## 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.

### Transportation Pooled Fund Program Project # TPF-5(159)

<table>
<thead>
<tr>
<th>Transportation Pooled Fund Program - Report Period:</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Quarter 1 (January 1 – March 31), 2013</td>
</tr>
<tr>
<td>□ Quarter 2 (April 1 – June 30), 2013</td>
</tr>
<tr>
<td>□ Quarter 3 (July 1 – September 30), 2013</td>
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<tr>
<td>□ Quarter 4 (October 1 – December 31), 2013</td>
</tr>
</tbody>
</table>

### Project Title:
Technology Transfer Concrete Consortium (TTCC)

<table>
<thead>
<tr>
<th>Project Manager:</th>
<th>Phone:</th>
<th>E-mail:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sandra Larson</td>
<td>239-1205</td>
<td><a href="mailto:Sandra.Larson@dot.iowa.gov">Sandra.Larson@dot.iowa.gov</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Investigator:</th>
<th>Phone:</th>
<th>E-mail:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tom Cackler</td>
<td>294-3532</td>
<td><a href="mailto:tcackler@iastate.edu">tcackler@iastate.edu</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lead Agency Project ID:</th>
<th>Other Project ID (i.e., contract #):</th>
<th>Project Start Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>RT 0273</td>
<td>Addendum 315</td>
<td>1/27/07</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Original Project End Date:</th>
<th>Number of Extensions:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Project End Date: Ongoing</td>
<td>Incremental funding, PFS</td>
</tr>
</tbody>
</table>

**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

### Overall Project Statistics:

<table>
<thead>
<tr>
<th>Total Project Budget</th>
<th>Total Cost to Date for Project</th>
<th>Total Percentage of Work Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>$742,000</td>
<td>$649,487</td>
<td>On-going activities</td>
</tr>
</tbody>
</table>

### Quarterly Project Statistics:

<table>
<thead>
<tr>
<th>Total Project Expenses This Quarter</th>
<th>Total Amount of Funds Expended This Quarter</th>
<th>Percentage of Work Completed This Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>$23,054</td>
<td></td>
<td></td>
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</tbody>
</table>
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.):
- Presentations and state reports will be available on the website following the meeting.
- Agenda

Tuesday, April 2 – Research and Technology Presentations

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

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

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

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

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