

**Expert Meeting on  
Improving Space Weather Forecasting in the Next Decade**  
to be held at the United Nations Office at Vienna on the margins of the  
**51<sup>st</sup> Session of the Scientific and Technical Subcommittee of  
the Committee on the Peaceful Uses of Outer Space (COPUOS)**

**10 - 11 February 2014**  
**Vienna, Austria**  
**Conference Room C6, Building “C”, 7<sup>th</sup> floor, Vienna International Centre**

**Agenda**

**Monday, 10 February 2014**

Session 1

Chair: *Joseph DAVILA, United States of America*

09:00 – 09:20    Opening remarks, *Sharafat GADIMOVA, Office for Outer Space Affairs*  
*and Joseph DAVILA, United States of America*

09:20 – 09:40    The solar atmosphere and space weather, *Volker BOTHMER, Germany*

09:40 – 10:00    Space weather forecasting in ESA SSA Programme, *Juha-Pekka*  
*LUNTAMA, European Space Agency*

10:00 – 10:20    The future of space weather services, *Terry ONSAGER, United States of*  
*America*

10:20 – 10:40    Value-add space weather forecasting as the RWC for Africa, *Lee-Anne*  
*MCKINNELL, South Africa*

10:40 – 11:00    Coffee Break

11:00 – 11:20    Monitoring, specifying and forecasting the geospace energetic particle  
radiation environment, *Ioannis DAGLIS, Greece*

11:20 – 11:40    The development of space weather in Japan, *Hiroaki ISOBE, Japan*

11:40 – 12:00    VAP (Van Allen Probe) software development for space weather,  
*Young-deuk PARK, Republic of Korea*

12:00 – 12:20    Space weather using ground instrumentation, *Babatunde RABIU,*  
*Nigeria*

12:20 – 13:20    Lunch Break

## Session 2

Chair: *Patricia DOHERTY, United States of America*

- 13:20 – 13:40 Canadian space weather science and research: from discovery to operations, *Ian MANN, Canada*
- 13:40 – 14:00 Modeling the physics of space weather – current state and future directions, *Leon OFMAN, United States of America*
- 14:00 – 14:20 Flares and CMEs forecasting potential of the space weather and ultraviolet solar variability (SWUSV) microsatellite mission, *Luc DAME, France*
- 14:20 – 14:40 Space weather activities in Brussels, where ISES en ESA/SSA meet, *David BERGHMANS, Belgium*
- 14:40 – 15:00 Space weather from out of the Sun-Earth line: The experience of STEREO, *Richard HARRISON, United Kingdom*

15:00 – 15:20 Coffee Break

## Session 3

Chair: *Sharafat GADIMOVA, Office for Outer Space Affairs*

- 15:20 – 15:40 International Committee on Global Navigation Satellite Systems (ICG) and its Programme on the applications of global navigation satellite systems (GNSS), *Sharafat GADIMOVA, Office for Outer Space Affairs*
- 15:40 – 16:00 Recommendations and observations of the symposium on space weather data, instruments and models: Looking beyond the ISWI, *Werner BALOGH, Office for Outer Space Affairs*
- 16:00 – 16:20 Improving GNSS-related space weather situation awareness through wide-spread low-cost sensor monitoring network, *Renato FILJAR, Croatia*
- 16:20 – 16:40 The utilization of ionospheric observations from African observatories: The future, *Sandro RADICELLA, Italy*
- 16:40 – 17:00 The future of GNSS for space weather monitoring and research, *Patricia DOHERTY, United States of America*
- 17:00 – 17:20 Remote-sensing radio observations of the inner heliosphere for space-weather science and operations, *Mario BISI, United Kingdom*
- 17:20 Adjourn

## Tuesday, 11 February 2014

### Session 4

Chair: *Natchimuthuk GOPALSWAMY, United States of America*

- 09:00 – 09:20 Space weather and the role of ISWI in the development of the SCINDA sensor network, *Keith GROVES, United States of America*

- 09:20 – 09:40 Space weather using ground instrumentation, *Jean-Pierre RAULIN, Brazil*
- 09:40 – 10:00 African dual frequency GPS network, *Christine AMORY-MAZAUDIER, France*
- 10:00 – 10:20 CALLISTO and the e-Callisto network: solar radio astronomy, space weather applications, education and radio monitoring, *Christian MONSTEIN, Switzerland*
- 10:20 – 10:40 Proposal from Kyushu university to be the new host for the ISWI Secretariat, *George MAEDA and Akimasa YOSHIKAWA, Japan*

10:40 – 11:00 Coffee Break

Session 5

Chair: *David WEBB, United States of America*

- 11:00 – 11:20 Monitoring, modelling and forecasting the total electron content of the ionosphere, *Norbert JAKOWSKI, Germany*
- 11:20 – 11:40 The Wall of Peace, *Christine AMORY-MAZAUDIER, France on behalf of Jean LILENSTEN, France*
- 11:40 – 12:00 Space weather and ground- and space-based multi-instrument observations, *Endawoke YIZENGAW, United States of America*
- 12:00 – 12:20 Space weather using ground instrumentation, *Ericson LOPEZ, Ecuador*

12:20 – 13:20 Lunch Break

Session 6

Chair: *Richard HARRISON, United Kingdom*

- 13:20 – 13:40 Storm studies using global navigation satellite systems, *Anthea COSTER, United States of America*
- 13:40 – 14:00 CiAO: spwx publishing, *Anton FEUN, South Africa*
- 14:00 – 14:20 Geospace missions for space weather and the next scientific challenges, *James SPANN, United States of America*
- 14:20 – 14:40 Space weather at University of Graz / Kanzelhöhe Observatory , *Manuela TEMMER, Austria*
- 14:40 – 15:00 Utility of heliophysics scientific research missions and infrastructure for enabling space weather prediction: NASA update, *Madhulika GUHATHAKURTA, United States of America*

15:00 – 15:20 Coffee Break

Session 7

Chair: *Madhulika GUHATHAKURTA, United States of America*

- 15:20 – 15:40 Space weather diamond, *Orville Chris ST CYR and Mr. Joseph DAVILA, United States of America*
- 15:40 – 16:00 Sub-L1 magnetic field measurements and Sunjammer, *Jonathan EASTWOOD, United Kingdom*
- 16:00 – 16:20 Space weather science from the Sun-Earth L5, *Natchimuthuk GOPALSWAMY, United States of America*
- 16:20 – 16:40 Design concepts for an L5 SWx mission, *Angelos VOURLIDAS, United States of America*
- 16:40 – 17:00 CMEs, heliospheric imaging and space weather forecasting, *David WEBB, United States of America*
- 17:00 – 17:20 Addressing space weather objectives with nano-spacecraft / Solar Polar Imager, *Marco VELLI, United States of America*
- 17:20 – 17:40 Cubesats for space weather, *Therese JORGENSEN, United States of America*
- 17:40 Summary and Closing remarks, *Joseph DAVILA, United States of America*
- 18:00 Adjourn