

## State Planning and Research Program Quarterly Report

**PROJECT TITLE:** *Standardized Test Procedures for Ice Melting Capacity of Deicers*

**OBJECTIVES:** The goal of this research is to evaluate the suitability of the mechanical rocker test as a standardized laboratory test that can realistically and robustly assess the performance of deicers, which is needed to allow DOTs to make data-driven procurement decisions.

**PERIOD COVERED:** January 1 – March 31, 2023

**PARTICIPATING AGENCIES:**

Washington State University – Prime  
Monte Vista Associates LLC – Subcontractor  
Roadtech, Inc. - Subcontractor

**PROJECT MANAGER:**

Hafiz Munir / Tom Peters

**SP&R PROJECT NO:**

MnDOT No. 1033080

**PROJECT IS:**

Planning  
 Research & Development

**LEAD AGENCY:** MnDOT

Federal Project No.  
TPF-5(353)

**PRINCIPAL INVESTIGATOR:**

Xianming Shi, Ph.D., P.E., WSU

**ANNUAL BUDGET:**

\$74,086

**PROJECT EXPENDITURES TO DATE:**

\$68,094

**WORK COMPLETED:**

*Project Management:* The PI submitted the Quarterly Progress Report in Jan. 2023. No major activity during the last quarter.

**Task 1.** Mechanical Rocker Test Procedure Evaluation (100% complete).

**Task 2.** Interim Report (100% complete).

**Task 3.** Standard Test Procedure Development (100% complete).

**Task 4.** Standard Test Procedure Presentation (100% complete).

**Task 5.** AASHTO Balloting Assistance (50% complete). Note that the AASHTO Committee on Pavement and Materials decided to officially vote on the provisional standardization of this IMC test protocol in *November 2022 and that concurrent AASHTO balloting won't occur until the summer of 2023. We will stand by for directions from Clear Roads regarding a potential amendment.* The PI is waiting for the panel in case he needs to provide assistance for concurrent AASHTO Balloting, which will take place during the summer of 2023. This support may include responding to comments from AASHTO committees and revision of the IMC test method.

**Task 6.** Final Report (20% complete).

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

The work in the coming quarter will consist of project management.

**STATUS AND COMPLETION DATE:**

The latest version of the schedule is provided as follows.

Task	Current Task Start Date	Current End Date for Task Approval	Revised Task Start Date	Revised Due Date to Submit Draft Deliverables	Revised End Date for Task Approval
1	02/01/2020	02/28/2022	No change		
2	11/01/2020	02/28/2022	No change		
3	02/01/2021	04/30/2022	No change		
4	05/01/2022	09/30/2022	No change		
5	09/01/2022	12/31/2022	09/01/2022	07/31/2023	08/30/2023
6	08/01/2021	02/28/2023	08/01/2021	07/31/2023	09/30/2023