May 20, 2013

3:00 p.m.–6:00 p.m.  Registration ................................................................. Outside Quorum Room
5:30 p.m.–7:00 p.m.  Reception ................................................................. Solarium

May 21, 2013

8:00 a.m.–5:00 p.m.  Registration ................................................................. Outside Quorum Room
8:00 a.m.–9:00 a.m.  Breakfast ................................................................. Solarium
9:00 a.m.–9:30 a.m.  Welcome ................................................................. Ballroom C/D
Joan McDonald, Commissioner, New York State Department of Transportation; Chair, Sustainable Transportation: Energy, Infrastructure and Climate Solutions Steering Committee
Bud Wright, Executive Director, AASHTO
Gloria Shepherd, Associate Administrator, FHWA Office of Planning, Environment & Realty

Session I: State DOT Experiences with Recent Extreme Weather Events
This session will feature case studies highlighting the extreme weather experiences of state DOTs. Case studies will describe impacts to transportation, share lessons learned on system performance, and contribute best practices.
Facilitator: Karuna Pujara, Maryland DOT

9:30 a.m.–10:30 a.m.  Case Studies on Storms and Flooding
New Jersey DOT: Our Bout with Superstorm Sandy; Richard Shaw, New Jersey DOT
Flooding in the Midwest: A Minnesota Case Study; Andrea Hendrickson, Minnesota DOT
Impacts of “Snowmageddon” on Transportation; Terry Bellamy, District of Columbia DOT

10:30 a.m.–10:45 a.m.  Break

10:45 a.m.–11:30 a.m.  Case Studies on Wildfires and Dust Storms
2012 Waldo Canyon Fire; David Watt, Colorado DOT
Dust Storms in Arizona: The Challenge to Ensure Motorist Safety; Jennifer Toth, Arizona DOT

11:30 a.m.–Noon  Synthesis and Discussion of Recent State DOT Experiences with Extreme Weather
Karuna Pujara, Maryland DOT

Noon–1:00 p.m.  Lunch and Presentation ................................................................. Solarium
Inland Waterway Navigation: Effects of Disruptions and Lessons Learned;
Alan Meyers, Parsons Brinckerhoff

Session II: Extreme Weather Events—Trends, Projections, and Integrating Information into Decisions
This session will cover trends and projections for extreme weather events across the United States. It will also provide examples of how state DOTs have partnered with agencies such as NOAA in order to access needed information on extreme weather events. During discussions, participants will exchange ideas for integrating available information into transportation decision making.
Facilitator: Elisabeth Kolb, New York State DOT

1:15 p.m.–2:30 p.m.  Extreme Weather Events in the United States: Trends and Projections .................................................... Ballroom C/D
Joe Casola, Center for Climate and Energy Solutions (C2ES)
Integrating Weather Forecasts into Transportation Decision Making ........................................ Ballroom C/D
David Green, National Weather Service
Useful Weather and Climate Resources for State DOTs .................................................. Ballroom C/D
Ellen Mecray, NOAA

2:30 p.m.–3:15 p.m.  Breakout Groups by Extreme Weather Event
Coastal storms; Facilitator: Kevin Walsh, Massachusetts DOT .............................................. Ballroom C/D
Inland floods; Facilitator: Michael Kennerly, Iowa DOT ........................................................ Monet 1
Winter storms; Facilitator: Randy Van Portfliet, Michigan DOT .............................. Monet 2
Heat waves, wildfires, and droughts; Facilitator: Kristen Keener Busby, Arizona DOT ...... Monet 3

Assignment: Each group should prepare a “needs statement” stating (in 2 min or less) what data/information/assistance state DOTs need in order to better prepare for and recover from each type of extreme weather.

3:15 p.m.–3:30 p.m. Break

3:30 p.m.–3:45 p.m. Presentation of Needs Statements .................................................. Ballroom C/D

Session III: Costs of Extreme Weather ................................................................. Ballroom C/D
This session will provide participants with examples of how state DOTs and other agencies have evaluated the costs of extreme weather and benefits of adaptation.
Facilitator: Elisabeth Kolb, New York State DOT

3:45 p.m.–4:10 p.m. Analyzing Extreme Weather Costs for Roadway Investment Decisions
Nathaniel Coley, U.S. DOT

4:10 p.m.–4:30 p.m. Evaluating the Cost of Replacing Bonner Bridge
Joe Turner, North Carolina DOT

4:30 p.m.–5:00 p.m. Discussion: Costs of Extreme Weather
- What kinds of cost information do state DOTs need? How do state DOTs envision using these cost data?
- What are the barriers to collecting this information? What could be done to help DOTs overcome these barriers?

May 22, 2013

7:30 a.m.–8:30 a.m. Breakfast and Presentation .......................................................... Solarium
Welcome and Day 1 Recap; Jennifer Brickett, AASHTO

Session IV: Managing Extreme Weather Events (Design, Operations and Maintenance) .......... Monet 1 and 2
This session contains two breakout sessions that will highlight the potential design and O&M strategies that state DOTs are pursuing in order to increase resilience to extreme weather.
Facilitators: Rick Land, Caltrans (Design) and Jennifer Brandenburg, NCDOT (Operations and Maintenance)

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<thead>
<tr>
<th>Time</th>
<th>Design Breakout</th>
<th>Operations and Maintenance Breakout</th>
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<tr>
<td>8:45 a.m.–9:05 a.m.</td>
<td>Designing for Extreme Weather Events: Survey Results from the AASHTO Highway Design Subcommittee; Rick Land, Caltrans</td>
<td>ALDOT Operations and Extreme Weather Events; George Conner, Alabama DOT</td>
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<td>Changes to Extreme Precipitation Events: What the Historical Record Shows and What It Means for Engineers; Geoffrey Bonnin, National Weather Service</td>
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<td>9:05 a.m.–9:25 a.m.</td>
<td>Generating Extreme Weather Projections and Using Them to Assess Vulnerability: Gulf Coast Phase 2; Rob Kafalenos, FHWA</td>
<td>Impacts of Extreme Weather on Operations and Maintenance with a Focus on Lake Effect Snow; Greg Johnson, Michigan DOT</td>
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<td>9:25 a.m.–9:45 a.m.</td>
<td>Vermont’s Rivers and Roads: Managing for the Future; Rich Tetreault, VTrans</td>
<td>Extreme Weather Events and Commercial Motor Vehicles in Missouri; Jan Skouby, Missouri DOT</td>
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<td>9:45 a.m.–10:15 a.m.</td>
<td>Discussion: Design Approaches</td>
<td>Discussion: O&amp;M Approaches</td>
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<td>10:15 a.m.–10:30 a.m.</td>
<td>Break</td>
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Session V: Managing Extreme Weather (Emergency Management) ........................................ Ballroom C/D
This session will cover emergency management of extreme weather events. Case studies will focus on communication strategies, special considerations for extended extreme weather events, and rebuilding to increase resilience.
Facilitator: John Himmel, Washington State DOT

10:30 a.m.–10:50 a.m. Managing Vermont’s Emergency Response to Irene
Rich Tetreault, VTrans

10:50 a.m.–11:10 a.m. Managing an Extreme Weather Event of Prolonged Duration
Michael Kennerly, Iowa DOT

11:10 a.m.–11:30 a.m. Innovative Communication Strategies During Extreme Weather Events
Lloyd Brown, AASHTO

11:30 a.m.–Noon Discussion: Managing Extreme Weather Best Practices
• Best practices by time-frame (before event, during event, after event)
• How can we re-build to increase resilience?
• What are effective communication strategies? How can we best leverage social media during extreme weather events?

Noon–1:00 p.m. Lunch and Presentation ............................................................. Solarium
Resiliency; Roderic Sechrist, New York State DOT

Session VI: Risk Assessment and Asset Management ...................................................... Ballroom C/D
This session will focus on vulnerability and risk assessments, with an emphasis on how asset management systems can support those assessments.
Facilitator: Alan Jones, Tennessee DOT

1:00 p.m.–1:40 p.m. Introduction to Risk Assessment and Asset Management
Overview of FHWA Vulnerability Assessment Framework and Pilot Program; Becky Lupes, FHWA
Transportation Asset Management: A Risk-Based Approach; Butch Wlaschin, FHWA

1:40 p.m.–2:00 p.m. WSDOT’s Risk Assessment
Casey Kramer, Washington State DOT

2:00 p.m.–2:20 p.m. Evaluating Flood Risk in Massachusetts
Kevin Walsh, Massachusetts DOT

2:20 p.m.–2:40 p.m. Break

2:40 p.m.–3:00 p.m. Coordinating Minnesota’s Transportation Assets and Extreme Weather Vulnerability
Duane Hill, Minnesota DOT

3:00 p.m.–3:30 p.m. Discussion: Risk Assessment and Asset Management
• What are best practices for assessing vulnerability and risk due to extreme weather events?
• What kinds of data and processes are required for a successful vulnerability assessment?
• How can asset management systems be used to support risk assessment?

Closing Keynote Address
3:30 p.m.–4:00 p.m. Symposium Synthesis & Moving Forward ........................................ Ballroom C/D
Michael Lewis, AASHTO President and Director of Rhode Island DOT