

# List of Technical Presentations

## 59<sup>th</sup> Scientific and Technical Subcommittee<sup>1</sup>

(List is accurate as of 14 February 2022, 12:00 Vienna time/CEST)

### Monday, 7 February Morning

#### No Technical Presentations

### Afternoon

Agenda item no.	Title, presenter, State/Observer organization
Item 13 (LTS)	“Capacity Building with the Space Safety Institute”, Danielle Bernstein, IAASS
Item 4 (GEV)	“World Space Week 2022: Space and Sustainability”, Ms. Maruska Strah, WSA

### Tuesday, 8 February Morning

#### Technical Presentations

Agenda item no.	Title, presenter, State/Observer organization
Item 13 (LTS)	“Space Sustainability Rating: a voluntary exercise to incentivize operators toward sustainable behaviors in space”, Ms. Emmanuelle David, Switzerland
Item 4 (GEV)	“Space4Women: Korea’s Activities and Contributions”, Ms. Soyoung Chung, Republic of Korea
Item 4 (GEV)	“White Paper: China’s Space 2021”, Ms. Jiang Hui, China -
Item 13 (LTS)	“SKAO, exploring Space in Radio Frequencies”, Mr Federico Di Vruno, SKAO -

### Afternoon

#### Technical Presentations

Agenda item no.	Title, presenter, State/Observer organization
Item 8 (Debris)	“U.S. Space Debris Environment and Activity Updates”, Ms. Bhavya Lal Mr. Jer-Chyi Liou, USA -
Item 8 (Debris)	“Space Sustainability Activities in ESA – 2021”, Mr. Holger Krag, ESA -

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<sup>1</sup> Morning technical presentations will take place 9:45-10:45 AM Vienna time (CEST). Afternoon technical presentations will take place 5:15-6:15 PM Vienna time (CEST).

Item 13 (LTS) "Managing the Plume Effect to Assure Sustainability of Lunar Activities", Ms. Bailey Cunningham, For All Moonkind

### Wednesday, 9 February Morning

#### Technical Presentations

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 11 (space weather)	"Space Weather Activities in Slovakia", Ivan Dorotovič, Slovakia -
Item 11 (space weather)	"India's first solar mission – Aditya-L1", Mr. K.Babu Govinda Raj, ISRO/India
Item 4 (GEV)	"Introduction of UN/China Global Partnership Workshop on Space Exploration and Innovation" Mr. GAN Yong, China
Item 8 (debris)	"SSA Activities in the Republic of Korea", Ms. Eun Jung Choi, Republic of Korea

### Afternoon

#### Technical Presentations

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 4 (GEV)	"James Webb Space Telescope: Discovering the Universe", Mr. Greg Robinson, USA
Item 12 (NEOS)	"Near Earth Space Observation Activities in Ukraine 2021", Mr. Oleksandr Kozhukhov, Ukraine
Item 4 (GEV)	"Update on the Consortium for Execution of Rendezvous and Servicing Operations (CONFERS)", Mr. Brian Weeden, USA -
Item 8 (Space Debris)	"Multi-Satellite Low-Earth-Orbit Constellations: Interferences for Routine Space Activities & Astronomical Observations — Threats to Uncontrolled Space Debris Formation" Mr. Milind Pimprikar, CANEUS International

### Thursday, 10 February Morning

#### Technical Presentations

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 6 (Socioeconomic development)	"The new Copernicus Sentinel-1 Global Flood Monitoring service", Mr. Wolfgang Wagner, Austria,
Item 8 (space debris)	"India's efforts in Space Debris management", Dr. AK.Anil Kumar, ISRO, India

Item 6 (Socioeconomic development)	"SDGSAT-1:A Frontier Technology of TFM for SDGs", Mr. GUO Huadong, China – e-mail TBC
Item 6 (Socioeconomic development)	"Student Small Satellite Project and Future Initiatives for Young Generation Capacity Building", APSCO, presenter TBC

**Afternoon**

**Technical Presentations**

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 4 (GEV (TBC)	"Eurasian Space Educational Center", Russian Federation, Ms. Evgenia Benevolskaya
Item 4 (GEV) - TBC	"The James Webb Space Telescope: The challenge of the NIRSpec design", Mr. Wolfgang Holota, ESA
Item 6 (Socioeconomic development)	"Development of human potential in space science and technology for sustainable development", Russian Federation
Item 5 (SAP) TBC	"Global school student small satellites", by Declan Kirrane and Milind Pimprikar, CANEUS International

**Friday, 11 February**  
**Morning**

**Technical Presentations**

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 11 (space weather)	"Update of Japanese Space Weather Research and Operation, Mr. ISHII Mamoru, Japan
Item 5 (Programme on Space Applications)	"Capacity building activities in Geo-spatial technologies in India", Mr. Shantanu Bhatawdekar, ISRO/India
Item 9 (Disaster)	Integrated Application of Earth Observations for Disaster Risk Reduction—The international cooperation project and how it supports the SFDRR monitoring, Ms. LIU Longfei, China

**Afternoon**

**Technical Presentations**

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 4 (GEV)	"Landsat's 50th Anniversary: Looking Back, and Looking Ahead", Mr. Thomas Cecere, USA
Item 16 (Space and Global Health)	"Space Dosimetry – Hungarian Innovations", Balázs Zabori, Hungary,
Item 13 (LTS)	"Satellites: Working Toward and Equitable and Sustainable Future", Ms. Caroline Kehrlí (SIA) USA

Item 4 (GEV) | “Programa Escolar Espacial Piloto”, Mr. Hernán Tello Sepúlveda, Chile -

## Monday, 14 February Morning

### Technical Presentations

Agenda item no.	Title, presenter, State/Observer organization
Item 8 (space debris)	“IADC activities overview and latest updates of IADC documents”, Mr. Hae-Dong Kim, Republic of Korea
Item 7 (remote sensing)	"Monitoring mangrove forests in the Philippines using Remote Sensing", Mr. Ariel C. Blanco, Philippines
Item 4 (GEV)	“The UK Spaceflight Regulator”, Colin Macleod, UK CAA
Item 10 (GNSS)	Development of BeiDou Navigation Satellite System, Ms. LU Jun, China

## Afternoon

### Technical Presentations

Agenda item no.	Title, presenter, State/Observer organization
Item 4 (GEV)	“PRETTY – A nanosatellite mission for altimetry and dosimetry“, Mr. Otto Koudelka, Austria
Item TBC	"Tidal disruption events in the SRG/eROSITA all-sky X-ray survey", Russian Federation
Item 13 (LTS)	“International Organization for Standardization (ISO) activities for Long-Term Sustainability (LTS) of space activities”, Dan Oltrogge, ISO
Item 17 (GSO)	ITU Radio Regulations “Fist Come, First Served” Concept and Equitable Access to Spectrum/Orbit Resources - Glaude, Veronique, ITU
Item 7 (Remote Sensing)	Title TBC, Mr. Younes Dehghan Sorkai, Iranian Space Agency, IR Iran
Item 4 (GEV)	"Moon Village Association and International Moon Day Highlights", Mr. Giuseppe Reibaldi, Moon Village Association and Dr. Nasr Al-Sahhaf, Chair of the International Moon Day Group
Item 7 (Remote Sensing)	“Earth Observation Training, Education, and Development Network (EOTEC DevNet): A Collaborative Network of Networks Approach”, Dr. Nancy D. Searby, CEOS

## Tuesday, 15 February Morning

### Technical Presentations

Agenda item no.	Title, presenter, State/Observer organization
Item 18 (Dark and Quiet Skies)	“Dark and Quiet Skies in Australia – Mitigating the Impacts of Terrestrial ALAN and RFI”, Mr. Fred Watson,

Item 9 (Disaster)	"Typhoon Rai damage assessment mapping using Sentinel-1 SAR and UNOSAT/UNITAR data", Mr. Serafin Meneses III, Philippines -
Item 11 (Space weather)	"Space Weather Impact on Spacecraft and Upcoming of the 25th Solar Cycle", Mr. WANG Bin, China

## Afternoon

### **Technical Presentations**

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 7 (remote sensing)	"Indigenous Mapping Workshop and Satellite Earth Observation", Mr. Steve DeRoy, Ms. Cindy Schmidt, Mr. Guy Aubé, Canada
Item 6 (Socioeconomic development)	"Spatial development of Paraguay", Mr. Alejandro Jose Roman Molinas, Paraguay
Item 4 (GEV) - TBC	"Kids2Mars, a global, inclusive educational project regarding the planet Mars and its exploration by human and non-human space missions", Thais Russomano, Brazil
Item 4 (GEV) and 7 (Remote Sensing)	"SABIAMar Satellite Mission", Dr. Carolina Tauro, Principal Researcher SABIAMar, CONAE (Argentina)..
Item 6 (Socioeconomic development)	Title TBC, Ms. Manijeh Khaneghae, Iranian Space Agency, IR Iran

## Wednesday, 16 February Morning

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item 16 (Health)	"Role of Space Technologies in Public Health Crisis Management", Ms. Chandana Unnithan, Australia
Item 7 (remote sensing)	"Open access to Italian Earth Observation satellites data: the ASI Open Call initiative" Ms. Maria Libera BATTAGLIERE, Italy
Item 16 (Space and global health)	"Space2Health - Technology and knowledge transfer at the intersection of space and health", Mr. Vanja Sebastian ZANDER, DLR, Germany
Item 4 (GEV) TBC	"Current status of SCOSTEP's PRESTO program for predictability of the variable solar-terrestrial coupling", Mr. Kazuo Shiokawa, SCOTSTEP

## Afternoon

### **Technical Presentations**

<b>Agenda item no.</b>	<b>Title, presenter, State/Observer organization</b>
Item TBC	"Recent activities of PSIPW", video presentation (pre-recorded), PSIPW- Ali Wafa Abu-Risheh
Item 16 (health)	"Anaerobic Bioreactors for Refugee Health and Long Duration Space Missions", Ms. Kristi Ray, SGAC

Item 4 (GEV) - TBC

“Development of a rocket powered by a detonation engine” P. Wolański and M. Kawalec, Poland

Item 4 (GEV)

“Update on the Status of Space Solar Power Development.” John C. Mankins, At-Large Member of the NSS Board of Directors, Chair of the IAA Permanent Committee on Space Solar Power. National Space Society