

**Welcome to Monthly Webinar on
Innovative Bridge Technologies / Accelerated Bridge Construction**

**Accelerated Replacement of the
Iconic Nashville Broadway Viaduct Bridge**

Sponsored by

*Innovative Bridge Technologies / Accelerated Bridge Construction - University Transportation Center
(IBT/ABC-UTC) at Florida International University*



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

March 21, 2024 – 1:00 p.m. to 2:15 p.m. Eastern



Today's Monthly Webinar



IBT/ABC Announcements

(10 minutes)

Featured Presentation

(35-40 minutes)

Accelerated Replacement of the Iconic Nashville Broadway Viaduct Bridge

by

Clayton Markham, P.E., Director Alternate Delivery, Tennessee Department of Transportation;
Donald McCrary, P.E., Senior Lead Bridge Engineer, Gresham Smith

Question and Answer Session

(15+ minutes)

Please post your questions in the question box

2024 World Bridge Engineering Conference

Hilton Hotel, December 13, 14 and 15, 2024, Miami FL

CALL FOR ABSTRACTS

Deadline April 12



2024 World Bridge Engineering Conference

CONFERENCE CO-SPONSORS

Federal Highway Administration, and 33 State Departments of Transportation

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CONFERENCE TOPICS

- 3D printing in bridge engineering
- Accelerated Bridge Construction
- Advances in sensor technologies
- Advanced construction materials
- Advances in bridge design
- Advances in construction equipment
- Advanced non-destructive testing and equipment
- Advances in bridge seismic design
- Advances in connections for prefabricated elements
- Alternative contracting methods
- AI in bridge engineering
- Automation in design and construction
- Automation in bridge inspection
- Best practices in bridge preservation
- Best practices in bridge bundling
- Best practices in preventing bridge scour
- Best practices in service life design
- Bridge asset management systems of bridges
- Bridge deck overlays using advanced materials
- Case studies: Short-, medium- and long-span bridges + bridges in seismic regions
- Contractor's perspective on future needs of bridge engineering
- DOT organizational structures to accommodate innovative technologies
- Designing and constructing bridges for extreme events/hurricanes
- Digital twins in bridge engineering
- Emergency bridge project cases
- Forensic bridge engineering
- Health monitoring of bridges
- Innovative bridge concepts
- Innovation in bridge foundation and substructure
- Lessons learned from bridge failures
- Movable bridges
- Pedestrian bridges
- Policy, planning and procurement
- Public outreach and marketing
- Prefabricated bridge elements
- Railroad bridges
- Rail transit bridges
- Robotics in fabrication and construction
- Ultra High-Performance concrete: Mix design and material characteristics
- Ultra High-Performance concrete for bridge repair, strengthening and rehabilitation
- Unique bridge fabrication, erection and construction case studies
- Use of drones in bridge engineering
- Use of blockchain in bridge engineering
- Upgrade and rehabilitation of existing bridges

To make your **hotel reservations** at the special conference rate, please visit <https://abc-utc.fiu.edu/.conference/>



Conference co-sponsored by U.S. Federal Highway Administration and many state Departments of Transportation.



For more information about the conference, please contact Conference Chair Dr. Atorod Azizinamini at aazizina@fiu.edu.

2024 World Bridge Engineering Conference

Hilton Hotel, December 13, 14 and 15, 2024, Miami FL

Travel Scholarships are available



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Opportunities are available to exhibit



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**Please help to spread the word
Share with bridge professionals in
your area**



Upcoming Events

NCBC –

National Concrete Bridge Council in cooperation with GDOT & FHWA

Prestress Concrete Bridge Seminar: Concepts for Extended Spans

**April 24-25, 2024
Atlanta, Georgia**

For more information and registration: www.pci.org/April24BridgeSeminar

Registration closes April 1, 2024

Upcoming Events

ESWP –

Engineers' Society of Western Pennsylvania

International Bridge Conference (IBC)

June 3-5, 2024

San Antonio, Texas

For more information and registration:

www.eswp.com/bridges/ibcrestistration/

Next Monthly Webinar

Thursday, April 18, 2024 – 1:00-2:15 p.m. Eastern
(Certificate of Attendance provided)

Featured Presentation:

UHPC Link Slab Design and Construction

by

Jim Scarlata, P.E., Structures Design Bureau, Assistant Director, New York DOT

Mark your Calendars!



Quarterly Research Seminar

Friday, April 26, 2024 – 1:00-2:15 p.m. Eastern
(Certificate of Attendance provided)

Featured Project:

Insights into the Pull-Off Strength of Polymer Concrete and the Effects of Nanomodifications

by

Ali Akbarpour, Ph.D. Student; and
Shreya Vemuganti, Ph.D., Assistant Professor, Principle Investigator
ABC-UTC at The University of Oklahoma

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