

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: Quarter 1 (January 1 – March 31) Quarter 2 (April 1 – June 30) <input checked="" type="checkbox"/> Quarter 3 (July 1 – September 30), 2012 Quarter 4 (October 4 – December 31)	
Project Title: Technology Transfer Intelligent Compaction Consortium (TTICC)		
Project Manager: David White	Phone: 294-1463	E-mail: djwhite@iastate.edu
Project Investigator: David White Pavana Vennapusa	Phone: 294-1463 294-2395	E-mail: djwhite@iastate.edu pavanv@iastate.edu
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: 06/30/2014	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
\$249,000	\$57,402.10	ongoing

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$3,845.95		

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.):

- A web meeting was held in August with TTICC members. A list of meeting attendees and meeting minutes are attached to this QPR.
- A face-to-face meeting is being planned on a project site in Boone, Iowa for IC demonstration and developing content for IC 101 video.
- Bids for IC video development were sent out and a vendor has been selected (Demonstratives, Inc.)

Anticipated work next quarter:

- on-site meeting early October for IC training
- video development with Demonstratives

Significant Results:

- As part of the August web meeting, the possibility of producing a high quality video showing the IC technology with high quality animations, play back audio, and TTICC member interviews, was discussed. A sample video depicting the level of animation was shown to the participants. TTICC representatives unanimously agreed to develop such a video. The TTICC research team developed the requirements of the video and worked with the ISU purchasing department to identify a vendor. A company Demonstratives, Inc., has been selected to develop the video.
- The TTICC research team has been involved in building and testing research test sections in Boone, Iowa on a Iowa DOT research project. An IC demonstration project was proposed to the TTICC team to get hands-on experience. TTICC team agreed to attend the demonstration. The research team contacted Bomag, Caterpillar, Case, Dynapac, and Sakai for availability of IC rollers for demonstration.

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

Technology Transfer Intelligent Compaction Consortium (TTICC) — TPF-5(233)
Web Meeting/Conference Call
August 10, 2012

Attendees:

Technology Transfer Intelligent Compaction Consortium				
Representing	Name	Organization	Phone	Email
Iowa State Univ	David White	ISU	515-294-1463	djwhite@iastate.edu
	Sharon Prochnow	ISU	515-294-3781	prochnow@iastate.edu
	Pavana Vennapusa	ISU	515-294-2395	pavanv@iastate.edu
California	James Lee	Caltrans	916-274-6095	james_n_lee@dot.ca.gov
Georgia	Ian Rish	Georgia DOT	404-608-4726	irish@dot.ga.gov
Iowa	Stephen Megivern	Iowa DOT	515-239-1936	stephen.megivern@dot.iowa.gov
	Vanessa Goetz	Iowa DOT	515-239-1280	melissa.serio@dot.iowa.gov
	Mark Dunn	Iowa DOT	515-239-1447	mark.dunn@dot.iowa.gov
	Sandra Larson	Iowa DOT	515-239-1205	sandra.larson@dot.iowa.gov
	Jeffrey Schmitt	Iowa DOT	515-239-1013	jeffrey.schmitt@dot.iowa.gov
Kentucky	Brad Rister	Univ Ky		brister@engr.uky.edu
	Kean Ashurst	Univ Ky	859-257-7319	kashurst@engr.uky.edu
Mississippi	Alex Middleton	Ms DOT		amiddleton@mdot.state.ms.us
Missouri	William Stone	MoDOT	573-526-4328	william.stone@modot.mo.gov
	Kevin McLain	MoDOT		mike.fritz@modot.mo.gov
Ohio	Craig Landefeld	OhDOT	614-275-1331	Craig.Landefeld@dot.state.oh.us
	Peter Narsavage	OhDOT	614-644-8173	peter.navasavage@dot.state.oh.us
Pennsylvania	Daniel Clark	PennDOT	717-787-3137	danielclar@pa.gov
Wisconsin	Judith Ryan	WiDOT	608-246-5456	judith.ryan@dot.wi.gov
	Jed Peters	WiDOT	608-220-0690	jed.peters@dot.wi.gov

Committee changes:

Craig Landefeld will replace Peter Narsavage for Ohio DOT.
 Kevin McLain will be an additional representative for Missouri DOT.
 Jed Peters will replace Barry Paye for Wisconsin DOT.

Meeting Minutes:

David White reviewed the scope of work for the TTICC project and the reprioritization results from the second workshop report.

David White discussed the possibility of a producing a high quality video showing IC technology; a sample video depicting the level of animation and interaction was shown.

The discussion on the value of the video was positive. A video showing how it works helps better promote and explain the technology to management level DOT personnel and contractors. IC is on the list of priorities elevated by the FHWA as a new technology to implement. A video could help show the whole picture to everyone involved, from roller operator to contractor to decision maker. It would also be

valuable for TTICC representatives to use internally for their presentations as well as for the TTICC pooled fund study.

David White discussed a stabilization project he is working on this summer in Boone, Iowa for the Iowa DOT. The project would be an ideal location for the video and also conduct IC demonstrations with machines from different manufacturers. A vote from the representatives showed unanimous agreement to move forward with the video. The production of the video will have to go to bid through ISU's purchasing department. David White estimated the 5 minute video would cost about \$25-30K.

Although a second face-face meeting for 2012 was not in the original plan, the research work in Boone County was a great opportunity to conduct hands-on field demonstration of IC for the TTICC reps. The representatives agreed they would like to participate in the demonstration and a meeting. The demonstration is being planned for October 2 & 3rd.

An agenda will be developed and Denise Wagner will send out the draft agenda and begin arranging for flights and meeting arrangements.