



United Nations/Austria Symposium

“Space: A Tool for Accessibility, Diplomacy and Cooperation”

# Programme

Graz, Austria, 2 – 4 September 2019

Organized by

The United Nations Office for Outer Space Affairs

Co-organized by

The Government of Austria

With the support of

JOANNEUM RESEARCH Forschungsgesellschaft mbH, Graz University of Technology, AUSTROSPACE,  
City of Graz, State of Styria, Austrian Federal Ministry for Transport, Innovation and Technology, Austrian  
Federal Ministry Europe, Integration and Foreign Affairs,  
NPOC Space Law Austria, European Space Agency (ESA) and German Aerospace Center (DLR)

**Honorary Committee (in alphabetical order):**

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P. Ehrenfreund	Chair of the Executive Board, DLR
H. Kainz	Rector of Graz University of Technology
M. Kowatsch	President, AUSTROSPACE, Austria
J-Y. Le Gall	Director, CNES
S. Nagl	Mayor, City of Graz, Austria
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I. Schädler	Director, Ministry for Transport, Innovation and Technology, Austria
H. Schützenhöfer	Governor, Federal State of Styria, Austria
G. Sellner	Ambassador, Ministry for Europe, Integration and Foreign Affairs, Austria
J. Wörner	Director General, ESA

**Programme Committee (in alphabetical order):**

J. Del Rio Vera	UNOOSA
I. Duvaux-Béchon	ESA
M.H. Fuchs	Ministry for Europe, Integration and Foreign Affairs
A. Kleinsasser	Ministry for Transport, Innovation and Technology
O. Koudelka	JOANNEUM RESEARCH and Graz University of Technology
I. Marboe	University of Vienna and NPOC Space Law Austria
M. Mischkulnig	Ministry for Transport, Innovation and Technology
Y. Okumura	UNOOSA
J. Ortner	International Space University
L. St-Pierre	UNOOSA
C. Steinkogler	University of Vienna and NPOC Space Law Austria
I. Vlachopoulou	UNOOSA

**Local Organizing Committee (in alphabetical order):**

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## General Information

The UN/Austria Symposium is one of the long-standing activities that are performed under the Programme of Space Applications of the United Nations Office for Outer Space Affairs. It has been organized in Graz since 1994, marking this year the 25<sup>th</sup> anniversary of the first Symposium entitled “Enhancing Social, Economic and Environmental Security through Space Technology”. Since then, more than 2,000 participants have attended the Symposiums.

The Symposiums have had several themes, from security to youth, and to space industry, with the latest on the use of space for the Sustainable Development Goals. On the occasion of the 25<sup>th</sup> anniversary, it is time to look back at the recommendations and achievements of the Symposium series.

The topic proposed for this year is “Space: A tool for Diplomacy, Cooperation and Development”. The duration of the Symposium will be 2.5 days, from 2 to 4 September.

It will build upon the past 24 years of UN/Austria Symposiums, using two of the four pillars of the UNISPACE+50 and Space2030<sup>1</sup> process to structure the sessions, namely, Space Diplomacy and Space Accessibility:

- Space Diplomacy aims at providing a view of how space functions as a tool for cooperation and diplomacy. It is expected that presentations will also cover space-related policies relevant to cooperation and development. Therefore, two sessions with roundtable discussions to engage the audience will be held on this topic.
- Space Accessibility aims at providing a view on user needs and solutions. The block devoted to solutions will be split in two parts, namely space-derived services for development and global solutions for local problems.

Based on the success of last year and following the same approach, the UN/Austria Symposium will encompass the legal and policy aspects together with the technical views.

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1 A/AC.105/1204, Source : <https://cms.unov.org/dcpms2/api/finaldocuments?Language=en&Symbol=A/AC.105/1204>

## Objectives

The ultimate goal of the Symposium is to connect the space community with the diplomatic community that is now preparing the Space2030 Agenda for the years to come. The objective is to foster dialogue between the diplomatic community and those communities using space, as well as promoting and advancing knowledge on space related activities and services as a tool for diplomacy and cooperation, to stimulate access to space related services that are available and accessible by different countries.

The individual objectives are the following:

- To discuss the role of UNOOSA in implementing capacity-building activities, particularly in developing countries.
- To raise awareness in the diplomatic community on available space-related activities, services and cooperation programs.
- To enable discussion on the use of space-related technologies for development and cooperation.
- To explore available services, demonstrating how they can be accessed and used to support development at country level according to the national priorities and the Sustainable Development Goals.
- To showcase space-related services/applications/facilities and policies and how they are used in different countries.

## Programme of the Symposium

The program is designed to cover the aforementioned objectives and deliver the expected outputs. Sessions might be added or modified depending on the availability of speakers.

The programme includes plenary sessions and sufficient time for discussions among participants to identify the priority areas where pilot projects should be launched and examine possible partnerships that could be established. The programme is as follows. **Please note that is a draft version and the order of speakers and split in sessions may be subject to some changes:**

**Monday, 2 September 2019**  
**Morning**

08:30- 09:00	<b>Registration of Participants</b>
<b>Morning Session</b>	<b>Welcome Addresses &amp; Welcome Ceremony</b> <b>Moderators:</b> Otto Koudelka / Irmgard Marboe
09:00-10:00	Local music and welcoming speeches by organizers
10:00-10:05	<b>Group Picture</b>
<b>Morning Session</b>	<b>Keynote Speech</b>
10:05-10:20	<b>Keynote Speech: Setting the Scene</b> Simonetta Di Pippo <b>United Nations Office for Outer Space Affairs</b>
<b>Morning Session</b>	<b>Panel Session: 25 Years of UN/Austria Symposium</b> <b>Moderator:</b> Jorge Del Rio Vera/ <b>Rapporteur:</b> Yukiko Okumura
10:20-11:25	Maria Helene Fuchs – <b>Federal Ministry for Europe, Integration and Foreign Affairs</b> Niklas Hedman – <b>United Nations Office for Outer Space Affairs</b> Andrea Kleinsasser – <b>Federal Ministry for Transport, Innovation and Technology</b> Otto Koudelka – <b>Graz University of Technology</b> Irmgard Marboe – <b>NPOC Space Law Austria</b> Stephan Mayer - <b>Austrian Research Promotion Agency, Aeronautics and Space Agency</b>
11:25- 12:00	<b>Coffee Break – Ice Breaker</b> <b>Colours for badges - 15 groups – UNOOSA supervise</b> <b>Group getting all the colours (or same colours)</b>
<b>Morning Session</b>	<b>Space Diplomacy: Space as a Tool for Cooperation and Development (Round Table)</b> <b>Strengthening COPUOS and its subcommittees</b> <b>Moderator:</b> Niklas Hedman / <b>Rapporteur:</b> Jorge Del Rio Vera
12:00-12:45	Marius Ioan Piso – <b>Chair of the Committee on the Peaceful Uses of Outer Space (2020-2021)</b> Andre Rypł – <b>Chair of the Committee on the Peaceful Uses of Outer Space (2019)</b> Pontsho Maruping – <b>Chair of the Scientific and Technical Subcommittee (2018-2019) – COPUOS</b> Andrej Misztal – <b>Chair of the Legal Subcommittee (2018-2019) – COPUOS</b> Awni Moh'd Khasawneh – <b>Chair of the Space2030 Agenda Working Group</b> Dumitru-Dorin Prunariu– <b>Vice-Chair of the Space2030 Agenda Working Group</b>
12:45-13:45	<b>Lunch Break</b>

Monday, 2 September 2019  
Afternoon

<b>Afternoon Session</b>	<b>Space Diplomacy: Space as a Tool for Cooperation and Development</b> <b>Facilitators:</b> Irianna Vlachopoulou, Jorge Del Rio Vera / <b>Rapporteur:</b> Yukiko Okumura
13:45-15:55	(Interactive session) 4 groups – 3 questions
15:55-16:15	Coffee Break
<b>Afternoon Session</b>	<b>Keynote Speech</b>
16:15-16:30	<b>Space Climate Observatory</b> Laurence Monnoyer-Smith Centre National d'Etudes Spatiales (CNES)
<b>Afternoon Session</b>	<b>Space Accessibility: User Needs</b> This session is organized around mini-sessions to give visibility to a set of selected topics <b>Moderator:</b> Joachim Post / Irianna Vlachopoulou <b>Rapporteur:</b> Jorge Del Rio Vera
16:30-17:00	<u>Space for Small Island Developing States (SIDS)</u> Irianna Vlachopoulou – United Nations Office for Outer Space Affairs Wolf Forstreuter – Pacific Community (SPC) Mohamed Shareef - Ministry of Communication, Science and Technology, Republic of Maldives <b>Q&amp;A (15 mins)</b>
17:00-17:30	<u>Space for Agriculture</u> Yeshey Choden – Ministry of Information & Communications (Bhutan) Michal Babacek – European Global Navigation Satellite Systems Agency TBC <b>Q&amp;A (15 mins)</b>
17:35-18:00	<u>Space for Inclusiveness</u> Beatriz Garcia– Institute on Detection Technologies and Astroparticles (Argentina) Claudia Kessler – Die Astronautin (Germany) Clementine Decoopman – Space Generation Advisory Council <b>Q&amp;A (15 mins)</b>
18:00	Closure
18:10	<b>Transfer to the City Centre</b>
18:25	<b>Guided Tour through the Old City of Graz</b> Andreas-Hofer-Platz
20:00	<b>Reception hosted by the Mayor of the City of Graz, Mayor Siegfried Nagl</b> Assembly Hall of the City Parliament of Graz

Tuesday, 3 September 2019  
Morning

08:30-09:00	<b>Registration of Participants</b>
<b>Morning Session</b>	<b>Space Accessibility: User Needs (continuation)</b> This session is organized around mini-sessions to give visibility to a set of selected topics <b>Moderator:</b> Laurence Monnoyer-Smith / Irianna Vlachopoulou <b>Rapporteur:</b> Jorge Del Rio Vera
09:00-09:30	<u>National Space Law</u> Edgar Khachatryan – Security Council Office of the Office of the RA Prime Minister (Armenia) Yukiko Okumura – United Nations Office for Outer Space Affairs Peerapat Akarakupt - Geo-informatics and Space Technology Development Agency (Thailand) <b>Q&amp;A (15 mins)</b>
09:30-10:00	<u>Disaster Management and Emergency Response</u> Alejandro Jose Roman Molinas – Paraguay Space Agency Armin Schuller – Permanent Mission of Canada to the United Nations Omid Shekoofa – Iranian Space Research Center Joachim Post – German Aerospace Center <b>Q&amp;A (15 mins)</b>
<b>Morning Session</b>	<b>Keynote Speech</b>
10:00-10:20	<b>Keynote Speech: Space research and technology for sustainable development</b> Pascale Ehrenfreund German Aerospace Center
10:20-10:50	<b>Coffee Break / Poster Session</b>
<b>Morning Session</b>	<b>Space Accessibility: Space-Derived Services for Development</b> <b>Moderator:</b> Irianna Vlachopoulou / <b>Rapporteur:</b> Yukiko Okumura
10:50-11:05	<b>The European Space Agency Catalogue of Solutions for the SDGs</b> Isabelle Duvaux-Bechon European Space Agency
11:05-11:20	<b>Research Capacity for the Evolution of Copernicus – boosting the Copernicus academy</b> Barbara Riedler Copernicus Academy
11:20-11:35	<b>Space Diplomacy: A tool for sustainable development in Sub-Saharan Africa</b> Bamanga Adamou Oumarou Ministry of External Relations Cameroon
11:35-11:50	<b>Dynamics of Space-based Collaborative Projects</b> Etim Offiong African Regional Centre for Space Science and Technology Education in English (Nigeria)

11:50:12:05	<b>Novel Satellite Architectures for Very Low Latency EO Data Products that Meet Societal Needs</b> Murray Kerr Elecnor Deimos
12:05:12:20	<b>Student initiatives and international collaboration: a launchpad for future space engineers</b> Moritz Novak TU Wien Space Team
<b>Demo session</b>	
12:20-13:00	<b>Space Solutions Compendium: Requirement Gathering</b> Nina Kickingger / Isabelle Duvaux-Bechon UN Office for Outer Space Affairs / European Space Agency
13:00-14:00	<b>Lunch Break</b>



Tuesday, 3 September 2019  
Afternoon

<b>Demo Session</b>	
14:00-14:30	<b>sonoUno, data exploration through the sonorization: an opportunity of multiple learning</b> Beatriz Garcia Institute on Detection Technologies and Astroparticles (Argentina)
<b>Afternoon Session</b>	<b>Space Accessibility: Global Solutions for Local Problems</b> <b>Moderator:</b> Isabelle Duvaux-Bechon / <b>Rapporteur:</b> Irianna Vlachopoulou
14:30-14:45	<b>The diversity of free use applications of CBERS series' satellite images for local troubleshooting in Brazil</b> Henrique Fernandes Nascimento Brazilian Space Agency
14:45-15:00	<b>High resolution space borne image data for documentation of coastal and low island change</b> Wolf Forstreuter Pacific Community (SPC)- Geoscience, Energy and Maritime Division Geoinformatics
15:00-15:15	<b>Capacity-Building in Education of Space Education in Regional Centre for Space Science and Technology Education in Asia and the Pacific</b> Tian Jin Electronic Information and Engineering School at Beihang University (China)
15:15-15:30	<b>Protecting animals before harvesting from UAV and GNSS</b> Jakub Karas Upvision
15:30-15:45	<b>Actionable EO-based information for humanitarian and development intervention at local scale – experiences from working with NGOs</b> Lorenz Wendt University of Salzburg (Austria)
15:45-16:00	<b>EGNOS and Galileo: Free and Open Services improving our Lives</b> Michal Babacek European GNSS Agency
16:00-16:30	<b>Coffee Break / Poster Session</b>
<b>Demo session</b>	
16:30-17:15	<b>The use of gr-satellites to receive Kenyan satellite 1 KUNS_PF</b> Daniel Estevez Independent Researcher
17:15-18:00	<b>Debris Risk Assessment and Mitigation Analysis (DRAMA): Towards Sustainable Use of Outer Space</b> Stijn Lemmens European Space Agency
18:00	<b>Closure</b>

18:00	Transfer to the Hotel
19:00	Transfer from the Hotel to the Centre of Graz - Burgring
19:30	Reception hosted by the Governor of Styria, Governor Hermann Schützenhöfer Staterooms of Grazer Burg
21:30	Transfer to hotel from Burgring

**Wednesday, 4 September 2019**  
**Morning**

08:30-09:00	<b>Registration of Participants</b>
<b>Morning Session</b>	
09:00-09:15	<b>Space for Water Portal</b> Nina Kickingger United Nations Office for Outer Space Affairs
<b>Demo session</b>	
09:15-10:00	<b>Quick Guide on Access to Space for All: How to apply</b> Jorge Del Rio Vera United Nations Office for Outer Space Affairs
10:00-10:15	<b>Coffee Break / Poster Session 3</b>
<b>Morning Session</b>	<b>Round Table: Accessing Space in the 21<sup>st</sup> Century</b> <b>Moderator:</b> Jorge Del Rio Vera / <b>Rapporteur:</b> Cordula Steinkogler
10:15-11:45	Luc St-Pierre - <b>United Nations Office for Outer Space Affairs</b> Akihiro Iwaki – <b>Permanent Mission of Japan to the United Nations in Vienna</b> Otto Koudelka – <b>Technical University Graz</b> Luis Diego Monge Solano - <b>Central American Association for Aeronautics and Space</b>
<b>11:45</b>	<b>Closing Ceremony</b>
13:00-14:00	<b>Lunch</b>
14:00	<b>Transfer to the Hotel</b>

**Poster Presentations (This section is work in progress)**

<b>Title</b>	<b>Presenter</b>
Space diplomacy – From Pushinka to KiboCUBE	Hannes Mayer Competence Centre for Space Law and Space Policy at Karl-Franzens-University Graz
Space policy formulation as a strategic tool for improve measures of transparency and confidence building on outer space field	Victoria Valdivia Subdirection of Space Affairs – Operations Directorate (Chile)