

## Programme



**18 – 22 November 2019**

**Conference Room C1 | 2<sup>nd</sup> Floor C-Building**

**Vienna International Centre**

**MONDAY, 18 November 2019: OPENING and WELCOMING**

*City Hall of Vienna, Stadtsenatssitzungssaal  
Entrance: 1010 Vienna, Lichtenfelsgasse 2, Feststiege I*

**Opening and Welcome remarks**

<b>18:30</b>	<b>Mr. Omar-Al Rawi</b> Member of the Vienna City Council on behalf of the Mayor and Governor City of Vienna, Austria
<b>18:40</b>	<b>Ms. Gabriela Sellner</b> Ambassador and Permanent Representative of Austria to the United Nations in Vienna Federal Ministry for Europe, Integration and Foreign Affairs, Austria
<b>18:50</b>	<b>Mr. Niklas Hedman</b> Chief, Committee Policy and Legal Affairs Section United Nations Office for Outer Space Affairs
<b>19:00</b>	<b>Mr. Andreas Reichhardt</b> Federal Minister Federal Ministry for Transport, Innovation and Technology, Austria
<b>Followed by a reception upon invitation of the Mayor of Vienna</b>	

<b>TUESDAY, 19 NOVEMBER 2019</b>		
<b>Vienna International Centre (VIC)</b>		
<b>08:00</b>	<b>Registration</b>	
<b>09:30</b>	<b>Opening Remarks and Housekeeping</b>	
<b>Opening Speeches</b>		
<b>09:35 – 10:00</b>	<b>Ms. Margit Mischkulnig</b> Head of Department Space Affairs Federal Ministry for Transport, Innovation and Technology  <b>Mr. Markus Woltran</b> Programme Officer United Nations Office for Outer Space Affairs	
<b>Session 1: Space Economy for All</b>		
<i>Space economy is a key enabler and functions as the driver and connector of all four pillars. In that regard, this discussion session will address the different challenges and opportunities for the future of the space economy.</i>		
<b>Moderator:</b>		<b>Rapporteur:</b>
<b>Ms. Veronica Cesco</b> United Nations Office for Outer Space Affairs		<b>Ms. Felicia Schartner</b> University of Vienna
<b>10:00 – 10:15</b>	<b>Mr. John Donehoo</b> University of Pittsburgh Medical Center	<i>From why space to thinking space</i>
<b>10:15 – 10:30</b>	<b>Mr. José Manuel Medina Bosleman</b> Space Latam	<i>Space Entrepreneurship: Available Paths to follow to begin a business in the space industry, resources and opportunities</i>
<b>10:30 – 10:45</b>	<b>Mr. Thomas Herzig</b> Architect	<i>"pneumo planet" Mars habitat and Moonbase</i>
<b>10:45 – 11:00</b>	<b>Mr. Takayoshi Fukuyo</b> National Space Policy Secretariat	<i>CubeSat-based Low-cost communication network and its utilisation for capacity building in developing countries</i>
<b>11:00 – 11:15</b>	<b>Ms. Annalisa Donati</b> European Space Policy Institute	<i>Space Ventures Report</i>
<b>Coffee Break</b> <b>11:15 – 11:45</b>		
<b>11:45 – 12:00</b>	<b>Mr. Christian Unfried   Mr. Valentin Eder</b> Space Analyses	<i>Data Analyses of and for Space Assets: Roles, Rules and Responsibility</i>
<b>12:00 – 12:15</b>	<b>Mr. David John Taverner</b> Caribou Space	<i>UK Space Agency International Partnership Programme: Using Space to Achieve the UN Sustainable Development Goals</i>
<b>12:15 – 12:30</b>	<b>Questions and Answers</b>	

<b>Lunch Break</b>		
<b>12:30 – 13:30</b>		
<b>Session 2: The Benefits of Space for All</b>		
<i>Space technology and its applications are fundamental for the implementation of all Sustainable Development Goals, and to ensure that no one will be left behind, international cooperation and a stronger focus on user needs is essential.</i>		
<b>Moderator:</b> <b>Mr. Shirish Ravan</b> United Nations Office for Outer Space Affairs		<b>Rapporteur:</b> <b>Ms. Jainta Chomtoranin</b> University of Birmingham
<b>13:30 – 13:45</b>	<b>Mr. David Draper</b> NASA	<i>The Future of Lunar Exploration</i>
<b>13:45 – 14:00</b>	<b>Ms. Isabelle Duvaux-Bechon</b> European Space Agency	<i>Benefits of Space for All: how to pass the message and reach the users</i>
<b>14:00 – 14:15</b>	<b>Ms. Panagiota Alexandra Fratti</b> School of Salamina	<i>Creating Tomorrow's Explorers – Space Education: A teacher's perspective</i>
<b>14:15 – 14:30</b>	<b>Mr. Moritz Novak</b> TU Wien	<i>Student initiatives and international collaboration: a launchpad for future space engineers</i>
<b>14:30 – 14:45</b>	<b>Ms. Zainab Azim</b>	<i>Youth, education and inspiring the scientist of tomorrow</i>
	<b>Ms. Adriana Thomé</b> Brazilian National Institute for Space Research	<i>Space4Women Conference, Brazil, 2020</i>
<b>14:45 – 15:00</b>	<b>Mr. Dohyung Kim (via Skype)</b> UNICEF	<i>UNICEF Global CubeSat Youth Challenge</i>
<b>15:00 – 15:15</b>	<b>Questions and Answers</b>	
<b>Coffee Break</b>		
<b>15:15 – 15:45</b>		
<b>Moderator:</b> <b>Mr. Jorge Del Rio Vera</b> United Nations Office for Outer Space Affairs		<b>Rapporteur:</b> <b>Ms. Funmilola Adebisi Oluwafemi</b> National Space Research and Development Agency
<b>15:45 – 16:00</b>	<b>Ms. Alison B. Lowndes</b> Artificial Intelligence DevRel	<i>Harnessing the power of AI for All Humankind</i>
<b>16:00 – 16:15</b>	<b>Mr. Simon Jackman</b> University of Oxford	<i>Using AI and satellite Data to address the SDGs</i>
<b>16:15 – 16:30</b>	<b>Mr. James Parr</b> Trillium Technologies	<i>ML as a tool for Improved Planetary Stewardship</i>
<b>16:30 – 16:45</b>	<b>Mr. Stefano Natali</b> SISTEMA GmbH	<i>Big data analysis tools for climate change assessment and climate resilience support in developing countries</i>
<b>16:45 – 17:00</b>	<b>Ms. Angela Corbari</b> Studiomapp	<i>Supporting SDGs monitoring and impact measurement using AI on Satellite Imagery</i>
<b>17:00 – 17:15</b>	<b>Ms. Barbara Riedler</b> University of Salzburg	<i>CopHub.AC – Copernicus Academy Hub: connecting experts of different application fields and sustaining the innovation process from academia to business</i>
<b>17:15 – 17:30</b>	<b>Questions and Answers</b>	

**WEDNESDAY, 20 NOVEMBER 2019**  
*Vienna International Centre (VIC)*

**Session 3: Access to Space for All**

*Outer space has often been described as a global commons, and accessibility should remain a priority as the international community explores options to maintain the governance structure of the space environment.*

<b>Moderator:</b> <b>Mr. Jorge Del Rio Vera</b> United Nations Office for Outer Space Affairs		<b>Rapporteur:</b> <b>Mr. Michael Friedl</b> University of Vienna
<b>09:15 – 09:30</b>	<b>Ms. Iana Grytsenko</b> Belt & Road Education	<i>Education and Space Technology Enable Access to All</i>
<b>09:30 – 09:45</b>	<b>Ms. Nunzia Maria Paradiso</b> Italian Space Agency	<i>Access to Space for All: the Key Role of Capacity Building</i>
<b>09:45 – 10:00</b>	<b>Mr. Ulisses Barres de Almeida</b> Brazilian Center for Physics Research	<i>The Open Universe Initiative: Access to Space for All</i>
<b>10:00 – 10:15</b>	<b>Mr. Otto Koudelka</b> Graz University of Technology	<i>Small Satellites - Tools for Affordable Access to Space</i>
<b>10:15 – 10:30</b>	<b>Mr. Miguel Yagües Palazón</b> PLD Space	<i>Microlaunchers: Launch solutions for the increasing small satellites market and new ways to access to space</i>
<b>10:30 – 10:45</b>	<b>Mr. Luciano Saccani</b> Sierra Nevada Corporation	<i>Access to Space: Dream Chaser and Inflatable Habitat</i>
<b>10:45 – 11:00</b>	<b>Questions and Answers</b>	
<b>Coffee Break</b> <b>11:00 – 11:30</b>		
<b>UN-SPACE</b>		
<b>Moderator:</b> <b>Mr. Niklas Hedman</b> United Nations Office for Outer Space Affairs		<b>Rapporteur:</b> <b>Ms. Yukiko Okumura</b> United Nations Office for Outer Space Affairs
<b>11:30 – 13:00</b>	<b>Mr. Bob Bell</b> United Nations Conference on Trade and Development  <b>Mr. Weixi Gong</b> United Nations Industrial Development Organization  <b>Mr. Ramesh Krishnamurthy</b> World Health Organization  <b>Mr. Dominique Delattre</b> International Atomic Energy Agency  <b>Ms. Anja Korenblik</b> United Nations Office on Drugs and Crime  <b>Mr. Martin Kalinowski</b> Comprehensive Nuclear-Test-Ban Treaty Organization  <b>Mr. Luc St-Pierre</b> United Nations Office for Outer Space Affairs	

<b>Lunch Break</b> <b>13:00 – 14:00</b>	
<b>Session 4: Secure Space environment for All</b>	
<i>Global governance of outer space activities is becoming increasingly important given the fast-changing “new space” environment with a steadily increasing number of actors.</i>	
<b>Moderator:</b> <b>Ms. Romana Kofler</b> United Nations Office for Outer Space Affairs	<b>Rapporteur:</b> <b>Ms. Cordula Steinkogler</b> University of Vienna
<b>14:00 – 14:15</b>	<b>Mr. Stewart Bain</b> NorthStar Earth & Space <i>Space Object Tracking: Creating A Secure and Sustainable Space Environment</i>
<b>14:15 – 14:30</b>	<b>Mr. Jason Forshaw</b> Astroscale <i>Towards Global Space Sustainability – Astroscales vision for active debris removal services</i>
<b>14:30 – 14:45</b>	<b>Mr. Angelo Fontana</b> Avio SpA <i>Vega In Orbit Services and Solutions – Focus on Debris Removal</i>
<b>14:45 – 15:00</b>	<b>Ms. Kimberly Macharia</b> Consensys <i>The Unifying Power of Space Debris: Using Collaborative Action Tools to Address the Clutter in Our Skies</i>
<b>15:00 – 15:15</b>	<b>Mr. Thomas Mützelburg</b> on behalf of <b>Ms. Lesley Jane Smith</b> Leuphana University Lueneburg <i>Regulating New Space and risk: are autonomous systems also sustainable</i>
<b>15:15 – 15:30</b>	<b>Mr. Nathaniel Dailey</b> MITRE <i>International Space Reference Architecture</i>
<b>15:30 – 15:45</b>	<b>Questions and Answers</b>
<b>Coffee Break</b> <b>15:45 – 16:00</b>	
<b>16:00 – 17:30</b>	<b>Poster Session</b> <b>Room C0229</b>

<b>THURSDAY, 21 NOVEMBER 2019</b> <i>Vienna International Centre (VIC)</i>	
<b>Keynote Presentation</b>	
<b>09:30 – 10:00</b>	<b>Ms. Simonetta Di Pippo</b> Director United Nations Office for Outer Space Affairs
<b>PANEL I: SPACE ECONOMY</b>	
<i>The wealth of options and arguments on why space is important for society, the need to guarantee access to space activities, and the need for a cooperative regulatory instrument for cooperation to ensure the benefits of space for societies.</i>	
<b>Moderator:</b> <b>Mr. Ian Freeman</b> United Nations Office for Outer Space Affairs	<b>Rapporteur:</b> <b>Mr. Koloman Roiger-Simek</b> University of Vienna
<b>10:00 – 10:15</b>	<b>Mr. Christian Hoffmann</b> Geoville
<b>Panel Discussion</b>	
<b>10:15 – 11:15</b>	<b>Mr. Roberto Cossu</b> European Space Agency
	<b>Mr. Guillaume Prigent</b> Centre national d'études spatiales
	<b>Ms. Jenni Tapio</b> Ministry of Economic Affairs and Employment of Finland
	<b>Mr. William Ricard</b> PricewaterhouseCoopers
	<b>Mr. Emil Tsenov</b> Enpulsion
<b>Coffee Break</b> <b>11:15 – 11:45</b>	

**PANEL II: SPACE SOCIETY**

*The attainment of the goals set by the 2030 Agenda for Sustainable Development with the support of space and how space can be a driver for social and economic sustainable development.*

**Moderator:**

**Mr. Sebastien Moranta**

European Space Policy Institute

**Rapporteur:**

**Ms. Panagiota Alexandra Fratti (TBC)**

School of Salamina

**11:45 –  
12:00**

**Mr. Roberto Cossu**

on behalf of

**Mr. Mark Doherty**

European Space Agency

**Panel Discussion**

**12:00 –  
13:00**

**Ms. Dominique Tilmans**

EURISY

**Mr. Andreas Bauer**

Ars Electronica Center

**Ms. Clémentine Decoopman**

Space Generation Advisory Council

**Mr. Joachim Post**

German Aerospace Center

**Ms. Jolanda van Eijndthoven**

European Commission

**Afternoon:**

**Technical Tours**

<b>FRIDAY, 22 NOVEMBER 2019</b> <i>Vienna International Centre (VIC)</i>	
<b>PANEL III: SPACE ACCESSIBILITY</b>	
<i>The various means of access to space, space technology data and facilities, and the importance of joining a global effort in the development of the entire space arena for the benefit of humanity.</i>	
<b>Moderator:</b> <b>Mr. Andreas Geisler</b> Austrian Research Promotion Agency	<b>Rapporteur:</b> <b>Mr. Tatsat Thakore</b> Indian Space Research Organisation
<b>09:30 – 09:45</b>	<b>H.E. Ogbonnaya Onu</b> Minister of Science and Technology Federal Government of Nigeria
	<b>Panel Discussion</b>
<b>09:45 – 10:45</b>	<b>Mr. Richard Buenneke</b> U.S. Department of State  <b>Ms. Irmgard Marboe</b> University of Vienna  <b>Mr. Tim Flohrer</b> European Space Agency  <b>Mr. Daniel Oltrogge</b> Center for Space Standards and Innovation  <b>Mr. Liang He</b> Ministry of Foreign Affairs China
<b>Coffee Break</b> <b>10:45 – 11:15</b>	

**PANEL IV: SPACE DIPLOMACY**

*The attention of governments to the need for regulatory frameworks and mechanisms at national, regional and global levels, as well as the role of international mechanisms for cooperation in the peaceful exploration and use of outer space.*

<b>Moderator:</b>		<b>Rapporteur:</b>		
<b>Mr. Niklas Hedman</b> United Nations Office for Outer Space Affairs		<b>Mr. Scott Ritter</b> United Nations Office for Outer Space Affairs		
<b>11:15 – 11:30</b>	<b>Mr. Jean-Jacques Tortora</b> European Space Policy Institute			
<b>Panel Discussion</b>				
<b>11:30 – 12:30</b>	<b>Mr. David James Edmondson</b> UK Foreign and Commonwealth Office			
	<b>Mr. Andre Rypl</b> Brazil, Chair COPUOS			
	<b>Mr. Xu Yansong</b> Asia-Pacific Space Cooperation Organization			
	<b>Mr. Niccolò Invidia</b> Italian Parliament Representative			
<b>12:30 – 13:00</b>	<b>Mr. Andrzej Misztal</b> Poland, Chair LSC			
	<b>Concluding Remarks</b>			
	<b>Ms. Margit Mischkulnig</b> Head of Department Space Affairs Federal Ministry for Transport, Innovation and Technology			
<b>12:30 – 13:00</b>	<b>Ms. Simonetta Di Pippo</b> Director United Nations Office for Outer Space Affairs			
	<b>Farewell – Coffee</b>			