

National Winter Maintenance Peer Exchange Conference

Columbus, Ohio

August 28-29, 2007

Survey Responses

Winter Maintenance Peer Exchange Survey Results - Ideas/Presenters/Challenges

DOT	Ideas to share	Potential presenter	Winter maintenance challenges
Alaska			<ul style="list-style-type: none"> -Staffing levels -Keep road friction at safe level during temperature fluctuations -Public opposition to chemicals
Arizona	<ul style="list-style-type: none"> -Experience with our training simulators 		<ul style="list-style-type: none"> -Training -Staffing levels -Resources
Connecticut	<p>Connecticut has just gone over to a liquid calcium chloride product and have almost eliminated the use of sand.</p> <p>A five minute presentation may be provided on our new use of Calcium Chloride and what went well and what did not this season.</p>	Cosmo Ignoto or Philip Zoppi or the two together	<ul style="list-style-type: none"> -Funding and manpower -Aging equipment for snow & ice control -Environmental concerns in the constraints placed upon our Department in relation to experimenting with new and innovative products for snow & ice control.
Idaho	<ul style="list-style-type: none"> -Just in time liquid applications -Inhibitors for salt brines -Reduction on antiskid use 	Brent Jennings	<ul style="list-style-type: none"> -State growth and service -Cost effectiveness of a corrosion inhibited program -Financing the level of service
Illinois	<ul style="list-style-type: none"> -Experimentation with Ag byproducts such as Ice Ban and Geomelt -The use of increased amount of prewet liquids up to 57 gal/ton -Joystick controls -Installation of brine making systems capable of blending multiple chemicals -Dual spinners 	Dean Kernan	<ul style="list-style-type: none"> -Training -Collection and evaluation of winter data -Consistent use of chemicals and plowing techniques
Indiana	<ul style="list-style-type: none"> -Safe Lane Performance -AVL Project 	Tom Konieczny	<ul style="list-style-type: none"> -Manpower for Winter Maintenance -Additional infrastructure and lane mile additions. How to cover? -Best application rates for conditions and proper materials and applications

DOT	Ideas to share	Potential presenter	Winter maintenance challenges
Iowa	-Multiple blade plow system -Winter training program - modular system -Liquid deicer program	Tina Greenfield	-Training and information to and from equipment operators -Communication of best practices to other garages in the state, uniform -Public expectations -Deicer
Kansas	-MDSS		-Forecast accuracy
Kentucky	-Anti-icing Practices and Procedures -Outsourcing - Practices and Procedures -RWIS System - Developed In-House -Emergency Salt Stockpile Procedures	-David Cornett -Michael Williams	-Monitoring contractors -Predicting the start of a winter storm -Scheduling manpower during an extended storm event -Lack of Adequate Maintenance Personnel -Growing Concern of Environmental Impacts -Weather and Pavement Forecasting
Maine	-WiFi data download from ground speed control -Working with NWS	-Brian Burne -Cliff Curtis	-Balancing safety/cost/environmental issues -Getting people to slow down during inclimate weather -Quantifying winter severity from one year to the next
Maryland	Not at this time		-Lessening salt usage -Improving measurement of performance -Implementing MDSS
Michigan		Tim Croze	-Level of service consistency along a corridor -Lots of inexperienced operators due to retirements
Minnesota	-Winter Performance Measures (Bare Lane, Omnibus and Trade-off studies) -Maintenance Training (SPOT, simulator, environmental training & core training) -Winter Pilot Projects - reducing application rates, Metropolitan Winter Operations, Anti-icing Program, and AVL Efforts	-Linda Taylor - Maint. Training -Steven Lund - Winter Perf. Measures -Linda/Steven - Winter Pilot Projects -Norm Ashfeld - Metro Winter Ops or AVL efforts	-Staffing - retention and training (seasonal, temporary and program delivery workers) -Equipment funding and utilization -Implanting strategies statewide (i.e. Anti-icing, applications rates)
Missouri	-One pass clearing using 14' wide snowplows and TowPlows	Bob Lannert	-Having to clear more lane miles with the same or less numbers of people and equipment -Need optimum snowplow designs for high speed plowing and for fuel economy
Montana	Equipment features, truck calibrations and what we are doing in Montana to reduce abrasives	Randy Roth	-Funding -Manpower -Inaccurate weather forecasts

DOT	Ideas to share	Potential presenter	Winter maintenance challenges
Nebraska	-Snowplow Management with AVL -Non-contact friction sensor for FAST activation	Michael Mattison	-Personnel/Equipment requirements for severe long duration events -Training of proper techniques -Availability of salt throughout the winter
Nevada		Bill Hoffman	-Effective and efficient decision making -Feedback to maintenance crews regarding performance -Chemical impacts on the environment
New Jersey			-Knowing when to efficiently and effectively deploy -Keeping roads clear with minimal resources -Keeping in-house, contract & amp; volunteer staff trained in winter maintenance
New Hampshire	I-93 salt brine program	Douglas Graham	-Demand by public for bare pavement -Cost of materials -Ability to hire and/or retain employees due to low wages
New York	-Progressing the use of AVL in conjunction with moss -Equipment Operator Training Program	-Michael Lashmet or -Robert Selover	-Developing snow and ice performance measures; rating level of service during storms -Budgetary constraints related to hiring personnel -Encouraging use of anti-icing statewide (currently limited areas)
Rhode Island	-All snow plow routes were digitized and placed in State of Rhode Island's GIS map system -Microsoft Excel workbooks were developed for reporting working times for hired snow vendors -Microsoft Excel workbooks were developed for reporting an estimated cost for each winter maintenance operation -RIDOT has developed a "Web Application" to help manage winter storm data		-Weather forecasts for accurate starting and ending times for winter storms -Correct application rates of de-icing chemicals during winter maintenance operations -Obtaining funding for new technologies that are proven to work or help in winter storm operations
Tennessee	-Newest innovation (not very new) is anti-icing. A successful program. Looking at porous pavement overlays.	Will decide at a later date if they are presenting.	-Freezing rain -Rain prior to frozen precipitation -Missed forecasts
Texas	Texas is currently working toward more advanced materials and equipment packages. We are interested in learning more to help our program.	None	-Managing budget constraints -Traveler expectations -Long haul truckers

DOT	Ideas to share	Potential presenter	Winter maintenance challenges
Utah	<ul style="list-style-type: none"> -Wing plow laser guidance systems -Fog dispersal -Plow Driver Simulator training -Stainless steel spreader boxes -RWIS communications 	Lynn Bernhard	<ul style="list-style-type: none"> -Road condition data gathering and reporting -Re-freeze of treated pavements -Drifting snow -Managing brine concentration on the road to prevent refreeze -Predicting and warning for intense storms in limited areas -Salt application rates
Vermont	Use of brine (District 5) for anti-icing	None	<ul style="list-style-type: none"> -Staffing shortages - essentially 1 person per piece of equipment -Budget issues and timing of our state fiscal year - planning problems -Facility locations and route lengths (rural) cause timing issues
Virginia			
Washington DC			<ul style="list-style-type: none"> -Volume of traffic affects on pre-treatments
Washington State	<ul style="list-style-type: none"> -Challenges of snow and ice operations in Washington's different climatic zones. -Avalanche control operations on the passes in the Washington Cascade's. -Recent experiments with solid anti-icer. 	<ul style="list-style-type: none"> -Monty Mills -Tom Root 	<ul style="list-style-type: none"> -Accomplishing level of service expectations under current budget constraints. -Tort liability. -Accurate data collections and reporting in winter operations.
Wyoming			<ul style="list-style-type: none"> -Blowing snow/limited visibility -Lack of experienced workforce -Ice