

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(313)		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31, 2019) Quarter 2 (April 1 – June 30, 2019) X Quarter 3 (July 1 – September 30, 2019) Quarter 4 (October 1 – December 31, 2019)	
Project Title: Technology Transfer Concrete Consortium (TTCC) TPF-5(313)			
Project Manager: Brian Worrel		Phone: 239-1471	E-mail: brian.worrel@dot.iowa.gov
Project Investigator: Steve Tritsch		Phone: 294-8103	E-mail: stritsch@iastate.edu
Lead Agency Project ID: RT 0273	Other Project ID (i.e., contract #): Addendum 532	Project Start Date: 2/5/15	
Original Project End Date:	Contract End Date: 12/31/2019	Number of Extensions: Incremental funding, PFS	

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
\$2,000,000	\$1,429,801.83	NA

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$102,842.70	N/A	N/A

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

- 2019 Fall meeting was held September 10-12 in Kalispell, Montana
- Agenda and other details can be found at <https://intrans.iastate.edu/events/fall-2019-national-concrete-consortium/>
- Registration of 170 included 61 reps from 32 states (Illinois and New York were not allowed to travel)
- Travel reimbursements are being processed.
- The field trip to the Hungry Horse Dam was attended by close to 100 individuals – the most we've had attend the field trip.
- Fall meeting for September is being planned for Kalispell, Montana
- Solicitation for the continuation of the pooled fund project continues.
- The pooled fund sponsored research on the different fiber types, test methods, structural design and the construction modifications required to accommodate fiber-reinforced concrete (FRC) materials in concrete overlays. The following publications have been published based on this research:
 - https://intrans.iastate.edu/app/uploads/2019/03/FRC_for_overlays_TB.pdf
 - https://intrans.iastate.edu/app/uploads/2019/03/FRC_bridge_decks_ovw_TB.pdf
 - https://intrans.iastate.edu/app/uploads/2019/04/FRC_overlays_tech_ovw_w_cvr.pdf
- The CP Road Map E-news http://www.cproadmap.org/publications/e-news_Sept2019.cfm
- A MAP brief, "Overview of the Guide for Concrete Pavement Distress Assessments and Solutions" was published in September 2019.
- <http://www.cproadmap.org/publications/MAPbriefSept2019.pdf>

Anticipated work next quarter:

- Planning for spring meeting in Nashville, TN scheduled for March 31 – Apr 2
- E-news and MAP Brief will be published during the next quarter.

Significant Results:

See <http://www.cptechcenter.org/ncc/TTCC-NCCMeetings.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). N/A

There are 34 TTCC TPF 5(313) TAC member states. Representative attendance varies by meeting.

State & # of Reps		State & # of Reps		State & # of Reps		State & # of Reps		State & # of Reps	
Alabama	2	California	1	Colorado	2	Florida	2	Georgia	4
Idaho	2	Illinois	2	Indiana	4	Iowa	2	Kansas	4
Louisiana	2	Massachusetts	2	Michigan	2	Minnesota	2	Missouri	1
Montana	2	Nebraska	1	Nevada	1	New York	1	North Carolina	2
North Dakota	2	Ohio	2	Oklahoma	3	Pennsylvania	1	South Carolina	2
South Dakota	2	Tennessee	2	Texas	2	Texas	2	Utah	1
Washington	1	West Virginia	1	Wisconsin	1	Kentucky	2	Massachusetts	2
Oregon	1								