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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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**Progress Report:**

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| • 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 presentation on the project was made at the SCAN meeting on April 7 in Orlando.

**Interaction with Technical Monitor and/or Project Advisory Committee:**

- A regular monthly teleconference with the executive committee was held on May 12.
- Minutes from the monthly teleconferences are available on the web page.
- The spring meeting of the Technical Advisory Committee was held in Madison, WI on April 13th. There were 33 attendees with 15 of the 16 states represented.
- A meeting of the Technical Advisory Subcommittee overseeing the IMCP manual met on April 26<sup>th</sup> in Chicago with many of the authors.

**Brief summary of this quarter's research:**

- Sight visits were made to Indiana on June 8 and Ohio on June 9.
- The raw data from the state visits is continuing to be compiled.
- Jim met with Featherlite on May 24 to discuss the mobile lab. Bob Steffes and the technicians working on this project made two additional visits to Featherlite.
- Gary Fick met with the staff on May 13 and 14. He will prepare write ups about each of the tests for the notebooks that each state will receive.
- Dale, Marcia and Jim met with Peter Taylor and Kurt Smith on May 25 to discuss details of the IMCP manual.
- The mobile concrete research lab arrived at ISU on June 24.
- Delivery the truck was delayed and will arrive in July.
- Three lab technicians have obtained their CDL's and will be able to drive the rig to and from the demo sights.

**Expected activities for next quarter:**

- Finish state visits by formally visiting Iowa.
- Continue evaluation of tests and procedures for the suite of tests to be used.
- Continue to work on the best practices manual with the editorial team
- Complete installation of the lab trailer equipment.
- Prepare the details of the testing and logistics for the first state demo project.
- Conduct three or four demo project visits.

**Work Progress by Task:**

Task #	Task Description	Expected Completion Date	% of Task Completed
1	<b>Data Collection</b> Survey of past projects which experienced problems Compile local state testing practice Gather research information	June 2004	80%
2	<b>Test Development</b> Develop suite of tests to measure concrete properties Define test procedures	2006	805%
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	25%
4	<b>Technology transfer</b> Develop initial standards/guidelines (“Best Practices”) for testing Demonstrate tests and procedures Conduct technology transfer	2007	20%