2016 Space Weather Workshop Agenda Omni Interlocken Hotel

Monday, April 25

9:00 - 12:00 1:00 - 5:00 1:00 - 5:00 3:00 - 5:00	Update on the Implementation of the National Space Weather Action Plan (Fir Boardroom) Economic and Operational Impacts (Pine Boardroom) Working Meeting on the Harmonization of Solar Energetic Particle (SEP) Data Calibrations (Interlocken AB) Ionospheric Scales Discussion Group (Spruce Boardroom)
5:00 - 7:00	Welcome Networking Session (Lobby Court)
Tuesday, Apr	<u>ril 26</u>
8:30	Conference Welcome Brent Gordon, NOAA/SWPC
8:35	State of the Space Weather Prediction Center Thomas Berger, NOAA/SWPC
8:45	What Happened to Those Sunspots and What Can We Expect? Doug Biesecker, NOAA/SWPC
9:05	Space Weather Activity – A Year in Review Robert Rutledge, NOAA/SWPC
9:25 - 9:40	Break
9:40 - 11:00	White House Space Weather Activities Chair: William Murtagh, OSTP (Office of Science and Technology Policy)
9:40	Update on the National Space Weather Strategy and Action Plan Tamara Dickinson, OSTP
10:00	Air Force One and Other Elements of the White House Military Office Tom Geyer, WHMO
10:20	Update on the U.S. Government Satellite Space Weather Data Public Release Matthew Heavner, OSTP
10:40	Live! From the White House Situation Room Jason Novick, The White House
11:00 - 12:00	DSCOVR Chair: Alysha Reinard, NOAA/SWPC
11:00	NOAA Goes to L1 with DSCOVR Doug Biesecker, NOAA/SWPC
11:20	DSCOVR Magnetometer Observations Adam Szabo, NASA/GSFC

11:40	DSCOVR Faraday Cup Solar Wind Observations Justin Kasper, University of Michigan
12:00 - 2:30	Lunch and 12:30 SWPC Tour
1:00 - 2:30	Poster Session: Solar and Heliosphere Applications and Research
2:30 - 3:00	Afternoon Keynote: The Role of Academia in the Nation's Space Weather Program Dan Baker, LASP (Laboratory of Atmospheric and Space Physics)
3:00 - 5:00	Space and Ground Based Observations / Advances Chair: Rodney Viereck, NOAA/SWPC
3:00	Neutron Monitors – Perhaps the Original Space Weather Instrument Jim Ryan, University of New Hampshire
3:20	GOES-VW Free-Flyer Concept for Space Weather Instruments Frank Eparvier, LASP
3:40	QuakeFinder Induction Magnetometer Network: Hi Res Observations During Solar Storms Tom Bleier, QuakeFinder
4:00	GOES - 40 Years of Satellite Space Environmental Monitoring William Denig, NOAA/NCEI
4:20	Carrington – an Operational Mission to L5 Mark Gibbs, UK Met Office
4:40	An Update on the COSMIC-2 Mission Lidia Cucurull, NOAA Global Systems Division (GSD)
5:00	End of Session
5:30 - 7:30	10^{th} Annual NOAA/ SWPC - Commercial Space Weather Interest Group (CSWIG)/American Commercial Space Weather Association (ACSWA) Summit Meeting - by invitation

Wednesday, April 27

8:30 - 8:40 Space Weather Morning Forecast Brief

Dave Marshall, NOAA/SWPC Space Weather Forecasting Office

8:40 - 10:10 Commercial Space Weather Interest Group (CSWIG)/

American Commercial Space Weather Association (ACSWA)

Roundtable Session: "Growing the Space Weather Enterprise"

Keynote Speaker:

Admiral Thad Allen, U.S. Coast Guard (ret); and Executive Vice President, Booz Allen Hamilton.

"The Benefits of Collaboration Between Commercial Industry and the Government in Confronting the Complexities of Co-producing Successful Outcomes in Achieving National Goals Associated with the Preparation and Mitigation of Natural and Human-made Disasters."

Featured Speaker:

Dr. Conrad C. Lautenbacher, Jr., Chief Executive Officer, GeoOptics, Inc.; and Member, ACSWA Executive Committee.

"Growing the Space Weather Enterprise: Progress in Partnership."

Dr. Geoff Crowley, Chief Executive Officer, ASTRA LLC; and Member, ACSWA Executive Committee.

"The Role of the Commercial Sector in the Nation's Space Weather Program."

Panel: Keynote & Featured Speakers

Q & A

Moderator and Organizer:

Dr. Devrie S. Intriligator, Director, Space Plasma Laboratory, Carmel Research Center, Inc.; and Member, ACSWA Executive Committee.

10:10 - 10:30 Break

10:30 - 12:00 Panel: Agency Activities

Chair: Thomas Berger, NOAA/SWPC

10:30 NASA Heliophysics Division - The Science of Space Weather

Steven Clarke, NASA/Heliophysics

10:45 Space Weather Research at the National Science Foundation

Therese Moretto Jorgensen, NSF

11:00 Department of Defense Space Weather

Lt Col Mark Allen, AFW (Air Force Weather Agency)

11:15 National Weather Service

Bill Lapenta, NOAA/NWS

11:30 **NESDIS**

11:45	The USGS Geomagnetism Program Jill McCarthy, USGS
12:00 - 12:10	Benchmarking Progress in Space Weather: Reprise of the 2001 AGU Monograph on Space Weather - Space Weather Journal Special Collection Announcement Delores Knipp, Space Weather Journal
12:10 - 1:30	Lunch
1:30 - 3:10	Space Weather Impacts: Electric Power Grid Chair: Bill Murtagh, OSTP
1:30	An Ensemble Approach to Communicating Extreme Space Weather Event Probability Seth Jonas, STPI (Science and Technology Policy Institute)
1:50	Adventures in Geoelectric Field Calculations and Validation Chris Balch, NOAA/SWPC
2:10	Space Weather Power System Impacts and PJM Response Frank Koza, PJM (Pennsylvania-New Jersey-Maryland Interconnection)
2:30	GIC modeling: From the Solar Wind to Power System Impacts Jennifer Gannon, Computational Physics, Inc.
2:50	Create a 21st Century US Electricity System Sandy MacDonald, Spire
3:10 - 5:00	Poster Session - General Space Weather Services & Magnetosphere Applications and Research (2 Groupings)
5:00	End of Session
6:00 - 9:00	Banquet Dinner at Omni Interlocken Ballroom

Karen St. Germain, NOAA/NESDIS

Special Guest Speaker:

Dr. Tony Phillips, Spaceweather.com

"Mutant Fungi in the Stratosphere and other Space Weather Surprises"

Thursday, April 28

8:30 - 8:40	Space Weather Morning Forecast Brief Shawn Dahl, NOAA/SWPC Space Weather Forecasting Office
8:40 - 10:00	Space Weather and the Arctic: Challenges and Opportunities in the New Frontier Chair: Rodney Viereck, NOAA/SWPC
8:40	Ionospheric Mapping Using a Ground-Based GPS Receiver Network in Alaska Geoff Crowley, ASTRA (Atmospheric and Space Technology Research Associates)
9:00	Space Weather Impacts in Alaska Carven Scott, NOAA/NWS
9:20	Space Weather Effects with the Flip of a Switch Robert McCoy, University of Fairbanks
9:40	The Arctic: NORAD and USNORTHCOM Perspective Lt Col Jason Julian / Charlotte Browning, USNORTHCOM
10:00 - 10:20	Break
10:20 - 12:00	Improving SWx Forecasting I: Modeling and Data Assimilation Chair: Doug Biescker, NOAA/SWPC
10:20	Living with a Star Elsayed Talaat, NASA/Heliophysics
10:40	Atmosphere and Surface Impacts by Auroral Energetic Electron Precipitation (EEP) Ethan Peck, Columbia University
11:00	Space Weather Modeling Framework (SWMF) University of Michigan Perspectives Dan Welling, University of Michigan
11:20	Forecasting Solar Indices with ADAPT Carl Henney, AFRL (Air Force Research Laboratory)
11:40	Between Earth and Space: Ensemble Modeling and Data Assimilation of the Space-Atmosphere Interaction Region Tomoko Matsuo, NOAA/SWPC
12:00 - 2:30	Lunch and 12:30 SWPC Tour
1:00 - 2:30	Poster Session – Ionosphere / Thermosphere Research and Applications
2:30 - 3:00	Afternoon Keynote: How Space Weather got to Boulder in the Post-WWII Years Joe Bassi, Embry Riddle University
3:00 - 3:20	A Report from the Recent Workshops on Economic and Operational Impacts Nicola Fox, Johns Hopkins University/Applied Physics Laboratory
3:20 - 5:00	International Coordination of Space Weather Activities Chair: Terry Onsager, NOAA/SWPC

3:20 Project for Solar-Terrestrial Environment Prediction (PSTEP) in Japan Kanya Kusano, Institute for Space-Earth Environmental Research (Nagoya University)

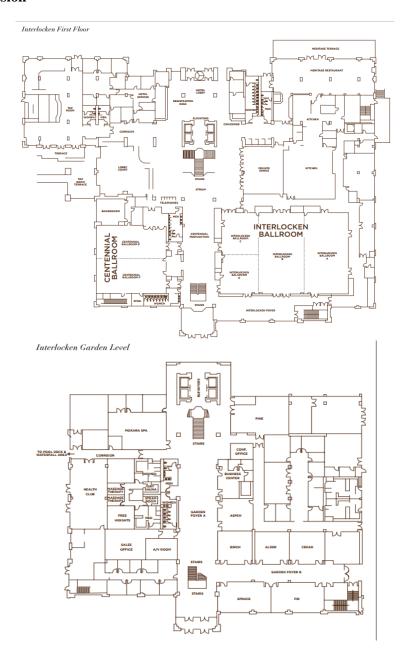
3:40 ESA SSA Federated Approach for Space Weather Services Juha-Pekka Luntama, ESA (European Space Agency)

4:00 Space Weather Services in Korea Dong-Hun Lee, Korean Space Weather Center

4:20 Mexican Space Weather Service (SCIESMEX) Juan Americo Gonzalez Esparza, Mexican Space Weather Service

4:40 The Australian Bureau of Meteorology: Space Weather Services Phillip Maher, Bureau of Meteorology

5:00 End of Session



Friday, April 29

8:30 - 8:40	Space Weather Morning Forecast Brief Rob Steenburgh, NOAA/ SWPC Space Weather Forecasting Office
8:40 - 10:00	Improving SWx Forecasting II: Modeling and Data Assimilation Chair: Howard Singer, NOAA/SWPC
8:40	Community Coordinated Assessment and Rapid Implementation of Space Weather Analysis and Forecasting Capabilities Masha Kuznetsova, NASA/CCMC
9:00	An Operational Geospace Model at the National Weather Service: Latest Update George Millward, NOAA/SWPC
9:20	Overview of NASA MSFC and UAH Space Weather Modeling and Data Efforts Linda Neergaard Parker, Jacobs/MSFC
9:40	Van Allen Probes and Space Weather Mona Kessel, NASA HQ
10:00 - 10:20	Break
10:20 - 12:00	Space Weather Impacts: Radiation Modeling and Observations Chair: Terry Onsager, NOAA/SWPC
10:20	45th Weather Squadron Space Weather Support to Launch Kathy Winters, USAF
10:40	Predicting Solar Energetic Particle (SEP) Events Using SEPMOD with ENLIL Janet Luhman, UC Berkeley
11:00	The Radiation Dosimetry Experiment (RaD-X) Flight Mission: Observations for Improving the Prediction of Cosmic Radiation Health Risk at Aviation Altitudes Christopher Mertens, NASA
11:20	Comparison of Cosmic Radiation Detectors in the Radiation Field at Aviation Altitudes Matthias Meier, DLR
11:40	Space Weather at Mars: Energetic Particle Measurements on the Surface of Mars with MSL RAD Don Hassler, SwRI (Southwest Research Institute)
12:00	Closing Remarks Thomas Berger, NOAA/SWPC
12:10	End of Conference