TEDD, DLR Ms. Scarlet WAGNER, DLR
9:00 – 9:15	Future Scenarios of space diplomacy and international relations <i>Ms. Sumaya AL HAJERI, UAE Space Agency</i>	
9:15 – 9:30	The Guidance Document to the five UN Treaties and Global Governance of Space Activities <i>Mr. Bernhard SCHMIDT-TEDD, DLR</i>	
9:30 – 9:45	Unearthing Outer Space through Anthro-po-legal Perspectives <i>Mr. Bayar GOSWAMI, McGill University</i>	
9:45 – 10:00	The institutions for regional space cooperation <i>Mr. Marco FERRAZZANI, ESA</i>	
10:00 – 10:15	UNIDROIT and the Financing of the Space Industry <i>Mr. Ignacio TIRADO, UNIDROIT</i>	
10:15 – 10:30	NewSpace – Legal Issues <i>Mr. Oliver HEINRICH, BHO-Legal</i>	
10:30 – 10:45	A Choice Between Universal and Particular, and Between Hard and Soft Law? – the LSC Chair’s view <i>Mr. Andzej MISZTAL, Ministry of Foreign Affairs of Poland</i>	
10:45 – 11:00	<i>Coffee Break</i>	
SESSION 4: ENHANCED INFORMATION EXCHANGE ON SPACE OBJECTS AND EVENTS AND AN INTERNATIONAL FRAMEWORK FOR SPACE WEATHER SERVICES		
Moderator: Mr. Uli BOBINGER, Master of Ceremony		Rapporteur: Ms. Sharafat GADIMOVA, UNOOSA Mr. Peter STUBBE, DLR
11:00 – 11:15	International Committee on Global Navigation Satellite Systems: Space Weather, <i>Ms. Sharafat GADIMOVA, UNOOSA</i>	
11:15 – 11:30	ScOSA: A Space Weather Tolerant High-Performance Onboard Computer for Satellites <i>Mr. Rolf HEMPEL, DLR</i>	
11:30 – 11:45	Multi-criteria approach for minimizing the space weather risk on critical infrastructure <i>Ms. Olga SOKOLOVA, Peter the Great St. Petersburg Polytechnic University</i>	
11:45 – 12:00	Space Debris-related Activities at ESA <i>Mr. Holger KRAG, ESA</i>	
12:00 – 12:15	Expanded International Coordination for Space Weather in the UN Context Fulfilling the promise of UNISPACE+50 <i>Mr. Hermann OPGENOORTH, Swedish Institute of Space Physics</i>	
12:15 – 12:30	The need for enhanced information exchange on space objects and events <i>Mr. Thomas SCHILDKNECHT, University of Bern</i>	

12:30 – 12:45	Registration of Space Objects with the Secretary-General <i>Mr. Niklas HEDMAN, UNOOSA</i>
12:45 – 13:00	Q&A with audience
13:00 – 14:00	Lunch
SESSION 5: CAPACITY-BUILDING FOR THE 21ST CENTURY	
Moderator: Mr. Uli BOBINGER, Master of Ceremony	Rapporteur: Mr. Hui DU, UNOOSA Ms. Gina PETROVICI, DLR
14:00 – 14:15	Keynote: <i>Mr. Matthias MAURER, ESA</i>
14:15 – 14:30	ZFL of Uni Bonn and UN-SPIDER: Joining forces to enhance the use of space-based information in Africa <i>Mr. Juan-Carlos VILLAGRAN, UNOOSA / Mr. Klaus GREVE, University Bonn</i>
14:30 – 14:45	Space Law Capacity Building in Spain and Latin America <i>Mr. Rafael MORO-AGUILAR, Florida International University</i>
14:45 – 15:00	UNDP – UNOOSA building capacities in partnership <i>Mr. Bertrand FROT, UNDP</i>
15:00 – 15:15	Space 2030 - Space as a Driver for Peace, <i>Ms. Namira SALIM, Spacetrust</i> My Planet, My Future - Space for the Sustainability: A Unique Proven Tool for National, Regional and Global Capacity Advancement <i>Mr. Milind PIMPRIKAR, CANEUS / Mr. Joachim POST, DLR</i>
15:15 – 15:30	The Space Generation Advisory Council and Capacity Building: From UNISPACE+50 Toward the Space 2030 Agenda <i>Ms. Clémentine DECOOPMAN, SGAC</i>
15:30 – 16:00	Coffee Break
SESSION 5 CONTINUES	
16:00 – 16:15	ESA Catalogue of activities supporting UN SDGs <i>Ms. Isabelle DUVAUX-BECHON, ESA / Ms. Funmilayo ERINFOLAMI, African Regional Centre for Space Science and Technology Education</i>
16:15 – 16:30	INNOspace – Enabling Innovation and cross-sectoral Cooperation <i>Ms. Franziska ZEITLER, DLR</i>
16:30 – 16:45	Stuttgart University's reliable, high-performance small satellite platform "Flying Laptop" <i>Ms. Sabine KLINKNER, University of Stuttgart</i>
16:45 – 17:00	Capacity Building in Space Technology for Developing Countries - Kenya's Perspective <i>Mr. John KIMANI, Kenya Space Agency</i>
17:00 – 17:15	Models for Universities to Partner with Government and Entrepreneurs to apply space technology in Support of the SDGs <i>Ms. Danielle WOOD, Massachusetts Institute of Technology</i>
17:15 – 17:30	Space Based Applications: A sustainable Tool for Human to Achieve the SDGs <i>Ms. Bolo BASUTI, Botswana International University of Science and Technology</i>
17:30 – 18:30	POSTER SESSION

Thursday, 15th November 2018

8:00 – 9:00	Registration and Welcome Coffee	
OPENING AND WELCOME REMARKS		
9:00 – 9:30	Introductory remarks Mr. Walther PELZER, <i>Executive Board Member, DLR Space Administration</i> Ms. Simonetta DI PIPPO, <i>Director, UNOOSA</i> Mr. Jan WÖRNER, <i>Director-General, ESA</i> Mr. Stefan KRUSCHKE, <i>Deputy Head Liaison Office for the UN Campus Bonn</i>	
HIGH LEVEL PANEL I: SPACE ECONOMY – DEVELOPING SPACE-DERIVED ECONOMIC BENEFITS		
Chair: Mr. Oliver HEINRICH, BHO-Legal		Rapporteur: Mr. Hui DU, UNOOSA Ms. Scarlet WAGNER, DLR
9:30 – 9:45	Keynote: Mr. Thomas JARZOMBEK, Federal Government Coordinator of German Aerospace Policy	
9:45 – 10:30	UAE National Space Programme and Mars Science City <i>Mr. Salem AL MARRI, MBRSC</i>	
	Space Big Data for developing countries/Ethiopia <i>Mr. Shumete GIZAW, State Minister for Science and Technology, Ethiopia</i>	
	Bartolomeo on the Space Station: Affordable, sustainable and fast economic benefits <i>Mr. Akos HEGYI, Airbus</i>	
	The role of Space Technologies in Sustainable Development Support Projects <i>Ms. Imme SCHOLZ, Representative from German Development Institute</i>	
	Action Intelligence Policy Platform for Sustainable Development <i>Mr. Anond SNIDVONGS, GISTDA</i>	
	<i>Mr. Nuno NUNES, International Organization for Migration</i>	
10:30 – 11:00	Discussion and recommendations	
11:00	Group Picture	
11:05 – 11:30	Coffee Break	
HIGH LEVEL PANEL II: SPACE SOCIETY – ADVANCING THE SOCIETAL BENEFITS OF SPACE-RELATED ACTIVITIES		
Chair: Mr. Juan-Carlos VILLAGRAN, UNOOSA		Rapporteur: Mr. Radu BOTEZ, UNOOSA Mr. Joachim POST, DLR
11:30 – 12:30	The pale blue dot - fragile and valuable <i>Mr. Jan WÖRNER, ESA</i>	
	Greenhouse Gases Observation from the Space: Japan's Contribution to Implementation of Paris Agreement <i>Mr. Michihiro Oi, Representative Japanese Ministry of the Environment</i>	

11:30 – 12:30	Exploring the unknown for the benefit of humankind <i>Mr. Jim GREEN, NASA</i>
	<i>Mr. Lionel SUCHET, CNES</i>
	Earth observation data for safeguarding the biosphere – new horizons and old challenges <i>Mr. Christoph HÄUSER, Museum für Naturkunde Berlin</i>
	<i>Ms. Fiammetta DIANI, GSA</i>
	Space is where you least expect it! <i>Ms. Dominique TILMANS, EURISY</i>
12:30 – 13:00	<i>Discussion and recommendations</i>
13:00 – 14:00	<i>Lunch</i>
SIDE EVENTS	
14:00 – 18:00	Technical Tour to DLR & ESA Köln-Porz
18:30 – 23:00	Gala Dinner at La Redoute, Bonn Bad-Godesberg

Friday, 16th November 2018

8:00 – 9:00	<i>Registration and Welcome Coffee</i>	
HIGH LEVEL PANEL III: SPACE ACCESSIBILITY – ACCESS TO SPACE FOR ALL		
Chair: Mr. Kai-Uwe SCHROGL, ESA		Rapporteur: Mr. Aimin NIU, UNOOSA Ms. Gina PETROVICI, DLR
9:00 – 10:00	<i>Ms. Tania RÖDIGER-VORWERK, Ministry of Economic Cooperation and Development</i>	
	International cooperation in space: SDG#17 <i>Mr. Luciano SACCANI, Sierra Nevada Corporation</i>	
	The Open Universe Initiative <i>Mr. Paolo GIOMMI, ASI</i>	
	Research and Education at the Bremen Center of Applied Space Technology and Microgravity <i>Mr. Claus LÄMMERZAHL, ZARM</i>	
	Access to space through Kibo utilization <i>Mr. Norishige KANAI, JAXA</i>	
	Enhance Space Accessibility, China's Perspectives and Practice <i>Mr. Haiwen WU, Chinese Permanent Mission</i>	
	Access to Space Initiative <i>Ms. Simonetta DI PIPPO, UNOOSA</i>	
10:00 – 10:30	<i>Discussion and recommendations</i>	
10:30 – 11:00	<i>Coffee Break</i>	

HIGH LEVEL PANEL IV: SPACE DIPLOMACY – BUILDING PARTNERSHIPS AND STRENGTHENING INTERNATIONAL COOPERATION AND THE GOVERNANCE OF SPACE ACTIVITIES	
Chair: Mr. Niklas HEDMAN, UNOOSA	Rapporteur: Mr. Bernhard SCHMIDT-TEDD, DLR Mr. Ian FREEMAN, UNOOSA
11:00 – 12:00	<i>H.E. Gerhard KÜNTZLE, Federal Foreign Office, Germany</i>
	Space Diplomacy: promoting the safe and sustainable use of Outer Space to address development challenges <i>Mr. André RYPL, Ministry of Foreign Affairs, Brazil</i>
	Fine tuning Space 2030: NGOs as Sources and Critics <i>Mr. Michael SIMPSON, Secure World Foundation</i>
	Useful initiatives for taking international cooperation beyond the skies after UNISPACE +50, envisioning the space 2030 Agenda <i>Ms. Rosa Maria RAMIREZ DE ARELLANO Y HARO, Mexican Space Agency</i>
	First fruits of the work of UN COPUOS to develop consensus guidelines for the long-term sustainability of outer space activities <i>Mr. Peter MARTINEZ, Former Chair COPUOS Working Group on Long-term Sustainability</i>
	Space Agenda 2030 <i>Mr. Dumitru-Dorin PRUNARIU, Romanian Space Agency</i> <i>Chair of COPUOS Working Group on a Space2030 Agenda</i>
	Role of private capital in enabling effective partnerships between established and emerging space nations <i>Ms. Pontsho MARUPING, South African Council for Space Affairs</i>
12:00 – 12:30	<i>Discussion and recommendations</i>
12:30 – 14:00	<i>Lunch Buffet</i>
CONCLUSION	
14:00 – 14:30	Space research and technology as one of the key drivers for development <i>Ms. Pascale EHRENFREUND, Chair of DLR Executive Board</i>
14:30 – 15:00	<i>Review and Approval of the Recommendations</i>
15:00 – 15:30	Concluding Remarks <i>Ms. Simonetta DI PIPPO, Director, UNOOSA</i> <i>Ms. Pascale EHRENFREUND, Chair of DLR Executive Board</i>
15:30	<i>Farewell Coffee</i>