

# **Welcome to Webinar on Accelerated Bridge Construction**

## **NCHRP 12-98, Part 2: Dynamics of Bridge Systems**

**Sponsored by**

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

**Florida International University**



**Website: [abc-utc.fiu.edu](http://abc-utc.fiu.edu)**

**Email: [abc@fiu.edu](mailto:abc@fiu.edu)**

**July 20, 2017 – 1:00 p.m. to 2:00 p.m. Eastern**

# Today's Webinar

**ABC Announcements**

(10 minutes)

**Featured Presentation**

(35 minutes)

## **NCHRP 12-98, Part 2: Dynamics of Bridge Systems**

**Michael P. Culmo, P.E.**, Vice President of Transportation & Structures, CME Associates Inc.; and Principal Investigator for NCHRP 12-98 Research Project

**Question and Answer**

(15 minutes)

**Please post your questions in the question box**

# 2017 Conference Update

## SPONSORED BY

Accelerate Bridge Construction - University Transportation Center (ABC-UTC)  
Civil and Environmental Engineering Department at Florida International University  
[www.abc-utc.com](http://www.abc-utc.com)

**FIU**

Civil and Environmental  
Engineering

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Florida International University  
1000 West Taylor Street, Miami, FL 33199  
Phone: (305) 351-3000 ext. 2100 | Fax: (305) 351-3007

# 2017

National Accelerated  
Bridge Construction  
Conference

December 7th -8th, 2017  
Workshops December 6th  
Hyatt Regency Hotel  
Miami, Florida

**FIU** | Engineering  
& Computing  
FLORIDA INTERNATIONAL UNIVERSITY



# Conference Co-Sponsors

- FHWA
- 30 State DOTs
- TRB



# 2017 Conference at a Glance

## **Wednesday, December 6**

Eleven (11), four-hour workshops

## **General Session**

Thursday, 8:15–10:15 a.m.

Keynote Speaker – Secretary of Transportation – Elaine Chao (Invited)

## **Thursday and Friday**

120 Technical Presentations

## **Breakfast at Exhibit Hall**

Thursday and Friday, 7:00–8:15 a.m.

## **Reception in Exhibit Hall**

Thursday, 6:00–7:30 p.m.

## **Spouse Program**

Thursday, 8:00 a.m. to 4:00 p.m.

# Pre-Conference Workshops

| No. | Time | Workshop Title  |
|-----|------|---|
| 1   | a.m. | Implementation of the new AASHTO Guide Specifications for ABC                         |
| 2   | "    | Lightweight Concrete – A Tool for Accelerated Bridge Construction                     |
| 3   | "    | Programmatic Approach to Accelerated Bridge Construction                              |
| 4   | "    | Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements         |
| 5   | "    | Foundation Re-use for ABC Projects  |
| 6   | p.m. | Proven Advanced Technologies Initiative   |
| 7   | "    | Self-Propelled Modular Transporters for ABC Trends, Challenges, and Future Activities |
| 8   | "    | Today's Precast, Prestressed Concrete Bridge Design                                   |
| 9   | "    | Recent Developments in Steel ABC Applications   |
| 10  | "    | Innovative Bridge Designs for Rapid Renewal, SHRP2 R04 ABC Toolkit                    |
| 11  | "    | Accelerated Bridge Construction in Seismic Regions                                    |

*Note:* **a.m.** = 8:00 a.m. to noon; **p.m.** = 1:00-5:00 p.m.

# Call for Award Nominations

**Deadline: September 15, 2017**

## **Award Categories:**

- Most Influential Person Contributing to the Cause and Implementation of ABC
- Best ABC Project in the following categories:
  - Lateral Slide Technology
  - Self-Propelled Modular Transporters
  - Prefabricated Bridge Elements and Systems
  - Emergency

## **Judges:**

- Carmen Swanwick, Utah DOT, Chair
- Benjamin Beerman – FWHA
- Bruce Johnson – Oregon DOT
- Ahmad Abu-Hawash – Iowa DOT
- Corey Rogers – Michigan DOT
- William Oliva – Wisconsin DOT

- Obtain nomination form online
- Submit to Atorod Azizinamini at [aazizina@fiu.edu](mailto:aazizina@fiu.edu)

**Submission deadline:  
September 15, 2017**

# Reserve your Hotel at Conference Rate



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](http://www.abc-utc.fiu.edu) soon, while rooms are available.



# Exhibit at 2017 Conference



Exhibit Booths are available (about 20 booths still available)

Visit [www.ABC-UTC.fiu.edu](http://www.ABC-UTC.fiu.edu) to reserve

# Travel Scholarships



State DOT, county engineers, and other bridge owners interested in receiving travel scholarships should send an email to Atorod Azizinamini at [aazizina@fiu.edu](mailto:aazizina@fiu.edu) with the following information:

- 1. Name and affiliation**
- 2. Job title**
- 3. Reason attending the Conference**
- 4. Whether you are planning to use ABC in the near future**

# 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



# 2018 TRB Annual Meeting

## Call for ABC Papers – due August 1

<http://annualmeeting.mytrb.org/CallForPapers/Details/467>

The National Academies of  
SCIENCES • ENGINEERING • MEDICINE

TRB 97th Annual Meeting (January 7-11, 2018)

TRB

TRANSPORTATION RESEARCH BOARD

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### Call For Papers Details

Authors interested in submitting papers are advised to check the [Paper Author Resource Page](#) and read [Writing a Paper for TRB](#) and [Submitting a Paper to TRB](#). Authors submitting papers in response to this Call for Papers should submit full papers for peer review to the Transportation Research Board online at [www.TRB.org/AnnualMeeting](http://www.TRB.org/AnnualMeeting). Paper submission is open from June 1 to August 1. The paper submission website will close when it is no longer August 1 anywhere in the world. When submitting please indicate the Call for Papers title on the papers submission form. Please contact the Call for Papers organizer if you need additional information.

**Paper Author Warning** – It is critical that you check the [Paper Author Resource Page](#) and read [Writing a Paper for TRB](#) and [Submitting a Paper to TRB](#). Remember after August 1 there are no second chances – be very careful with your paper submission.

To submit a paper, please visit the MyTRB Annual Meeting [Paper Submission](#) page.

Call For Paper Title

Accelerated Bridge Construction: technologies and strategies to reduce overall project delivery and on-site impacts

Call Description

A paper session focused on research and current topics regarding the use of Accelerated Bridge Construction (ABC) technologies and strategies is proposed. These methods are becoming more popular with owner agencies due to the benefits they can provide with the delivery of the bridge program. Adopting ABC methods into a project, or into a program of projects, can help owners who are faced with the need to reduce onsite disturbances in order to address existing traffic conditions and other site-related constraints, such as limited access; right-of-way; utilities; and other environmental and permitting needs.

The use of prefabricated bridge elements and systems (PBES) technologies, when used with other ABC strategies, can result in reductions to onsite impacts and improvements in construction efficiencies, safety and durability. A specific focus on ABC technologies and strategies in the areas of policy adoption and planning, public communication, engineering and materials, and construction and contracting is sought.

# Call for Award Nominations

## 2017 National ABC Conference – Miami, FL

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Submission deadline:  
September 15, 2017

# **ABC-UTC**

## **Quarterly Research Seminar**

**Thursday, August 3, 2017 – 1:00-2:00 pm Eastern**

### **Extending Application of Simple for Dead Load and Continuous for Live Load (SDCL) to High Seismic Areas**

**ABC-UTC / Florida International University**

#### **Researcher Team Presenters:**

- **Atorod Azizinamini, Ph.D., P.E.**, ABC-UTC Director;  
Professor and Chair, Civil and Env. Engr. Dept., FIU
- **Amir Sadeghnejad**, Ph.D. Candidate, FIU

**Online registration is open at [ABC-UTC@fiu.edu](mailto:ABC-UTC@fiu.edu)**

# Upcoming Events

## ***Every Day Counts Webinar Series:***

Ultra-High Performance Concrete for Prefabricated Bridge Elements

Sponsored by Federal Highway Administration (FHWA)

## **Webinar 6 of 6:**

*UHPC for PBE Connections:  
Pulaski Skyway – Owner’s Perspective*

August 15, 2017 – 1:00-2:30 pm EST

To register, go to the following link:

[https://www.fhwa.dot.gov/innovation/everydaycounts/edc\\_4/uhpc.cfm/](https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/uhpc.cfm/)



# **ABC-UTC In-Depth Web Training**

## **Utah DOT's Accelerated Bridge Program**

**Tuesday, September 12, 2017  
11:00 a.m. to 3:00 p.m. Eastern**

**Six 40-minute modules**

# ABC-UTC In-Depth Web Training

## Sept. 12, 11:00 a.m. to 3:00 p.m. Eastern

| Module | Module Title  | Speaker  |
|--------|---|--|
| 1      | Introduction and ABC Program                            | Carmen Swanwick, P.E.<br>Chief Structural Engineer<br>Utah DOT   |
| 2      | Structures Design and Detailing Manual -<br>ABC Aspects | Cheryl Hersh Simmons, P.E.<br>Structures Design Manager<br>Utah DOT  |
| 3      | Fabricator and Contractor Perspectives                  | Lee Wegner, Sales/Project Mgmt,<br>Forterra Structural Precast; and<br>Eric Wells, Area Manager,<br>Granite Construction, Inc. |
| 4      | Performance History and Lessons<br>Learned              | Mike Culmo, P.E., Vice President<br>of Transportation & Structures,<br>CME Associates Inc.                                     |
| 5      | Project Highlights                                      | Cheryl Hersh Simmons, P.E.   |
| 6      | Project Highlights                                      | Carmen Swanwick, P.E.  |

**ABC-UTC In-Depth Web Training**

**Utah DOT's Accelerated  
Bridge Program**

**Tuesday, September 12, 2017**

**11:00 a.m. to 3:00 p.m. Eastern**

**Free Online Registration  
to open soon at:**

**[abc-utc.fiu.edu](http://abc-utc.fiu.edu)**

# Upcoming Events

<https://abc-utc.fiu.edu/events/>



ACCELERATED BRIDGE CONSTRUCTION  
UNIVERSITY TRANSPORTATION CENTER



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## Events

July 20, 2017

[NCHRP 12-98, Part 2: Dynamics of Bridge Systems](#)

August 1, 2017

[Call for Papers - Submission Deadline - 2018 TRB Annual Meeting - Washington, D.C.](#)

August 3, 2017

[Research Seminar: Extending Application of Simple for Dead Load and Continuous for Live Load \(SDCL\) to High Seismic Areas](#)

## SEARCH

Google Custom Search



## UPCOMING EVENTS

July 20, 2017

[NCHRP 12-98, Part 2:  
Dynamics of Bridge  
Systems](#)

August 1, 2017

[Call for Papers -  
Submission Deadline -  
2018 TRB Annual Meeting  
- Washington, D.C.](#)





# Next Webinar

Thursday, August 10, 2017 (1:00 – 2:00 p.m. Eastern)

## Featured Presentation

# 87-Hour Bridge Construction in Arizona: ABC & ARC at the Speed of Commerce

by

**Annette Riley, P.E.**, Assistant Division Administrator,  
Infrastructure Delivery and Operations Division, Arizona DOT;  
**Kevin Kimm, P.E.**, Senior Structural Engineer, Kimley-Horn and  
Associates; and **Reece Green**, Project Manager, Pulice  
Construction, Inc.

To register, visit: [www.abc-utc.fiu.edu](http://www.abc-utc.fiu.edu)

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(10 minutes)

**Featured Presentation**

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**Michael P. Culmo, P.E.**, Vice President of Transportation & Structures, CME Associates Inc.; and Principal Investigator for NCHRP 12-98 Research Project

**Question and Answer**

(15 minutes)

**Please post your questions in the question box**