



Research Progress Report

Today's Date

For Quarter Ending June 30, 2008

07/10/2008

Project Number		Project Title	
RT215		286 Implementation of Concrete Pavement Preservation and PCC Surface	
Research Progress Report Author		Telephone No.	E-mail address
Paul Wiegand		(515) 294-7082	pwiegand@iastate.edu
Principal Investigator Name		Telephone No.	E-mail address
Paul Wiegand		(515) 294-7082	
Co-Investigator Name		Telephone No.	E-mail address
Tom Cackler		(515) 294-3230	tcackler@iastate.edu
Principal Investigator Organization Name/Address			
CTRE, 2711 S. Loop Drive, Suite 4700, Ames, Iowa 50010-8664			
DOT Office		DOT Contact Name	E-mail address
Research & Technology		Sandra Larson	sandra.larson@dot.iowa.gov
Percent of Dollars Paid	Dollars Allocated	Dollars Paid	Percent Project Completion
3	617,000.00	21,366.16	35
Original Project Start Date		Original Project End Date	Current Completion Date
01/01/2007		01/28/2011	

DESCRIPTION OF RESEARCH			
Task Title	Start Date of Task	Original Completion Date	Completion Date
Technical Evaluation and Coordination	01/29/2007	01/28/2011	
Field measurement and data collection of new and existing textures	01/29/2007	09/30/2009	
Data Analysis and report writing	01/29/2007	01/28/2011	
State Technical Working Group administration	01/29/2007	01/30/2010	
Plan, Develop, and Execute Technology Transfer Experimental plan development	01/29/2007	01/28/2011	



Research Progress Report

(Page 2 of 3)



Technical Advisory Committee Names	Telephone No.	E-mail address
Peter Dirrim	(916) 227-5854	peter_dirrim@dot.ca.gov
Technical Advisory Committee Names	Telephone No.	E-mail address
Todd Hanson	(515) 239-1226	todd.hanson@dot.iowa.gov
Technical Advisory Committee Names	Telephone No.	E-mail address
Bernard Izevbekai	(651) 779-5608	bernard.izevbekai@dot.state.mn.us
Technical Advisory Committee Names	Telephone No.	E-mail address
Bill McColl	(518) 457-5672	wmccoll@dot.state.ny.us
Technical Advisory Committee Names	Telephone No.	E-mail address
Lisa Lukefahr	(512) 506-5858	elukefa@dot.state.tx.us
Technical Advisory Committee Names	Telephone No.	E-mail address
Kim Willoughby	(360) 705-7978	willouk@wsdot.wa.gov

TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates	TAC Meeting Dates
05/04/2007	04/11/2008				

Primary Investigator Concerns, Problems, Needs or No-Cost Extension Requests

Tac Committee Coninued:



Project Progress to Date and other pertinent information

Products and tangible results this quarter (reports/articles written, oral reports/reviews given):

Presentation given:

- ACPA Technical Committee meeting, April 1, 2008
- CP Road Map Surface Characteristics Track Leaders meeting, April 23/24, 2008
- CP Tech Advisory Board, April 30, 2008
- TRB AHF 50 Committee meeting, May 5, 2008

Interaction with Technical Monitor and/or Project Advisory Committee:

- TAC conference call, April 11, 2008

Brief summary of this quarter's research:

Development of the Texturing Guideline is 95% complete - awaiting final comments from reviewers, and expect a release in time for the ACPA mid-year meetings.

Worked on an agreement with the Wisconsin DOT on a Type 1 project, but since had to move to an alternate option due to an acceleration in the paving schedule there.

Solicited alternatives for Type 1 project, and responding to leads for Sep-Oct construction.

Began development of IntelliTex: the integrated system of sensors that will provide quantitative feedback on the potential sources of texture imparted into the slab. This system will be used during the Type 1 project to validate the Texturing Guidelines.

Further analysis of sound level variability as a function of windowing function and averaging time.

Reprocessed data collected from 2004-2007 and applied tire corrections to build acoustical durability for Type 1 and 2 sites.

Further analysis of joint noise effects and its impact on overall noise levels of various test sections.

Review of ACPA NG Grinding Texture and comparison with other grinding data - includes new measurements collected in IL and MN.

Finalized standard methods for data reporting from test sites - began generating State reports for measurements.

Processed and provided data collected during General Motors Desert Proving Grounds "OBSI rodeo" in Arizona.

Data collected in Iowa (Type 1 and Type 3 revisit), Georgia (Type 2), Virginia (Type 2), DC (new Type 3), New York (converted Type 2 and Type 3 revisit), Ohio (new Type 3), Minnesota/MnROAD (new Type 2), Illinois (new Type 3), and Kansas (Type 2).

Conducted SC measurements of demonstration of 2-lift/exposed aggregate concrete paving project in Kansas (new Type 3 site).

Subject surface characteristics

Keywords surface characteristics