

## 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), 2013 <input type="checkbox"/> Quarter 2 (April 1 – June 30), 2013 <input type="checkbox"/> Quarter 3 (July 1 – September 30), 2013 <input type="checkbox"/> Quarter 4 (October 4 – December 31), 2013	
<b>Project Title:</b> Technology Transfer Concrete Consortium (TTCC)		
<b>Project Manager:</b> Sandra Larson	<b>Phone:</b> 239-1205	<b>E-mail:</b> Sandra.Larson@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>	Current Project End Date: Ongoing *	<b>Number of Extensions:</b> Incremental funding, PFS

Project schedule status: \* Administrative Contract End Date is 12/31/13. Administrative contract, which includes work scope components determined by the TAC, is evaluated on an annual basis. Commitments are being accepted through 2015.

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
\$742,000	\$649,487	On-going activities

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$23,054		

**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.):**

- Finalized planning for the Spring meeting in Philadelphia, Pennsylvania April 2-4, 2013.
- Presentations and state reports will be available on the website following the meeting.
- Agenda

## Tuesday, April 2 – Research and Technology Presentations

7:30 - 8:00 am	Registration/coffee (Grand Ballroom)
8:00 am	Welcome – Les Toaso, PennDOT District 6 Executive
8:15 am	Research and technology deployment updates Durability-based spec's – Peter Taylor, CP Tech Center Synthesis results Task force report on draft TPF project
9:00 am	Constructing concrete roundabouts Colorado and Kansas – Dan DeGraaf, Michigan Concrete Association
9:30 am	Dowels Epoxy coating spec's for dowel bars/relative merits of thicker coatings – Dave McDonald, EIG-CRSI
10:00 am	<i>Morning Break</i>
10:30 am	Dowels (continued) ACPA-dowel alignment spec – Mark Snyder, ACPA-PA Chapter
11:00 am	Crack repair: looking at different distresses and how/when to repair in lieu of slab replacement – Gordon Smith, ICPA
11:30 am	Cement task force reports Performance of Type 1L cements with slag cement – John Melander, Slag Cement Association
12 noon	<i>Lunch Break</i>
1:00 pm	Cement task force reports (continued) Update on C595/M240 Type 1L cement performance – Tim Cost, Holcim
1:40 pm	Precast pavement construction using the Super-Slab System® - Dan Moellman, The Fort Miller Co., Inc.
2:10 pm	FHWA updates - Gary Crawford, FHWA New cooperative agreement with the CP Tech Center Technology deployment plans
2:45 pm	<i>Afternoon Break</i>
3:15 pm	Life-cycle cost and environmental assessment research at the MIT Concrete Sustainability Hub – Jeremy Gregory, MIT
3:45 pm	CP Tech Center research updates – Peter Taylor, CP Tech Center CP Tech Center updates – Dale Harrington, CP Tech Center

Wednesday, April 3 – Research/Technology Presentations and Demonstrations	
8:00 am	Thin concrete overlays and pavements Plano, Texas, thin overlay – Gary Fick, Trinity Construction Management Services Thin concrete pavements – Jeff Roesler, U of IL and Juan Pablo Covarrubias, TCPavements South Africa – Peter Taylor
10:00 am	<i>Morning Break</i>
10:30 am	Thin concrete overlays and pavements MnROAD research – Tom Burnham, MnDOT
11:00 am	The future for QC/QA tools Intro to technology demonstrations – Peter Taylor, Jim Grove
11:30 am	Pick up box lunches and board buses
12:00 noon	Buses depart for 1) field site and 2) district office for demonstrations (split in two groups) FHWA trailer: Hands-on demo's
7:30 pm	Board buses for return trip to hotel (20 miles)

Thursday, April 4 – Business Meeting and State Reports on IRI Ride Spec's

8:00 am	Business Meeting – Brett Trautman, NC2 Chair Domestic scan proposal status Fall 2013 meeting in North Carolina – September 23-25 (note Monday-Wednesday) Elections: the following members' terms expire AASHTO Region 1 (currently held by Scott Nazar) AASHTO Region 3 (currently held by Maria Masten) Chair (currently held by Brett Trautman) Contractor (currently held by Matt Ross) Supplier (currently held by Steve Tritsch) Discussion on new TPF proposals
9:00 am	National perspective on IRI ride specifications – Steve Cooper, FHWA
9:30 am	Minnesota's experience with IRI ride spec's – Maria Masten, MnDOT
9:45 am	<i>Morning Break</i>
10:00 am	State practices reports on IRI ride spec's
11:45 am	Adjourn

**Anticipated work next quarter:**

- Conduct the Spring Conference
- Begin planning for Fall Conference; to be held in September in Ashville, NC

**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:

	<b>State</b>	<b>Technical Contact(s)</b>
<b>1</b>	Alabama	Shannon Golden
<b>2</b>	California	Mehdi Parvini
<b>3</b>	Colorado	Patrick Kropp
<b>4</b>	Georgia	Jay Page
<b>5</b>	Illinois	James Krstulovich
<b>6</b>	Indiana	Tommy Nantung
	Indiana	Tony Zander
<b>7</b>	Iowa	Todd Hanson
	Iowa	Kevin Merryman
<b>8</b>	Kansas	Dave Meggers
	Kansas	Heather McLeod
<b>9</b>	Louisiana	Tyson Rupnow
<b>10</b>	Michigan	John Staton
	Michigan	Mark Grazioli
<b>11</b>	Minnesota	Maria Masten
<b>12</b>	Missouri	Brett Trautman
<b>13</b>	Nebraska	Wally Heyen
	Nebraska	Lieska Halsey
<b>14</b>	New York	Bill Cuerdon
<b>15</b>	North Carolina	Nilesh Surti
<b>16</b>	North Dakota	Clayton Schumaker
<b>17</b>	Ohio	Craig Landefeld
<b>18</b>	Oklahoma	Kenny Seward
	Oklahoma	Jeff Dean
<b>19</b>	Pennsylvania	Scott Nazar
<b>20</b>	S Dakota	Darin Hodges
	S Dakota	Jason Smith
<b>21</b>	Texas	Hua Chen
<b>22</b>	Utah	Bryan Lee
<b>23</b>	Washington	Jeff Uhlmeyer
	Washington	Mark Russell
<b>24</b>	Wisconsin	Jim Parry
<b>25</b>	Illinois Tollway	Steve Gillen