

Virginia Transportation Research Council Contract/Grant Progress Report

Project No: <u>07-0219-07</u>	Starting Date: <u>7/1/06</u>	Target Completion Date: <u>6/30/11</u>
Project Title: <u>Consortium for Pavement Surface Properties</u>		
Performing Agency: <u>Virginia Tech</u>		
Principal Investigator(s): <u>Gerardo Flintsch</u>		
Date of This Report: <u>11/30/09</u>	Next Report Due Date: <u>2/28/10</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):

- Completed the Draft Report on the 3rd Annual Equipment Rodeo.
- Prepare and deliver a workshop about friction in cooperation with the Connecticut DOT; this workshop was broadcasted live and posted on the web.
[\[http://www.ct.gov/dot/cwp/view.asp?a=1617&q=448232\]](http://www.ct.gov/dot/cwp/view.asp?a=1617&q=448232)
- Evaluated the beta version of the GripVAL software and developed a plan to debug it.
- Developed speed correction factors for the locked wheel trailers that participated in the 2009 rodeo on different types of pavement surfaces.
- Completed the analysis of the 2009 certification runs for all the participant profilers.
- Prepared two presentations for the 2010 RPUG Annual Meeting.
- Initiated the planning of Pavement Evaluation 2010 conference.
- Prepared three papers for the TRB Annual meeting, which have been accepted for presentation and/or publication.
- Evaluated the moving macrotexture measurements in the field by testing an optimized permeable friction course in NOVA.
- GripTester #1 finished the extraordinary loan to TRANSTEC in support of the FHWA HFS project. The equipment was delivered by TRANSTEC to MNRoad on 10/17/09.

Problems Encountered:

- Upon arrival at MNroad, the GripTester #1 unit had a damaged water pump that had to be replaced. After the equipment was fixed MNRoad determined that because of weather conditions, it was unable to make use of it and decided to return it and have it re-assigned to them sometime next spring.

Activities Planned for Next Period:

- Sponsor the RPUG Annual Meeting in Atlanta GA, participate in it, and make two presentations.
- Participate in the TRB Annual Meeting and deliver three poster presentations.
- Receive and test the Dynatest 6875 Highway Friction Tester (HFT) system.
- Attempt to demonstrate and loan the GripTesters to two additional state DOTs.
- Prepare the final version 1.0 of the GripVAL software.
- Deliver the HFT system to the Arizona DOT and conduct the initial testing of the equipment and training of the DOT personnel.
- Initiate the planning for the 2010 Annual Equipment Rodeo
- Continue with the filed tests of the moving macrotexture measurement system.
- Continue with the planning of the 2010 Pavement Evaluation conference; prepare an announcement to be distributed during TRB.

Budget Status:

Current FY Project Budget: \$ 355,540 (including cost share)

Project Budget Lifetime: \$ 1,070,465

Current FY Expenditures: \$ 112,963 as of 11/31/09

Expenditures LTD: \$ 626,038

Percent Expended this FY: 32% (Date)

Percent Expended LTD: 58 %

Timetable: Project is (check):

On Schedule

Behind Schedule * (explain above)

Ahead of Schedule

Preparer's Name and Signature: Gerardo Flintsch



Date: 12/15/09

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)