



Caltrans Division of Research,
Innovation and System Information

Research



Notes



Pavement

AUGUST 2020

Project Title:
Technology Transfer Concrete
Consortium, Phase II, TPF-5(313)

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Technology Transfer Concrete Consortium (TTCC)

Collaborate to identify and examine new concrete pavement research initiatives to foster new technologies and practices.

WHAT IS THE NEED?

The purpose of this project is to identify, support, facilitate, and fund concrete research and technology transfer initiatives. Increasingly, state departments of transportation (DOTs) are challenged to design and build more durable 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. Led by Iowa DOT, experts from state DOTs, Federal Highway Administration (FHWA), academia and industry will collaborate to identify and examine new concrete pavement research initiatives to foster new technologies and practices.

WHAT ARE WE DOING?

The research team will identify and guide the development and funding of technology transfer materials, such as tech brief summaries and training materials from research results, and review the Next Gen Concrete Pavement (CP) Road Map initiatives and provide feedback to the FHWA, industry, and the CP Tech Center on those initiatives.

Efforts by the Technology Transfer Concrete Consortium (TTCC) will be focused towards the following project activities and deliverables:

- Identify and guide the development and funding of technology transfer materials, such as tech brief summaries and training materials from research results.



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- Review the Next Gen CP Road Map initiatives and provide feedback to the FHWA, industry, and the CP Tech Center on those initiatives.
- Provide input to the Track Team for the Next Gen CP Road Map Mix Design and Analysis Track providing guidance to coordinating activities with the track.
- Provide research ideas to funding agencies.
- Identify and instigate needed research projects.
- Include current activities and deliverables of the pooled fund on the CP Road Map project website.
- Maintain the pooled fund project website with current activities and deliverables.
- Maintain the TTCC pooled fund listserv.
- Track TTCC listserv posted problems and discussions and categorize them for inclusion in a library on the project website.

WHAT IS OUR GOAL?

The purpose of this pooled fund project is to identify, support, facilitate and fund concrete research and technology transfer initiatives.

The goal of TTCC is to:

1. Identify needed research projects.
2. Develop pooled fund initiatives.
3. Provide a forum for technology exchange between participants.
4. Develop and fund technology transfer materials.
5. Provide on-going communication of research needs faced by state agencies to the FHWA, industry, and CP Tech Center.
6. Provide guidance on priorities for the Next Gen CP Road Map. (For information on the CP Road Map: <http://www.cproadmap.org/>)
7. Assist if requested by the Next Gen CP Road Map Executive Committee on other select tracks.
8. Provide technical leadership for the national initiative to develop performance engineered concrete mixes.

WHAT IS THE BENEFIT?

Caltrans will benefit from using innovative materials and construction optimization technologies and practices to achieve longer life pavements, as well as fostering new technologies and practices.

WHAT IS THE PROGRESS TO DATE?

The 2020 Fall meeting is on hold due to the COVID-19.