

Welcome to Webinar on Accelerated Bridge Construction

Iowa County Bridge Constructed of K-UHPC

Sponsored by

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

Florida International University



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

November 30, 2015 – 1:00 p.m. to 2:00 p.m. Eastern

Today's Webinar

ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

Iowa County Bridge Constructed of K-UHPC

Brian Keierleber, P.E., County Engineer, Buchanan County, Iowa; Alex Davis, P.E., Assistant County Engineer, Buchanan County, Iowa; and Hosin “David” Lee, Ph.D., P.E., Professor, Univ. of Iowa

Question and Answer

(15 minutes)

Please post your questions in the question box

The background of the slide is a photograph of a city skyline at night, with numerous skyscrapers illuminated and their lights reflecting on a body of water in the foreground. The sky is a mix of blue and white, suggesting a clear or slightly overcast day.

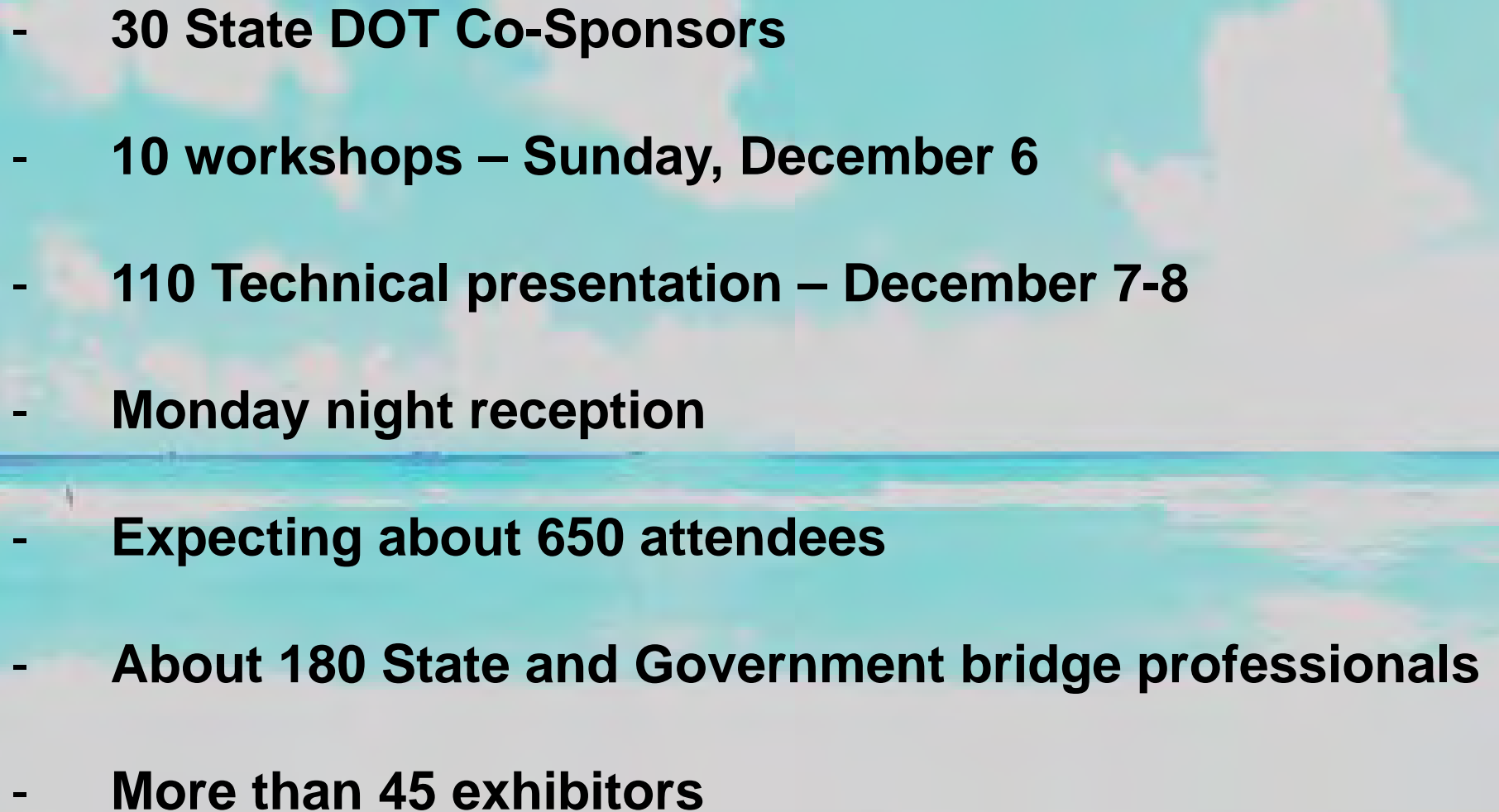
2015

**NATIONAL ACCELERATED BRIDGE
CONSTRUCTION CONFERENCE**

December 7 and 8, 2015

Workshops December 6, 2015
Hyatt Regency, Miami, Florida

www.2015abc.fiu.edu

- 
- **30 State DOT Co-Sponsors**
 - **10 workshops – Sunday, December 6**
 - **110 Technical presentation – December 7-8**
 - **Monday night reception**
 - **Expecting about 650 attendees**
 - **About 180 State and Government bridge professionals**
 - **More than 45 exhibitors**

Next Conference: December 2017

Online Registration is Closed

If you plan to attend the conference, Onsite Registration will be available



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Visit

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for details

FHWA/CDOT Presents

- Webinar Training on “Slide-In Bridge Construction (SIBC) from the Contractor/Construction Perspective”
 - **December 15, 2015 (11:00am Mountain Time)**
 - Main Presenter: Max Kuney, Kuney Construction
 - Case Study: I-5 Skagit River Emergency Bridge Slide
 - A Q&A panel will be available to respond to questions
- Register online at www.slideinbridgeconstruction.com
- For more information, contact sibc@urs.com

TARGET AUDIENCE:
Bridge construction personnel, including state or local highway agency employees, who typically have the responsibility for building or maintaining a bridge.

Prize Bridge Competition



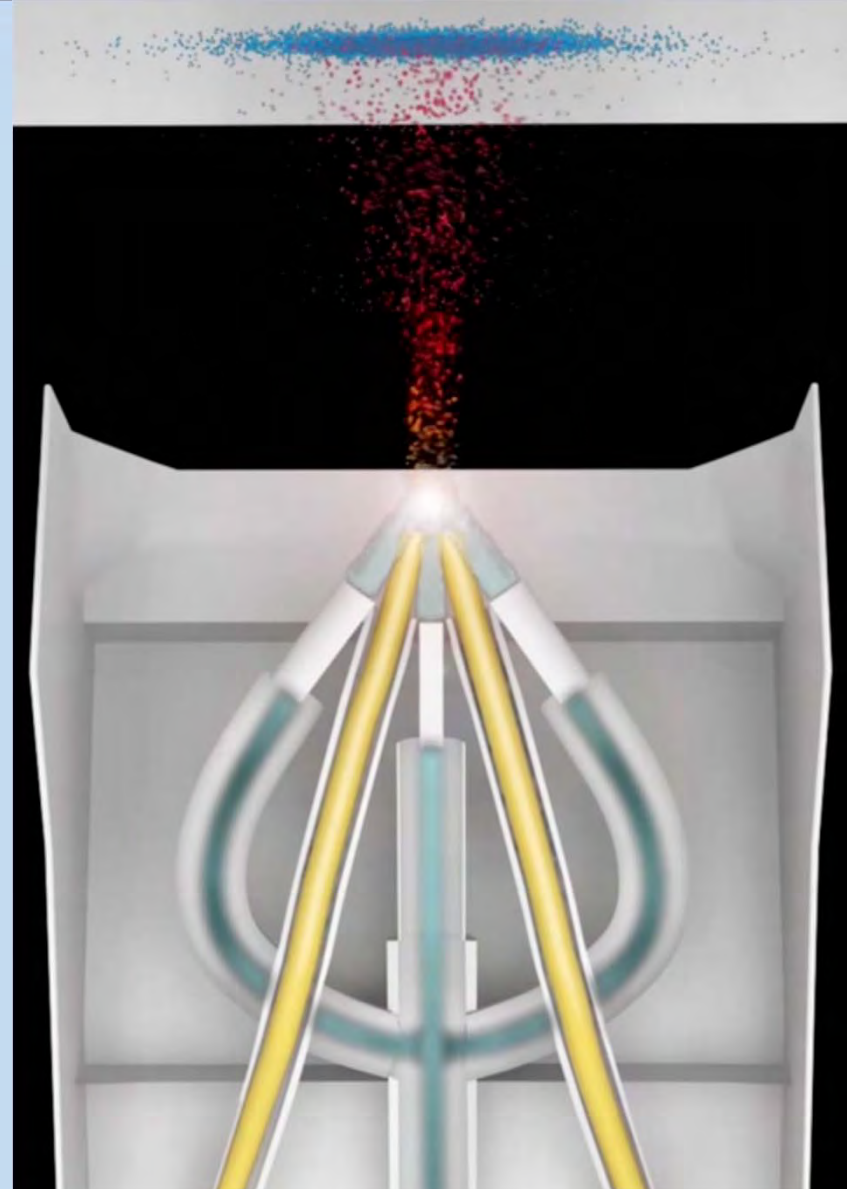
- 2016 competition submission deadline approaching:
 - Categories include:
 - Major Span
 - Long Span
 - Medium Span
 - Short Span
 - Movable
 - Reconstructed
 - Special recognition given to projects that best exemplify **Accelerated Bridge Construction** practices & Sustainability
- www.steelbridges.org/2016prizebridge to enter
- Deadline for submission: **December 14, 2015**



NSBA Webinar on Metalizing



- One-hour webinar focusing on the most common questions fielded by experts:
 - From the basics (such as what is a thermal spray coating?) to FHWA guidelines and recommendations
- Date: **Dec. 16, 2015**
12:00 pm ET
- To register visit:
aisc.org/webinars



ABC-UTC

Graduate Student Seminars

- Quarterly starting in 2016
- 1-hour in length, web-based
- Presented by ABC-UTC graduate students
- Two 20-minute student presentations, each followed by 10-minute Q&A
- Presentation content:
 - Overview of ABC aspects of research project
 - Student's tasks in the project
 - ABC research products for implementation

Mark your calendar for 1st seminar:

Friday, January 29, 2016 (1-2 pm Eastern)

ABC Project Database



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Technology Transfer: Project & Research Databases

[Project Database](#) (*click here to access*)

[Research Database](#) (*under construction*)

The ABC-UTC is working in cooperation with FHWA, bridge owners, and other bridge professionals to accumulate available completed construction projects in which ABC technologies are used and research projects in which ABC technologies have been investigated. The **Project Database** has been expanded from its origin, the FHWA *National ABC Project Exchange*. The **Research Database** has been expanded from the TRB ABC Subcommittee's research tracking spreadsheet, *Project Tracker*.

[Project Submission Process](#): Individuals with knowledge of completed ABC construction projects and upcoming, ongoing, and completed ABC research projects are encouraged to submit project details into the databases. A two-step submission process allows individuals to submit minimal first-step information for approval by bridge owners and the ABC-UTC Database Steering Subcommittee to ensure the projects are appropriate for the databases. Upon first-step approval, submitters will receive a link to complete uploading of project information. Upon second-step approval by bridge owners and the ABC-UTC Database Steering Subcommittee, the projects will be added to the databases.

Search

Upcoming Events

December 4, 2015

**Call for Workshops-
Submission Deadline-2
International Bridge
Conference - National
Harbor, MD**

December 6 - 8, 2015

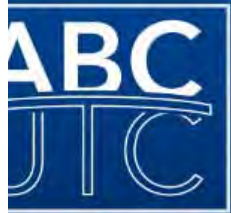
**2015 National Accelerated
Bridge Construction
Conference - Miami, FL**

December 14, 2015

**Call for Award Nominations
- Submission Deadline
NSBA 2016 Prize Bridge
Competition**

January 15, 2016

ABC Project Database (Now Available!)



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ABC Project Database

Training Videos →

Click on pin icons to view bridge details:



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Project Database
Research Database

ABC Project Database (Now Available!)



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Events

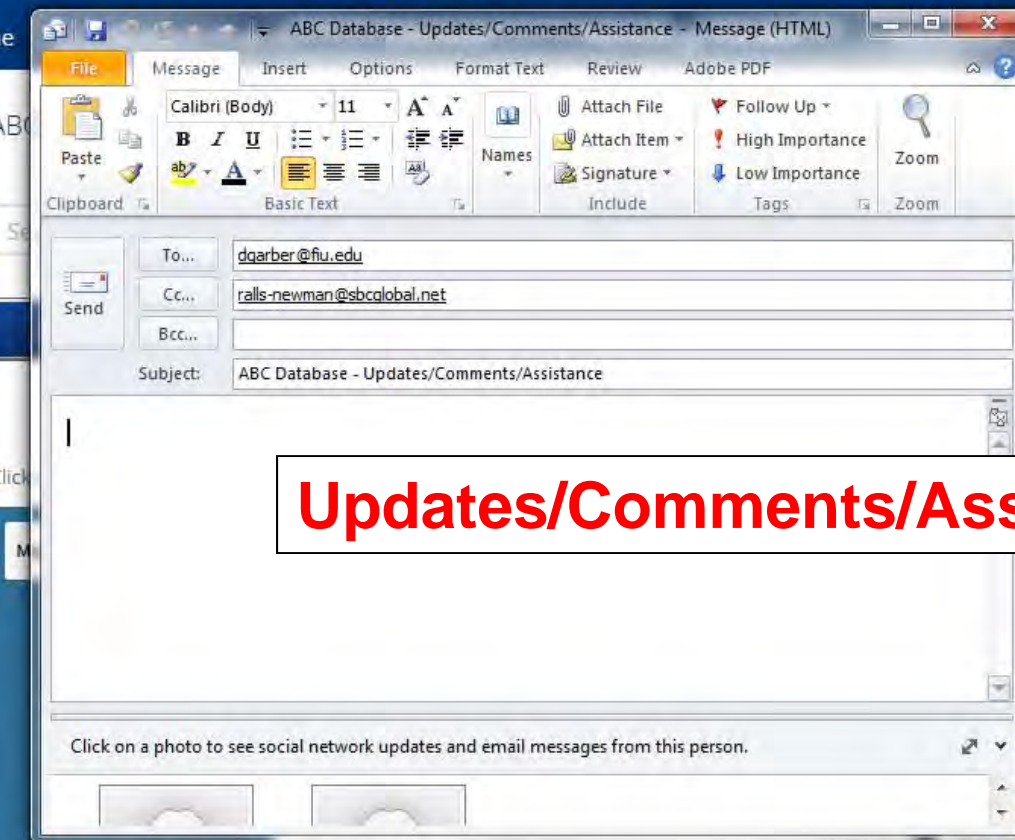
News

Project Database
Research Database

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Updates/Comments/Assistance

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Technology Transfer: Project & Research Databases

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ABC Project Database

Search for bridges

Submit Project

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Click on pin icons to view bridge details:



SHRP2 – ABC Peer Exchanges

transportation.org/Pages/Bridge-Designs

<http://shrp2.transportation.org/Pages/Bridge-Designs-for-Rapid-Renewal.aspx>

AASHTO

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SHRP2 SOLUTIONS
TOOLS FOR THE ROAD AHEAD

SHRP 2

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- Products by Topic Area

Bridge Designs for Rapid Renewal

AASHTO > Strategic Highway Research Program 2 > Bridge Designs for Rapid Renewal



INNOVATIVE BRIDGE DESIGNS FOR RAPID RENEWAL (R04)

Overview

The Innovative Bridge Designs for Rapid Renewal product:

- A design toolkit for state and local departments of transportation to better implement accelerated bridge construction techniques and approaches.
- Standardized approaches to streamline the activities required to get bridge replacement systems designed, fabricated, and erected in less time to minimize safety risks to travelers and contractors and reduce environmental disruptions.

Bridge Designs in Video

View our videos on rapid renewal below

SHRP2 Working for Kentucky

Two bridges built with only a quarter of the normal road closure time



SHRP2 – ABC Peer Exchanges

http://abc-utc.fiu.edu/index.php/resources/shrp2-imf abc-utc.fiu.edu



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Resources: SHRP2 Implementation

SHRP2 implementation information is available on AASHTO's [SHRP2 Solutions website](#).

SHRP2 R04, "Innovative Bridge Designs for Rapid Renewal"

Regional Peer Exchanges

The SHRP2 Solutions R04 Team hosted three regional peer exchanges in 2015. Owner agencies were invited to both days, with consultants and contractors invited to the second day.

- May 19-20, 2015 – Sacramento, CA
- September 16-17, 2015 – Minneapolis, MN
- November 17-18, 2015 – Atlanta, GA

For details on these events, check [AASHTO's R04 website](#), or contact Jennifer.Smoker@ch2m.com

- The **R04 Toolkit** describes standardized approaches to designing and constructing complete bridge systems for rapid renewal.
- For general information on the original research project, see [TRB's R04 web page](#).

SHRP2 R07, "Performance Specifications for Rapid Renewal"

- The **research final report and implementation guidelines** are available.

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Introduction

State DOT Websites

**SHRP2
Implementation**

TRB ABC
Subcommittee

FHWA

Industry

Related Links

ABC-UTC Mentorship Program

Mentor



“Michael Culmo answered every question I had ... and provided me with plenty of information that was very useful for the project. He told me of many methods that were available and applicable to rapid bridge repair, and the pros and cons to several of those methods. In addition, he suggested many helpful references for use in the project. Overall, he proved to be a great resource, and I am extremely thankful for his help.”

Meghan Cronin

Mike Culmo, P.E.
Vice President of Structures & Transportation
CME Associates, Inc., East Hartford, CT

Graduate Student



Meghan Cronin, MSE Dec. 2015
Rapid Bridge Rehabilitation Project
Iowa State University

ABC-UTC Mentorship Program

ABC-UTC Mentoring Program – A conduit for communication between students working on ABC-UTC research projects and industry representatives with interest and expertise in ABC

If you are interested in becoming an ABC-UTC Mentor, contact **Dr. Brent Phares**, ABC-UTC/ISU at: **bphares@iastate.edu**

Next Webinar

Thursday, December 17, 2015 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

Industry Perspective on Precast Element Details for Successful ABC Projects

by

**William Nickas, P.E., Managing Director, Transp.
Services, Precast/Prestressed Concrete Institute;
& Keith Kaufman, Ph.D., P.E., Chief Engineer,
Prestressed Concrete Division, Knife River Corp.**

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