

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>2/28/10</u>	Next Report Due Date: <u>5/31/10</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):

- Prepared a Draft Report of the 3rd Annual Equipment Rodeo circulated to TAC members for further comments.
- Received beta version of the GripVal software.
 - This version has addressed some of the issues presented to the programmer.
 - The beta version is currently being evaluated and a plan to accept and implement the software will follow.
- Sponsored the RPUG Annual Meeting in Atlanta GA, where the consortium had an exhibit booth and contributed with two presentations:
 - Preliminary Result from the Profiler Certification Exercise at the Virginia Smart Road
 - Speed Adjustment Factors for the Locked-Wheel Skid Trailer
- Participated in the 89th Annual Meeting of the Transportation Research Board (TRB) with three poster presentations, one paper will be published in the Transportation Research Record Journal:
 - Flintsch, G.W., de León Izeppi, E.D., McGhee, K.K., Shetty*, S.S., “Profiler Certification Process at the Virginia Smart Road, paper 10-2513 (poster presentation).
 - Flintsch, G.W., de León Izeppi, E.D., McGhee, K.K., Roa*, J.A., “Review of High-Friction Surface Technologies: Constructability and Field Performance,” paper 10-2072 (poster presentation).
 - Flintsch, G.W., de León Izeppi, E.D., McGhee, K.K., Najafi*, S., “Speed Adjustment Factors for Locked-Wheel Skid Trailer Measurements,” paper 10-2333 (poster presentation), to be published in the Journal of the Transportation Research Board.
- Received the DYNATEST 6875 Highway Friction Tester (HFT) system in Blacksburg. The initial testing of the equipment was performed. Four members of the CSTI team were certified by DYNATEST to operate the system.
- Continues to support the organization of the Pavement Evaluation 2010 (PE 2010 conference).
 - Hold several palling meetings
 - Prepared an announcement and call for papers and distributed it at the annual RPUG and TRB meetings.
- Initiated the planning for the 4th Annual Equipment Rodeo, which will be held in Blacksburg on the week of May 17-21, 2010.
- Prepared a proposal for hosting the 7th International Symposium on Pavement Surface Characteristics (SURF 2012) in Virginia.
 - The proposal was submitted to PIARC for consideration and a planning meeting was held at the 89th Annual Meeting of the TRB.

Problems Encountered:

- Issues with both Griptester units and the HFT have delayed their deployment to their destinations.

Activities Planned for Next Period:

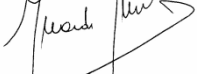
- Conduct the 4th Annual Equipment Rodeo in Blacksburg.
- Coordinate the delivery of a Griptesters and the Dynatest HFT system to the Louisiana Transportation Research Council and the Arizona DOT/ACPA in Arizona and train their personnel on the operation and care of these devices.
- Evaluate the Beta version 2 of the GripVAL software, and make any necessary changes/ additions.
- Continue to plan the Pavement Evaluation 2010 Conference (PE 2010). Evaluate the abstract submitted and appoint the various conference committees.
- Conduct additional field tests of the moving macrotexture measurement on at least a new surface type.
- Submit 1-3 abstract for presentation at the Pavement Evaluation 2010 (PE 2010) national conference in Roanoke, VA.
- Participate in the meeting of the PIARC Technical Committee D2 Road Pavements in Irvine, CA.

Budget Status:

Current FY Project Budget: \$ 355,540 (including cost share)	Project Budget Lifetime: \$ 1,070,465
Current FY Expenditures: \$ 223,302 as of 03/31/10	Expenditures LTD: \$ 736, 378
Percent Expended this FY: 63 % (Date)	Percent Expended LTD: 69%

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)