A SICOP Briefing Winter Maintenance Collaboration/Coordination

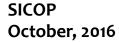


2017 Peer Exchange

- 2017 NWMPE Planning Committee In Place
- Pittsburgh, PA
- Week 37 or 38, 2017

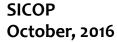
(Week of Sept 11th or Sept 18th)

Theme: Research to Operations (R2O)



Aurora Works Completed

- RWIS Network Planning: Optimal Density & Location
- Aurora AccuWeather Index





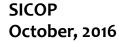
Aurora Works in Progress

- Results-Based Winter Road Standards
- Storm Simulator Training
- Improving estimates of Real-Time Traffic Speeds During Weather for Winter Performance Measurement
- Seasonal Weight Restrictions
- Quantifying Salt Concentration on Pavement, Phase 2
- Snow Liquid Water Equivalent for PWD Sensors
- Review Synthesis for Alternate Power Supplies



Aurora Works in Scoping

- Best Practices for Data Storage
- Utah Snow & Ice Performance Measure Tool for Aurora
- Aurora AccuWeather Index With Clear Roads
- RWIS Network Planning: Optimal Density & Location, Phase 2



Clear Roads

Works in Progress

- Understanding Chemical and Mechanical Performance of Snow & Ice Control Agents on Porous and permeable Pavements
- Snowplow Operator and Supervisor Training
- Quantifying the Impact the New Capitol Projects Will Have on Roadway Snow & Ice Control Operations
- Developing a Training Video and Manual for Best Practices and Techniques in Clearing Different Interchanges Configurations and Geometric Layouts



Clear Roads

Works in Progress

- Plug & Play Phase 2
- Snow Removal Performance Metrics Phase 1
- Snowplow Route Optimization
- Synthesis of Material Application Methodologies for Winter Operations
- Identification & Recommendations for Correction of Equipment Factors Causing Fatigue in Snowplow Operators
- North American Study on Contracting Snow & Ice Response



Clear Roads

Projects Being Considered

- Utilization of AVL/GPS Technology: Case Studies
- Standards & Guidance for Using Sensor Technology to Assess Winter Road Conditions
- Emergency Operations Methodology for Extreme Winter Storm Events
- Weather Event Reconstruction & Analysis Tool
- Training Video for the Implementation of Liquid-Only Plow Routes



SCOM

Subcommittee on Maintenance

- NCHRP Project proposal "Factors Influencing State DOT's in systematically setting and managing Winter Maintenance Levels of Service (LOS)"
- ** NCHRP 20-68A Domestic Scan DRAFT proposal SCOM/SICOP - "Best Practices In Maintenance Support Facility Site Layout And Design Features To Promote Safe, Efficient, And Effective Operation, And Environmental Stewardship.



STSMO

Subcommittee on Transportation System Management & Operations

- 20-7 project Roadmap for an Operations Guidebook to supplement the "Green Book"
- W V2I Deployment Coalition
- Variable Speed Limit projects

FHWA

- EDC-Weather Savvy Roads
- CV Pilot Deployments
- IMO and the Weather Data Environment (WxDE)
- Vehicle Data Translator (VDT- aka Pikalert® System)
- Capability Maturity Framework (CMF) for Road Weather Management
- Weather-Responsive Traffic Management (WRTM)
- Performance Management Tools



National Academy of Science

- NCHRP 14-34: Guide for Performance Measures in Snow and Ice Control Operations
- Advancing Social and Behavioral Science Research and Application Within the Weather Enterprise: A NAS Project.

2016 International Winter Maintenance & Surface Transportation Weather Conference Ft Collins, CO

- Training Details
- Simulation
- Is Fixed RWIS a Dinosaur?
- Privatization of Weather Information
- Big Data Issues
- Climate & Resilience
- Decision Support Systems

18th Standing International Road Weather Commission - SIRWEC Conference Ft Collins, CO

- Road weather management systems
- Novel technologies in road weather
- Decision support systems and road weather
- Integrating road weather information and operations
- Moving RWIS forward

All the presentations can be viewed at the SIRWEC website: http://www.sirwec.org



National Committee-PIARC

- Transportation management during winter events
- De-icing salt and brines treatments, interventions and best practices Issue
- Updates to the Snow and Ice Data Book
- Preparation of the 2018 Winter Road Congress

2018 International Winter Road Congress, Gdansk, Poland



APWA-Winter Maintenance

- APWA Public Works Expo (PWX)
- 2015 Phoenix Seminar "Long Term Thinking to Winter Maintenance" DeVries, Nixon, Nelson
- 2016 Minneapolis 11 winter maintenance sessions
- North American Snow Conference Hartford, CT May 2016
 1614 attendance
- Winter Maintenance Certificate Program



APWA Media Fact Sheet: "Brine Fact Sheet – Spring 2016"





http://sicop.transportation.org











Rick Nelson SICOP Coordinator Rnelson@aashto.org

http://SICOP.transportation.org



Institutional Wx Enterprise

