

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT):           IOWA DOT          

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

<b>Transportation Pooled Fund Program Project #</b> TPF-5(159)	<b>Transportation Pooled Fund Program - Report Period:</b> <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31, 2014) <input type="checkbox"/> Quarter 2 (April 1 – June 30, 201) <input type="checkbox"/> Quarter 3 (July 1 – September 30, 2014) <input type="checkbox"/> Quarter 4 (October 4 – December 31, 2014)	
<b>Project Title:</b> Technology Transfer Concrete Consortium (TTCC)		
<b>Project Manager:</b> Linda Narigon	<b>Phone:</b> 239-1471	<b>E-mail:</b> linda.narigon@dot.iowa.gov
<b>Project Investigator:</b> Tom Cackler	<b>Phone:</b> 294-3532	<b>E-mail:</b> tcackler@iastate.edu
<b>Lead Agency Project ID:</b> RT 0273	<b>Other Project ID (i.e., contract #):</b> Addendum 315	<b>Project Start Date:</b> 1/27/07
<b>Original Project End Date:</b>	<b>12/31/2014</b>	<b>Number of Extensions:</b> Incremental funding, PFS

\*Administrative contract end date: 12/30/14. Administrative contract, which includes work scope components determined by the TAC, is evaluated on an annual basis. Commitments thru 2015

Project schedule status:

On schedule       On revised schedule       Ahead of schedule       Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$927,800.00	\$771,100.17	90%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$7,629.41	N/A	N/A

**Project Description:**

Increasingly, state departments of transportation (DOTs) are challenged to design and build longer life concrete pavements that result in a higher level of user satisfaction for the public. One of the strategies for achieving longer life pavements is to use innovative materials and construction optimization technologies and practices. In order to foster new technologies and practices, experts from state DOTs, Federal Highway Administration (FHWA), academia and industry must collaborate to identify and examine new concrete pavement research initiatives. The purpose of this pooled fund project is to identify, support, facilitate and fund concrete research and technology transfer initiatives.

The goal of the TTCC is to:

- Identify needed research projects
- Develop pooled fund initiatives
- Provide a forum for technology exchange between participants
- Develop and fund technology transfer materials
- Provide on-going communication of research needs faced by state agencies to the FHWA, industry, and CP Tech Center
- Provide guidance as part of the Track Team for the CP Road Map Mix Design/Analysis Track
- Provide assistance as requested by the CP Road Map Executive Committee on other select tracks

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**

- Planning for spring meeting which will be April 22-24, 2014 in Jacksonville, Florida
- April's agenda is attached.

**Anticipated work next quarter:**

- Planning for Fall Conference, tentatively planned for Council Bluffs, Iowa

**Significant Results:**

See [http://www.cptechcenter.org/t2/ttcc\\_ncc\\_meeting.cfm](http://www.cptechcenter.org/t2/ttcc_ncc_meeting.cfm)

**Circumstance affecting project or budget (Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

TTCC TAC committee is listed on following page:

Reps as per TPF website are noted with \*

Reps & Attendees States w/ 2 Attendees	State	First	Last	E-Mail
1	Alabama	Larry	Lockett*	lockett@dot.state.al.us
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26	Wisconsin	Jim	Parry*	james.parry@dot.wi.gov

\*technical rep(s) per PFS web

## Agenda

Jacksonville, FL – April 22-24, 2014

### Tuesday, April 22

6:30 am	<b>Breakfast available each morning until 8:00 am (Duval Ballroom)</b>
7:30 am	<b>Registration</b> <b>Moderator</b> - Maria Masten, MnDOT and NCC Executive Committee Chair
8:00 am	Welcome and introductions – Tom Cackler, National CP Tech Center Director and Tom Byron, Florida DOT Chief Engineer
8:25 am	Comments from Butch Waidelich, FHWA Associate Administrator, Office of Infrastructure
8:45 am	Open Forum <ul style="list-style-type: none"> <li>• Kansas SPS 2-lessons learned - Heather McLeod, KsDOT</li> <li>• Rethinking concrete delivery for increased quality – Eric Koehler, Verifi</li> </ul>
10:00 am	FHWA updates - Gina Ahlstrom - Sustainability Manual Steve Cooper - SHRP-2 implementation update
10:30 am	State Reports: developing a research database for the NCC <ul style="list-style-type: none"> <li>• Summary of survey – DOT/academic combined presentation - Tyson Rupnow, LA DOT</li> <li>• NCC database/research database for CP Road Map Overview – Peter Taylor, CP Tech</li> </ul>
11:00 am	Presentations on specific technologies/advancements DOTs - What concrete related research have you conducted, or are conducting, that you have implemented in the last 10 years? <ul style="list-style-type: none"> <li>• MN DOT research - Tom Burnham, MN DOT</li> <li>• Concrete mixes – Steve Gillen, IL Tollway</li> </ul>
12:00 pm	<b>Lunch</b>
1:00 pm	Presentations on specific technologies/advancements (continued) <ul style="list-style-type: none"> <li>• Bridge deck construction review and crack research - James Krstulovich, IL DOT</li> <li>• DG slurry disposal - Davis Diggs, NC DOT</li> </ul>
2:00 pm	Recommendation on AASHTO M254 on dowel bar coatings – Steve Tritsch, J C Supply and Kevin McMullen, Wisconsin Concrete Pavement Association
3:00 pm	Durability/performance specifications – Peter Taylor, National CP Tech Center Measuring the transport properties in concrete: lessons learned and their implications moving forward - Dr. Jason Weiss, Purdue University
5:00 pm	Adjourn for the day/dinner on your own

### Wednesday, April 23

7:45 am	Cement Task Force <ul style="list-style-type: none"> <li>• Portland limestone cements – Al Innis, Holcim</li> <li>• Nebraska’s 2014 spec on blended cements – Lieska Halsey, Nebraska DOT</li> <li>• Industry perspective on Nebraska’s spec - Kameron Williams, Central Plains Cement</li> </ul>
8:30 am	Research updates <ul style="list-style-type: none"> <li>• <i>3<sup>rd</sup> Edition Overlay Guide; Synthesis, Preservation Manual &amp; Training</i> - Dale Harrington, CP Tech Center</li> <li>• Water permeability test - Peter Taylor, CP Tech Center</li> <li>• Presentation on SCOR &amp; RAC (how to advance proposals) – Heather McLeod, KSDOT</li> </ul>
10:30 am	Research updates (continued) <ul style="list-style-type: none"> <li>• Internal Curing: What can we learn from Disney’s inspiration? - Jason Weiss, Purdue Univ.</li> </ul>
11:30 am	Q&A
11:45am	<b>Pick up box lunches and board buses</b>
12 noon	<b>Bus departs for Gainesville Lab Technical Tour</b>

**Thursday, April 24**

8:00 am	Business meeting <ul style="list-style-type: none"><li>• Election<ul style="list-style-type: none"><li>➤ AASHTO Regions 2 and 4</li><li>➤ Academia</li><li>➤ At large</li></ul></li></ul>
8:30 am	<ul style="list-style-type: none"><li>• Recommendations regarding TRB research priorities – Heather McLeod, KS DOT, Tyler Ley, OK State University, and Tyson Rupnow, LA DOT</li></ul>
9:00 am	<ul style="list-style-type: none"><li>• New ASR test method - Prasada Rangaraju, Clemson University</li></ul>
10:00 am	Presentation on Miami tunnel – Steven Dusseault, Port of Miami Tunnel, Parsons Brinckerhoff
10:45 am	FHWA/ACI workshop on performance engineered mixes – Tom Yu, FHWA
11:05 am	Cement reciprocity agreement discussion – Maria Masten, MN DOT and John Staton, MI DOT
11:45 am	<b>Adjourn</b>

*Note that all presentations will be viewable online at [www.cptechcenter.org](http://www.cptechcenter.org) after the conference.*