

## **TPF-5(063) “Improving the Quality of Pavement Profiler Measurement”**

Fourth Quarter Update for FY 2003

As a review of overall progress, the first two quarters of FY 2003 were the approval phase from FHWA and the solicitation phase, with the solicitations beginning in earnest in November 2002. By the end of January there were enough state agencies that had submitted commitment forms that the project was given a go and a kick-off meeting was initially scheduled for the end of February 2003. Due to unanticipated delays from an ETG focused on developing new AASHTO smoothness guide specifications, the kick-off meeting was delayed to the first week of May 2003.

By the end of the third quarter there were 15 state agencies with committed funds for the study. The four-year study had achieved a \$1 Million level. At the kick-off meeting, the assembled agencies:

- reviewed and adopted a charter,
- were brought up to date on the current activities being conducted in the smoothness arena,
- evaluated a specific emerging technology that had evolved from the airport side of the pavement industry,
- assembled a list of study topics,
- and prioritized the topics.

Attending the kick-off meeting were:

<b>Agency</b>	<b>Technical Contact</b>
<b>Florida DOT</b>	Abdenour Nazef, P.E.
<b>New York DOT</b>	Chad Corbett
<b>Ohio DOT</b>	Brian Schleppe
<b>Mississippi DOT</b>	James C. Watkins, P.E.
<b>Kentucky DOT</b>	Chad Shive
<b>Kansas DOT</b>	Bill Parcels, P.E.
<b>New Jersey DOT</b>	Joseph Beke
<b>South Dakota DOT</b>	David Huft
<b>Texas DOT</b>	Amitis Meshkani
<b>Colorado DOT</b>	Eric Prieve
<b>Georgia DOT</b>	Lanka Santha
<b>Oklahoma DOT</b>	Gary Williams
<b>North Dakota DOT</b>	Bryon L. Fuchs

<b>Illinois DOT</b>	LaDonna R. Rowden, P.E.
<b>Illinois DOT</b>	Sharon Haasis
<b>FHWA</b>	
<b>Eastern Federal Lands</b>	Laurin Linemen
<b>Western Federal Lands</b>	Bruce Wasil
<b>Resource Center</b>	Charles Luedders
<b>Resource Center</b>	Robert Orthmeyer

The following list documents and ranks the voted on study topics:

1. Reference Profile Device (development of)
2. Critical Profile Accuracy Requirements (definition)
3. Construction Acceptance and Correction Software (acquisition of existing)
4. Certification / Validation Sites
5. Evaluating Upper Limits of Single Accelerometer and Single Height Sensor
6. Emerging Technology That Enhances Profile Measurement
7. Portable Validation Device Feasibility
8. Lightweight Profilers Unique Problems
9. Portable Validation Device Implementation

A web site has been developed to manage all of the pooled fund study proposals, solicitations and projects. The TPF-5(063) Profiler Quality study can be found at: <http://www.pooledfund.org/projectdetails.asp?id=280&status=4>.

During the fourth quarter three more DOT's have joined the study, Wisconsin, Pennsylvania and California with two more still expressing interest. This brings the total to 18 study partners. These are CO, CA, CT, GA, IL, KS, MS, OH, PA, SD, ND, TX, WI, OK, NY, NJ, KY, and FL for a total commitment of \$1,397,200 that includes \$40,000 from FHWA LTPP and \$20,000 from FHWA Eastern Federal Lands.

Solicitations are being prepared for the:

- Acquisition of existing "bump locator and grinder simulation" software (priority 3),
- Defining the Critical Profile Accuracy Requirements (task order by 2<sup>nd</sup> week of Oct.) and,
- Development of a Reference Profile Device.

Our next meeting will be held on October 29 and 30 in Austin, TX as a follow on to the annual RPUG meeting. Invitational travel for the pooled fund study meetings is using the FHWA LTPP funds to allow the state agency funds to be focused on the project. Expended funds to date have been for invitational travel funded by FHWA.