

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:** Automatic Spreading System – Clear Roads Organization

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

- 1) Identify and document hardware/software that will adapt to the existing control systems being utilized by various DOTs (both granular and liquid) focusing on limited input of ambient and roadway temperatures
- 2) Analyze the cost-effectiveness of those identified systems and examine/investigate the professional community on the usefulness, feasibility, and best practices of an automated spreading system
- 3) Create a reference guide that recommends cost-effective approaches to consider retro-fitting existing equipment to support automatic dispensing. Included in this analysis should be the necessary interface with an Automatic Vehicle Location/Geographic Information System (AVL/GIS) system that will facilitate automatic deployment of the material

**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#: 99392  
Fed Project#: TPF-5(218)

**PROJECT IS:**

☐ Planning  
☒ Research & Development

**ANNUAL BUDGET:** \$69,550.00

**PROJECT EXPENDITURES TO DATE:** \$49,705.00

**WORK COMPLETED:** Participated in conference call with Clear Roads technical advisory committee (TAC) regarding the survey results and literature search. Provided three outlines for review to the TAC to begin the three guides preparation.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:** Prepare the three guides for Task Two completion. Review and incorporate comments from the three outlines provided to the TAC for suggestions/recommendations.

**STATUS AND COMPLETION DATE:** Submitted a no cost extension request (approved), new contract completion date: 6/30/2013. Next quarterly report due is for the period of 4/1/2013 – 6/30/2013. Task 2 is anticipated to be completed end of June 2013.