

Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements Webinar Series

Save the Date!

As part of the Every Day Counts Program, the Federal Highway Administration is sponsoring a webinar series on Ultra-High Performance Concrete for Prefabricated Bridge Elements. The purpose of the webinar series is to provide interested agencies and private entities with information on UHPC uses, benefits, and lessons learned. Speakers will consist of public and private sector subject matter experts and the format will allow for question and answer sessions at the end of each webinar. See the table below for a list of webinars, topics, speakers, and a description of the focus for each.

Webinar Topic	Tentative Speakers	Date and Time
1. Introduction to UHPC	Characteristics of UHPC – EDC UHPC Team	March 7, 2017 1 pm – 2:30 pm EST Recorded Version
2. Why UHPC for Prefabricated Bridge Element Connections?	Overview – EDC UHPC Team Superstructure Connections – Iowa DOT Substructure Connections – NYSDOT	April 4, 2017 1 pm – 2:30 pm EST Recorded Version
3. Structural Design, Detailing, and Specifying UHPC for Prefabricated Bridge Element Connections (PBEC)	Overview – EDC UHPC Team Lessons Learned – Iowa State University Franklin Ave. Bridge Rehab Project – MNDOT & Hennepin County	May 9, 2017 1 pm – 2:30 pm EST
4. Construction, Inspection and Quality Assurance of UHPC Connections	Overview – EDC UHPC Team NYSDOT I-81 Case Study Contractor Perspectives on UHPC	June 6, 2017 1 pm – 2:30 pm EST Register
5. UHPC Implementation Stories	UHPC Implementation – DelDOT UHPC Implementation – GDOT	July 11, 2017 1 pm – 2:30 pm EST
6. Pulaski Skyway– Owner’s Perspective	Project Overview – EDC UHPC Team Owner’s Perspective and Lessons Learned – NJDOT	August 15, 2017 1 pm – 2:30 pm EST

How to Register

1. Select the topics from the table that you are interested in and mark your calendar. Review the specific information for each topic on the next page.
2. See table above and reverse page for registration information. For assistance, email webconferencing@dot.gov.
3. Information on how to register for future webinars will be made available prior to each webinar by email and also on FHWA’s UHPC website at <https://www.fhwa.dot.gov/innovation/everydaycounts/edc-4/uhpc.cfm>.



Webinar Description and Topic Details

1. Introduction to UHPC

- o This webinar will provide participants with guidance on identifying UHPC and relevant applications, typical UHPC components, mechanical properties, durability, costs, and identify the various ways of mixing and placing UHPC.

Webinar has taken place. Click for [Recorded Version](#). Click for [Transcript](#).



2. Why UHPC for Prefabricated Bridge Element Connections?

- o This webinar will provide participants with guidance on how UHPC is used for PBE connections and why. It will include information on superstructure and substructure applications, example connection details, case studies, lessons learned, tips for working with industry, and future applications.

Webinar has taken place. Click for [Recorded Version](#). Click for [Transcript](#).

3. Structural Design, Detailing, and Specifying UHPC for PBEC

- o This webinar will allow participants to find design and detailing criteria for field-cast UHPC connections, calculate the development and splice length of deformed bars in UHPC, design a UHPC shear interface, design a ducted UHPC connection, identify ways to specify UHPC, and discuss resources for handling proprietary products. It will cover the importance of pre-construction mock-ups, key submittal requirements, and lessons learned.

Click [Here](#) for Registration for Webinar 3.

4. Construction Inspection and Quality Assurance of UHPC Connections

- o This webinar will allow participants to identify the steps for constructing a typical PBE UHPC project, understand the importance of surface preparation for PBE connections, understand UHPC casting preparations and pre-wetting requirements, understand UHPC mixing, placement and curing requirements and pre-batching quality check lists, and identify field and laboratory testing practices for UHPC.

5. UHPC Implementation Planning

- o This webinar will provide an overview of why and how some agencies adopted the UHPC technology as part of their Accelerated Bridge Construction practice. Information will be provided about why UHPC was chosen for connections, initial projects, and full implementation along with the challenges, lessons learned and ideas for future direction.

6. Pulaski Skyway Case Study – An Owner’s Perspective

- o This webinar will provide an overview of the utilization of UHPC on the Pulaski Skyway project. Detailed information will be provided about the project from the design stage through the construction. It will provide the audience with insights into how NJDOT approached this contract and their experience on this project.

