Accelerated Bridge Construction
University Transportation Center Update

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Florida International University

abc-utc.fiu.edu
2016-2021 $7.5M from USDOT
Florida International University - Lead
Partner Universities:
University of Nevada-Reno
Iowa State University
University of Washington
University of Oklahoma
ABC-UTC is the only UTC with focus on bridges, among all selected UTCs
ABC-UTC, through input from its Advisory Committee and other stakeholders, has developed an Operation Manual that will govern all ABC-UTC activities in the areas of:

- Research
- Workforce Development and Education
- Technology Transfer
- Conferences
The first step in selection of research projects is to identify knowledge gaps and request input from all stakeholders.

To this end, a survey was sent to all State DOTs, through AASHTO and initiated by Bruce Johnson.

Please respond to this survey by end of June and send your responses directly to Atoorod at aazizina@fiu.edu
Following are the four questions that were listed in the survey:

**Question 1** - What topics do you think need to be researched? Please provide a brief explanation of each topic.

**Question 2** - Is your agency currently conducting ABC-related research? Please share any information that is available.

**Question 3** - Is your agency interested in conducting joint ABC-related research with the ABC-UTC?

**Question 4** - Please provide the name and cell phone number for a person in your agency that the ABC-UTC can contact for an additional short discussion.
We are very interested to work with you collaboratively and jointly conduct ABC-related research.

We can team up and provide partial support for research topics that are of mutual interest.
MENTORSHIP PROGRAM THROUGH ABC-UTC

Graduate students engaged with ABC-UTC are provided with opportunities to be mentored by professional bridge engineers currently in practice. The primary goal of the mentorship program is to help ABC-UTC students best prepare for the workforce.

Mentorship Program

Contact us if you would like to help mentor ABC-UTC graduate students
ABC-UTC Website Resources
ABC-UTC Website Resources

State DOTs

Iowa DOT
[For more information, contact Ahmad Abu-Hawash, Chief Structural Engineer, Ahmad Abu-Hawash@dot.iowa.gov]

- Accelerated Bridge Construction
- Innovative Bridge Research and Construction/Deployment (IBRC/IBRD) Program

Massachusetts DOT
[For more information, contact Thomas P. Donald, Director of Bridge Project Management, thomas.donald@state.ma.us]

- Accelerated Bridge Program
- LRFD Bridge Manual, Part III - Prefabricated Elements

Michigan DOT
[For more information, contact Dave Juntunen, Bridge Development Engineer, JuntunenD@michigan.gov]

- Michigan DOT Bridge Design Manual, Section 7.01.19
- Research Reports:
  - RC-1602 – Improving Bridges with Prefabricated Precast Concrete Systems (Dec. 2013)
  - RC-1618B – Bridge Showcase (Aug. 2014)
  - RC-1620 – Evaluation and Analysis of Decked Bulb T Beam Bridges (March 2015)
- Presentation: ABC Policy and ABC Slide Technologies (Nov. 2014)
- Videos of Bridge Construction:
  - W-200 Decked Box Beam Bridge (W-25 Bridge over the White River)
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.

A user guide was developed to familiarize users with the database (Project Database - User Guide). Any additional questions on the database can be directed to David Garber (dgarber@fiu.edu).

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.

You may want to develop content offline for the step-two submission, and then copy and paste text online. Click here for Word template to populate offline for subsequent online submission, example wording is provided but may not be appropriate for your specific project.
Recommend a Project

Complete the Following Steps: 1

The information that will be required for full submission can be found in the below MS Word Template. The majority of this information will be gathered in the second stage of the submission process, but this Template can be used to aid in the submission process.

MS Word Template for Submission

Submitters Information:

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Your Relationship to ABC Project:
Monthly Webinars

MARCH 2017
Georgia's Rapid Replacement Utilizing Full-Depth Precast Deck Panels with UHPC Closure joints

SPEAKERS:
Bill DuVall, P.E.
State Bridge Engineer,
Georgia Department of Transportation

Dexter Whaley, P.E.
Bridge Design Group Manager, GDOT

APRIL 2017
PennDOT’s Rapid Bridge Replacement Project Utilizing Folded Steel Plate Girder Bridge

SPEAKERS:
Tom Maciocce, P.E.
Chief Bridge Engineer,
Pennsylvania Department of Transportation

Charles Zugell, P.E.
Design Build Coordinator
Walsh/Granite JV

Curt Beveridge
Project Manager,
Walsh/Granite JV

Map of over 1073 registered sites by state that attended the March 2017 Webinar.

Map of over 1100 registered sites by state that attended the April 2017 Webinar.

March 2017 – 1073 sites registered
April 2017 – 1274 sites registered
Next Monthly Webinar

Title: NCHRP 12-98, Part 1: Tolerances for Prefabricated Bridge Elements and Systems (PBES)

Date: Thurs., June 29, 2017 - 1:00 pm Eastern

Speaker: Michael P. Culmo, P.E., Vice President of Transportation & Structures, CME Associates Inc.
Conference Update

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Accelerate Bridge Construction – University Transportation Center (ABC-UTC)
Civil and Environmental Engineering Department of Florida International University
www.accelerateutc.com

FIU
Civil and Environmental Engineering

PARTNER UNIVERSITIES

IOWA STATE UNIVERSITY

Florida International University

National Accelerated Bridge Construction Conference
December 7th - 9th, 2017
Workshops December 6th
Hyatt Regency Hotel
Miami, Florida

FIU Engineering & Computing
Florida International University
- Keynote Speaker - U.S. Secretary of Transportation, Elaine L. Chao (invited)
- 120 Technical Presentations - 30 minutes each
- Eleven (11) four-hour workshops
- Co-Sponsors - 30 State DOTs, FHWA, and TRB
State DOTs and bridge owners will soon receive an email, asking to nominate their employees to receive Travel Scholarships.
Expenses Covered by Travel Scholarships

- Four nights of stay at conference hotel – Hyatt Regency DT
- Registration to attend workshops – Wed., Dec. 6
- Registration to attend conference – Thurs.- Fri., Dec. 7-8
- Airline ticket
- Transportation from airport to hotel and back
- Per diem based on Florida government rate
Opportunities to Exhibit

Please visit www.abc-utc.fiu.edu if you are interested in exhibiting at the conference.
Many art shows and other activities take place in Miami in December. We strongly encourage you to reserve your hotel room at special conference rate by visiting www.abc-utc.fiu.edu soon, while rooms are available.
Conference Program

Please see copy of the Conference Program that is available for more information. You can also visit www.abc-utc.fiu.edu to print a copy.