

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(233)	Transportation Pooled Fund Program - Report Period: <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31), 2012 <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 4 – December 31)	
Project Title: Technology Transfer Intelligent Compaction Consortium (TTICC)		
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Lead Agency Project ID: RT 0347	Other Project ID (i.e., contract #): Addendum 385	Project Start Date: 8/6/10
Original Project End Date: 3/15/14	Current Project End Date:	Number of Extensions: Ongoing pooled fund; interim budgets

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
\$51,000	\$48,283.75	ongoing

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$17,199.79		

Project Description:

Increasingly, state departments of transportation (DOTs) are challenged to design and build longer life 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 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 and emerging technologies and systems. The purpose of this pooled fund project is to identify, support, facilitate and fund intelligent compaction research and technology transfer initiatives.

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

- Seven new IC tech briefs have been developed.
- The 2nd TTICC workshop was conducted on March 6 to 7, 2012. The workshop was attended by 13 representatives from state DOTs, 2 representatives from Federal Highway Administration (FHWA), 4 representatives from Iowa State University, and 6 representatives from Industry (Advanced Drainage Systems, Bomag Americas, Caterpillar, Inc., Trimble Navigation Ltd.). Evaluation of the workshop by the attendees is provided below.
- A workshop report with contents of the workshop is being developed and will be submitted early next quarter.

WORKSHOP EVALUATIONS**Did the TTICC meeting meet your expectations?**

- Yes. Wish more states had participated
- Yes. Exceed expectations (3)

What was the most useful part of the meeting?

- Day 2 discussions with industry (2)
- Input/issues from other DOTs
- Industry's new developments and technologies
- Discussion/breakout groups
- Industry

What was the least useful part of the TTICC meeting?

- "Reorganizing priorities" discussion (dragged)
- DOT updates
- Nothing. Everything had a purpose. All useful (3 separate entries)

What suggestions would you make to improve the next TTICC meeting?

- Hard to say; other than to have progress on various needs/problems/solutions to discuss
- Try to get more DOTs involved
- Industry involved every time!
- Continue dialogue with industry

Additional comments:

- Enjoyed the venue and meals
- Logistics were excellent. Well organized.

Anticipated work next quarter:

- Complete the 2nd TTICC workshop report.
- Continue developing IC briefs.

Significant Results:

The following are some of the key outcomes of the TTICC workshop:

1. The workshop served as a forum for discussion between state DOT, FHWA, and industry representatives in addressing the challenges in implementing the IC technology.
2. The workshop attendees updated and prioritized the IC technology research, implementation, and educational needs road map.
3. The workshop attendees developed list of action items for the TTICC group, industry, and FHWA to advance and accelerate implementation of IC technology into earthwork and asphalt construction practice.

The discussion between the TTIC group, FHWA and industry representatives identified three major focus areas shown below, that need immediate attention to advance and effectively implement IC technology into US construction practice:

1. Developing new data management, analysis, and visualization tools
2. Defining and setting new standards for quality in road building (performance based specifications)
3. Exploring alternative contract delivery modes for construction projects that support innovation

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).

None