



UNITED NATIONS
Office for Outer Space Affairs

SPACE4SDGS



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**WORLD
SPACE
FORUM**

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MONDAY, 18 November 2019: OPENING and WELCOMING

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

Opening and Welcome remarks

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



TUESDAY, 19 NOVEMBER 2019
Vienna International Centre (VIC)

08:00	Registration	
09:30	Opening Remarks and Housekeeping	
09:35	Opening Speeches	
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10:00	Ms. Margit Mischkulnig Head of Department Space Affairs Federal Ministry for Transport, Innovation and Technology Mr. Markus Woltran Programme Officer United Nations Office for Outer Space Affairs	
Session 1: Space Economy for All		
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.		
Moderator: Ms. Veronica Cesco, UNOOSA		Rapporteur: Ms. Clara Baumgartner, University of Vienna
10:00 – 10:15	Mr. John Donehoo The Space Team University of Pittsburgh Medical Center	From why space to thinking space
10:15 – 10:30	Mr. José Manuel Medina Bosleman Space Latam	Space Entrepreneurship: Available Paths to follow to begin a business in the space industry, resources and opportunities
10:30 – 10:45	Mr. Thomas Herzig Architect	"pneumo planet" Mars habitat and Moonbase
10:45 – 11:00	Mr. Takayoshi Fukuyo National Space Policy Secretariat	CubeSat-based Low-cost communication network and its utilisation for capacity building in developing countries
11:00 – 11:15	Ms. Annalisa Donati European Space Policy Institute	Space Ventures Report
Coffee Break 11:15 – 11:45		
11:45 – 12:00	Mr. Christian Unfried Space Analyses	Data Analyses of and for Space Assets
12:00 – 12:15	Mr. David John Taverner Caribou Space	UK Space Agency International Partnership Programme: Using Space to Achieve the UN Sustainable Development Goals
12:15 – 12:30	Questions and Answers	
Lunch Break 12:30 – 13:30		



Session 2: The Benefits of Space for All

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.

Moderator: Mr. Shirish Ravan, UNOOSA

Rapporteur: Ms. Cordula Steinkogler, University of Vienna

13:30 – 13:45	Mr. David Draper NASA	Exploration of the solar system
13:45 – 14:00	Ms. Isabelle Duvaux-Bechon European Space Agency	Benefits of Space for All: how to pass the message and reach the users
14:00 – 14:15	Ms. Panagiota Alexandra Fratti School of Salamina	Creating Tomorrow’s Explorers – Space Education: A teacher’s perspective
14:15 – 14:30	Mr. Moritz Novak Technical University Vienna	Student initiatives and international collaboration: a launchpad for future space engineers
14:30 – 14:45	Ms. Zainab Azim	Youth, education and inspiring the scientist of tomorrow
	Ms. Adriana Tome	Space4Women Conference, Brazil, 2020
14:45 – 15:00	Mr. Dohyung Kim (via Skype) UNICEF	UNICEF Global CubeSat Youth Challenge
15:00 – 15:15	Questions and Answers	
Coffee Break 15:15 – 15:45		
15:45 – 16:00	Ms. Alison B. Lowndes Artificial Intelligence DevRel	Harnessing the power of AI for All Humankind
16:00 – 16:15	Mr. Simon Jackman University of Oxford	Using AI and satellite Data to address the SDGs
16:15 – 16:30	Mr. James Parr Trillium	ML as a tool for Improved Planetary Stewardship
16:30 – 16:45	Mr. Stefano Natali SISTEMA GmbH	Big data analysis tools for climate change assessment and climate resilience support in developing countries
16:45 – 17:00	Studiomapp [TBC]	
17:00 – 17:15	Ms. Barbara Riedler University of Salzburg, Z_GIS	CopHub.AC - Copernicus Academy. Hub for connecting with experts of different application fields
17:15 – 17:30	Questions and Answers	



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 explored options to maintain the governance structure of the space environment.

Moderator: Mr. Jorge Del Rio Vera, UNOOSA		Rapporteur: Mr. Michael Friedl, University of Vienna
09:15 – 09:30	Ms. Iana Grytsenko Belt & Road Education	<i>Education and Space Technology Enable Access to All</i>
09:30 – 09:45	Ms. Nunzia Maria Paradiso [TBC] ASI	
09:45 – 10:00	Mr. Ulisses Barres de Almeida Brazilian Center for Physics Research	<i>The Open Universe Initiative: Access to Space for All</i>
10:00 – 10:15	Mr. Otto Koudelka Graz University of Technology	<i>Small Satellites - Tools for Affordable Access to Space</i>
10:15 – 10:30	Mr. Miguel Yagües Palazón PLD Space	<i>Microlaunchers: Launch solutions for the increasing small satellites market and new ways to access to space</i>
10:30 – 10:45	Mr. Luciano Sacconi Sierra Nevada Corporation	
10:45 – 11:00	Questions and Answers	

Coffee Break
11:00 – 10:45

Moderator: Mr. Niklas Hedman UNOOSA		Rapporteur: [TBC]
11:30 – 13:00	UN-SPACE	

Lunch Break
13:00 – 14:00

Session 4: Secure Space environment for All

Global governance of outer space activities is becoming increasingly important given the fast-changing “new space” environment with a steadily increasing number of actors

Moderator: Ms. Romana Kofler, UNOOSA		Rapporteur:
14:00 – 14:15	Mr. Stewart Bain NorthStar Earth & Space	<i>Space Object Tracking: Creating A Secure and Sustainable Space Environment</i>
14:15 – 14:30	Mr. Jason Forshaw Astroscale	<i>Towards Global Space Sustainability – Astroscales vision for active debris removal services</i>
14:30 – 14:45	Mr. Angelo Fontana Avio SpA	<i>Vega In Orbit Services and Solutions – Debris removal</i>
14:45 – 15:00	Ms. Kimberly Macharia ConsenSys	<i>The Unifying Power of Space Debris: Using Collaborative Action Tools to Address the Clutter in Our Skies</i>



15:00 – 15:15	Ms. Lesley Jane Smith Leuphana University Lueneburg	<i>Regulating New Space and risk: are autonomous systems also sustainable</i>
15:15 – 15:30	Mr. Nathaniel Dailey MITRE	<i>International Space Reference Architecture</i>
15:30 – 15:45	Questions and Answers	
Coffee Break 15:45 – 16:00		
16:00 – 17:30	Poster Session	



THURSDAY, 21 NOVEMBER 2019 <i>Vienna International Centre (VIC)</i>	
08:30	Registration
09:30	Keynote
10:00	Ms. Simonetta Di Pippo Director United Nations Office for Outer Space Affairs
PANEL I: SPACE ECONOMY 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 mechanism for cooperation to ensure the benefits of space for societies.	
Moderator: Mr. Ian Freeman, UNOOSA Rapporteur: Mr. Koloman Roiger-Simek, University of Vienna	
10:00 – 10:15	Mr. Christian Hoffmann Geoville
10:15 – 11:15	Panel Discussion
	Mr. Roberto Cossu European Space Agency
	Mr. Guillaume Prigent CNES
	Ms. Jenni Tapio Ministry of Economic Affairs and Employment of Finland
	Mr. Ricard William PWC
	Mr. Alexander Reissner Enpulsion
Coffee Break 11:15 – 11:45	
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, ESPI Rapporteur: [TBC]	
11:45 – 12:00	Mr. Mark Doherty European Space Agency
12:00 – 13:00	Panel Discussion
	Ms. Dominique Tilmans EURISY
	Mr. Andreas Bauer Ars Electronica Center
	Ms. Clémentine Françoise Renée Decoopman Space Generation Advisory Council



	European Commission [TBC]	
	Mr. Christopher Lehnert DLR, Deputy Head Staff Department - Executive Board Division Space Research	
Afternoon: Technical Tour		



FRIDAY, 22 NOVEMBER 2019
Vienna International Centre (VIC)

PANEL III: SPACE ACCESSIBILITY

The various factors 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.

Moderator:

Rapporteur: [TBC]

Mr. Andreas Geisler

Austrian Research Promotion Agency (FFG)

09:30 – H.E. Ogbonnaya Onu

09:45 Minister of Science and Technology

Federal Government of Nigeria

Panel Discussion

09:45 – Mr. Richard Henry Buenneke Jr

U.S. Department of State

09:45 – Ms. Irmgard Marboe

University of Vienna

10:45 – Mr. Tim Flohrer

European Space Agency

Mr. Daniel Oltrogge

Center for Space Standards and Innovation

China [TBC]

Coffee Break

10:45 – 11:15

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.

Moderator: Mr. Niklas Hedman, UNOOSA

Rapporteur: Mr. Michael Friedl, University of Vienna

11:15 – Mr. Jean-Jacques Tortora

11:30 European Space Policy Institute

Panel Discussion

11:30 – Mr. David James Edmondson

UK Foreign and Commonwealth Office

11:30 – Mr. Andre Rypl

Brazil, Chair COPUOS

12:30 – Mr. Xu Yansong

APSCO

Mr. Niccolò Invidia

Italian Parliament Representative

Mr. Andrzej Misztal

Poland, Chair LSC



12:30 13:00	Concluding remarks Ms. Margit Mischkulnig Head of Department Space Affairs Federal Ministry for Transport, Innovation and Technology Ms. Simonetta Di Pippo Director United Nations Office for Outer Space Affairs
Farewell – Coffee	