

## 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> Quarter 1 (January 1 – March 31, 2014) Quarter 2 (April 1 – June 30, 201) X Quarter 3 (July 1 – September 30, 2014) Quarter 4 (October 4 – December 31, 2014)	
<b>Project Title:</b> Technology Transfer Concrete Consortium (TTCC) TPF-5(159)		
<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>Contract End Date*:</b> 12/31/2014	<b>Number of Extensions:</b> Incremental funding, PFS

\*Administrative contract end date: 12/30/14. Project is proposed to start under a new TPF number on January 1, 2015. Currently under Solicitation Number 1363 on FHWA's pooledfund.org website.

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	\$830,095.90 base contract + \$ 27,000.00 special studies ----- =857,095.90 Total expended	95%

**Quarterly** Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$39,905.81	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.):**

- Rhode Island has joined for 2015, making for 29 states + the Illinois Tollway.
- This project is proposed to continue in 2015 with as a new 5 year TPF project, with a new TPF number and accounts. Presently there are 21 states (CA, IA, IL, IN, KS, LA, MI, MN, MO, MT, NC, ND, NE, NV, OH, OK, PA, RI, SD, TX, WA) that have committed to continuing this project.
- The Fall meeting was held September 9-11, 2014
  - DoubleTree Hotel, Omaha, Nebraska
  - 160 attendees
  - 54 state DOT reps from 27 states plus 2 DOT reps from the Canadian province of Manitoba
  - September's agenda is attached
  - Presentations from the meeting are available at:  
<http://www.cptechcenter.org/ncc/TTCC-NCCMeetings.cfm>

**Anticipated work next quarter:**

- Planning for Spring NCC conference in Reno, Nevada. A western partner state was desired.
- Conference is scheduled to be held April 20-23,2015

**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 \*

	State	First	Last
1	Alabama	Larry	Lockett
		Andrew	Waldrop
2	California	Bill	Farnbach
		Mehdi	Parvini
3	Colorado	Eric	Prieve
		Brandon	Joy
4	Florida	Rhonda	Taylor
		Bouزيد	Choubane
5	Georgia	Jay	Page*
		Jason	Waters
6	Idaho	Clint	Hoops
		John	Arambarri
7	Illinois	James	Krstulovich
		Matt	Mueller*
8	Indiana	Tommy	Nantung*
		Tony	Zander
9	Iowa	Todd	Hanson*
		Peggi	Knight
		Kevin	Merryman
		Linda	Narrigon
10	Kansas	Rodney	Montney*
		Dave	Meggers
		Jennifer	Distlehorst
11	Louisiana	John	Eggers
		Harold	Paul*
		Tyson	Rupnow
12	Michigan	John	Staton*
		Tim	Stallard
		Andy	Bennett
13	Minnesota	Maria	Masten*
		Tom	Burnham
14	Missouri	Brett	Trautman*
15	Montana	Bob	Weber
		Susan	Sillick
16	Nebraska	Wally	Heyen*
		Lieska	Halsey
17	Nevada	Ken	Chambers
		Reid	Kaiser*
		Michele	Maher
		kelly	Yokotake
		Vivekananth	Yatheepan
18	New York	Bill	Cuerdon*
19	North Carolina	Nilesh	Surti*
		Richard	Burley
20	North Dakota	Clayton	Schumaker*
21	Ohio	Craig	Landefeld*
		Stephen	Slomski
22	Oklahoma	Kenny	Seward*
		Matt	Romero
		Jeff	Dean
23	Pennsylvania	Steve	Koser
		Larry	Ligon
		Josh	Freeman
24	S Dakota	Darin	Hodges*
		Jason	Smith
		Chris	Leibrock
25	Texas	Andy	Naranjo*
		Hua	Chen
		Ruben	Carrasco
		Jaime	Gandara
26	Utah	Bryan	Lee
		Scott	Andrus*
		W	Pope
27	Washington	Jeff	Uhlmeyer
		Mark	Russell
		Kim	Willoughby*
		David	Luhr
28	Wisconsin	Jim	Parry*
29	Illinois Tollway	Steve	Gillen*

# Agenda

Omaha, NE – September 9-11, 2014

## Tuesday, September 9

- 6:30 am **Breakfast – Ballroom (available each morning from 6:30 – 8:00 am)**
- 7:15 am **Registration**
- 8:00 am Welcome and Introductions - Randy Peters, Director of NE Department of Roads  
**Moderator - Maria Masten, NCC Executive Committee Chair (MnDOT)**
- 8:30 am State Reports: Aggregate Quality and Acceptance A-Z – Maria Masten, MnDOT
  - Aggregate quality specs and tests for acceptance
    - Tony Zander, Indiana DOT
    - Robert Dawson, Iowa DOT
    - Andy Naranjo, Texas DOT
- 10:00 am **Morning Break**
- 10:30 am State Reports (continued)
- 11:00 am Freeze/Thaw Pooled Fund – Dr. Tyler Ley, Oklahoma State University
- 11:30 am MnDOT Carbonate Study - Dr. Fatih Bektas, Iowa State University
- 12:00 pm **Lunch – State PFS DOT representatives to sit at reserved tables.**
- 1:15 pm MnRoad Research Update – Ben Worel, Minnesota DOT
- 2:15 pm Update on Alabama’s Moratorium on Limestone – Drew Waldrop, Alabama DOT
- 2:30 pm Microsphere-Based Admixture for F/T Resistant Concrete - Charles Nmai, BASF
- 3:00 pm **Afternoon Break**
- 3:30 pm NCHRP Fly Ash Research - Dr. Larry Sutter, Michigan Tech
- 4:15 pm Aggregate Gradation – Dr. Tyler Ley, Oklahoma State University
- 4:45 pm Research Update - Prasada Rangaraju, Clemson University
- 5:00 pm Adjourn for the day

## Wednesday, September 10

- 8:00 am Iowa DOT Remarks – John Adam, Director, IA DOT Highway Division
- 8:15 am History of Concrete Paving – Dave Howard, Koss Construction
- 9:00 am Pavement Foundation TPF 5(183) Research Update – Dr. David White, Iowa State University
- 10:00 am **Morning Break**
- 10:30 am How to Get Contractor Quality for Building Quality - Matt Zeller, Concrete Paving Association of Minnesota and Robert Kennedy, Koss Construction
- 11:15 am FHWA Update – Gina Ahlstrom, FHWA
- 11:45 am Geology of Weeping Water, Nebraska - Rory Martin, Martin Marietta Geologist
- 12:15 pm **Pick up box lunches, return to meeting room to view safety presentation for mine tour**
- 1:15 pm Buses depart from the hotel for technical tour –  
Martin Marietta Limestone Mine – Weeping Water, Nebraska
- 6:10 pm Meet in lobby and walk to 6:30 Group Dinner at Upstream (514 S 11<sup>th</sup> Street, Omaha)

## Thursday, September 11

- 7:45 am Business Meeting
- NCHRP research priorities – Tyson Rupnow, Louisiana DOT
  - AASHTO update – John Staton, Michigan DOT and Maria Masten, MnDOT
  - TTCC TPF transition update – Iowa DOT
- 8:30 am I-680 Reconstruction - George Feazell, Iowa DOT, Brian Higginbotham, HGM, and Wade Greiman, Snyder and Associates
- 9:15 am Patching (Tying and Opening Strength) Panel - Tommy Nantung and Tony Zander, Indiana DOT, and John Staton, Michigan DOT
- 10:00 am **Morning Break**
- 10:15 am Dowel Bar Task Force Report – Tom Burnham, MnDOT, and Mark Snyder, Engineering Consultant
- 10:40 am Cement Reciprocity Task Force Report – Lieska Halsey, NDOR, and Todd Hanson, Iowa DOT
- 11:00 am CP Tech Center Updates
- Performance Engineered Mixes – Peter Taylor, CP Tech Center
- 11:30 am Adjourn

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