

## 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:** 1/1/2013 – 3/31/2013

**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:** \$7,570.00

**WORK COMPLETED:** Provided draft survey for canvassing snowfighter and agency input with regards to spreader distribution systems. Proposed for introduction to the snow & ice removal community during the APWA Snow & Ice Symposium in Charlotte, NC 7-10 April 2013.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:** Publish the web site available survey for comment/review/input from the snow & ice removal community regarding spread distribution control systems. Begin literature search for like and similar studies/results in the USA and internationally.

**STATUS AND COMPLETION DATE:** Project is on schedule. Next quarterly report due is for the period of 4/1/2013 – 6/30/2013. Task 1 is anticipated to be completed end of June 2013.