

2009 Space Weather Enterprise Forum

AGENDA

Tuesday, May 19, 2009

7:30 AM Registration and continental breakfast

Session 1: Opening Session

Session Coordinator: Mr. Michael Babcock (OFCM)

8:45 AM	Forum Opening and Introduction	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
9:00 AM	Opening Address	Ms. Mary M. Glackin , Deputy Under Secretary for Oceans and Atmosphere, NOAA
9:15 AM	Opening Address	Dr. Tim Killeen , Assistant Director, Geosciences, National Science Foundation

Session 2: Policy Perspectives

Session Coordinator: Mr. Michael Babcock (OFCM)

9:30 AM	Introduction of First Panel	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
9:35 AM	<p><i>Policy Perspectives</i> examines current policy on space weather research and operations, ideas for policy changes, international views, and issues from both inside the government and out, including political implications of a major space weather event.</p> <p>Moderator: Mr. Eric Webster, Vice President, Governmental and Industry Partnerships, ITT</p> <p>Panelists:</p> <ul style="list-style-type: none">• 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	

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10:30 AM Morning Coffee Break

Session 3: Transitioning Research to Operations

Session Coordinator: Colonel Mark Zettlemoyer (Dir. of Weather, HQ US Air Force)

11:00 AM	<p><i>Transitioning Research to Operations</i> examines the persistent challenges of effectively moving research results into operational capability from both the research and operational sides, including specific organizational and process approaches to easing this transition.</p> <p>Moderator: Dr. Louis Uccellini, Director, National Centers for Environmental Prediction, National Weather Service</p> <p>Panelists:</p> <ul style="list-style-type: none"> • 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
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Luncheon (served in the meeting room)

Session Coordinator: Dr. Madhulika Guhathakurta (NASA)

12:00 PM	Introduction of Luncheon Speaker	<p>Mr. Samuel P. Williamson Federal Coordinator for Meteorology</p>
12:10 PM	Guest Speaker	<p>Dr. Neil deGrasse Tyson, Astrophysicist and the Frederick P. Rose Director of the Hayden Planetarium at the American Museum of Natural History, New York</p>

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Session 4: Current Space Weather Products, Services, and Modeling

Session Coordinator: Major David Rodriguez, USAF (Dept of Energy)

1:00 PM	<p><i>Current Space Weather Products, Services, and Modeling</i> surveys today's operational capabilities from the defense, civil, and private sector provider perspective as well as the benefits, challenges, and opportunities in deriving operational capability from research missions.</p> <p>Moderator: Ms. Maria Pirone, Vice President, Commercial Division, AER, Inc.</p> <p>Panelists:</p> <ul style="list-style-type: none">• Dr. Fred Lewis, Director of Weather, Headquarters, U.S. Air Force• Dr. Jack Hayes, Assistant Administrator for Weather Services and Director, National Weather Service• Dr. Kent Tobiska, President, Space Environment Technologies, Inc.• Dr. Richard Fisher, Director, Heliophysics Division, NASA Headquarters
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2:00 PM Afternoon Break

Session 5: Science and Technology

Session Coordinator: Dr. Madhulika Guhathakurta (NASA)

2:30 PM	<p><i>Science and Technology</i> examines recent and imminent breakthroughs and implications for the enterprise, emerging research and development showing promise in the near term and more distant horizon, and considers future focus areas for the highest potential payoffs.</p> <p>Moderator: Dr. Belgacem Jaroux, Chief, Small Satellite Division, NASA Ames Research Center</p> <p>Panelists:</p> <ul style="list-style-type: none">• Dr. Chris St. Cyr, Heliophysics Science Division, NASA Goddard Space Flight Center• Dr. Paul Kintner, Professor, School of Electrical and Computer Engineering, Cornell University• Dr. James Eraker, Staff Consultant/Engineer, Ball Aerospace & Technologies, Inc.• Dr. Larry Paxton, Space Department, The Johns Hopkins University Applied Physics Laboratory
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Session 6: Requirements for Improving Products, Services, and Modeling

Session Coordinator: Dr. Thomas Bogdan (NOAA SWPC)

3:30 PM	<p><i>Requirements for Improving Products, Services, and Modeling</i> examines needs and requirements from across the spectrum of space weather users, including civilian, military, operations, and research, considers how we identify needs/requirements, and provides key input to the National Space Weather Program strategic planning process.</p> <p>Moderator: Dr. Louis Lanzerotti, Distinguished Research Professor of Physics, Center for Solar-Terrestrial Research, New Jersey Institute of Technology</p> <p>Panelists:</p> <ul style="list-style-type: none">• Dr. Michael Ryschkewitsch, Chief Engineer, NASA• Dr. Juergen Drescher, Head, Washington Office, DLR German Aerospace Center• Mr. Robert Broussard, The Aerospace Corporation, Sr. Technical Advisor to Headquarters, U.S. Air Force Space Command• Ms. Mary Kicza, Assistant Administrator for Satellite and Information Services, NOAA
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5:00 PM Reception/Icebreaker (5:00-7:00 PM)

2009 Space Weather Enterprise Forum

Wednesday, May 20, 2009

8:00 AM Registration and continental breakfast

Second Day Opening and Keynote Address

Session Coordinator: Mr. Michael Bonadonna (OFCM)

8:30 AM	Forum Opening and Introduction	Mr. Samuel P. Williamson Federal Coordinator for Meteorology
8:40 AM	Keynote Address	The Honorable Donna F. Edwards (D-MD) , Member, House Committee on Science and Technology and The Subcommittee on Space and Aeronautics

Invited Presentations – Space Weather Sensors on Commercial Spacecraft

Session Coordinator: Mr. Michael Bonadonna (OFCM)

9:00 AM	Space Weather Sensors on Commercial Spacecraft: A Manufacturer's Perspective	Mr. Marc C. Johansen , Director, Space and Intelligence Programs, Washington DC Operations, Boeing
9:15 AM	Space Weather Sensors on Commercial Spacecraft: An Operator's Perspective	Mr. Timothy L. Deaver , Director, Air Force Programs Americom Government Services

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Session 7: Socioeconomic Relevance

Session Coordinator: Dr. Suzanne Parete-Koon (Dept of State)

9:30 AM	<p><i>Socioeconomic Relevance</i> examines effects of space weather on our technological society, underscores the importance of preparing for these effects, and considers mitigation approaches and challenges for low frequency, very high impact events.</p> <p>Moderator: Dr. Daniel Baker, Professor and Director, Laboratory for Atmospheric and Space Physics, University of Colorado</p> <p>Panelists:</p> <ul style="list-style-type: none">• Dr. Todd LaPorte, Research Associate Professor, George Mason University• Mr. John Kappenman, Consultant to Metatech Corp.• Dr. Kevin F. Forbes, Associate Professor and Chair, Department of Business and Economics, The Catholic University of America• Mr. Leo Eldredge, GNSS Program Manager, Air Traffic Organization, Navigation Services, Federal Aviation Administration
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10:30 AM Morning Coffee Break

Session 8: Education and Outreach

Session Coordinator: Dr. Richard Behnke (NSF)

11:00 AM	<p><i>Education and Outreach</i> examines the challenges and opportunities in raising public and stakeholder awareness and understanding of space weather impacts on daily life, security, the global economy, infrastructure, and business continuity.</p> <p>Moderator: Mr. Clay Anderson, Senior Media Representative, Pepco Holdings, Inc.</p> <p>Panelists:</p> <ul style="list-style-type: none">• Mr. R. James Caverly, Director, Partnership and Outreach Division, Office of Infrastructure Protection, Department of Homeland Security• Mr. David Jones, President, Storm Center, Inc.• Dr. Delores Knipp, National Center for Atmospheric Research (Emeritus U.S. Air Force Academy)• Dr. David Crain, Manager of MetSat and Environmental Satellite Programs
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Session 9: Summary and Next Steps

Session Coordinator: Mr. Michael Babcock (OFCM)

Noon	Forum Wrap-up and Summary of Key Take-away Information	Dr. Louis Lanzerotti , Distinguished Research Professor of Physics, Center for Solar-Terrestrial Research, New Jersey Institute of Technology
12:20 PM	Closing Remarks	Mr. Samuel P. Williamson Federal Coordinator for Meteorology

Forum adjourns at 12:30 p.m.