TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT):	IOWA I	DOT				
INSTRUCTIONS: Project Managers and/or research project invegation of the projects are active. For each task that is defined in the proposal; a per the current status, including accomplishments during this period.	Please provide rcentage comp	e a project schedule stat pletion of each task; a co	 tus of the research activities tied to oncise discussion (2 or 3 sentences) of			
Transportation Pooled Fund Program Project # TPF-5(233)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31)				
		X Quarter 2 (April 1 -	,			
		☐ Quarter 3 (July 1 – Quarter 4 (October	- September 30) r 4 – December 31)			
Project Title:						
Technology Transfer Intelligent Compaction	•					
Project Manager: David White	Phone: 294-1463					
	Phone: 294-1463 294-2395	i il: ∂iastate.edu ⊉iastate.edu				
Lead Agency Project ID: RT 0347	Other Project Addendum 3	ct ID (i.e., contract #):	Project Start Date: 8/6/10			
Original Project End Date: 3/15/14	Current Pro	ject End Date:	Number of Extensions: Ongoing pooled fund; interim budgets			
Project schedule status: X On schedule □ On revised schedule Overall Project Statistics:	☐ Ahead	of schedule \qed	Behind schedule			
Total Project Budget	Total Cost to Date for Project		Total Percentage of Work Completed			
\$51,000	\$51,000		ongoing			
Quarterly Project Statistics:						
Total Project Expenses This Quarter \$5,272.40	Total Amount of Funds Expended This Quarter		Percentage of Work Completed This Quarter			

Project Description:

Increasingly, state departments of transportation (DOTs) are challenged to design and build longer life payements 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.):

The 2nd TTICC workshop was conducted in the last quarter (on March 6 to 7, 2012). A report summarizing the discussions and findings from the workshop was completed this quarter and is posted on the CEER TTICC webpage http://www.ceer.iastate.edu/research/project/project.cfm?projectID=-598919230

Anticipated work next quarter:

- Continue developing IC briefs target 20 by the end of the project.
- Develop detailed work plan and deliverables and submit to TAC
- Organize TAC conference call for first week in August and on-site meeting early October for IC training and 101 video development.

Significant Results:

None

A key outcome of the workshop was the evaluation and update of the IC Road Map, a prioritized list of IC technology research/implementation needs initially created in a 2008 IC workshop meeting and updated in 2009, 2010, and 2011 workshops. The top two IC research needs are now (1) data management and analysis, and (2) developing IC/CCC specifications and guidance. Progress with pilot IC specifications recently implemented by the DOTs and first-hand experience on challenges associated with real-time data transfer and analysis has shaped the prioritized rankings. After updating the IC roadmap, the workshop participants identified action items for the TTICC group, FHWA, and industry for advancing each of the road map elements. Other important outcomes from the 2012 TTICC workshop included: (a) providing a forum to facilitate information exchange and collaboration and developing a list of action items to advance and accelerate implementation of IC technology into earthwork and asphalt construction practice, (b) developing an outline of content for an IC 101 video, and (c) developing a short list of items that the TTICC team can use to help advance the IC road map research/implementation priorities as shown below:

- 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 tl r

he completion of the	project within the	time, scope, a	and fiscal con	straints set forth i	in the agreement,	along with
ecommended soluti	ons to those probl	ems).				