

## Virginia Transportation Research Council Contract/Grant Progress Report

<b>Project No:</b> <u>07-0219-07</u>	<b>Starting Date:</b> <u>7/1/06</u>	<b>Target Completion Date:</b> <u>6/30/11</u>
<b>Project Title:</b> <u>Consortium for Pavement Surface Properties</u>		
<b>Performing Agency:</b> <u>Virginia Tech</u>		
<b>Principal Investigator(s):</b> <u>Gerardo Flintsch</u>		
<b>Date of This Report:</b> <u>5/31/10</u>	<b>Next Report Due Date:</b> <u>8/31/10</u>	

### Project Description

The main objective of the project is to establish a research program focused on enhancing the level of service provided by the roadway transportation system by optimizing pavement surface texture characteristics.

### Research Activities Pursued This Period (Including Tasks):

- The 4<sup>th</sup> Annual Equipment Rodeo was hosted in Blacksburg during the week of May 17-21, 2010.
  - Four profilers from South Carolina (2), Virginia and Mississippi and five friction units from Connecticut, Mississippi, Virginia and the Griptester #2 and the Dynatest HFT participated.
  - Analysis of the results will be reported to the Technical Advisory Committee during the Pavement Evaluation 2010 conference in October to take place in Roanoke, with the corresponding Rodeo Report.
- Delivered on March 15 both, the Griptester #1 and the Dynatest HFT system to the Louisiana Transportation Research Council.
  - LTRC personnel was trained on the use and maintenance both units; this included presentations about the Loan Program, operation and calibrations, data analysis and reporting.
  - The HFT unit was picked up on May 6, and returned to Blacksburg for participation in the 4<sup>th</sup> Annual Equipment Rodeo held during the week of May 17-21.
  - Griptester # 1 was reported to be ready for return on May 27; and will be shipped from Louisiana back to Blacksburg during the first week in June.
- Contact with the Arizona DOT allowed delivery on May 28 of the HFT system in Phoenix.
  - Training for the GripTester was carried on in Blacksburg April 6-7 and for the Dynatest HFT will be held during the first week of June in Phoenix, Arizona.
  - Griptester #2 was shipped and is scheduled to arrive in Phoenix on June 2, during the period for the training and data analysis at the AZ DOT research facility.
- Final initial Beta version 2 of the GripVAL software was evaluated and is now ready for presentation. ASTM E-17 Committee has agreed to allow a presentation to the friction testing participants in its annual summer meeting on June 8 in Penn State.
- MNRoad personnel have been contacted to explore the possibility of returning GripTester #1 for testing in the summer. Waiting for instructions for shipping.
- More meetings have been completed to plan the Pavement Evaluation 2010 Conference (PE 2010).
  - Abstracts were received on March 1<sup>st</sup> by the steering committee.
  - Papers were evaluated and the authors notified of the decisions.
  - Technical chairs have been appointed for the main conference themes.
- Conducted field testing of the moving macrotexture measurement on an optimized permeable friction course in NOVA.
- Submitted two abstract for presentation at the Pavement Evaluation 2010 (PE 2010) national conference in Roanoke, VA, Oct 25-27, 2010.
- Participated in the meeting of the PIARC Technical Committee D2 Road Pavements, Irvine, CA, April 28-30, 2010
  - Presented a revised proposal for hosting the 7<sup>th</sup> International Symposium on Pavement Surface Characteristics - SURF 2012 in Virginia.

**Problems Encountered:**

- Issues with both Griptester units and the HFT may delay their deployment to their destinations.

**Activities Planned for Next Period:**

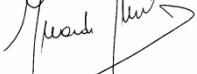
- Present the final initial Beta version 2 of the GripVAL software at the ASTM E-17 Committee on June 8, 2010 in State College, PA.
- Complete the analysis of the smoothness and friction data collected during the 4<sup>th</sup> Annual Equipment Rodeo.
- Organize the meeting of the Technical Advisory Board in Roanoke, VA in October, 2010.
- Continue to lead the organization of the Pavement Evaluation 2010 (PE 2010) conference.
- Continue to lead the organization of the 7<sup>th</sup> International Symposium on Pavement Surface Characteristics (SURF 2012).
- Prepare two papers for the 2011 Annual Meeting of the Transportation Research Board.
- Prepare two presentations for Pavement Evaluation 2010 (PE 2010) conference.
- Prepare a paper for the First T&DI Congress (abstract accepted), being organized by ASCE March, 13-16, 2011 in Chicago, IL.
- DYNATEST HFT system scheduled demonstration at Penn State was cancelled. Additional requests by Maryland and Connecticut are now being worked into the schedule.
- After Arizona, an attempt will be made to demonstrate and loan the GripTester units to two additional state DOTs and evaluate the GripVal software.

**Budget Status:**

Current FY Project Budget: \$ 355,540 (including cost share)	Project Budget Lifetime: \$ 1,070,465
Current FY Expenditures: \$ 249,771 as of 05/31/10	Expenditures LTD: \$ 762,846
Percent Expended this FY: 70 % (Date)	Percent Expended LTD: 71 %

**Timetable:** Project is (check):

- On Schedule
- Behind Schedule \*  (explain above)
- Ahead of Schedule

Preparer's Name and Signature: Gerardo Flintsch 	Date: <u>05/31/10</u>
VTRC Staff Technical Monitor: _____	Date: _____
Reviewed and Approved By: _____ (VTRC Associate Director)	Date: _____

**Review Comments:** (To be completed by Research Director and Returned to Research Manager)