

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(437)		Transportation Pooled Fund Program - Report Period: <input checked="" type="checkbox"/> Quarter 1 (January 1 – March 31, 2024) Quarter 2 (April 1 – June 30, 2024) Quarter 3 (July 1 – September 30, 2024) Quarter 4 (October 1 – December 31, 2024)	
Project Title: Technology Transfer Concrete Consortium (TTCC) TPF-5(437)			
Project Manager: Khyle Clute		Phone: 239-1471	E-mail: khyle.Clute@iowadot.us
Project Investigator: John Adam		Phone: 294-3781	E-mail: jfadam@iastate.edu
Lead Agency Project ID:	Other Project ID (i.e., contract #): Addendum 732	Project Start Date: 2/5/20	
Original Project End Date:	Contract End Date: 09/30/2026	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
\$2,326,402	\$1,894,948	NA

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$37,888	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

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

- Planning for the Spring meeting which will be held in Rosemont (Chicago), April 8-10, 2025.
- Travel and all meeting arrangements have been done during this quarter.
- Training Workshops were held as follows for State DOT's and their respective training topics:
- IIMCP (Ia); IMCP/Sustainability (IL.); Concrete Batch Plant Insp. (Oh.); IMCP (Id.); PEM (Ga.)
- E-News and MAP Brief published this quarter are available: <https://cptechcenter.org/nc2-news/>
 - Map Brief, written by Jerod Gross, Snyder & Assoc., *Accelerated Delivery of Concrete Paving Projects* https://www.intrans.iastate.edu/wp-content/uploads/2025/03/accelerated_delivery_of_concrete_pvmt_projects_winter_2025_MB.pdf
 - E-News from the field (Winter 2025) includes:
 - Accelerating Concrete Overlay Construction: A case Study
 - NCHRP Research Report 1105: Use of Marginal and Unconventional-Source Coal Ashes in Concrete
 - Developing AI-Assisted In-Situ NDT Method for Air-Void Distribution Testing in Fresh and Hardened Concrete
 - Early Age Concrete Acceptance
 - Durability of Concrete Using Low Slag Cement Contents

Anticipated work next quarter (April - June):

- Workshops for the state DOTs will continue under this pooled fund for the rest of 2025. Workshops are being planned for the spring and summer
- Issue RFP for Lab services for cementitious materials & concrete mix consistency. Lab work is anticipated to get under way this quarter.
- Continued planning and execution of various training workshops
- 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