

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

**Observed Long-Term Performance of  
Prefabricated Deck Level Connections**

Sponsored by

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



Website: [abc-utc.fiu.edu](http://abc-utc.fiu.edu)

Email: [abc@fiu.edu](mailto:abc@fiu.edu)

November 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)

**Observed Long-Term Performance of  
Prefabricated Deck Level Connections**

by

**Michael P. Culmo, P.E.**  
Chief Bridge Engineer, CHA Consulting, Inc.

**Question and Answer Session** (15+ minutes)

**Please post your questions in the question box**

# 2024 World Bridge Engineering Conference

(Formerly International ABC Conference)

Hilton Hotel, December 11, 12 and 13, 2024, Miami FL



## Register Today

Use link below to register today

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



Conference Sponsor: U.S. Department of Transportation through IBT/ABC-UTC

# 2024 World Bridge Engineering Conference

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### CONFERENCE CO-SPONSORS

Federal Highway Administration and 33 State Departments of Transportation

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|            |             | Washington | Wisconsin   |              |                |
|            |             | Wyoming    |             |              |                |



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## Keynote Speakers



**Michael Knott, P.E.**  
Senior Vice President Emeritus, with Moffatt & Nichol

**PRESENTATION TITLE:**  
*What Bridge Designers Should Know About Ships Colliding with Bridges and How to Prevent Collapse*



**Changsu Shim, Ph.D.**  
Professor, Chung-Ang University, South Korea

**PRESENTATION TITLE:**  
*Digitalized Highway Bridge Construction Using Smart Technologies in Korea*



**Eugen Brühwiler, Prof. em. Ph.D., P.E.**  
Swiss Federal Institute of Technology (EPFL) Lausanne, Switzerland

**PRESENTATION TITLE:**  
*Current Developments in Europe in Rescuing Existing Bridges with UHPC*



**Atorod Azizinamini, Ph.D., P.E., Professor**

Director, Infrastructure Research and Innovation, FIU  
**PRESENTATION TITLE:**  
*3D Printing with Concrete*



**Mark A. Finlayson, Ph.D., Professor**

Computing and Information Science, FIU  
**PRESENTATION TITLE:**  
*What is Artificial Intelligence, and Why Should Bridge Engineers Care?*



**Benjamin A. Graybeal, Ph.D, P.E.**

U.S. Federal Highway Administration  
**PRESENTATION TITLE:**  
*Solutions that Move the Needle*



**John R. Hillman, P.E., S.E.**

Structural Engineering Director, Kiewit Engineering Group, Inc  
**PRESENTATION TITLE:**  
*Circular Evolution of Bridge Project Delivery*



**Frank Jalinoos**

Coating and Corrosion Laboratory, (FHWA) Turner-Fairbanks Highway Research Center  
**PRESENTATION TITLE:**  
*Foundation Reuse in ABC Projects*



**Danielle Whitlow, Ph.D, P.E.**

U.S. Army Engineer Research and Development Center (ERDC)  
**PRESENTATION TITLE:**  
*Adapt and Overcome: The Challenges to Military Engineering*

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Use link below to see **Conference Program**

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



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# Conference Program at a Glance

Session Topic	Accelerated Bridge Construction	Innovative Bridge Concepts	Advances in Bridge Design	Best Practices in Bridge Preservation	UHPC Applications in Bridge Engineering	Upgrade and Rehabilitation of Existing Bridges
Number of 30-Minute Long Technical Presentations	27	19	12	7	12	8
Session Topic	Structural Health Monitoring	AI and Digital Twins	Bridge Asset Management Systems	Bridge Engineering from Military Perspective and UHPC-Based Solutions	DOT Experiences	Case Studies
Number of Technical Presentations	12	8	7	8	8	7

- Nine Keynote talks
- *140, thirty minutes long Technical Presentations*
- Free Workshop - Shotcrete with UHPC

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### Thursday Evening – Free workshop on Shotcrete with UHPC

Don't miss the opportunity to learn about the most exciting application of UHPC, aimed at Retrofit/Upgrade of deficient bridge elements and more.



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## Wednesday Evening- Reception and Entertainment



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Opportunities are available to exhibit your services and showcase your company. Use link below to reserve your exhibit booth. Space is limited and will be reserved, based on first come first reserved

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

Reserve your hotel room at special conference rate while available. Use link below to reserve your hotel room now

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

Travel scholarships are available for U.S. State and County Bridge Engineers, to attend the conference. Use link below to apply

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



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## Upcoming Events

**PCI – Precast / Prestressed Concrete Institute**

**2025 PCI Convention at The Precast Show**

**February 3 - 7, 2025**

**Indianapolis, Indiana**

For more information and registration: [www.pci.org/convention](http://www.pci.org/convention) (registration is open)

Or contact William Nickas at: [Wnickas@pci.org](mailto:Wnickas@pci.org)

## Upcoming Events

### **AISC / NSBA**

American Institute of Steel Construction / National Steel Bridge Alliance

### **NASCC: The Steel Conference** including the **World Steel Bridge Symposium**

**April 2 - 4, 2025**  
**Louisville, Kentucky**

For more information and registration: [www.nascc.aisc.org](http://www.nascc.aisc.org) (registration opens January 8)

Or contact Vin Bartuca at; [bartucca@steelbridges.org](mailto:bartucca@steelbridges.org)

## Upcoming Events

### **ACMA – American Composite Manufacturing Association**

### **Design Using Pultrusion Technology Conference**

**May 6 - 8, 2025**  
**Chicago, IL**

For more information: <https://acma-org.my.site.com/pultrusion2025/>

Or contact John Busel at; [jbusel@acmanet.org](mailto:jbusel@acmanet.org)

## Next Monthly Webinar



Thursday, December 5, 2024 – 1:00-2:15 p.m. Eastern

**(Certificate of Attendance provided)**

**Featured Presentation:**

### ODOT Combines Multiple ABC Methods for Maximum Benefit at I-5 over 26<sup>th</sup>

by

**Joel Tubbs, P.E., S.E.**, David Evans and Associates, Inc., Bridge Engineer of Record;  
**Robert DeVassie, P.E., PMP, STP**, Oregon Department of Transportation,  
Agency Project Manager

**Mark Your Calendar!**

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(10 minutes)

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