

TRB STANDING COMMITTEE ON SURFACE TRANSPORTATION WEATHER -- AH010 --

- ✓ The exchange of information on the effects of weather on all modes of surface transportation both within and between the transportation and meteorological communities
- ✓ Identification and development of research needs and technology transfer to better manage surface transportation
- ✓ Promote the efforts to minimize the impacts of weather and maximize safety and mobility

Committee Highlights

- **22 members**
 - Rhonda Young, Committee Research Coordinator (CRC) and Research subcommittee chair
 - Tae Kwon, Committee Communication Coordinator
- **46 committee friends**
- **Committee membership breakdown:**
 - 19 Governmental agencies
 - 20 Consultant or Trade organizations
 - 30 Academic organizations
 - 8 Foreign countries: *Sweden, Japan, Norway, Canada, Belgium, Finland, France*
- Successful 2016 International Conference and Workshop on Winter Maintenance and Surface Transportation Weather, held in Fort Collins, CO this past April
- A new Call for Papers in 2017 **Title: Critical Research Needs in Surface Transportation Weather**

_____2015-2016 Committee Highlights_____

- **2017 Call for Papers:** *Connected Road Weather Sensing: Technologies, Applications, Modeling, and its Impact on Traveler Information, Maintenance and Operations*
 - Co-sponsors: AHD65 Winter Maintenance, AHB15 Intelligent Transportation Systems, AHB20 Freeway Operations, AHD15 Maintenance and Operations Personnel, AHD60 Maintenance Equipment
 - Received **33 papers** in response to the Call and recognized research needs in Surface Transportation Weather
- **Created a subcommittee on Research**
 - To address the impacts of all types of weather on particularly on congested or nearly congested facilities; improve understanding of weather datasets on roadway operations/maintenance; identify standards in describing road weather events; and challenges in compiling weather datasets

2015-2016 Committee Highlights

- **Sponsored or Co-sponsored Annual Meeting sessions:**
 - Use of Roadway Weather Information Systems and Vehicle Sensor Data in Surface Transportation (276)
 - Applications of Connected and Automated Vehicles to System Maintenance and Operations (356) *with ADH00, AHO00, AHD65*
 - Driving Behavior Under Limited Visibility Conditions (618)
 - Surface Transportation Weather and Its Effects on Traffic Networks (725)
 - Surface Processes Affecting Snow Accumulation on Roads (729) *with AHD65*

2015-2016 Committee Highlights

•Worked with several Groups and Committees:

- Part of the planning committee for the *2015 Surface Transportation System Resilience to Climate Change and Extreme Weather Events*, September 2015
- A Cross Cutting session on *Applications of Connected/Automated Vehicle to System Maintenance and Operations*
 - Sponsored by Operations and Preservation Group (AH000) and co-organized with Maintenance Preservation (AHD00) and Operations Sections (AHB000)
- Co-sponsored a Workshop: *Decision Support Systems for Transportation Systems Management & Operations (TSM&O)*
 - with Freeway Operations (AHB20) and on Regional Transportation Systems Management and Operations (AHB10)

2015-2016 Committee Highlights

- A paper submitted to the committee was selected for **Climate Change and Transportation: Best Papers of 2016** (Session 744)
 - *The Arizona DOT Resilience Pilot Program – Framework Identification, Partnerships, Climate Data Downscaling, and Drone Capabilities, 16-5436*
Special Task Force on Climate Change and Energy (A0020T), Strategic Management (ABC10), Transportation Energy (ADC70)