



## Weather Ready Nation: A Vital Conversation

December 13 - 15, 2011  
Norman, OK

### National Weather Center - University of Oklahoma, Norman, Oklahoma

#### Monday, December 12

5:30 – 8:00	<b>Registration, NWC Entranceway</b>
6:00 – 8:00	<b>Icebreaker, NWC Atrium</b> - Continuous bus service available every half-hour between Embassy Suites and NWC.

#### Tuesday, December 13

7:30	<b>Coffee, outside NWC Auditorium</b>
8:30	<b>Welcome and Motivation, NWC Auditorium, Rm. 1313</b> <ul style="list-style-type: none"> <li>• OU - Dr. Berrien Moore</li> <li>• NOAA - Dr. Jane Lubchenco</li> </ul>
8:45	<b>Keynote Address</b> <ul style="list-style-type: none"> <li>• State Perspective - Governor Mary Fallin</li> </ul>
9:00	<b>Leadership Perspectives &amp; Expectations</b> <ul style="list-style-type: none"> <li>• NOAA/NWS – Dr. Jack Hayes – “Weather Ready Nation”</li> <li>• FEMA – Russell Washington</li> <li>• NCAR/UCAR – Dr. Roger Wakimoto</li> <li>• NSF – Dr. Michael Morgan</li> <li>• Known Challenges – Dr. Harold Brooks, NOAA-OAR-NSSL</li> <li>• NWS: The Historic 2011 Tornado Season – Dr. Russell Schneider, NOAA-NWS-SPC</li> <li>• Meeting Logistics – John Ferree, NOAA-NWS; Tara Torres JOSS</li> </ul>
10:00	<b>Break</b>
10:20	<b>Impacted by the Events of 2011</b> <ul style="list-style-type: none"> <li><b>National</b> <ul style="list-style-type: none"> <li>• Broadcast Meteorologist: Dr. Greg Forbes, The Weather Channel</li> </ul> </li> <li><b>North Carolina Outbreak</b> <ul style="list-style-type: none"> <li>• Broadcast Meteorologist: Greg Fishel, WRAL-TV Raleigh, NC</li> </ul> </li> <li><b>27 April Super Outbreak</b></li> </ul>

<p><b>11:35</b></p> <p><b>12:00</b></p>	<ul style="list-style-type: none"> <li>Public Safety Leadership: Ken Horst, Fire and Rescue Service, Tuscaloosa, AL; Bill Bullock, International Association of Fire Chiefs</li> </ul> <p><b>May 22 – Joplin, Missouri</b></p> <ul style="list-style-type: none"> <li>Emergency Management: Keith Stammer, Jasper County Emergency Management</li> </ul> <p><b>Major Events of 2011 – Initial Assessments</b></p> <ul style="list-style-type: none"> <li>NWS Service Assessments (2011 Super Outbreak, Joplin Tornado, North Carolina Outbreak, St. Louis Tornado): David Caldwell, NOAA-NWS</li> <li>Post 27 April Outbreak Survey: Dr. Gabriela Carrasco, University of North Alabama; Dr. Laura Myers, Mississippi State University</li> </ul> <p><b>Lunch, NWC Atrium</b></p> <ul style="list-style-type: none"> <li>An Economic Analysis of U.S. Severe Weather: Steve Bowen, AON Impact Forecasting, LLC</li> </ul>
<p><b>1:00</b></p> <p><b>2:00</b></p> <p><b>3:00</b></p> <p><b>3:20</b></p>	<p><b>Panel Discussions, NWC Auditorium</b></p> <p><b><u>Improve NOAA Forecasts and Warnings for Severe Weather:</u></b> This panel discussion will focus on the integrated warning team actions from long term forecasts through watches and warnings.</p> <p><b>Moderator:</b> Dr. Joe Friday, Director, National Weather Service (Retired)</p> <p><b>Panelists:</b> Physical Science Academic: Dr. Yvette Richardson, Penn State University Private Sector Meteorologist: Mike Smith, Accu-Weather Emergency Management: Bob Goldhammer, IAEM Emergency Management: Russell Washington, FEMA National Watch Center Broadcast Meteorologist: Jacqui Jeras, CNN Social Science Academic: Dr. Joe Trainor, University of Delaware</p> <p><b><u>Improve Service Delivery:</u></b> This panel discussion will focus on improving communication to the public, leveraging recent and future advances in communications technologies to reach larger segments of the population, and improving public response.</p> <p><b>Moderator:</b> Dr. John Snow, Dean Emeritus Meteorology, University of Oklahoma</p> <p><b>Panelists:</b> Private Sector Meteorologist: Mike Eilts, Weather Decision Technologies Emergency Management: Wade Witmer, FEMA IPAWS Deputy Director Media: Ray Ban, The Weather Channel Social Science Academic: Dr. Joe Downing, Penn State University Social Science Academic: Dr. Baruch Fischhoff, Carnegie-Mellon University</p> <p><b>Break</b></p>

<p>4:20</p> <p>5:20</p> <p>5:30</p>	<p><b>Sharpen Science-Service Linkage:</b> This panel discussion will focus on science and research challenges and priorities from both the physical and social science/research community.</p> <p><b>Moderator:</b> Dr. Michael Morgan, National Science Foundation</p> <p><b>Panelists:</b> Physical Science Academic: Dr. Paul Markowski, Penn State University Physical Science Academic: Dr. David Stensrud, NOAA National Several Storms Lab Private Sector Research: Dr. Josh Wurman, Center for Severe Weather Research Social Science Academic: Dr. Hank Jenkins-Smith, Univ. of Oklahoma, Center for Applied Social Research Social Science Academic: Dr. Shirley Laska, Univ. of New Orleans, Center for Hazards Assessment</p> <p><b>Leverage Community Planning and Impacts Mitigation:</b> This panel discussion will focus on improving community resilience to severe weather and tornadoes allowing communities to plan and respond effectively to save lives, reduce community impacts, and support rapid recovery.</p> <p><b>Moderator:</b> Dr. Bill Hooke, American Meteorological Society, Policy Office</p> <p><b>Panelists:</b> NIST: Dr. Mark Levitan, NIST FEMA: Mike Vineyard, FEMA, Preparedness and Emergency Operations NGO: Tim Reinhold, Insurance Institute for Business and Home Safety Civil Engineer/Academic: Dr. David Prevatt, University of Florida, American Society of Civil Engineers (ASCE) Emergency Management: Albert Ashwood, Oklahoma Department of Emergency Management</p> <p><b>Introduction to Cross-Cut Breakout Groups - Goals and Logistics</b></p> <p><b>Adjourn, break before dinner</b></p>
<p>6:30</p> <p>7:30</p>	<p><b>Dinner at Embassy Suites Hotel - Tables seated by Cross Cut Groups</b></p> <p><b>Dinner Speaker:</b></p> <ul style="list-style-type: none"> <li>• Dr. Baruch Fischhoff, Carnegie-Mellon University, Challenges in communication of risk</li> </ul>
<p><b>Wednesday, December 14</b></p>	

<p>7:30</p> <p>8:30</p> <p>8:50</p> <p>9:00</p> <p>10:10</p> <p>10:30</p> <p>10:40</p> <p>12:00</p>	<p><b>Coffee, outside NWC Auditorium</b></p> <p><b>Keynote Address, NWC Auditorium</b></p> <ul style="list-style-type: none"> <li>• Margaret Davidson, NOAA Coastal Services Center</li> </ul> <p><b>Charge to the Community Breakouts, John Ferree, NOAA-NWS</b></p> <p><b>Breakout Community Groups - meeting rooms throughout NWC</b></p> <p><b>Break</b></p> <p><b>Charge to the Cross Cut Groups and Group Logistics, NWC Auditorium</b></p> <p><b>Cross Cut Groups Questions</b> – Some of the key questions listed below will be discussed in the three cross-cut groups. Note: questions may change based on outcome from panel discussions.</p> <p><b>Breakout to Cross Cut Groups - meeting rooms throughout NWC</b></p> <p><b>Cross Cut 1:</b></p> <ol style="list-style-type: none"> <li>1. What did you learn from the events of 2011?</li> <li>2. If the lead time and accuracy of forecasts of tornadic outbreaks increases, how can we expect society to function differently?</li> </ol> <p><b>Lunch, NWC Atrium</b></p>
<p>1:00</p> <p>1:30</p> <p>3:00</p> <p>3:20</p> <p>5:00</p>	<p><b>Presentation, NWC Auditorium</b></p> <ul style="list-style-type: none"> <li>• Economic Costs of Warnings: Dr. Kevin Simmons, Austin College</li> </ul> <p><b>Breakout to Cross Cut Groups (<i>continued from Morning Session</i>)</b></p> <p><b>Cross Cut 2:</b></p> <ol style="list-style-type: none"> <li>3. In the entire end-to-end process, what are the largest gaps in our current understanding: science, cultural understanding, societal impacts, planning, coordination, decision-making, and/or resiliency?</li> <li>4. What kind of information is needed to incite the appropriate level of response by the public?</li> </ol> <p><b>Break</b></p> <p><b>Breakout to Cross Cut Groups (<i>continued</i>)</b></p> <p><b>Cross Cut 3:</b></p> <ol style="list-style-type: none"> <li>5. What are the near-term and long-term actions that can improve public response and resiliency to tornadoes?</li> <li>6. How should these actions be prioritized and implemented?</li> </ol> <p><b>Adjourn, break before dinner</b></p>

5:15-6:00	<b>National Weather Center Building Tours, meet in NWC Atrium</b>
6:00	<b>BBQ Dinner, NWC Atrium</b> Dinners by community – informally discuss priorities & gaps for your community
7:30	<b>End of Day 2</b> Breakout session summaries will be integrated for a unified presentation and discussion on Thursday morning.

<b>Thursday, December 15</b>	
7:30	<b>Coffee, outside NWC Auditorium</b>
8:30	<b>Opening Session Remarks, NWC Auditorium</b> <ul style="list-style-type: none"> <li>• Introduction: Dr. Kelvin Droegemeier, University of Oklahoma</li> <li>• How will the Workshop inform NOAA's future? Dr. Kathryn Sullivan, NOAA</li> </ul>
8:45	<b>Summary and Discussion of Findings by Cross Cut Groups</b>
10:15	<b>Break</b>
10:30	<b>Community Breakout</b> – Critical Gaps, Short and Long Term Priorities for your specific community, for the weather enterprise, and for NOAA.
11:45	<b>Closing Remarks, NWC Auditorium</b> <ul style="list-style-type: none"> <li>• Dr. Kathryn Sullivan, Deputy Administrator, NOAA</li> </ul>
12:00	<b>Adjourn General Meeting - End of Workshop</b>
1:00	<b>Executive Session</b> - synthesize key outcomes; organize efforts toward creation of workshop report and AMS Annual Meeting presentation  <b>Charge to Executive Session:</b> Dr. Kathryn Sullivan & Dr. Jack Hayes