

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** Comparison of Material Distribution Systems for Winter Maintenance – Phase I – Clear Roads Organization

**OBJECTIVES:** long range goals are listed below from the requirement.

- 1) Identify as many solid material distribution systems as possible and develop a plan for field testing them.
- 2) Systems with pre-wetting capabilities should be included in the study, although equipment for slurries or directly liquid applications is not included in the scope of this project.
- 3) Phase I will focus on identifying and cataloging these systems, as well as developing a testing plan.
- 4) Phase II would conduct field testing, identify the most effective systems and develop a recommended specification for a material distribution system (not part of this contract).

**PERIOD COVERED:** 4/1/2013 – 6/30/2013

**PARTICIPATING AGENCIES:** Clear Roads Organization

**PROJECT MANAGER:** Tom Peters

**LEAD AGENCY:** Mn/DOT

**PRINCIPAL INVESTIGATOR:**  
Dr. Gregory E. Thompson

**SP&R PROJECT NO:**  
Mn/DOT Contract#: 01531  
Fed Project#: TPF-5(218)

**PROJECT IS:**

Planning  
 Research & Development

**ANNUAL BUDGET:** \$44,960.00

**PROJECT EXPENDITURES TO DATE:** \$18,600.00

**WORK COMPLETED:** Conducted survey for canvassing snowfighter and agency input with regards to spreader distribution systems. Attended the APWA Snow & Ice Symposium in Charlotte, NC 7-10 April 2013. Performed a literature search of related research and information sources.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:** Publish a literature search for like and similar studies/results in the USA and internationally. Prepare an analysis on the information gathered from the survey.

**STATUS AND COMPLETION DATE:** Project is on schedule. Next quarterly report due is for the period of 7/1/2013 – 9/30/2013. Task 1 is anticipated to be completed end of August 2013.