

**State of Wisconsin/Department of Transportation**  
 RESEARCH PROGRESS REPORT FOR THE QUARTER ENDING: March 31, 2008

<b>Program: SPR-0010(36) FFY99</b>		<b>Part: II Research and Development</b>	
<b>Project Title:</b> Reduction of Minimum Required Weight of Cementitious Materials in WisDOT Concrete Mixes		<b>Project ID:</b> 0092-08-08	
<b>Administrative Contact:</b> Nikki Hatch		<b>Sponsor:</b> Wisconsin DOT	
<b>WisDOT Technical Contact:</b> James Parry		<b>Approved Starting Date:</b> October 15, 2007	
<b>Approved by COR/Steering Committee:</b> \$114,938		<b>Original End Date:</b> October 15, 2009	
<b>Project Investigator (agency &amp; contact):</b> Michigan Tech Transportation Institute Larry Sutter		<b>Current End Date:</b> October 15, 2009	
		<b>Number of Extensions:</b> none	

**Percent Complete: 10%**

**Request a No Cost Time Extension (Please Select One):**  YES  NO

**Reason for No Cost Time Extension:**

**Project Description:**

The objectives of this research project are to make recommendation values for minimum CMC to be used by WisDOT for future pavement mixes and to make recommendations to WisDOT for future work in this area.

**Progress This Quarter:**

(Includes project committee mtgs, work plan status, contract status, significant progress, etc.)

To date, work has continued on Task 1, Literature Review. This task is nearing substantial completion. The pertinent articles have been collected and summarized. Currently, the literature review is in draft form and is being edited by graduate students and the PI. It was also decided that no revisions to the proposed experimental plan would be suggested. Preliminary work was conducted for preparing concrete mixtures. Specifically, preliminary mixture designs were prepared and estimates of materials quantities were prepared. Initial contacts were made to arrange for trucking of materials and some materials providers were contacted to begin discussions of acquiring material.

**Work Next Quarter:**

Work next quarter will include completion of the literature review and continuation of the acquisition of materials required to execute the experimental plan.

**Circumstances Affecting Progress/Budget:**

Due to the large volume of materials required for this study, acquisition and storage of materials is a major issue. The project was proposed in two phases. The number of mixtures prepared in Phase II is dependent upon the results of Phase I. To ensure consistency between the phases, the materials for Phase II should be acquired at the same time as those for Phase I. As a result, large amounts of material will need to be stored in laboratory space at Michigan Tech. Although, this is not an insurmountable problem, when coupled with other demands on laboratory space, this may lead to delays in being able to acquire the material (i.e. storage space will need to be made available). Over the course of the next reporting period, the exact demands and space availability will become clearer.

