



## Clear Roads Spring Meeting Highlights

- QPL update / Proposed process for funding projects to improve the QPL.
- Review and select research and synthesis ideas for 2024.
- Clear Roads budget
- Clear Roads Equipment Online Database
- AASHTO Snow & Ice Terminology Task Force
- In-progress projects updates (if you're a project champion, please plan to provide a project update of approximately 10 minutes).
- Partner reports
  - FHWA (Kyle Garrett / Jeremy McGuffey)
  - SICOP (Rick Nelson)
  - APWA (Kevin Hensley)
- State Reports
  - Maryland (Scott Simons)
  - Minnesota (Joe Huneke / Tom Peters)
  - Pennsylvania (Dan Whetzel)
  - Nebraska (Mike Mattison)
- Recently Completed Project Reports
  - CR 18-06 (Jasmine Dondlinger)
  - CR 20-05 (Joe Thompson / Mark Goldstein)
  - CR 21-06 (David Gray)
- Business roundtable
- Future meetings
- Tour of the U.S. Naval Academy

**AGENDA**  
**Clear Roads 2024 Spring Meeting**  
**Tuesday - Thursday, April 16-18, 2024**  
**DoubleTree by Hilton Hotel Annapolis**  
**210 Holiday Court, Annapolis, MD 21401**  
**Meeting Room: Coastal Room**

**Monday, April 15, 2024**

Dinner on your own.

**Tuesday, April 16, 2024 – 8:00 am to 4:45 pm**

Breakfast will begin at 7:00 am in the Leeward Room

**GoToMeeting Credentials:**

Link to:

<https://meet.goto.com/827862397>

Using your phone:

Access Code: 827-862-397

United States: +1 (571) 317-3122

<b>Time</b>	<b>Facilitator</b>	<b>Topic</b>
<b>8:00 to 9:00</b>	<b>Craig Bargfrede</b>	<b>Introductions and Meeting Objectives</b> <ul style="list-style-type: none"> <li>• Welcome and opening remarks.</li> <li>• Introductions and welcome new members.</li> <li>• Overview of Clear Road's goals and activities.</li> <li>• Review the agenda.</li> </ul>
<b>9:00 to 10:00</b>	<b>Patti Caswell / Greg Waidley</b>	<b>Qualified Products List (QPL) Update / Process for Funding Projects to Improve the QPL</b>
<b>10:00 to 10:15</b>		<b>Break</b>
<b>10:15 to 12:00</b>	<b>Research Development Groups</b>	<b>Research and Synthesis Proposals (cont'd)</b> Presentation and discussion of Clear Roads research and synthesis proposals.
<b>12:00 to 1:00</b>		<b>Lunch in the Leeward Room.</b>
<b>1:00 to 2:30</b>	<b>Research Development Groups</b>	<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.
<b>2:30 to 3:00</b>	<b>Greg Waidley</b>	<b>Clear Roads Budget and Available Funds</b>
<b>3:00 to 3:15</b>		<b>Break</b>
<b>3:15 to 3:45</b>	<b>Steve Spoor</b>	<b>Clear Roads Equipment Online Database</b>
<b>3:45 to 4:15</b>	<b>Scott Simons</b>	<b>Maryland State Report</b>
<b>4:15 to 4:45</b>	<b>Joe Huneke / Tom Peters</b>	<b>Minnesota State Report</b>
<b>4:45</b>	<b>Craig Bargfrede</b>	<b>Adjourn</b>

**Wednesday, April 17, 2024 – 8:00 am to 4:45 pm**  
 Breakfast will begin at 7:00 am in the Leeward Room.

**GoToMeeting Credentials:**

Link to:  
<https://meet.goto.com/259882741>

Using your phone:

Access Code: 259-882-741  
 United States: +1 (224) 501-3412

Time	Presenter	Topic/ Description
8:00 to 8:05	Craig Bargfrede	Review Day 2 Agenda
8:05 to 9:15	Greg Waidley	<b>Select FY 2024 Projects</b> Review scores/rankings and finalize list of funded projects.
9:15 to 9:45	Craig Bargfrede / Greg Waidley	<b>Project Subcommittee Selection</b> Review the role of project champion and subcommittee members. Discuss next steps for developing RFPs.
9:45 to 10:00	Joe Thompson	<b>AASHTO Snow &amp; Ice Terminology Task Force</b>
10:00 to 10:15		<b>Break</b>
10:15 to 12:00	Various	<b>Update on Projects in Progress</b> <ul style="list-style-type: none"> <li>• <b>20-06:</b> Salt Shed Design Template (James M)</li> <li>• <b>21-01:</b> Grip Sensor Technology and Salt Applications (James M)</li> <li>• <b>21-02:</b> Update to CR 13-04: Best Practices for Protecting DOT Equip. from the Corrosion Effect of Chemical Deicers (Todd L)</li> <li>• <b>21-04:</b> Training Module Development for Evaluation of Storm Severity Index and Winter Severity Index Variables (James M)</li> <li>• <b>21-07:</b> Determining the Migration of Chloride-Based Deicers through Different Soil Types (Aidan N)</li> <li>• <b>22-01:</b> Comprehensive Guide to Pre-wetting Application Rates and Methods (James M or Patti C)</li> <li>• <b>22-02:</b> Best Management Practices for Liquid Chloride Storage and Pumping Systems (Chris L)</li> <li>• <b>22-03:</b> Effects of Additives in Lowering the Freezing Point of Deicing Salts (Jessica A or Steve S)</li> <li>• <b>22-04:</b> Evaluation of Direct Liquid Application of Salt Brine vs Granular Salt as Measured Through Various Performance and Safety Metrics (Emil J)</li> <li>• <b>22-05:</b> Use of Dashboards for Winter Operations (Doug M)</li> <li>• <b>22-06:</b> pH Waiver for Deicing Products and the QPL (Patti C)</li> <li>• <b>23-01:</b> Development of a Public Service Announcement Library (David G)</li> <li>• <b>23-02:</b> Quantifying the Economic Value of Snow and Ice Operational Success (Mark G)</li> <li>• <b>23-03:</b> Updating the Impact of Capital Projects Decision Support Tool (Todd L)</li> <li>• <b>23-04:</b> Solar Radiation Benefits / Chloride Reduction Potential Associated with the Use of Vegetation Management Practices Near Roads (Aidan N)</li> </ul>
12:00 to 1:00		<b>Lunch</b>
1:00 to 2:00	Various	<b>Update on Projects in Progress (cont'd)</b>
2:00 to 2:30	Dan Whetzel	<b>Pennsylvania State Report</b>
2:30 to 3:00	David Gray	<b>Recently Completed Project Report</b> 21-06: Calculating Plow Cycle Times from AVL Data
3:00 to 3:15		<b>Break</b>

<b>3:15 to 3:45</b>	<b>Jasmine Dondlinger</b>	<b>Recently Completed Project Report</b> 18-06 Standard Test Procedures for Ice Melting Capacity of Deicers
<b>3:45 to 4:15</b>	<b>Joe Thompson / Mark Goldstein</b>	<b>Recently Completed Project Report</b> 20-05: Using GIS to Highlight Highway Segments Sensitive to Deicing Materials
<b>4:15 to 4:45</b>	<b>Mike Mattison</b>	<b>Nebraska State Report</b>
<b>4:45</b>	<b>Craig Bargfrede</b>	<b>Adjourn</b>

**Thursday, April 18, 2024 – 8:00 am to 3:30 pm**  
Breakfast will begin at 7:00 in the Leeward Room.

**GoToMeeting Credentials:**

Link to:

<https://meet.goto.com/234597117>

Using your phone:

Access Code: 234-597-117

United States: +1 (646) 749-3122

<b>Time</b>	<b>Facilitator</b>	<b>Topic</b>
<b>8:00 to 8:05</b>	<b>Craig Bargfrede</b>	<b>Review Day 3 Agenda</b>
<b>8:05 to 8:30</b>	<b>Greg Waidley</b>	<b>Future Meetings</b>
<b>8:30 to 9:00</b>	<b>Jeremy McGuffey / Kyle Garrett</b>	<b>FHWA Report / Integrated Modeling for Road Condition Prediction (IMRCP)</b>
<b>9:00 to 9:30</b>	<b>Rick Nelson</b>	<b>Winter Weather Management TSP Report</b>
<b>9:30 to 10:00</b>	<b>Kevin Hensley</b>	<b>APWA Report</b>
<b>10:00 to 10:15</b>		<b>Break</b>
<b>10:15 to 12:00</b>	<b>Various</b>	<b>Business Roundtable</b>
<b>12:00 to 1:00</b>		<b>Lunch</b>
<b>2:00 to 3:30</b>		<b>Walking Tour of the U.S. Naval Academy</b>