2012 Space Weather Enterprise Forum

Solar Maximum 2013: How Space Weather Will Affect You!

June 5, 2012

13th Floor Ballroom National Press Club 529 14th Street NW Washington, DC

AGENDA

7:00 AM Registration

Session 1: Welcome and Opening Addresses

Session Coordinator: Mr. Michael Bonadonna (OFCM)

8:00 AM	Forum Welcome and Introduction	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
8:30 AM	Opening Plenary Speaker	Dr. Cora Marrett, Deputy Director, National Science
		Foundation

Session 2: Space Weather and Why it Matters

Session Coordinator: Mr. Michael Bonadonna (OFCM)

	As we enter into a period of increased activity as part of the 11-year solar cycle, space weather events will become more frequent and intense. This session will describe the nature of space weather and how it affects you in your daily lives. The panelists will highlight recent spectacular solar events and their impact on Earth and our vulnerable critical technical infrastructure. Moderator: Dr. Michael Morgan, Director of the Division of Atmospheric and		
9:00 AM	Panelists: • Dr. Louis Lanzerotti, Distinguished Research Professor of Physics, Center for Solar-Terrestrial Research, New Jersey Institute of Technology		
	 Dr. C. J. (Karel) Schrijver, Senior Fellow, Advanced Technology Center, Solar and Space Science, Lockheed Martin Space Systems Company, Palo Alto, CA 		
	 Mr. Charles Gay, Deputy Associate Administrator of the Science Mission Directorate, NASA Headquarters 		
	Colonel Daniel Edwards, Chief Integration, Plans, and Requirements, Directorate of Weather, Headquarters, United States Air Force		

Session 3: Critical Infrastructure Protection, Impact Mitigation, and Response

Session Coordinator: Mr. Michael Bonadonna (OFCM)

We depend on critical systems and activities affected by space weather, such as the electric power grid, communications, positioning and navigation, and national security. These effects must be understood, mitigation actions developed, and acceptable levels of risk assessed to build and support an informed and resilient society. This session covers the main areas in which space weather can have a significant impact on our modern technological society.

Moderator: Ms. Heather King, Executive Officer for the Program Executive Office National Planning Coordination and Assistance / National Preparedness Directorate Federal Emergency Management Agency

10:45 AM

Panelists:

- Mr. Micah J. Loudermilk, Energy & Environmental Security Policy, Institute for National Strategic Studies, National Defense University
- Mr. Scott Pugh, Interagency Programs Office, Science & Technology Directorate, Department of Homeland Security
- Dr. Michael Gregg, Professor of Oceanography, University of Washington
- **Mr. Anthony Russo**, Director, National Coordination Office for Space-Based Positioning, Navigation, and Timing

Luncheon: Served in the meeting room, noon to 1:15 pm

Noon	Lunch is served	
12:30 РМ	Introduction of Luncheon Plenary Speaker	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
12:35 PM	Luncheon Speaker	Dr. Tamara Dickinson , Senior Policy Analyst, Executive Office of the President, Office of Science and Technology Policy

1:15 PM Brief Break / Clear Lunch from Tables

Session 4: The Unified National Space Weather Capability

Session Coordinator: Mr. Michael Bonadonna (OFCM)

Over the past year, the Federal agencies engaged in the National Space Weather Program have been working to establish closer coordination in providing space weather science, research, and services to our Nation. The *Unified National Space Weather Capability*—the focus of this session—is seeking to achieve maximum efficiency and effectiveness in the provision of space weather services, research, and technology to our customers and stakeholders.

Moderator: Dr. David Applegate,

Associate Director for Natural Hazards, U.S. Geological Survey and Cochairman, Subcommittee on Disaster Reduction (SDR), Committee on Environment and Natural Resources (CENR), National Science and Technology Council (NSTC)

Panelists:

Space Weather Services and Operations

- **Dr. Kathryn Sullivan,** Assistant Secretary of Commerce for Environmental Observation and Prediction, National Oceanic and Atmospheric Administration
- Dr. Fred Lewis, Director of Weather, Headquarters, United States Air Force

1:30 PM

Space Weather Technology and Research

- **Dr. Barbara Giles,** Director, Heliophysics Division, Headquarters, National Aeronautics and Space Administration
- Dr. Richard Behnke, Head, Geospace Section, National Science Foundation
- **Dr. Arthur Charo**, Senior Program Officer, Space Studies Board, National Research Council

3:15 PM Afternoon Break

Session 5: Responding to New and Emerging Extreme Events

Session Coordinator: Mr. Michael Bonadonna (OFCM)

This session will examine the challenges and opportunities in raising awareness and understanding of space weather impacts on daily life, security, the global economy, infrastructure, and business continuity. It will highlight the current means of providing space weather information to the public and examine the nature of public response to extreme environmental events.

Moderator: Dr. Robert E. O'Connor,

Program Director, Decision, Risk and Management Sciences, Division of Social and Economic Sciences, Directorate of Social, Behavioral and Economic Sciences, National Science Foundation

Panelists:

3:30 PM

- **Dr. Genene Fisher,** Senior Advisor for Space Weather, National Weather Service, National Oceanic and Atmospheric Administration
- Dr. Phil Evans, Government Services Director, United Kingdom Meteorological Office.
- **Dr. Geoff Crowley,** President/Chief Scientist, Atmospheric & Space Technology Research Associates (ASTRA) and Executive Committee, American Commercial Space Weather Association (ACSWA)
- **Dr. Brenda Phillips,** Professor, Center for the Study of Disasters and Extreme Events, Fire and Emergency Management Program (FEMP) Graduate Student Coordinator, Department of Political Science, Oklahoma State University

Session 6: Summary and Wrap-Up

Session Coordinator: Mr. Michael Bonadonna (OFCM)

4:30 PM	Open Discussion	Session Moderators will provide summary comments regarding their sessions • Dr. Michael Morgan, Sessions 2 • Mr. Donald (Doc) Lumpkins, Sessions 3 • Dr. David Applegate, Sessions 4 • Dr. Robert E. O'Connor, Sessions 5
4:50 PM	Forum Wrap-up / Take Away	Dr. Paul Try Senior Vice President and Program Manager, Science and Technology Corporation
5:00 PM	Closing Plenary Speaker	The Honorable Trent Franks (R-AZ) United States Representative
5:15 PM	Closing Remarks	Mr. Samuel P. Williamson Federal Coordinator for Meteorology

5:30 PM Evening Mixer (First Amendment Room, National Press Club, 13th floor)