

# Welcome to Monthly Webinar on Accelerated Bridge Construction

## First U.S. Bridge with 100% UHPC Superstructure: Michigan's Bricker Road Bridge over Quackenbush Drain

Sponsored by

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



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

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

August 17, 2023 – 1:00 p.m. to 2:15 p.m. Eastern



# Today's Monthly Webinar



**ABC Announcements** (10 minutes)  
**Featured Presentation** (35-40 minutes)

## **First U.S. Bridge with 100% UHPC Superstructure: Michigan's Bricker Road Bridge over Quackenbush Drain**

by

**William (Bill) Hazelton, P.E.**, Managing Director, St. Clair County Road Commission, Michigan; and **Sherif El-Tawil, Ph.D., P.E.**, Antoine E. Naaman Collegiate Professor of Civil and Environmental Engineering, University of Michigan and Co-Founder, HiPer Fiber, LLC

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

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

# Innovative Bridge Technologies / Accelerated Bridge Construction University Transportation Center (IBT/ABC-UTC)

## USDOT Tier 1 UTC – Awarded 2023-2029

### Research Priority:

Improving the Durability and Extending the Life of Transportation Infrastructure

**Lead:** Florida International University

### Consortia Members:

Florida A&M University

Texas A&M University

University of Georgia

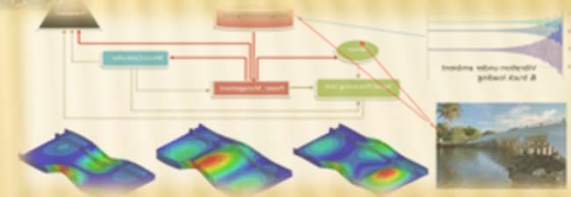
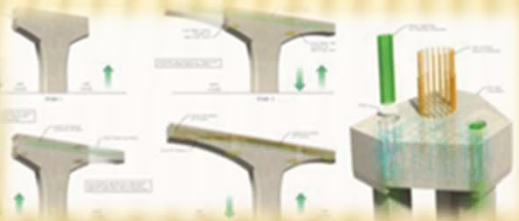
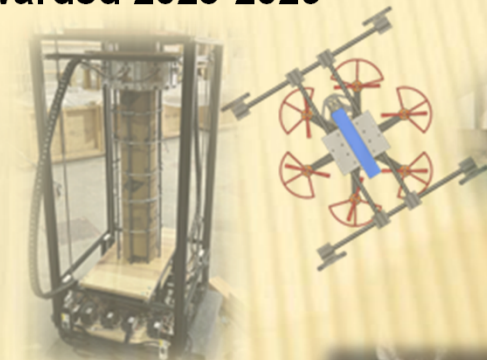
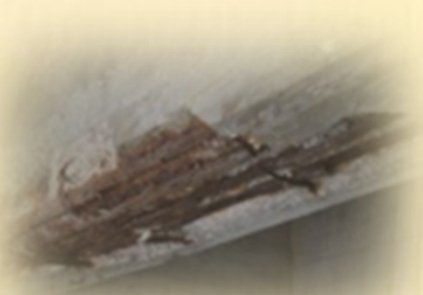
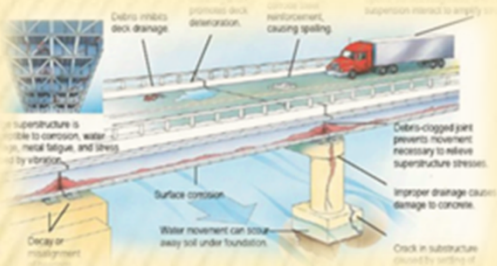
University of Nevada, Reno

University of Oklahoma

University of Washington



# Innovative Bridge Technologies / Accelerated Bridge Construction University Transportation Center (IBT/ABC-UTC) – Awarded 2023-2029





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

## **Reorganization, effective October 2023:**

- Kathy Crowell, formerly with New Mexico DOT – Monthly Webinars, Research Seminars, In-Depth Web Training
- Bijan Khaleghi, formerly with Washington State DOT – Technology Implementation
- Mary Lou Ralls Newman – ABC Project Database

# NSBA 2024 Prize Bridge Award Competition – Open!

**Deadline:** September 30, 2023

**Website:** <https://www.aisc.org/nsba/prize-bridge-awards/>



# Upcoming Events

## **TRB Webinar: Accelerated Bridge Construction Programmatic Implementation**

Wednesday, August 30, 2023 – 1:00-2:30 p.m. Eastern

### **Sponsored by Transportation Research Board**

<https://www.nationalacademies.org/trb/transportation-research-board>

- TRB AKC40, Standing Committee on Construction of Bridges and Structures
- TRB AKB10, Standing Committee on Innovative Highway Structures and Appurtenances

### **Speakers:**

- Michael P. Culmo, P.E., Chief Bridge Engineer, CHA Consulting, Inc.
- Rachelle Clark, P.E., Senior Engineer, CHA Consulting, Inc.

Registration Link:

<https://webinar.mytrb.org/Webinars/Details/1698>



# Upcoming Events

## **ASBI Monthly Webinar:**

**Wind on Bridges During Construction: An Erection Engineer's Perspective**

Wednesday, August 30, 2023

1:00 - 2:00 p.m. ET

PDH Certificates Will be Issued to Attendees

To register: <https://www.asbi-assoc.org/learn/webinars/>

## **ASBI Convention and Committee Meetings**

November 5 - 8, 2023

Westin La Paloma Resort and Spa

Tucson, Arizona

To register: <https://www.asbi-assoc.org/events>

# Upcoming Events

## **PCI Committee Days Conference**

October 4 – October 8, 2023

J.W. Marriott

Tampa, Florida

For registration: <https://www.pci.org/committeedays>

# Upcoming Events

## **PTI Certification Weeks**

Level 1 and Level 2 Multistrand and Grouted Post-Tensioning Specialist  
Certification Training

### **Phoenix Certification Week**

September 13-15, 2023

Embassy Suites by Hilton Scottsdale Resort

### **Austin Certification Week**

November 15-17, 2023

Commons Conference Center, Austin, TX

For more information and registration: <https://www.post-tensioning.org/education.aspx>

Click the 'Certification Workshops' link.

# Upcoming Events

## **PTI Certification Weeks**

Level 1 and Level 2 Multistrand and Grouted Post-Tensioning Inspector  
Certification Training

### **Austin Certification Week**

November 18, 2023

Commons Conference Center, Austin, TX

For more information and registration:

<https://www.post-tensioning.org/education.aspx>

Click the 'Certification Workshops' link.

# ABC-UTC

## 2023 In-Depth Web Training

Tuesday, September 12, 2023

11:00-3:15 p.m. EDT

### Precast Substructures

(six 40-minute modules with 15-minute break)

**Certificate of Attendance provided**

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

# ABC-UTC 2023 In-Depth Web Training

## Precast Substructures



Tuesday, September 12, 11:00 a.m. to 3:15 p.m. EDT

Module	Start Time	Presenters	Presentation Titles
1	11:00 a.m. EDT	Michael P. Culmo, P.E., CHA Consulting, Inc. (CHA)	Available Precast Substructure Specifications and Resources
2	11:40 a.m. EDT	Amy Leland, P.E., S.E., WSDOT Bijan Khaleghi, Ph.D., P.E., S.E., ABC-UTC; TranTech Engineering Khashayar Nikzad, Ph.D., P.E., TranTech Engineering	Washington State's I-5 / US 12 Bridge at Grand Mound Precast Substructure
3	12:20 p.m. EDT	Christopher D. White, P.E., Volkert, Inc.	Louisiana's Precast Erection for Lake Pontchartrain Bridge Safety Bay Substructure
	1:00 p.m. EDT		Break
4	1:15 p.m. EDT	Peter Graf, P.E., S.E., Infrastructure Consulting & Engineering, PLLC	Alabama's I-59/20 Birmingham Central Business District Precast Substructure
5	1:55 p.m. EDT	Michael S. Arens, S.E., P.E., Michael Baker International Michael P. Culmo, P.E., CHA Consulting, Inc. (CHA)	Utah's Riverdale Road over I-84 Precast Substructure and Its Performance
6	2:35 p.m. EDT	Bijan Khaleghi, Ph.D., P.E., S.E., ABC-UTC; TranTech Engineering	ABC-UTC Research Outputs Ready for Implementation – Precast Substructures
	3:15 p.m. EDT		End of 2023 In-Depth Web Training

# Next Monthly Webinar

Thursday, September 21, 2023 – 1:00-2:15 p.m. Eastern  
(Certificate of Attendance provided)

Featured Presentation:

## Five Million Pound Utah Bridge Slide

by

**Cheryl Hersh Simmons, S.E.**, Chief Structural Engineer, Utah Department of Transportation; **Logan Julander, P.E.**, Structures Manager, Michael Baker International; and **Jim Deschenes, S.E.**, Director of Alternative Delivery, Ralph L. Wadsworth Construction

**Mark your Calendars!**

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Featured Presentation:

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