

Period Covered: January 1, 2004 through June 30, 2004

KSDOT Progress Report  
for the

## State Planning and Research Program

PROJECT TITLE: Implementation Of The 2002 AASHTO Design Guide For Pavement Structures

<b>PROJECT MANAGER:</b>  Richard L. McReynolds, P.E., Admin. Contact Dr. Stefan Romanoschi, KSU, PI	<b>Project No:</b> TPF-5(079) RE-0361-01	<b>Project is:</b>  <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> RESEARCH & DEVELOPMENT
<b>Annual Budget (active projects)</b>	<b>Multi Year Project Budget</b>  \$100,000 (TPF) \$62,000 (state funds)	

Progress: The objective of this research is to develop the calibration procedure for the AASHTO 2002 design guide models for both flexible and rigid pavement structures for this region and to assist the state highway agencies in region in the implementation of the new Guide for pavement design and surface selection practices.

The research efforts in the first half of 2004 were concentrated on the development of the library of material characterization data for typical pavement materials and the identification of pavement test sections for which performance data may be available. A plan for testing of typical asphalt concrete mixes has been developed and the equipment for performing the tests has been made ready. The survey of literature has been conducted to identify existing material characterization data and pavement performance data collected already by the highway agencies and reported in internal documents.

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

Following the recommendations of the Project Monitor, dynamic resilient modulus tests on representative asphalt concrete mixes and DSR tests on the corresponding binders will be performed on sample materials that will be obtained from several construction projects. The progress of this research project will greatly depend on the availability of the final report for NCHRP 1-37A, that will provide a better insight into the features and capabilities of the 2002 AASHTO Design Guide, as well as on the availability of materials to be subjected to laboratory tests.

**STATUS AND COMPLETION DATE**

Percentage of work completed to date for total project is: 25

X on schedule \_\_\_ behind schedule, explain

Expected Completion Date: December 31, 2005