

United Nations / Austria Symposium on "Space Weather Data, Instruments and Models: Looking Beyond the International Space Weather Initiative"

Programme

Austrian Academy of Sciences, Institute for Space Research Schmiedlstrasse 6, Graz, Austria

Hosted by the Austrian Federal Ministry for European and International Affairs, State of Styria and City of Graz, Austrospace and co-sponsored by the European Space Agency

16 – 18 September 2013

Honorary Committee (in alphabetical order):

C. Stix-Hackl Federal Ministry for European and International Affairs, Austria

F. Nordlund European Space Agency

K. Edlinger-Ploder Member of the Government, State of Styria, Austria

S. Nagl Mayor, City of Graz, Austria

M. Othman Director, Office for Outer Space Affairs, United Nations

F. Voves Governor, State of Styria, Austria

Programme Committee (in alphabetical order):

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J. Davila NASA, United States of America

S. Gadimova Office for Outer Space Affairs, United Nations

H. Haubold Office for Outer Space Affairs, United Nations (retired)

O. Koudelka JOANNEUM RESEARCH and Graz University of Technology, Austria

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A. Fuchs-Fehringer Graz Tourism
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Monday, 16 September 2013

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Morning 08:00	Registration	
09:00	Opening Ceremony Chairperson: Otto Koudelka, Graz University of Technology and JOANNEUM RESEARCH	
09:00	Welcome / Opening Remarks	 Wolfgang Baumjohann, Austrian Academy of Sciences Peter Piffl-Percevic, City of Graz Christine Stix-Hackl, Austrian Federal Ministry for European and International Affairs (Permanent Mission to the UN) Werner Balogh, United Nations Office for Outer Space Affairs
10:00 10:00	Introduction, Keynote Addresses 20 Years UN/Austria Symposium, Objectives and Logistics of the 2013 Symposium	Werner Balogh OOSA
10:30	Coffee/Tea Break	
11:00	The International Space Weather Initiative	Hans Haubold OOSA and Centre for Mathematical Sciences, India
12:00	Lunch	
Afternoon 13:30	Session 1: Worldwide Instrument Arrays, Data Products Chairperson: Johannes Ortner, EURISY Rapporteur: Otto Koudelka, JOANNEUM RESEARCH and Graz Technical University	
13:30	The WMO Inter-programme Coordination Team on Space Weather	Jerome Lafeuille WMO
13:50	Building on ISWI to Improve Space Weather Services and Global Benefits to Society	Terry Onsager NOAA
14:10	SCOSTEP Scientific Programme VARSITI (2014-2018)	Katya Georgieva Space Research and Technology Institute, Bulgarian Academy of Sciences
14:30	MiniMax24 - a One-year SCOSTEP Campaign on Solar-Terrestrial Connections	Tanja Rollett University of Graz, Austria
14:45	Current status and plan of the Optical Mesosphere Thermosphere Imagers (OMTIs)	Kazuo Shiokawa Solar-Terrestrial Environment Laboratory, Nagoya University, Japan

15:00	Coffee/Tea Break	
15:30	ICSWSE/MAGDAS Project	Akimasa Yoshikawa International Center for Space Weather Science and Education, ICSWSE, Kyushu University, Japan
15:50	Solar radio spectrometer network e-Callisto	Christian Monstein ETH Zurich, Switzerland
16:10	Contributions of UKM towards the International Space Weather Initiative	Siti Aminah Bahari Institute of Space Science, Universiti Kebangsaan Malaysia (UKM)
16:20	Laboratory of Space Environment (LSEE) And Our effort in Solar EUV Observation for Space Weather	Jilong Peng, Chinese Academy of Sciences, China
16:30	Panel Discussion: Towards Reliable Space Weather Forecasts: Results of the ISWI	Panel members and all participants Chair: Mangala Sharma, Office of Space and Advanced Technology, U.S. Department
17:30	Transfer to the hotel	
19:00	Transfer from the hotel to the "Burgring" (centre of Graz)	
19:30	Reception hosted by the Governor of the State of (Orangery in the Gardens of Graz Burg)	Styria Franz Voves

Tuesday, 17 September 2013

Morning 09:00	Session 2: Data Analysis and Models Chairperson: Hans Haubold, OOSA and Centre for Mathematical Sciences, India Rapporteur: Michael Bergmann, Graz University of Technology, Austria	
09:00	Nonextensive Statistical Mechanics: Outer Space and Weather	Constantino Tsallis National Institute of Science and Technology for Complex Systems, Brazil
10:00	Standard Deviation Analysis vs. Diffusion Entropy Analysis	Hans Haubold OOSA and Centre for Mathematical Sciences, India
10:30	Coffee/Tea Break	
11:00	Modelling the Dynamic of the Ionosphere over Malaysia and its Effect on GPS Positioning During High Solar Activity	Karthigesu Nagarajoo University Tun Hussein Onn, Malaysia

11:20	Ionospheric response to the geomagnetic storm of 15 May 2005	Praveen Galav Mohanlal Sukhadia University, Udaipur, India
11:40	Analysis of solar, interplanetary and ground- based data to study forbush decreases, GLEs, and geomagnetic storms	Badruddin Nil Department of Physics, Aligarh Muslim University, India
12:00	Data Analysis of Ground-based Observations - Automatic flare recognition and filament eruption detection at Kanzelhöhe Observatory	Werner Poetzi Kanzelhöhe Observatory/University of Graz, Austria
12:20	Lunch	
Afternoon 13:30	Session 3: Data Analysis and Tools Chairperson: Mangala Sharma, Office of Space a State Rapporteur: Werner Balogh, OOSA	and Advanced Technology, U.S. Department of
13:30	New products for monitoring and forecasting space weather in South America: regional magnetic indices and GNSS vertical error map	Clezio Marcos De Nardin Head of the Embrace Space Weather Programme, INPE, Brazil
13:50	GPS-TEC measurements at low latitude using UNB Ionospheric Modeling Technique	Dadaso Jaypal Shetti Department of Physics, Smt. Kasturbai Walchand College, India
14:10	The Operational Space Weather Observing and Data Processing System in NSSC, Chinese Academy of Sciences	Cai Yanxia National Space Science Center, Chinese Academy of Sciences, China
14:30	Magnetic reconnection - the mechanism of the space weather changes	Alexandra Alexandrova Space Research Institute, Austrian Academy of Sciences, Austria
14:50	Coffee/Tea Break	
15:30	Solar and interplanetary precursors of geomagnetic storms in solar cycle 23	Jean Uwamahoro Kigali Institute of Education, Rwanda
15:50	Space Weather on Extra-solar Planetary Systems	Arnold Hanslmeier University of Graz, Austria

16:10	Space weather affects on (human) terrestrial life	Christian Bartsch Center for Research in Medical and Natural Sciences, University of Tübingen, Germany
16:30	European Space Weather Week – "Wall of Peace" Initiative	Jean Lilensten CNRS, Institut de Planétologie et d'Astrophysique de Grenoble (IPAG), France
16:50	The ISWI Website and the ISWI Newsletter	Dimitar Danov Space Research and Technology Institute Bulgarian Academy of Sciences, Bulgaria
17:15	Transfer to the "Andreas-Hofer-Platz" (centre of Graz)	
17:45	Guided tour through the Old City	
19:00	Reception hosted by the Mayor of the City of Graz Siegfried Nagl (Rathaus)	

Wednesday, 18 September 2013

<i>Morning</i> 9:00	Session 4: Discussions on the Report and Future Activities Beyond ISWI Chairperson: Werner Balogh & Hans Haubold, OOSA	
9:00	Panel Discussion: Recommendations for the Space Weather Expert Meeting at STSC in February 2014	Panel members and all participants Chair: Terry Onsager, NOAA
10:30	Coffee/Tea Break	
11:00	Symposium Review, Observations and Recommendations	All Symposium Participants
	Discussion of Future BSSI Activities	All Symposium Participants
12:30	Closing Session	
	Distribution of Certificates and Closing Remarks by the organizers	 Austrian Federal Ministry for European and International Affairs United Nations Office for Outer Space Affairs
13:00	Lunch	
14:00	Transfer to the hotel and end of the Symposium	