

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

**ODOT Combines Multiple ABC Methods for  
Maximum Value at I-5 over 26<sup>th</sup> Ave.**

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)**

**December 5, 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)

## **ODOT Combines Multiple ABC Methods for Maximum Value at I-5 over 26<sup>th</sup> Ave.**

by

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

**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

Alabama	Colorado	Illinois	Maine	Nebraska	South Carolina
Alaska	Connecticut	Indiana	Michigan	Nevada	Tennessee
Arizona	Delaware	Iowa	Minnesota	Oklahoma	Texas
Arkansas	Florida	Kansas	Mississippi	Oregon	Utah
California	Georgia	Louisiana	Missouri	Pennsylvania	Vermont
		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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Visit Conference webpage, using link below to learn more.

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

The logo consists of the letters 'ABC' stacked above 'UTC' stacked above 'IBT', all in white on a blue square background.

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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, January 16, 2025 – 1:00-2:15 p.m. Eastern  
(Certificate of Attendance provided)

Featured Presentation:

## Seismic Connections of Precast Columns to Foundations Utilizing UHPC

by

**Bruno Massicotte, Ph.D., P.Eng.**, Full Professor, Department of Civil, Geological and Mining Engineering, Polytechnique Montreal

**Mark Your Calendar!**

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