



# **Progress Report 2006-2**

*Jim Grove, Center for PCC Pavement Technology*

**(April-June, 2006)**

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## **TPF-5(066) Material and Construction Optimization for Prevention of Premature Pavement Distress in PCC Pavements**

Purpose of Project: To develop optimal mix design and test methods for monitoring Key performance parameters and conduct demonstration tests in participating states.  
<http://www.ctre.iastate.edu/pccpoolfund/>

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**Project Dates:** October 15, 2004 – ~~December 31, 2005~~ August 31, 2006

**Project Title:** Material and Construction Optimization for Prevention of Premature Pavement Distress in PCC Pavements (**Project No. 18**)

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Progress Report:

- Project is on schedule Yes
- Project is within budget Yes
- Significant changes in project description No

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

- A project update brochure was distributed at the April 18, 2006 TAC meeting.

Interaction with Technical Monitor and/or Project Advisory Committee:

- The spring meeting of the Technical Advisory Committee was held in St. Louis, MO on April 18th. There were 24 attendees with 15 of the 16 states represented.
- The regular monthly conference calls with the executive committee were held on May 10.
- An update memo was emailed to the executive committee on June 13 in lieu of the regular conference call.

Brief summary of this quarter's research:

- Prepared project summary brochure providing significant data findings and a preliminary discussion of recommended tests and procedures for distribution at the TAC meeting in April.
- Conducted the Oklahoma shadow project April 3-13, 2006 on I-35, immediately north of the Texas border.
- Conducted the Georgia shadow project May 15-25, 2006 on I-75, south Adel, Georgia.
- Continued laboratory testing at the ISU lab on shadow project concrete samples.
- In June, work on this project was stopped because funds had been run out. The remainder of this project will be funded by moneys from the National Concrete Pavement Technology Center research earmark but those funds have not been received from FHWA. The project will resume as soon as the cooperative agreement between the FHWA and the Center has been executed.

Expected activities for next quarter:

- Conduct shadow projects in South Dakota and New York.
- Send the IMCP Manual to the printers.
- Continue lab testing of materials from completed shadow projects.
- Continue analysis of the data from the field test results to date.
- Continue work on the final MCO report.

	Task Description	Expected Completion	% of Task
1	<b>Data Collection</b> Survey of past projects which experienced problems Compile local state testing practice Gather research information	Dec 2005	95%
2	<b>Test Development</b> Develop suite of tests to measure concrete properties Define test procedures	2006	85%
3	<b>Demonstration projects</b> Demonstrate test procedures on participating state projects Development of protocol for sampling and testing Field verification of laboratory testing and solutions	2006	75%
4	<b>Technology transfer</b> Develop initial standards/guidelines (“Best Practices”) Demonstrate tests and procedures Conduct technology transfer	2007	50%

**QUARTERLY BUDGET REPORT FOR  
COOPERATIVE AGREEMENT NO. DTFH61-01-X-00042: Project No. 18  
MATERIALS AND CONSTRUCTION OPTIMIZATION**

**DATA FOR THE QUARTER ENDING JUNE 30, 2006**

<b>BUDGET CATEGORY DESCRIPTION</b>	<b>AMOUNT BUDGETED</b>	<b>EXPENDITURES THIS PERIOD</b>	<b>CUMULATIVE EXPENDITURES</b>
SALARIES/WAGES	\$205,039.00	\$13,894.49	\$208,533.23
BENEFITS	\$66,926.00	\$2,831.08	\$53,530.40
TRAVEL	\$83,756.00	\$16,589.15	\$54,167.99
SUPPLIES/MATERIALS	\$1,300.00	\$346.27	\$1,617.77
OTHER DIRECT COSTS	\$53,720.00	\$37,374.96	\$144,778.56
<b>TOTAL DIRECT COSTS</b>	<b>\$410,741.00</b>	<b>\$71,035.95</b>	<b>\$462,627.95</b>
INDIRECT COSTS (University Overhead)	\$106,792.90	\$6,429.61	\$106,792.45
<b>CATEGORY TOTALS</b>	<b>\$517,533.90</b>	<b>\$77,465.56</b>	<b>\$569,420.40</b>

**NOTES:**

THE ISU SPONSORED PROGRAM ACCOUNTANT IS THE ONLY PERSON ABLE TO CERTIFY THE ACCURACY OF FINANCIAL DATA. THE INFORMATION PROVIDED ABOVE IS BASED ON DATA AVAILABLE TO DEPARTMENT PERSONNEL AND MAY DEVIATE SLIGHTLY FROM FINANCIAL REPORTS SUBMITTED BY OFFICIAL ISU ACCOUNTANT.

Note: Total budgeted does not account for the additional \$53,000 from Amendment 13. Amendment 13 continues to be unsigned.