



Strengthening Space Cooperation for Global Health

A joint conference of the United Nations Office of Outer Space Affairs,
World Health Organization and Government of Switzerland with support from the European Space Agency

World Health Organization Headquarters
Geneva, Switzerland

23-25 August 2017

Provisional Agenda

About the conference

The Conference is expected to foster dialogue about better utilization of space-based data and technologies in addressing global health. It will showcase select global health initiatives and their various uses of space technologies, data access, data provision services and information sharing, with a focus on two areas, namely Resiliency (of space technologies to provide services despite breakdowns in ground-based infrastructures, notably in emergency situations and humanitarian crises) and Interoperability (challenges of coordinating services and data sources to foster synergies and strengthen global health). Interoperability and resiliency are two of five cross-cutting areas identified, together with governance, capacity building and sustainable development.

The outcomes and recommendations identified will provide inputs for the United Nations Report on this thematic priority, to be delivered in June 2018 for <u>UNISPACE+50</u>, an event celebrating the 50th anniversary of the first United Nations Conference on the Exploration and Peaceful Uses of Outer Space, and an opportunity for the international community to gather and consider the future course of global space cooperation for the benefit of humankind.

Day 1 - Wednesday, 23 August 2017 (Salle C, V Floor)

8:30 - 9:00	Registration		
9:00 - 9:30	Opening Session		
3.30	Remarks by World Health Organization		
	Edward Kelley		
	Director, Department of Service Delivery and Safety		
	Remarks by United Nations Office of Outer Space Afj	fairs	
	Niklas Hedman		
	Chief, Committee, Policy and Legal Affairs Section		
	Remarks by Government of Switzerland		
	Nora Kronig		
	Deputy Head of the Multilateral Division, Permanent Mission of Switzerland to the United Nations Office and to the other		
	international organisations in Geneva	ons Office and to the other	
	Remarks by Representative of the Expert Group on S	Snace and Global Health of	
	Remarks by Representative of the Expert Group on S the Scientific and Technical Subcommittee of the Uni the Peaceful Uses of Outer Space Antoine Geissbuhler Co-chair	-	
9:30 -	the Scientific and Technical Subcommittee of the Unit the Peaceful Uses of Outer Space Antoine Geissbuhler Co-chair	-	
	the Scientific and Technical Subcommittee of the Unit the Peaceful Uses of Outer Space Antoine Geissbuhler	-	
	the Scientific and Technical Subcommittee of the Unit the Peaceful Uses of Outer Space Antoine Geissbuhler Co-chair Introduction to UNISPACE+50	-	
9:30 - 10:00	the Scientific and Technical Subcommittee of the Unit the Peaceful Uses of Outer Space Antoine Geissbuhler Co-chair Introduction to UNISPACE+50 Niklas Hedman	-	
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	the Scientific and Technical Subcommittee of the Unit the Peaceful Uses of Outer Space Antoine Geissbuhler Co-chair Introduction to UNISPACE+50 Niklas Hedman United Nations Office of Outer Space Affairs Objectives and Expectations	-	
10:00	the Scientific and Technical Subcommittee of the Unit the Peaceful Uses of Outer Space Antoine Geissbuhler Co-chair Introduction to UNISPACE+50 Niklas Hedman United Nations Office of Outer Space Affairs Objectives and Expectations Ramesh Krishnamurthy	-	
10:00 10:00 - 10:30 10:30 -	the Scientific and Technical Subcommittee of the Unit the Peaceful Uses of Outer Space Antoine Geissbuhler Co-chair Introduction to UNISPACE+50 Niklas Hedman United Nations Office of Outer Space Affairs Objectives and Expectations Ramesh Krishnamurthy World Health Organization Group Photo and Refreshment Break Thematic Session 1: Space Science and	-	
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WHO

- JAXA's Challenges for Global Health and Sustainable Development - Yoshiaki Kinoshita, JAXA
- Improving Health Outcomes through the National Geospatial Data Infrastructure -Experience from a Summit (Nigeria) -Ganiyu Agbaje, ARCSSTE
- Remote Sensing Data Can Help Early
 Warning of Outbreaks of Emerging
 Infectious Diseases Antoine Flahault
- Seasonal Variation in Geographical Access to Maternal Health Services in Regions of Southern Mozambique - Prestige Makanga

Subcommittee of United
Nations Committee on Peaceful
Use of Outer Space
Professor and Chair of the
Department
Department of Radiology and
Medical Informatics
University of Geneva
Geneva, Switzerland

Plenary Discussion

	Tienary Discussion	
12:30 - 13:30	Lunch Break	
13:30 - 15:30	Thematic Session 2: Health Systems Resiliency	Session Chair:
15.50	 Earth Observation Data Use in WASH - Water, Sanitation, Hygiene and Health - Rifat Hossain WMO/WHO Joint office for Climate and Health: Sharing Experience on the Role of Remote-Sensed Climate and Environmental Information to Improved Health Care Services - Joy Shumake-Guillemot, Lucia Fernandez Montoya, Robbie Parks, WMO/WHO How Space Technologies Contribute to Global Health and What are the Gaps and 	Ramesh Krishnamurthy Senior Advisor, Department of Information, Evidence and Research, Health Systems and Innovation Cluster, WHO Headquarters

Opportunities Identified - *Damien Dietrich*Conceptualizing the Satellite Technology
Based Emergency Medical Services for
Riverine Island Villages of Krishna District
in Andhra Pradesh, India - *Chandan Kumar*

	Plenary Discussion	
15:30 - 16:00	Refreshment Break and Networking Opportunity	
16:00 - 17:30	Thematic Session 3: Capacity-building in using space science, technology and applications for global health: Identifying needs and best practices - Efforts of the United Nations in Promoting Space Applications for Global Health - Sergey Chernikov - Issues on Capacity Building in Space and Geospatial Sciences in East Africa; the Case of Uganda - Oluseyi Fabiyi - Human Capacity Development in Space Science and Technologies for Global Health. Ghana as a Case Study - Yao Kiatchey, NADMO - AccessMod 5: a Tool to Supporting Universal Health Coverage by Modelling Physical Accessibility to Healthcare - Nicolas Ray, University of Geneva - Building a Global Commons of Health Facility Information with OpenStreetMap - Rene Saameli, ICRC / Mark Herringer	Session Chair: Lorant Czaran Programme Officer United Nations Office of Outer Space Affairs, UN Office in Vienna Vienna, Austria
19:00	Conference Reception at Campus Biotech (hosted by the Government of Switzerland) Location: 9, chemin des Mines, 1202 Geneva	Natália Archinard Deputy Head of Education, Science and Space Section, Federal Department of Foreign

Day 2 - Thursday, 24 August 2017 (Salle C, V Floor)

9:00 -Thematic Session 4: Systems and Organizational Session Chair: 10:30 Interoperability, Technical Cooperation Pascal Michel Convening Earth Observations for Healthy Co-chair of the Expert Group on Space and Global Health of the and Sustainable Communities - William Scientific and Technical Sonntag, GEO Secretariat Subcommittee of United Satellite Imagery in Support of WHO Field Nations Committee on Peaceful Deployments - Einar Bjorgo, UNITAR **Use of Outer Space** Chief Science Officer/ Office of Increased Transparency of International the Chief Science Officer; Space Cooperation for Global Health Public Health Agency of Initiatives Through the Cascading Impacts by Canada. Students and Young Professionals From Government of Canada Academia to Industry - Linda Dao Capacity Building in Asia and the Pacific -Geo-enabling the In-country Health Information System - Steeve Ebener, AeHIN GIS Lab **Plenary Discussion** 10:30 -Refreshment Break and Networking Opportunity 11:00 11.00 -Thematic Session 5: Looking Forward Session Chair: 12.30 Digital Health Technologies to Support Natália Archinard Deputy Head of Education, Manned Missions to Mars - Bertalan Mesko, **Medical Futurist** Science and Space Section, Federal Department of Foreign Science, Technology and Applications for Affairs, Switzerland Global Health. - Stefano Ferretti, ESPI

Plenary Discussion

Belward, EC/JRC

Goals - Jason Hatton, ESA

The Global Surface Water Explorer; High resolution Mapping 32 Years of Change to Surface Water Location and Duration - *Alan*

European Space Agency Health Related
Activities and the Sustainable Development

12:30 - 13:30	Lunch Break	
13:30 - 15:30	UN-Space Open Informal Session: The Transformative Potential of Space Technology for Development: Approaches and Opportunities in the U.N. System Please refer to the agenda of this session under the following link: http://www.unoosa.org/documents/pdf/unspace/iam/2017/OIS-2017-tentative-programme-draft.pdf	Session Chair: Simonetta Di Pippo Director, United Nations Office of Outer Space Affairs UN Office in Vienna Vienna, Austria
15:30 - 16:00	Refreshment Break and Networking Opportunity	
16.00 - 18.00	 Vulnerability Assessment of Puerto Galera Bay As Affected By Its Biophysical Characteristics and Urbanization - Fe Ocones The Leopard Project - Radiation Hardness Assurance (RHA) Using Giant Petawatt Lasers for Testing Space Components - Marius Eugen Opran, ROSA Gulich Institute Experience: Applied Landscape Epidemiology and Warning Systems in Argentina - Ximena Porcasi Gomes, CONAE Space Medicine in Mexico:Towards New Horizons of Medicine - Fabiola Vazquez Torres, AEM Preliminary Analysis for the Prevention of Hfq-sRNA Binding To Reduce Virulence Effect of Bacterias and Gamification Applications for Human Spaceflight - Ozan Kara Emerging Drug Resistant Pathogens Due to Poor Sanitation and Septic Tanks - Ghouse Shaikh 	Session Chair: Representative, WHO

 Vulnerability Profiling of Urban Built Environments and People by Applying Accurate 3D City Modeling and Disease Surveillance - Venu Maroju

(CLOSED MEETING)

Parallel session: *Meeting of the Expert Group*

Day 3 - Friday, 25 August 2017 (Salle C, V Floor)

09:30 - 11.00	High Level Segment	Session Chair:
	Representative of the Director-General, WHO	Simonetta Di Pippo Director, United Nations Office
	Simonetta Di Pippo - Director, OOSA	of Outer Space Affairs UN Office in Vienna
	Barbara Ryan - Director, GEO Secretariat	Vienna, Austria
	Panel Discussion:	
	Advancing the Space Cooperation for Global Health at National Level	
11:00 - 11:15	Refreshment Break and Networking Opportunity	
11:15 - 13.00	Closing Session	Session Chair:
	Proposed recommendations and discussion	Niklas Hedman United Nations Office of Outer
	Presentation of draft report outline	Space Affairs, UN Office in Vienna
	Conclusion	Vienna, Austria