

Welcome to Monthly Webinar on Accelerated Bridge Construction

Foundation Reuse for Highway Bridges

Sponsored by

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

Florida International University



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

March 28, 2019 – 1:00 p.m. to 2:00 p.m. Eastern



Today's Monthly Webinar



ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

Foundation Reuse for Highway Bridges

Frank Jalinoos, Research Engineer, Office of Infrastructure R&D, Federal Highway Administration (FHWA); and **Anil Agrawal, P.E.**, Professor, The City College of New York (CCNY)

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



Exhibit at 2019 Conference Reserve Your Booth Today



To reserve your exhibit booths:
visit www.ABC-UTC.fiu.edu

A nighttime photograph of a city skyline with numerous illuminated skyscrapers and a bridge in the foreground. The bridge has a prominent red vertical structure. The scene is lit with warm city lights and cool blue tones from the bridge's lighting.

TRAVEL SCHOLARSHIPS

State DOT, county engineers, and other bridge owners interested in receiving travel scholarships can apply online at:

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

Required information includes (1) name and affiliation, (2) job title, (3) reason attending the Conference, and (4) whether you are planning to use ABC in the near future

Call for Award Nominations

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

Award Categories:

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

Judges:

- Ahmad Abu-Hawash, Iowa DOT, Chair
- Romeo Garcia – FHWA
- Sam Fallaha – Florida DOT
- Bruce Johnson – Oregon DOT
- Bijan Khaleghi – Washington State DOT
- William Oliva – Wisconsin DOT

- Submit nomination online
- Submission deadline:
September 15, 2019

Keynote Speakers – General Session

Secretary of Transportation Elaine L. Chao
(Invited)

Congressman Mario Diaz-Balart (Invited)

Keynote Speakers – General Session

European Experiences and Latest
Development in Ultra High
Performance Concrete (UHPC)



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

Design of Bridges for Service
Life and Upcoming AASHTO
Guide



Bruce Johnson, P.E., Oregon
State Bridge Engineer and Vice
Chair of AASHTO Committee
on Bridges and Structures

Keynote Speakers – General Session

AASHTO LRFD Guide
Specifications for ABC



Michael P. Culmo, P.E., Chief
Technical Officer, CME
Associates, Inc.

Robotics and Automation:
International Perspective



Atorod Azizinamini, Ph.D., P.E.
Florida International University

ABC-UTC Non-Proprietary UHPC Mix

**Mix will be introduced during 2019 Conference
– All-day pre-conference workshop**

Project Advisory Panel

- Paul Froede, Alabama DOT
- Jason Hastings, Delaware DOT
- Ahmad Abu-Hawash, Iowa DOT
- Jessen Mortensen, Nevada DOT
- Walt Peters, Oklahoma DOT
- Bruce Johnson, Oregon DOT
- Tanarat Potisuk, Oregon DOT
- Rob Young, Vermont DOT
- Bijan Khaleghi, Washington State DOT
- Romeo Garcia, FHWA

ABC-UTC Non-Proprietary UHPC Mix

- Please send an email to aazizina@fiu.edu, if you are interested in participating in the project as “Friend” of project
- As “Friends” of project, you will be kept informed of the project progress

Call for Abstracts

IRF Global R2T Conference – Las Vegas, NV

November 19-22, 2019

Sponsored by International Road Federation (IRF)

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

Conference tracks include:

Accelerated Bridge Construction

(Note: Paper not required)

Abstract Extended Submission Deadline: April 5, 2019

<https://www.irf.global/event/grc19-lasvegas/#tab-1-2-call-for-abstracts>

Call for Abstracts

**Third International Bridge Seismic Workshop (III IBSW) –
Seattle, WA**

October 1-4, 2019

Organized by IABEE with co-hosts, Tongji University,
University of Washington, and Washington State DOT

<https://www.iabee.org/single-post/2019/02/12/The-Third-International-Bridge-Seismic-Workshop-III-IBSW-Oct-1-4-2019-in-Seattle-WA-USA>

Invited topics include:

Seismic Design Details for ABC

Abstract Submission Deadline: April 29, 2019

Submit to: Workshop secretary generals, Dr. Helen Xu at yanxu@tongji.edu.cn or Linda Kuo at lkuo@iabee.org

Call for Suggested Topics/Speakers

2019 ASBI 31st Annual Convention – Orlando, FL

November 4-6, 2019

Sponsored by American Segmental Bridge Institute (ASBI)

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

Call for Suggested Topics / Speakers

- Submission Deadline: April 26, 2019

Obtain nomination form at:

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

Email completed form to:

gfreeby@asbi-assoc.org with cc to ingrid@asbi-assoc.org

Call for Entries

2019 ASBI Bridge Awards 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 Grouting Certification Training – Austin, TX

Monday, April 8, 2019

Sponsored by American Segmental Bridge Institute (ASBI)

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

Online registration:

<https://www.asbi-assoc.org/content/grouting/grouting/registration.cfm>

For more information:

<https://www.asbi-assoc.org/index.cfm/grouting/training>

Upcoming Events

PCINE Spring 2019 Workshops: Best Practices for Precast Concrete Bridge Construction

Sponsored by Precast/Prestressed Concrete Institute
Northeast Chapter (PCINE)

<https://www.pci.org/pcine/>

Dates: April 18, 23, 30; May 7, 14, 15

Locations: CT, ME, NY, MA, NH, VT

Online registration:

<https://www.eventbrite.com/e/pcine-best-practice-workshop-tickets-57012354487>

For more information, contact:

Rita Seraderian - contact@pcine.org

Upcoming Events

TRB Webinar: A Simplified Full-Depth Precast Concrete Deck Panel System

Tuesday, April 30, 2019 (1:00 – 2:30 p.m. Eastern)

Sponsored by Transportation Research Board (TRB)

<https://www.trb.org>

Features research from NCHRP 12-96, Final Report 895:
Simplified Full-Depth Precast Concrete Deck Panel
Systems

Online registration:

<http://www.trb.org/main/blurbs/178879.aspx>

ABC-UTC WD Activities

Engineering First!

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



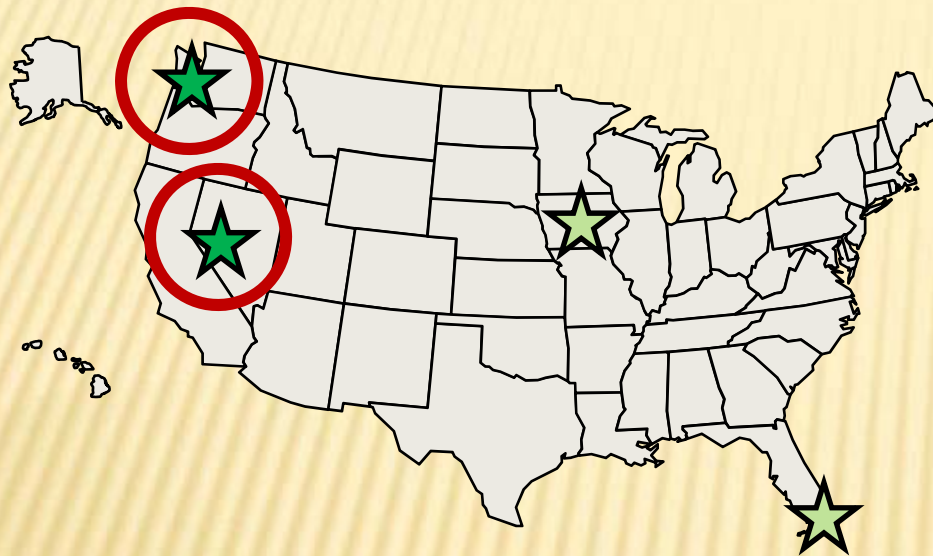
Available at:

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

ABC-UTC WD Activities

Engineering First! Teacher Workshops

Summer 2019 workshops in Reno (NV) and Seattle (WA)



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






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

ABC-UTC WD Activities

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 *

Title First Middle Last Suffix

Email *

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 *

Street Address

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)

ABC-UTC

Quarterly Research Seminar

Friday, April 26, 2019 – 1:00-2:00 p.m. Eastern

Integral Abutment Details for ABC Projects, Phase II

Travis Hosteng, Principal Investigator

Austin Dejong, M.S. Student

ABC-UTC / Iowa State University

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

ABC-UTC

Semi-Annual Research Day

Tuesday, May 7, 2019 – 11:00 am-3:30 p.m. Eastern

2019 Research Day 1



Mark Your Calendars!

ABC-UTC

2019 In-Depth Web Training

Tuesday, September 10, 2019
11:00 a.m. to 3:00 p.m. Eastern

Latest Seismic ABC

Applications

Six 40-minute modules

Mark Your Calendars!



Next Monthly Webinar

Thursday, April 18, 2019 – 1:00-2:00 p.m. Eastern

Featured Presentation

Caltrans' 2017 Pfeiffer Canyon Bridge Emergency Replacement

by

Tom Ostrom, P.E., State Bridge Engineer, Caltrans;
Neil Weller, P.E., Bridge Construction Engineer, Caltrans;
and **David Galarza, P.E.**, Structures Representative,
Caltrans

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