

## State Planning and Research Program Quarterly Report

**PROJECT TITLE:**

Optimal Timing of Preventive Maintenance for Addressing Environmental Aging in HMA Pavements (MnROAD Study)

**OBJECTIVES:** The goal of this study is to determine the proper timing of preventive maintenance treatments in order to optimize life cycle costs and pavement performance. Environmental aging of the asphalt binder in the underlying pavement is not well understood, and this project will seek to better understand the aging mechanism and how it can be reduced through pavement preservation.

**PERIOD COVERED:**

April. 1, 2008 – June 30, 2008

**PARTICIPATING AGENCIES:**

MN, OH, TX, MD, LRRB

**PROJECT MANAGER:**

Benjamin Worel

**SP&R PROJECT NO:**

TPF-5 (153)

**PROJECT IS:**

Planning  
 Research & Development

**LEAD AGENCY:**

Mn/DOT

**PRINCIPAL INVESTIGATOR:**

TBD by states

**ANNUAL BUDGET:**

Total Funds = \$375,000  
(\$351K possible contract + 24K Agency Admin)

**PROJECT EXPENDITURES TO DATE:**

No cost to the pooled fund to date

**WORK COMPLETED:**

Agency conference call to develop initial meeting and goals of this research. It was determined that the funding we have cannot solve all the issues related to this topic but we can make a difference. To assist in the development of a contract and the topic area focus we are planning the first initial kickoff meeting to be held July 23, 2008. This will consist of a team of experts to help focus the group and develop our future direction. Experts invited include Charles Glover (Texas A&M), Mike Heitzman (NCAT), Fred Turner (WRI), John D'Angelo (FHWA), Mihai Marasteanu (University of Minnesota), Gerry Reinke (MTS), and comments from Gayle King.

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

1. Kickoff meeting scheduled for July 23, 2008
2. Work to get a workplan/RFP developed so a contractor can be developed to help with this study.

**STATUS AND COMPLETION DATES:**

1. See above for now – no contract developed at this time.