3rd National Symposium on Surface Transportation Weather (3NSTWS) Summary and Insights

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Operations Technical Service Team
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Resource Center
Sponsors:

- National Oceanic and Atmospheric Administration (NOAA) - Office of the Federal Coordinator for Meteorological Services and Supporting Research (OFCM)
- Road Weather Management Program
  Federal Highway Administration (FHWA)

Professional Partners:

- Surface Transportation Weather Task Force
  Transportation Research Board
- Intelligent Transportation Systems & Surface Transportation Committee
  American Meteorological Society
- Weather Information Applications Special Interest Group
  ITS America

Symposium Summary & Insights
Theme:

**IMPROVING COMMERCE & REDUCING DEATHS & INJURIES THROUGH INNOVATIVE, WEATHER-RELATED R&D AND APPLICATIONS FOR THE SURFACE TRANSPORTATION SYSTEM**

Objectives:

- Observation strategy
- Priorities, challenges & opportunities
- Products & Services
- Socioeconomic impacts
- Information Dissemination technologies
- Partnerships
Approach --- R&D Needs:

Symposium Summary & Insights
Location - Vienna, Virginia
Attendance - 132+ people
Sessions -

- Improving Economic and Life Decisions: Social and Economic Impacts and Benefits
- Modeling and Prediction: Required Products and Services
- Weather Information Dissemination in Support of Effective Decision Making
- Creating Synergy in All Components of Surface Transportation Weather Applications

Symposium Summary & Insights
Keynote Address

- Jeffrey N. Shane, Under Secretary of Transportation for Policy.
  - Importance of weather
  - Partnership and collaboration
  - Cross-departmental coordination
Keynote Address

- VADM Conrad C. Lautenbacher, Jr., USN (Ret.), Under Secretary of Commerce for Oceans and Atmosphere/Administrator NOAA

- Nation’s Commerce
- Importance of Partnerships
- Working together
- User needs
Keynote Address

ดร. เจน ไวท์เนียร์, ผู้ช่วยผู้อำนวยการสำหรับการสิ่งแวดล้อม, สำนักงานของนโยบายวิทยาศาสตร์และเทคโนโลยี, สำนักงานของผู้บริหารสำนักงานของประธาน。

- Surface Transportation and Earth Observations & Climate Change
- U.S. Climate Change Science Program
- Integrated Earth Observation System
Results

✓ Current and Emerging Capabilities and Transition of Research to Operations activities to Improve products and services.

✓ Getting the Right Message Out - Need for Social Involvement.

✓ Education and Outreach.

Symposium Summary & Insights
Results (Cont.)

✓ Need for Metrics to Measure Success and Guide resource Allocation. The following is a draft set of metrics to consider:
  » A 5-year target of a 25% reduction in roadway weather-related injuries?
  » A 10-year target of a 50% reduction in roadway weather-related injuries?
  » A 5-year target of a 25% reduction in roadway weather-related congestion?
  » A 10-year target of a 50% reduction in roadway weather-related congestion?

✓ Gaps and Research Priorities.

✓ Opportunity for a Near-Term Intermodal initiative.
Recommended Action Items:

- Develop an integrated observing strategy.
- Establish several high-level R&D priorities.
- Consider sponsoring a multimodal surface transportation weather demonstration project (road/rail/maritime/pipeline/etc.).
- Conduct socioeconomic surveys of impacts and needed format/semantic changes.

Symposium Summary & Insights
3rd National Symposium on Surface Transportation Weather

Symposium web site:

http://www.ofcm.gov/wist/wist.htm

Please check the web site for symposium information, presentations, and summary report.

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Symposium Summary & Insights