



**AGENDA**  
**Clear Roads 2018 Spring Meeting**  
**Tuesday - Thursday, April 24-26, 2018**  
**Crowne Plaza Phoenix Airport**  
**4300 East Washington St., Phoenix, Arizona**  
**Meeting Room: Wren 1 and 2**

**Monday, April 23, 2018**

Dinner on your own.

**Tuesday, April 24, 2018 – 8:00 am to 5:15 pm**

Complimentary breakfast buffet at The Post.

Time	Facilitator	Topic
8:00 to 8:45	Brian Burne	<b>Introductions and Meeting Objectives</b> <ul style="list-style-type: none"> <li>• Welcome and opening remarks (Dallas Hammit, State Engineer and Deputy Director for Transportation, ADOT).</li> <li>• Kevin Duby, ADOT (area attractions)</li> <li>• Introductions and welcome new members.</li> <li>• Overview of Clear Road's goals and activities.</li> <li>• Review the agenda.</li> </ul>
8:45 to 10:00	Research Development Groups	<b>Research and Synthesis Proposal Presentations</b> Presentation and discussion of Clear Roads research and synthesis proposals.
10:00 to 10:15		<b>Break</b>
10:15 to 12:00	Research Development Groups	<b>Research and Synthesis Proposals (cont'd)</b>
12:00 to 1:00	Lunch	<b>A catered lunch will be provided in Wren 3</b>
1:00 to 2:45	Research Development Groups	<b>Research and Synthesis Proposals (cont'd)</b> Complete presentation and discussion of research and synthesis proposals. TAC members will submit scores for each proposal.
2:45 to 3:00	Greg Waidley	<b>Clear Roads Budget and Available Funds</b>
3:00 to 3:15		<b>Break</b>
3:15 to 4:00	Jeff Pifer	<b>West Virginia State Report</b> (Including at least one CR-based implementation activity/effort.)
4:00 to 4:30	Scott Lucas/ Greg Waidley	<b>Disseminating Results of Clear Roads Research</b> Should Clear Roads fund travel for PIs and/or TAC members to present the findings of our research?
4:30 to 5:00	Tom Peters	<b>MnDOT's Experience with Ice Breakers</b>
5:00	Brian Burne	<b>Adjourn</b>

**Wednesday, April 25, 2018 – 8:00 am to 5:00 pm**

Complimentary breakfast buffet at The Post.

<b>Time</b>	<b>Presenter</b>	<b>Topic/ Description</b>
<b>8:00 to 8:15</b>	<b>Brian Burne</b>	<b>Review Day 2 Agenda</b>
<b>8:15 to 9:15</b>	<b>Greg Waidley</b>	<b>Select FY 2018 Projects</b> Review scores/rankings and finalize list of funded projects.
<b>9:15 to 9:30</b>	<b>Brian Burne</b>	<b>Review Role of Project Champion and Subcommittee Members</b>
<b>9:30 to 10:00</b>	<b>Brian Burne/ Greg Waidley</b>	<b>Next Steps and Subcommittee Selection</b> Select project oversight committee members for new projects. Discuss next steps for developing RFPs.
<b>10:00 to 10:15</b>		<b>Break</b>
<b>10:15 to 12:00</b>	<b>Various</b>	<b>Update on Projects in Progress</b> <ul style="list-style-type: none"> <li>• 12-03 Understanding the Chemical and Mechanical Performance of S&amp;I Control Agents on Porous or Permeable Pvmnts (Mike Lashmet)</li> <li>• 13-05 Developing a Test Bed Software to Qualify Plug and Play Technologies (Allen Williams)</li> <li>• 14-03 Developing a Training Video and Manual for Best Practices and Techniques in Clearing Different Interchange Configurations and Other Geometric Layouts (Scott Lucas or Jeff Pifer)</li> <li>• 15-01 Synthesis of Material Application Methodologies for Winter Operations (Jeff Pifer)</li> <li>• 16-01 Utilization of AVL/GPS Technology: Case Studies (Patti Caswell)</li> <li>• 16-02 AWSSI Enhancements in Support of Winter Road Maintenance (Brian Burne)</li> <li>• 16-03 Standards and Guidance for Using Sensor Technology to Assess Winter Road Conditions (Kyle Lester)</li> <li>• 16-04 Emergency Operations Methodology for Extreme Winter Storm Events (John DeCastro)</li> <li>• 16-05 Weather Event Reconstruction &amp; Analysis Tool (Brian Burne)</li> <li>• 16-06 Training Video for the Implementation of Liquid-Only Plow Routes (Jeff Pifer)</li> <li>• 17-01 Integrating Advanced Technologies into Winter Operations Decisions (Kyle Lester)</li> <li>• 17-02 Standard Specifications for Carbide Insert Blades (Cliff Spoonemore)</li> <li>• 17-03 Aftermarket Cameras in Winter Maintenance Vehicles (Todd Miller)</li> <li>• 17-S1 Accuracy of Deicer and Abrasive Material Application Equipment (Scott Lucas)</li> <li>• 17-S2 Use of Prewetted Solid Materials for Roadway Anti-icing (James Morin)</li> <li>• 17-S3 Effective Snow and Ice Personnel and Equipment Management for Storm Activation (John DeCastro)</li> <li>• 17-S4 Subject-based Web Pages (Brian Burne – see later in agenda)</li> <li>• 17-S5 Winter Preparedness Website (Brian Burne)</li> </ul>
<b>12:00 to 1:00</b>	<b>Lunch</b>	<b>A catered lunch will be provided in Wren 3.</b>

1:00 to 1:45	Various	Update on Projects in Progress (cont'd)
1:45 to 2:30	James Stevenson	Texas State Report (Including at least one CR-based implementation activity/effort.)
2:30 to 3:15	Brian Burne/ Greg Waidley	Clear Roads Subject-based Web Pages Review the format of topics and subject-based pages on CR website.
3:15 to 3:30		Break
3:30 to 4:00	Rick Nelson	SICOP and PIARC Report
4:00 to 4:30	Jeff Pifer	CR 16-06 Liquid Only Plow Routes Full video presentation.
4:30 to 5:00	Kevin Hensley	APWA Report
5:00	Brian Burne	Adjourn

Thursday, April 26, 2018 – 8:00 am to 4:30 pm  
Complimentary breakfast buffet at The Post.

Time	Facilitator	Topic
8:00 to 8:15	Brian Burne	Review Day 3 Agenda
8:15 to 9:00	Greg Waidley/ Brian Burne	Future Meetings Discuss plans for the Fall 2018 and Spring 2019 meetings.
9:00 to 10:00	Various	Outcomes of Recently Completed Projects (Including a reminder of project need and goals, as well as outcomes and implementation opportunities/successes.) <b>Research</b> <ul style="list-style-type: none"> <li>14-02 Quantifying the Impact that New Capital Projects Will Have on Roadway Snow and Ice Control (RSIC) Operations (Todd Law)</li> <li>15-02 Identification and Recommendations for Correction of Equipment Factors Causing Fatigue in Snowplow Operators (Allen Williams)</li> </ul>
10:00 to 10:15		Break
10:15 to 11:00	Paul Pisano	FHWA Report
11:00 to 12:00	James Morin/ Patti Caswell/ Doug McBoom	Planning for the Future of the PNS.
12:00 to 1:00	Lunch	A catered lunch will be provided in Wren 3; Geo-Iso Tubes presentation by Ed Dong (webinar).
1:00 to 4:30	Mark Trennepohl	Tour: Equipment Services Headquarters