



2009 Space Weather Enterprise Forum

*Space Weather and our Technological Society –
Are We Ready for Solar Max?*



**Sponsored by the
National Space Weather
Program Council**

Commerce, Defense, Energy, Interior, State, Transportation, NASA, NSF
Office of the Federal Coordinator for Meteorological Services and Supporting Research

2009 Space Weather Enterprise Forum

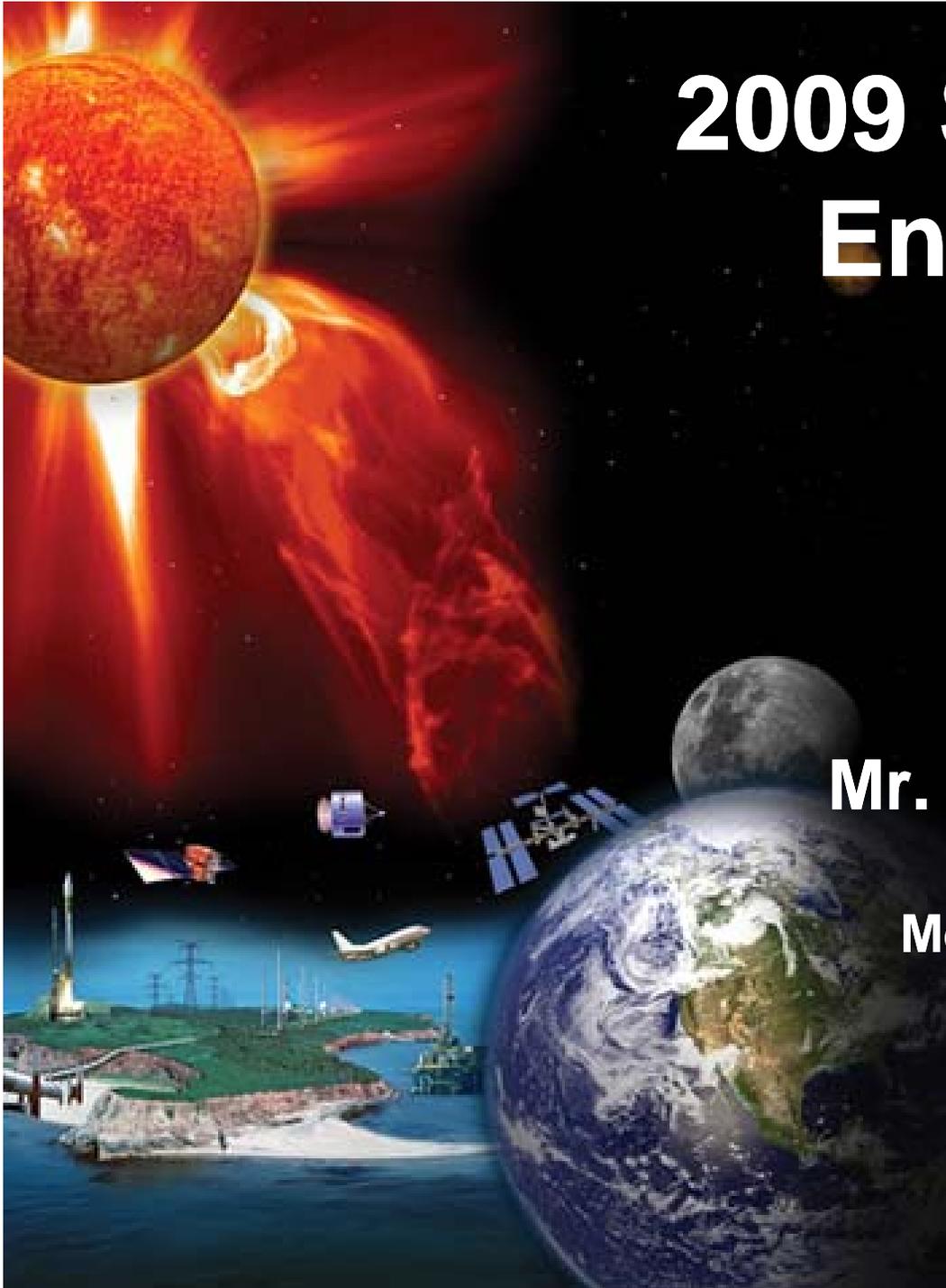


Mr. Samuel P. Williamson

**Federal Coordinator for
Meteorology and Chairman,
National Space Weather
Program Council**

May 19-20, 2009

Washington, DC



NSWP Council

- **Membership**

- Commerce: NOAA
- Defense: Air Force, Navy
- Energy
- Interior: US Geological Survey
- State
- Transportation: FAA
- NASA
- NSF
- OSTP and OMB (Observers)

Charter

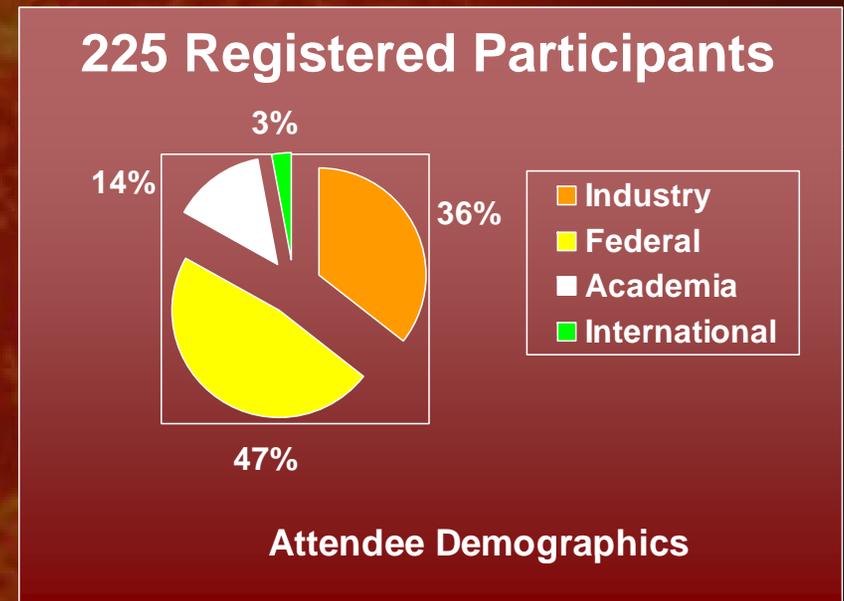
Provide oversight and direction to integrated process of setting national priorities, focusing agency efforts, and leveraging existing resources

- August 2008 – Agreed to host and organize the 2009 Space Weather Enterprise Forum



Objectives

- Explore **strategic partnering**
- Gather **actionable information** to move the enterprise forward
 - User information: **Needs, requirements, and priorities**
 - Input to new NSWP Strategic Plan
 - Input to new NSWP Implementation Plan
- **Advance the science**
- **Facilitate opportunities to transition research to operations**
- **Continue education and outreach**



Agenda

- **Session 1: Opening Addresses**

- Ms. Mary M. Glackin, Deputy Under Secretary for Oceans and Atmosphere, NOAA
- Dr. Tim Killeen, Assistant Director, Geosciences, National Science Foundation

- **Session 2: Policy Perspectives**

Moderator: Mr. Eric Webster, VP, Governmental and Industry Partnerships, ITT

- **Session 3: Transitioning Research to Operations**

Moderator: Dr. Louis Uccellini, Director, National Centers for Environmental Prediction



Luncheon - Guest Speaker



Dr. Neil deGrasse Tyson

Director, Hayden Planetarium, American Museum of Natural History, New York



Agenda

- **Session 4: Current Space Weather Products, Services, and Modeling**
Moderator: Ms. Maria Pirone, VP, Commercial Division, AER, Inc.
- **Session 5: Science and Technology**
Moderator: Dr. Belgacem Jaroux, Chief, Small Satellite Div, NASA Ames Research Center
- **Session 6: Requirements for Improving Products, Services, and Modeling**
Moderator: Dr. Louis Lanzerotti, Distinguished Research Prof of Physics, NJ Inst. of Tech
- **Reception / Icebreaker – 5 to 7 p.m. outside of the ballroom**



Agenda

MAY 20

- **Keynote Address:**
The Honorable Donna F. Edwards,
4th District of Maryland, U.S. House
of Representatives
House Committee on Science and
Technology and Subcommittee on
Space and Aeronautics



Agenda

- **Invited Presentations: Space Weather Sensors on Commercial Spacecraft**
 - **Manufacturer's Perspective: Mr. Marc Johansen, Dir. Space & Intel Programs, Boeing**
 - **Operator's Perspective: Mr. Timothy Deaver, Dir. Air Force Programs, Americom Government Services**
- **Session 7: Socioeconomic Relevance**

Moderator: Dr. Daniel Baker, Professor, and Director, Laboratory for Atmospheric and Space Physics, Univ of Colorado
- **Session 8: Education and Outreach**

Moderator: Mr. Clay Anderson, Senior Media Representative, Pepco Holdings, Inc.



Agenda

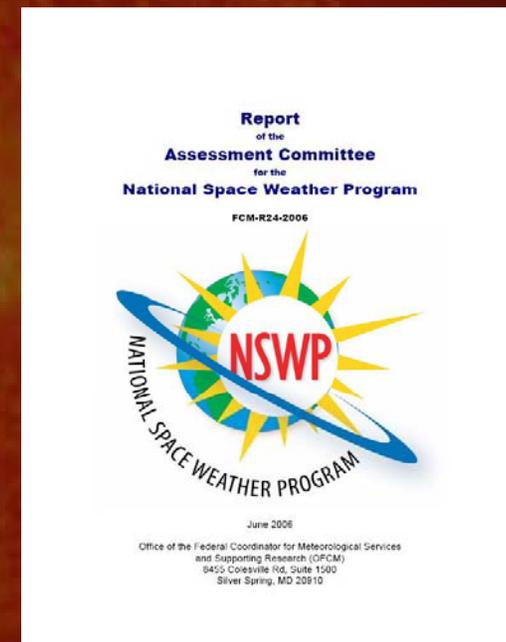
- **Session 9: Summary and Next Steps**
Wrap-Up by Dr. Louis Lanzerotti
- **Closing Remarks**

**Thank you to the speakers, moderators,
and panelists!**



Program Assessment, 2006

- **Independent Assessment Committee for the National Space Weather Program**
 - Dr. Louis Lanzerotti, Chair
 - Dr. Daniel Baker
 - Dr. Tammy Jernigan
 - Dr. Delores Knipp
 - Dr. Ray Williamson
 - Dr. Simon “Pete” Worden



NSWP Assessment

Revitalized the Program

- Foster education and outreach
 - Examples: Space Weather Enterprise Forum, Space Weather Workshop
- Facilitate transition of research to operations
- Advance the science with basic and focused research
- Assess social and economic impacts



Echoed in last year's Enterprise Forum results...
Objectives for this year!



Session 1: Opening Addresses



Opening Address



Ms. Mary M. Glackin,
Deputy Under
Secretary for Oceans
and Atmosphere,
NOAA



Opening Address



Dr. Tim Killeen,
Assistant Director,
Geosciences, National
Science Foundation



Session 2: Policy Perspectives

Moderator: **Mr. Eric Webster**, Vice President,
Government and Industry Partnerships, ITT



Panelists:

- **Dr. Robie Samanta Roy**, Assistant Director for Space and Aeronautics, Office of Science and Technology Policy, Executive Office of the President
- **Ms. Barbara Ryan**, Director, WMO Space Programme, World Meteorological Organization
- **Dr. John Sommerer**, Head, Space Department, and Chief Technology Officer, Johns Hopkins University Applied Physics Laboratory
- **Dr. Lennard Fisk**, Thomas M. Donahue Distinguished University Professor of Space Science, University of Michigan



Session 3: Transitioning Research to Operations

Moderator: **Dr. Louis Uccellini**, Director,
National Centers for Environmental
Prediction, National Weather Service



Panelists:

- **Dr. Richard Behnke**, Director, Upper Atmospheric Research Program, National Science Foundation
- **Dr. Jill Dahlburg**, Space Science Division Superintendent, Naval Research Laboratory
- **Dr. Michael Hesse**, Chief, Space Weather Laboratory, NASA Goddard Space Flight Center
- **Dr. Joel Mozer**, Space Weather Center of Excellence, Air Force Research Laboratory



Luncheon - Guest Speaker



Dr. Neil deGrasse Tyson





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