



Research Progress Report

Today's Date

For Quarter Ending March 31, 2008

04/08/2008

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	16,699.78	15
Original Project Start Date		Original Project End Date	Current Completion Date
01/01/2007		01/28/2011	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	



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					

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

Tac Committee Coninued:
Irene Battaglia; 608-246-3855; Irene.Battaglia@dot.state.wi.us

No problems have been encountered. The project is on time and within budget to date.



Project Progress to Date and other pertinent information

Products and tangible results this quarter (reports/articles written, oral reports/reviews given):
Presentations made at the Iowa Concrete Paving Workshop, February 6th and the ACPA Mid-Year Noise Committee meeting, March 31, 2008. Submitted abstract which was selected for a presentation at Noise-Con 2008.

Interaction with Technical Monitor and/or Project Advisory Committee:
Technical Advisory Committee conference call held on February 1, 2008.

Brief summary of this quarter's research:

- Development of the Texturing Guideline is just over 75% complete.
Continued CPSCP website on SurfaceCharacteristics.com
- Initiated an agreement with the Wisconsin DOT on a Type 1 project. Workplan under review.
- Further analysis of Aquatred-SRTT database to establish correlation between test tires. Further analysis of sound level variability as a function of windowing function and averaging time.
- Analysis of joint noise effects and its impact on overall noise levels of various test sections.
- Review of ACPA Quiet Grinding Texture and comparison with other grinding data.
- Analysis of acoustical durability of Type 1 and 2 test sections.
- Development of standard methods for data reporting from test sites.
- Participated in data collection at the General Motors Desert Proving Grounds in Arizona.

Main emphasis for next quarter:

- Data analysis from Part 2 of the study is continuing, along with new data collected in Part 3.
- Continue work with Purdue TPTA project to understand joint effects on noise.
- Complete Texturing Guidelines document
- Continue to pursue additional Type 1 sites.
- Work with Paul Donovan to identify variability sources and improve data presentation.
- Continue to focus on TT documents.

Subject surface characteristics

Keywords surface characteristics