Welcome to Webinar on
Accelerated Bridge Construction

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

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

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

June 29, 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 1: Tolerances for Prefabricated Bridge Elements and Systems (PBES)

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
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

<table>
<thead>
<tr>
<th>No.</th>
<th>Time</th>
<th>Workshop Title</th>
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<tr>
<td>1</td>
<td>a.m.</td>
<td>Implementation of the new AASHTO Guide Specifications for ABC</td>
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<td>Lightweight Concrete – A Tool for Accelerated Bridge Construction</td>
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<td>Programmatic Approach to Accelerated Bridge Construction</td>
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<td>Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements</td>
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<td>Foundation Re-use for ABC Projects</td>
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<td>6</td>
<td>p.m.</td>
<td>Proven Advanced Technologies Initiative</td>
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<td>Self-Propelled Modular Transporters for ABC Trends, Challenges, and Future Activities</td>
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<td>8</td>
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<td>Today’s Precast, Prestressed Concrete Bridge Design</td>
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<td>Recent Developments in Steel ABC Applications</td>
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<td>Innovative Bridge Designs for Rapid Renewal, SHRP2 R04 ABC Toolkit</td>
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<td>11</td>
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<td>Accelerated Bridge Construction in Seismic Regions</td>
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*Note: a.m. = 8:00 a.m. to noon; p.m. = 1:00-5:00 p.m.*
Call for Award Nominations

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

Submission deadline:
September 15, 2017
Award Nominations

Nominations are due by 11:59 pm CST, September 15, 2017. All entries should be submitted via e-mail to Atorod Azizinamini (aazizina@fiu.edu).

Most Influential Person Entry Form

Best ABC Project Entry Form

ABC is a paradigm shift that occurs during the project planning phase where the need to minimize on-site construction activities are elevated to a higher priority. Intrinsic benefits of ABC include improvements in safety, quality, durability, social costs, and environmental impacts. The conference awards program provides an opportunity to showcase innovative projects and to recognize talented individuals that advance ABC.

Award Categories

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

http://abc-utc.fiu.edu
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.
Exhibit at 2017 Conference

Exhibit Booths are available (about 20 booths still available)

Visit www.ABC-UTC.fiu.edu to reserve
State DOT, county engineers, and other bridge owners interested in receiving travel scholarships should send an email to Atorod Azizinamini at 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
- 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
Call for Suggested Topics/Speakers

2017 ASBI 29th Annual Convention – NYC, NY
October 24-25, 2017
Sponsored by American Segmental Bridge Institute (ASBI)
http://www.asbi-assoc.org/

Call for Suggested Topics / Speakers
➢ Extended Submission Deadline: June 30, 2017

Obtain nomination form at:
http://www.asbi-assoc.org/index.cfm/events/29th-annual-convention

Email completed form to William R. “Randy” Cox, ASBI
Executive Director: wrcox@asbi-assoc.org
Call for Award Nominations

2017 NCSEA Excellence in Structural Engineering Awards

[Eligible projects must be substantially complete between January 1, 2014 and June 30, 2017]

Sponsored by National Council of Structural Engineers Associations (NCSEA)

http://www.ncsea.com

Award Categories include:
- New Bridges/Transportation Structures
- Renovation/Retrofit Structures

Submission Deadline: July 18, 2017

http://www.ncsea.com/awards/excellenceinstructuralengineeringawards/
Call for ABC Papers – due August 1

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

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

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 on-site 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 on-site 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

2018 PCI Awards
Sponsored by Precast/Prestressed Concrete Institute
http://www.pci.org

• PCI Medal of Honor
• Fellows of PCI
• T. Henry Clark Award
• Mario J. Bertolini Leadership and Innovation Award
• Norman L. Scott Professional Engineer Award

Submission Deadline: August 1, 2017
http://www.pci.org/About_PCI/PCI_Awards_Programs/

For more information, contact:
William Nickas, WNickas@pci.org
Call for Award Nominations

2018 PCI Design Awards
Projects completed within the last three years (no earlier than January 1, 2014)
Sponsored by Precast/Prestressed Concrete Institute
http://www.pci.org

Submission Deadline: September 18, 2017
http://www.pci.org/About_PCI/Awards/PCI_Design_Awards/

For more information, contact:
William Nickas, WNickas@pci.org
Upcoming Events

*Every Day Counts Webinar Series:*
Ultra-High Performance Concrete for Prefabricated Bridge Elements
Sponsored by Federal Highway Administration (FHWA)

**Webinar 5 of 6:**

*UHPC for PBE Connections: Implementation Stories*

July 11, 2017 – 1:00-2:30 pm EST

To register, go to the following link:
http://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/uhpc.cfm/
Upcoming Events

2017 New York City Bridge Conference – NYC, NY
August 21-22, 2017
Sponsored by the Bridge Engineering Association

http://www.bridgeengineer.org

Early-bird registration ends: July 21, 2017

For more information, contact: Khaled Mahmoud
kmahmoud@bridgeengineer.org
Upcoming Events

2017 Western Bridge Engineers’ Seminar – Portland, OR
September 6-8, 2017
Sponsored by FHWA & the Transportation Departments
of Alaska, Arizona, California, Idaho, Nevada, Oregon and
Washington
http://www.westernbridge.net

Early-bird registration ends: August 18, 2017

For more information, email: wbes@wsu.edu
Upcoming Events

2017 CAMX – The Composites and Advanced Materials Expo – Orlando, FL
September 11-14, 2017
http://www.thecamx.org

Sponsored by American Composites Manufacturers Association (ACMA) & Society for the Advancement of Material and Process Engineering (SAMPE)

Early-bird registration ends: August 18, 2017

For more information, contact John Busel:
jbusel@acmanet.org
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 Environmental Engineering Department, FIU
• Amir Sadeghnejad, Ph.D. Candidate, FIU

Mark your calendar!
Next Webinar

Thursday, July 20, 2017 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

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

by

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

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