Welcome to Monthly Webinar on Accelerated Bridge Construction

ABC Methods for Delaware's All-Precast Bridge 1-438

Sponsored by

Accelerated Bridge Construction University Transportation Center (ABC-UTC) at Florida International University

> FIU | FLORIDA INTERNATIONAL UNIVERSITY

Website: abc-utc.fiu.edu Email: abc@fiu.edu

October 18, 2018 – 1:00 p.m. to 2:00 p.m. Eastern





Today's Monthly Webinar

ABC Announcements

Featured Presentation

(10 minutes)(35 minutes)

ABC Methods for Delaware's All-Precast Bridge 1-438

Nicholas Dean, P.E., M.C.E., Project Engineer, Bridge Design, Delaware Department of Transportation

Question and Answer(15 minutes)Please post your questions in the question box

2019

INTERNATIONAL ACCELERATED BRIDGE CONSTRUCTION CONFERENCE: Including Automation, Service Life and Ultra High Performance Concrete (UHPC)

December 11-13, 2019 Miami, FL





ABC

Co-Sponsoring Organizations (to date) Federal Highway Administration

Alabama Dept. of Transportation Alaska DOT&PF Arizona Dept. of Transportation Colorado Dept. of Transportation **Connecticut Dept. of Transportation Delaware Dept. of Transportation** Florida Dept. of Transportation Georgia Dept. of Transportation Illinois Dept. of Transportation Indiana Dept. of Transportation Iowa Dept. of Transportation Louisiana Dept. of Transp. & Dev. Maine Dept. of Transportation Michigan Dept. of Transportation Missouri Dept. of Transportation

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www.abc-utc.fiu.edu

INTERNATIONAL ACCELERATED BRIDGE CONSTRUCTION CONFERENCE:

CALL FOR ABSTRACTS!

Engineering

& Computing

AB(

Including Automation, Service Life and Ultra High Performance Concrete (UHPC)

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2019

CALL FOR ABSTRACTS!

Submit at: abc-utc.fiu.edu/conference/call-for-abstracts Submission Due: January 18, 2019

Abstracts are submitted within one of the conference tracks and topics are available on our website.

Abstract Submission Deadline	January 18, 2019
Abstract Decision Notification	March 15, 2019
Extended Abstract or 10 Page Paper Deadline	September 2, 2019



2nd International Interactive Symposium on Ultra-High Performance Concrete

Web Search: UHPC 2019 Albany

Abstract Deadline - Extended: NOVEMBER 5, 2018

DATE: June 2-5, 2019 LOCATION: Albany, New York VENUE: Hilton Albany

Innovation Awards Deadline: MARCH 1, 2019

https://register.extension.iastate.edu/uhpc2019

2019 TRB Annual Meeting January 13-17, 2019 – Washington, D.C.

ABC-related activities:

- Sunday Workshop: Latest Innovations in Accelerated Bridge Construction (ABC) – Quality Assurance, UHPC, and Visualization / 3D Modeling / Virtual Reality Technologies
- Technical Session: Recent Completed NCHRP Research Regarding Accelerated Bridge Construction
- Technical Session: Building Information Modeling (BIM) for Bridges and Structures
- > ABC Joint Subcommittee Meeting

ABC-UTC 2018 In-Depth Web Training Archives

VTrans' Programmatic Implementation of ABC

by

Vermont Agency of Transportation (VTrans)

View at: https://abc-utc.fiu.edu

ABC-UTC Website: Resources / FHWA https://abc-utc.fiu.edu/resources/fhwa/

	Home Research Education Technology Transfer Resources Conference Events Ne	ws
Resources State DOTs	FHWA	SEARCH
Implemented Advanced Technologies Industry TRB ABC Joint Subcommittee	Technologies Industry Industry TRB ABC Joint	
FHWA SHRP2 Implementation	 Links to FHWA ABC Publications: Technical Note: Bond of Field-Cast Grouts to Precast Concrete Elements, 2017. Technical Note: Dimensional Stability of Grout-Like Materials Used in Field-Cast Connections, 2016. TechBrief: Material Characterization of Field-Cast Connection Grouts, 2013. Manual: Engineering Design, Fabrication, and Erection of PBES, 2013. Manual: Contracting and Construction of ABC Projects with PBES, 2013. TechBrief: Influence of Differential Deflection on Staged Construction Deck-Level Connections, 2012. Manual: Accelerated Bridge Construction-Experience in Design, Fabrication and Erection of Prefabricated Bridge Elements and Systems, 2011. Manual: Connection Details for Prefabricated Bridge Elements and Systems, 2009. Manual: Use of Self-Propelled Modular Transporters to Remove and Replace Bridges, 2007. PBES Cost Study: Accelerated Bridge Construction Success Stories, 2006. Highways for LIFE Summary Reports. 	October 15, 2018 - October 18, 2018 2018 CAMX - The Composites and Advanced Materials Expo - Dallas, TX October 18, 2018 ABC Methods for Delaware's All- Precast Bridge 1-438 November 1, 2018 Accelerated Repai of Existing Bridges

ABC-UTC Website: Resources / FHWA https://abc-utc.fiu.edu/resources/fhwa/

Links to FHWA Ultra-High Performance Concrete (UHPC) Publications: (FHWA UHPC Contact: Benjamin Graybeal, <u>Benjamin.Graybeal@dot.gov</u>)

- FHWA UHPC Website
- <u>UHPC Deployments Across US and Canada</u>
- <u>Report: Properties and Behavior of UHPC-Class Materials, 2018</u>
- Technical Note: Ultra-High Performance Concrete for Bridge Deck Overlays, 2018
- Report: Adjacent Box Beam Connections: Performance and Optimization, 2018
- Report: Field Testing of an Ultra-High Performance Concrete Overlay, 2017
- TechBrief: Adjacent Box Beam Connections: Performance and Optimization, 2017
- Technical Note: Bond of Field-Cast Grouts to Precast Concrete Elements, 2017
- Technical Note: Design and Construction of Field-Cast UHPC Connections, 2014
- <u>TechBrief: Development of Non-Proprietary Ultra-High Performance Concrete for Use in The</u> <u>Highway Bridge Sector, 2013</u>
- <u>UHPC State-of-the-Art Report, 2013</u>
- <u>Technical Note: Ultra-High Performance Concrete, 2011</u>

Every Day Counts (EDC) – "EDC is designed to focus on a finite set of initiatives. Teams from FHWA work with state, local, and industry partners to deploy the initiatives and develop performance measures to gauge their success." *More information* ...

FHWA Incentive-Based Funding – Three incentive-based funding mechanisms are available for owner agencies who are looking to implement innovations such as prefabricated bridge elements and systems and other ABC related strategies into their program/projects.

 Accelerated Innovation Deployment (AID) grant: Under this program, approximately \$15 million in incentive funds is being issued for innovation deployment. *More information*...

Using UHPC

November 5, 2018 – November 7, 2018 2018 ASBI 30th Annual Convention – Chicago, IL

November 5, 2018 Call for Abstracts -Extended Submission Deadline - 2nd International International Interactive Symposium on UHPC - Albany, NY

January 13, 2019 - January 17, 2019 2019 TRB Annual Meeting -Washington, D.C.

January 18, 2019 Call for Abstracts - ABC-UTC Quarterly Research Seminar Thursday, Nov. 1, 2018 – 1:00-2:00 p.m. Eastern

Accelerated Repair of Existing Bridges Using UHPC

Atorod Azizinamini, Ph.D., P.E., Principal Investigator Mahsa Farzad, Ph.D. Candidate Alireza Valikhani, Ph.D. Candidate

ABC-UTC / Florida International University

Register at: https://abc-utc.fiu.edu





Tuesday, November 13, 2018 – 1:00-2:00 p.m. Eastern

Featured Presentation

Tight Construction Windows for BNSF Railway Bridge 24.8 Replacement in Camas, Washington

by

Alan Bloomquist, P.E., Assistant Director, Heavy Bridge Division, BNSF Railway; and Jay Hyland, P.E., Vice President/Master Professional, TranSystems

Please mark your calendars!



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