

**Welcome to Webinar on
Accelerated Bridge Construction**

**Prestressed/Precast Florida-Slab-
Beams for Robust Local Bridges
and Accelerated Construction**

Sponsored by

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

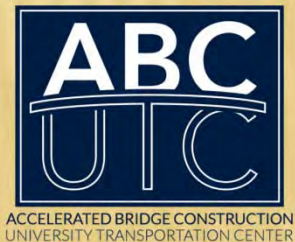
Florida International University



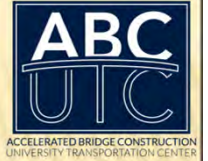
Website: abc-utc.fiu.edu

Email: abc@fiu.edu

November 16, 2017 – 1:00 p.m. to 2:00 p.m. Eastern



Today's Webinar



ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

Prestressed/Precast Florida-Slab-Beams for Robust Local Bridges and Accelerated Construction

Steven Nolan, P.E., Senior Structures Design Engineer, State Structures Design Office, Florida Department of Transportation

Question and Answer

(15 minutes)

Please post your questions in the question box

2017 Conference Update



2017 Conference Updates

Keynote Speaker: Secretary of Transportation
Elaine L. Chao (Invited)

Conference Co-Sponsors:
30 State DOTs, FHWA, TRB

119 thirty-minute technical presentations

11 four-hour workshops

50 Exhibits

Overview of the Eleven Pre-Conference Workshops

W-01: Implementation of the new AASHTO
Guide Specifications for Accelerated Bridge
Construction

W-02: Lightweight Concrete – A Tool for
Accelerated Bridge Construction

W-03: Programmatic Approach to Accelerated
Bridge Construction

Overview of the Eleven Pre-Conference Workshops

W-04: Ultra-High Performance Concrete
Connections for Prefabricated Bridge Elements

W-05: Foundation Re-use for ABC Projects

W-06: Project and Technology Review of
Proven Advanced Technologies

Overview of the Eleven Pre-Conference Workshops

W-07: Self-Propelled Modular Transporters for ABC – Trends, Challenges, and Future Activities

W-08: Today's Precast, Prestressed Concrete Bridge Design

W-09: Recent Developments in Steel ABC Applications

Overview of the Eleven Pre-Conference Workshops

W-10: Innovative Bridge Designs for Rapid
Renewal, SHRP2 R04 ABC Toolkit

W-11: Accelerated Bridge Construction in
Seismic Regions

Overview of the 119 Technical Sessions

Presentation topics include:

- ABC Solutions
- ABC Research
- UHPC
- Earthquake-Resistant ABC
- Railway Bridges
- Superstructure Replacement
- ABC Tools
- ABC Contract/Policy
- Monitoring-Instrumentation/Research
- Steel Structures
- Substructure
- Contractor Perspective/Materials/Solutions
- Case Studies
- Lateral Slides

Exhibit at 2017 Conference



To reserve your exhibit booths, please
Visit www.ABC-UTC.fiu.edu

Deadline For Online Registration is Friday, November 17, 2017



To Register online and more information
please visit

www.ABC-UTC.fiu.edu

Call for Papers

ASCE *Journal of Bridge Engineering* – Special Online Collection of Accelerated Bridge Construction

Sponsored by American Society of Civil Engineers (ASCE)

<https://www.asce.org/>

Note: All papers submitted through this solicitation will undergo the standard journal peer review process. Accepted papers will be published in regular issues of the ASCE Journal as they are accepted and will be added to the special online collection.

Paper Submission Deadline: February 28, 2018

Guest Editor: Dr. Atorod Azizinamini

For questions, contact **Chief Editor:**

Dr. Anil K. Agrawal, jbe.agrawal@gmail.com

Submit papers online:

<https://www.editorialmanager.com/jrnbeeng/>

National ABC Conference

Pre-Conference Workshops

December 6, 2017



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2017 National Accelerated Bridge Construction Conference

December 7 and 8, 2017

Workshops - December 6, 2017



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November 16, 2017
[Prestressed/Precast
Florida-Slab-Beams
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December 8, 2017
[2018 NSBA Prize](#)

National ABC Conference – Program

Workshop Programs – December 6, 2017

Morning: 8:00 a.m. – 12:00 p.m.

W-01: Implementation of new
AASHTO Guide Spec for ABC

W-02: Lightweight Concrete – A
Tool for ABC

W-03: Programmatic Approach to
Accelerated Bridge Construction

W-04: UHPC Connections for Prefabricated Bridge
Elements

W-05: Foundation Re-use for Accelerated Bridge
Construction Projects

Afternoon: 1:00 p.m. – 5:00 p.m.

W-06: Project & Technology Review
of Proven Advanced Technologies

W-07: SPMTs for ABC – Trends,
Challenges & Future Activities

W-08: Today's Precast, Prestressed
Concrete Bridge Design

W-09: Recent Developments in
Steel ABC Applications

W-10: Innovative Designs for Rapid
Renewal, SHRP2 R04 ABC Toolkit

W-11: Accelerated Bridge
Construction in Seismic Regions

2017 National ABC Conference – Pre-Conference Workshops

W-06: Project and Technology Review of Proven Advanced Technologies

Wednesday, December 6, 2017 – 1:00 p.m. to 5:00 p.m.

Introduction:

This workshop provides up-to-date information on successful implementation of several Proven Advanced Technologies listed as resources on the ABC-UTC website. These technologies have been recommended by various State DOTs across the country. Technology representatives will present recent projects supported by the states. The ABC aspects of the projects, the time savings offered by the technologies, and the overall time and cost savings for future applications will be described. Lessons learned and new ideas to further advance the ease of application and understanding of these innovative ABC technologies will be included. Available funding programs will be discussed.

Workshop Organizer:

Kay Jimison, Intelligent Engineering – SPS North America

Program:

1:00 p.m.	Welcome and Introduction to Workshop	Moderator – Kay Jimison
1:10 p.m.	Proven Advanced Technologies Initiative	Mary Lou Ralls, P.E.
1:20 p.m.	Available Funding Programs	Romeo Garcia
1:30 p.m.	Solving Issues (from an Owner's Perspective)	John Holt, P.E.
1:45 p.m.	Sandwich Plate System (SPS) Decks	Rolando Moreau / Doug Davis, P.E.
2:15 p.m.	Press-Brake-Formed Tub Girders	Greg Michaelson, Ph.D.
2:45 p.m.	<i>Break</i>	
3:00 p.m.	Lightweight Concrete: With Nearly 100 Years' Experience - A Proven Tool for ABC	Reid Castrodale, Ph.D., P.E.
3:30 p.m.	Precast Segmental Bridges	Garrett Hoffman, P.E.
4:00 p.m.	NEXT Beam	Rita Seraderian, P.E.
4:30 p.m.	Folded Steel Plate Girder System	Bob Elliott, P.E.
5:00 p.m.	Adjourn	

National ABC Conference Pre-Conference Workshops

Workshop Programs – December 6, 2017

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

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Call for Award Nominations

2018 NSBA Prize Bridge Awards

Bridges built in the U.S. of fabricated structural steel and completed / opened to traffic between May 1, 2015 and September 30, 2017

Sponsored by National Steel Bridge Alliance (NSBA)

<https://www.aisc.org/nsba>

In addition to Award Categories, NSBA offers special commendation to projects that best exemplify ABC

Submission Deadline: December 8, 2017

<https://www.steelbridges.org/2018prizebridge>

For more information, contact:

[Matt Shergalis, Shergalis@steelbridges.org](mailto:Shergalis@steelbridges.org)

Calls for Workshop & Award Nominations

35th Annual International Bridge Conference

– National Harbor, MD

June 11-14, 2018

Sponsored by Engineers' Society of Western PA (ESWP)

<http://www.eswp.com/bridge/>

Suggested topics include Accelerated Bridge Construction

Call for Workshops: Due December 8, 2017

<https://eswp.com/bridge/ibc-call-for-workshops/>

Call for Awards: Due January 12, 2018

<https://eswp.com/bridge/awards/nomination-form/>

Upcoming Events

2017 CAMX – The Composites and Advanced Materials Expo – Orlando, FL

RE-SCHEDULED: December 12-14, 2017

<http://www.thecamx.org>

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

<http://www.acmanet.org> & <http://www.sampe.org/>

For more information, contact John Busel:

jbusel@acmanet.org

Resources – Industry Composites

<https://abc-utc.fiu.edu/resources/industry/>



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Resources – Industry – Composites

<https://abc-utc.fiu.edu/resources/industry/>

Composite Bridges

- [American Composites Manufacturers Association \(ACMA\)](#)
- [Composites Product Suppliers](#)
- The ACMA FRP Rebar Manufacturers Council, is undertaking a project to update the AASHTO *LRFD Bridge Design Guide Specifications for GFRP Reinforced Concrete Decks and Traffic Railings*. This revision would be the second edition. The task force, led by Dr. Nanni, University of Miami, is coordinating the changes with experts from bridge industry including DOT engineers and consultants to update the guide to include all concrete elements in bridge construction and not limit the application to decks and barriers. In addition, the guide is being updated to be consistent with the updated ACI 440.2R-17. This initiative is expected to be completed by the end of the year and handed off to the AASHTO T-6 bridge committee for consideration, review, and adoption by the State DOT Bridge engineers at their next meeting.
- ACMA and the composites industry have been invited to participate in a new Manual of Practice publication for ASCE on the topic of Resiliency. ACMA's role in this publication is to characterize the use of FRP composites in the built environment that provides civil engineers with guidance on alternative materials and approaches that support design for resiliency of structures.
- ASTM published in October – ASTM D7957 / D7957M – 17 – Standard Specification for Solid Round Glass Fiber Reinforced Polymer Bars for Concrete Reinforcement, developed by Subcommittee: [D30.10](#) and is in the Book of Standards Volume: [15.03](#). More information: https://www.astm.org/Standards/D7957.htm?A&utm_source=tracker&utm_campaign=20170928&utm_medium=email&utm_content=standards
- ACMA is conducting a special event for the composites industry – an Infrastructure Day Fly-in to meet with Members of Congress and Federal Agencies on February 6-7, 2018.

Upcoming ABC-Related Activities at TRB Annual Meeting

January 7-11, 2018 – Washington, DC

<http://www.trb.org/AnnualMeeting/AnnualMeeting.aspx>

Lectern Session 211: Innovations in Connections and Retrofitting Strategies for ABC

Monday, 8:00 – 9:45 am, January 8, 2018

*Sponsored by TRB Structures Section and Construction Section;
co-sponsored by ABC Joint Subcommittee, AFF10, AFF30, AFF50, AFH50*

Lectern Session 750: Longitudinal Deck-Level Connections for ABC

Wednesday, 8:00 – 9:45 am, January 10, 2018

*Sponsored by TRB Structures Section and Construction Section;
co-sponsored by ABC Joint Subcommittee, AFF10, AFF30, AFF50, AFH40*

Upcoming ABC-Related Activities at TRB Annual Meeting

January 7-11, 2018 – Washington, DC

<http://www.trb.org/AnnualMeeting/AnnualMeeting.aspx>

Meeting: Accelerated Bridge Construction Joint Subcommittee, AFF00(2)

Tuesday, January 9, 3:45 – 5:30 pm

Sponsored by Structures Section (AFF00) and Construction Section (AFH00)

Meeting: Structures Collaboration Subcommittee, AFF00(1)

Tuesday, January 9, 1:30 – 3:15 pm

Sponsored by Structures Section (AFF00)

Call for Abstracts

IRF Global Road Conference – Las Vegas, NV

November 7-9, 2018

Sponsored by International Road Federation (IRF)

<https://www.irf.global/>

Conference tracks include:

4. Structural Design

4.3 New Technologies in Accelerated Bridge Construction

Abstract Submission Deadline: March 15, 2018

<https://www.irf.global/event/grc18-lasvegas/>

Next Webinar

Thursday, December 14, 2017 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

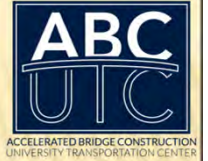
Accelerated Bridge Strengthening using Ultra-High-Performance Fiber-Reinforced Concrete

by

Eugen Brühwiler, Ph.D., Professor, Dr Structural Engineer,
Swiss Federal Institute of Technology (EPFL), Lausanne,
Switzerland

To register, visit: www.abc-utc.fiu.edu

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