

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

Program: SPR-0010(36) FFY99		Part: II Research and Development	
Project Title: Wisconsin Mixture Characterization Using the SPT on Historical Aggregate Structures		Project ID: 0092-08-06	
Administrative Contact: Andrew Hanz		Sponsor: Wisconsin Department of Transportation	
WisDOT Technical Contact: Judy Ryan		Approved Starting Date: February 13, 2008	
Approved by COR/Steering Committee: \$74,992		Original End Date: May 13, 2009	
Project Investigator (agency & contact): Ramon Bonaquist, Advanced Asphalt Technologies aatt@erols.com		Current End Date: May 13, 2009	
		Number of Extensions: 0	

Percent Complete: 5%

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

Reason for No Cost Time Extension: None

Project Description:

The objectives of the proposed research are to collect simple performance test properties on mixtures currently used by the Wisconsin Department of Transportation and to compare these properties to the observed performance of pavements built with similar mixtures. The project and the resulting database of simple performance test properties and observed performance will serve several purposes including:

- Provide typical simple performance test properties for mixtures used by the Wisconsin Department of Transportation classified by design traffic level, position in the pavement structure, and aggregate geology.
- Initial comparisons of simple performance test properties and pavement performance for selected Wisconsin projects.
- Local validation of criteria for rutting resistance developed in major national research efforts.
- Input data for evaluation and initial use of the MEPDG.
- Training of Wisconsin Department of Transportation staff in the use of the Simple Performance Test System for pavement and HMA design and evaluation.

Progress This Quarter:

The contract for the project was executed on February 13, 2008. A kick-off meeting was held on February 27, 2008 with Ms. Judy Ryan. Dr. Ramon Bonaquist and Dr. Hussain Bahia represented the research team. At the kick-off meeting several options for selecting 12 mixtures to be included in the project were discussed. The recommendations from this meeting were to select current mixtures based on:

- Traffic level
- Aggregate geology
- Binder grade

It was decided that Ms. Ryan will make the final selection of the mixtures to be used in the study after discussion with the project Technical Oversight Committee. Finally it was discussed that the mixtures used in this project should also be used in the project *Evaluation of Flow Number F_n as a Discriminating HMA Mixture Property*; therefore, sufficient quantities of these materials should be sampled during this project for both projects.

