

Welcome to Monthly Webinar on Accelerated Bridge Construction

Lightweight Superstructure Replacement of MDTA's Patapsco River Flats Bridge

Sponsored by

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



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

May 16, 2019 – 1:00 p.m. to 2:00 p.m. Eastern



Today's Monthly Webinar



ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

Lightweight Superstructure Replacement of MDTA's Patapsco River Flats Bridge

by

William N. Pines, P.E., Director of Project Development, Maryland Transportation Authority; **Robert J. Healy, P.E.**, Director of Structures, RK&K; and **Shilpa S. Kodkani, P.E.**, Project Manager, RK&K

Question and Answer

(15 minutes)

Please post your questions in the question box

2019

INTERNATIONAL ACCELERATED BRIDGE CONSTRUCTION CONFERENCE:

Including Automation, Service Life and Ultra High
Performance Concrete (UHPC)

December 11-13, 2019
Miami, FL

www.abc-utc.fiu.edu

FIU | Engineering
& Computing
Civil and Environmental Engineering



Conference Program and Online Registration – now Available!

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



Please click the photo above to view the 2019 conference program. Contact [Mrs. Mina Saremi](mailto:msare001@fiu.edu) via telephone at (954) 895-7728 or via email at msare001@fiu.edu with any questions.

Conference Program Includes:

- 108 thirty-minute technical presentations
- Keynote talk by Secretary of Transportation (invited)
- Four technical keynote talks
- 7 four-hour pre-conference workshops
- Special poster research presentation
- ABC project awards
- Recognizing ABC person of the year
- Reception - Thursday evening in exhibit hall
- Spouse program

Please visit <https://abc-utc.fiu.edu/conference/> to see title and affiliation of presenters and more



Hyatt Regency Downtown Miami

We suggest you reserve your hotel early at special conference rate while available

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



Exhibit Opportunity

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

A nighttime photograph of a city skyline with illuminated skyscrapers and a bridge. A red banner is overlaid at the bottom of the image.

TRAVEL SCHOLARSHIPS

Travel Scholarships are Available

Please submit your application online

<https://abc-utc.fiu.edu/conference/travel-scholarships/>

Awards Program



Award Categories:

- ABC Person of the Year
- Best ABC Project in the following categories:
 - Lateral Slide Technology
 - Self-Propelled Modular Transporters
 - Prefabricated Bridge Elements and Systems
 - Emergency

Submit your nomination by:
September 15, 2019

Student Spotlight



Elmira Shoushtari

Graduation: Ph.D., August 2019

Institution:

University of Nevada, Reno

Contact Email:

sh.elmira88@gmail.com

Major Advisor:

Dr. Saiid Saiidi

Dissertation Topic:

Shake table studies of a two-span steel girder bridge system with ABC connection



Student Spotlight



Azadeh Jaberri

Graduation: Ph.D., July 2019

Institution:

Florida International University

Contact Email:

ajabe002@fiu.edu

Major Advisor:

Dr. Atorod Azizinamini

Dissertation Topic:

ABC Closure Joints: Detailing, Design and Service Life



Workforce Development

Engineering First!

- Customizable lesson plans for K-5 students
- Short daily lessons for four weeks



Available at:

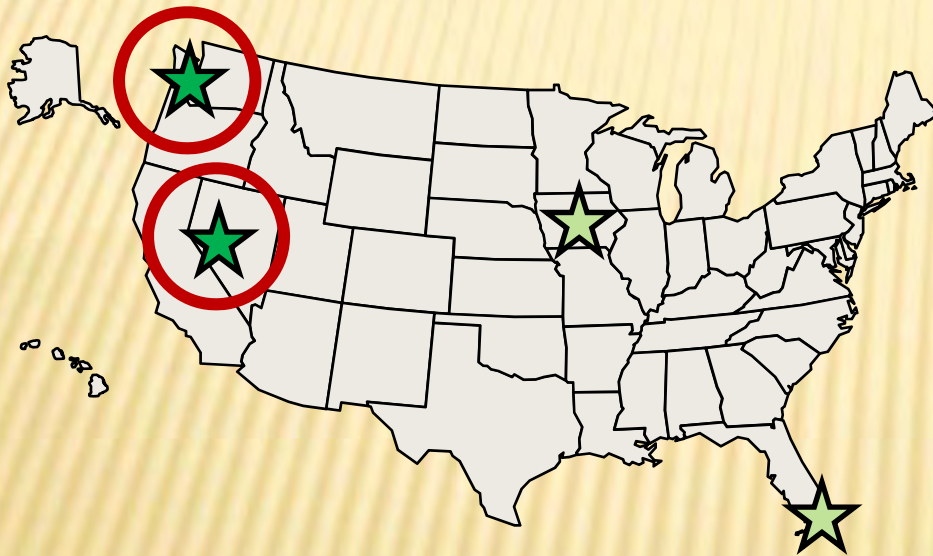
<https://abc-utc.fiu.edu/education/engineering-first/>

Workforce Development

Engineering First! Teacher Workshops

Summer 2019 workshops in:

- **Reno (NV) – Aug. 1-2**
- **Seattle (WA) – Aug. 8-9**



Past workshop in Miami, FL (2018)
Resource developed in Ames, IA





<https://abc-utc.fiu.edu/education/activities-outreach/>

Workforce Development

Interested in Engineering First?

ENGINEERING FIRST



The national emphasis on STEM education will have long-lasting, positive impacts upon future generations. Unfortunately, K-5 teachers already have many demands placed upon them and the creation of new classroom modules and materials can sometimes be a daunting task. The Accelerated Bridge Construction University Transportation Center (ABC-UTC) has partnered with the West Marshall School District to develop, refine, and disseminate a customizable set of lesson plans for up to four weeks that focuses on the fundamentals of engineering and the engineering process. The module has been developed with the following performance expectations in mind:

- Ability to ask questions, make observations, and gather information to define a problem that can be solved using engineering processes.
- Ability to develop simple sketches, drawings, or physical models do help understand how function may be used to solve a given problem.
- Ability to analyze data to solve a problem including comparing the strengths and weaknesses of various alternatives.

[Download Curriculum](#)

Interest in Engineering First

Sign up here to express interest in the Engineering First curriculum. We will then contact you to see what help you may need to get the curriculum introduced in your classroom.

Name *

First *

Your Position / Title *

Age of Students in Your Classroom or Center (check all that apply) *

<input type="checkbox"/> < 5 yrs old (pre K)	<input type="checkbox"/> 5 to 6 yrs old (Kindergarten)
<input type="checkbox"/> 6 to 7 yrs old (Grade 1)	<input type="checkbox"/> 7 to 8 yrs old (Grade 2)
<input type="checkbox"/> 8 to 9 yrs old (Grade 3)	<input type="checkbox"/> 9 to 10 yrs old (Grade 4)
<input type="checkbox"/> 10 to 11 yrs old (Grade 5)	<input type="checkbox"/> > 11 yrs old

Name of School, Library, or Center *

Address of School, Library, or Center *

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country

Short description of inquiry or help needed *

<https://abc-utc.fiu.edu/education/engineering-first/>

For more information, contact David Garber (dgarber@fiu.edu)

Call for Abstracts

2020 World Steel Bridge Symposium – Atlanta, GA

April 22-24, 2020

Sponsored by National Steel Bridge Alliance (NSBA)

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

Abstract Submission Deadline: May 21, 2019

<https://www.aisc.org/nsba/world-steel-bridge-symposium/>

For more information, contact:

Philip McConnell, mcconnell@aisc.org

Call for Entries

2019 ASBI Bridge Award of Excellence

Sponsored by American Segmental Bridge Institute
(ASBI)

<http://www.asbi-assoc.org/>

Bridges opened to the public or dedicated
between January 1, 2017 and August 1, 2019

Submission Deadline: June 3, 2019

<https://www.asbi-assoc.org/index.cfm/events/31st-annual-convention>

For more information, contact:

Gregg Freeby at gfreeby@asbi-assoc.org

Call for Abstracts and Session Proposals

2020 Structures Congress – St. Louis, MO

April 5-8, 2020

Sponsored by ASCE/Structural Engineering Institute (SEI)

<http://www.structurescongress.org/>

Call for Abstracts and Session Proposals

Deadline: June 5, 2019

<https://2020.structurescongress.org/program/call-proposals>

Upcoming Events

2019 International Bridge Conference – National Harbor, MD

June 10-12, 2019

Sponsored by Engineers' Society of Western Pennsylvania

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

ABC-related Workshop – Mon., June 10, 2:00-6:00 p.m.:
***W-2: New Design Standards and Worldwide Innovative
Applications Using FRP Composites to Build Bridges***

Sponsored by the American Composites Manufacturers
Association, <http://www.acmanet.org>

For more information: Contact John Busel at

jbusel@acmanet.org

NSBA Networking Event is held in conjunction
with the 2019 Annual Meeting for AASHTO
Committee on Bridges & Structures.

please join NSBA for a
**Networking
Riverboat Cruise**
ABOARD THE HARRIETT II

200 Coosa St · Tuesday June 25, 2019
Montgomery · 6:00 – 9:00 p.m.
AL 36104 · boarding 6:00 – 7:00 p.m.

to register visit:

www.aisc.org/boatcruise



Smarter.
Stronger.
Steel.



Upcoming Events

ASBI 2019 Seminar: Construction Practices for Concrete Segmental and Cable-Supported Bridges – Houston, TX

Tuesday-Wednesday, August 6-7, 2019

Sponsored by American Segmental Bridge Institute (ASBI)

<https://www.asbi-assoc.org/>

Based on new ***ASBI Construction Practices Handbook for Concrete Segmental and Cable-Supported Bridges***,
3rd Edition, June 2019

For agenda, online registration, and hotel information:

<https://www.asbi-assoc.org/index.cfm/events/seminar>

Upcoming Events

Flexible Filler Certification Training – Tallahassee, FL

August 12-13, 2019

Sponsored by Florida DOT, American Segmental Bridge Institute (ASBI), Post-Tensioning Institute (PTI)

For agenda, online registration, and hotel information:

**[https://www.asbi-
assoc.org/index.cfm/flexiblefiller/training](https://www.asbi-assoc.org/index.cfm/flexiblefiller/training)**

Upcoming Events

2019 Western Bridge Engineers' Seminar – Boise, ID

September 4-6, 2019

Sponsored by FHWA & the Transportation Departments of Alaska, Arizona, California, Idaho, Nevada, Oregon and Washington

<http://www.westernbridge.net>

Early-bird registration ends: August 15, 2019

For more information, email: wbes@wsu.edu

Next Monthly Webinar



Thursday, June 20, 2019 – 1:00-2:00 p.m. Eastern

Featured Presentation

Michigan DOT's Use of Externally-Bonded FRP Systems for Bridge Element Strengthening

by

Matthew Chynoweth, P.E., Chief Bridge Engineer, Dir. of the Bureau of Bridges and Structures, Michigan DOT; **Steve Kahl, P.E.**, Bridge Construction and Modeling Engineer, MDOT; and **Jason DeRuyver, P.E.**, Bridge Design Squad Leader, MDOT

Please mark your calendars!

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