

**Welcome to Monthly Webinar on  
Accelerated Bridge Construction**

**FHWA's *Lightweight Concrete Bridge  
Design Primer* – ABC Applications**

**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)**

**June 29, 2023 – 1:00 p.m. to 2:15 p.m. Eastern**



# Today's Monthly Webinar

**ABC Announcements**

(10 minutes)

**Featured Presentation**

(35-40 minutes)

## ***FHWA's Lightweight Concrete Bridge Design Primer – ABC Applications***

by

**Reid W. Castrodale, Ph.D., P.E.,**  
Castrodale Engineering Consultants, PC

**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

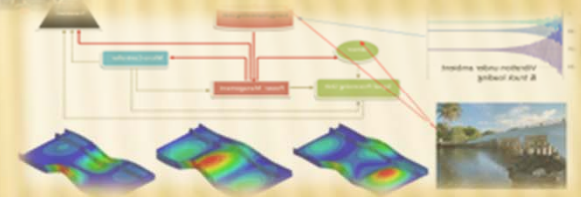
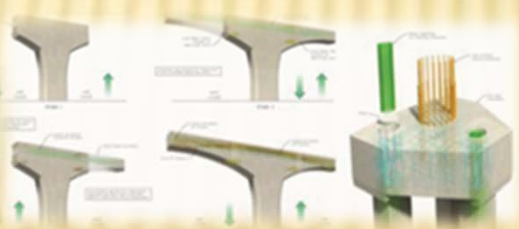
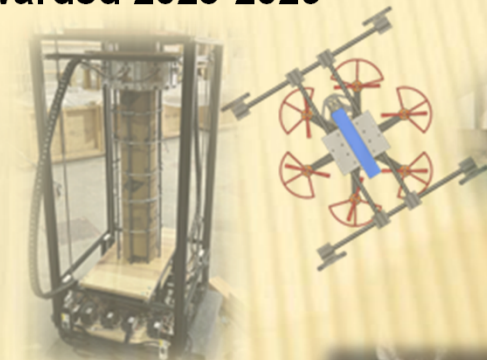
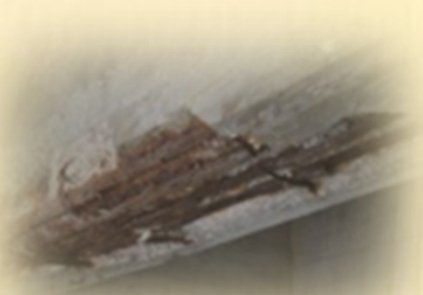
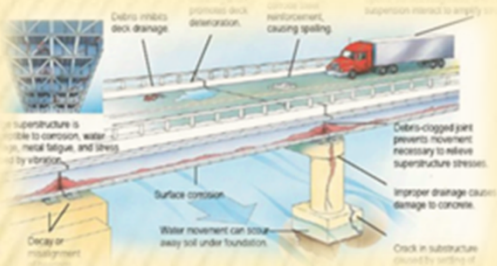
University of Nevada, Reno

University of Oklahoma

University of Washington



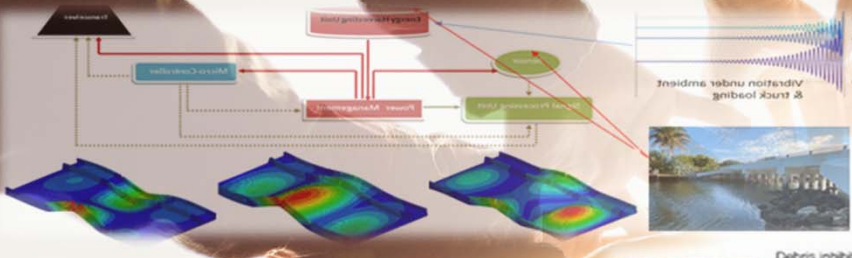
# Innovative Bridge Technologies / Accelerated Bridge Construction University Transportation Center (IBT/ABC-UTC) – Awarded 2023-2029



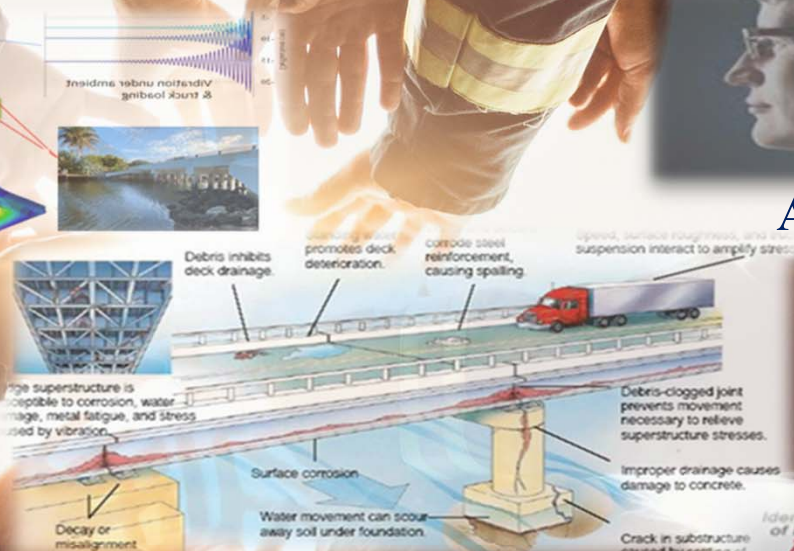
## **Please Let Us Know**

- If you have implemented innovative bridge-related technologies or plan to do so**
- We are interested to include such topics in our future monthly webinars**
- Let us know if there are any bridge-related technologies that you suggest we cover**

# Next Generation of Asset Management System



**Digital Twin**



**National Service Life System**

**Artificial Intelligence**



**Next Generation of ABC**

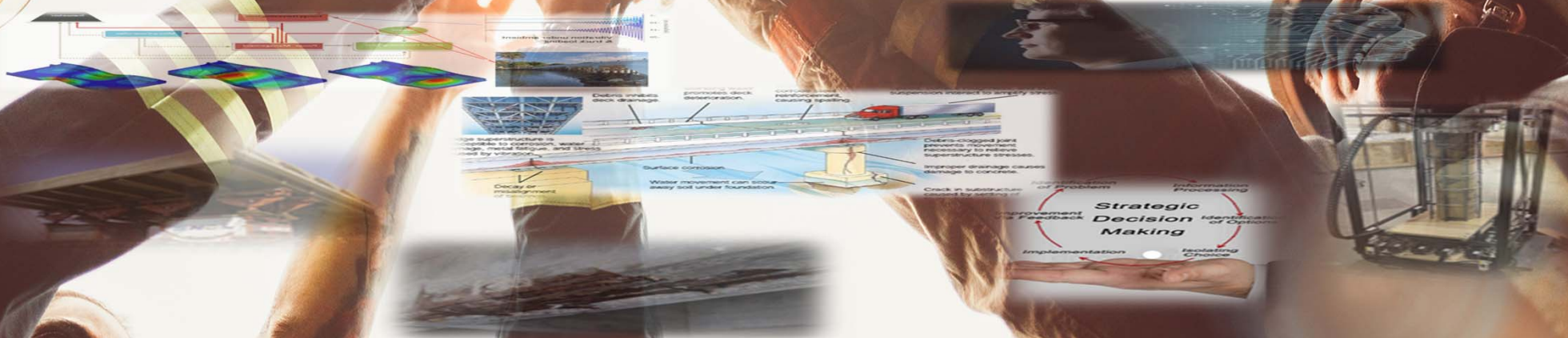
**Automation- 3D Printing**

**Decision Making Tools that include Social Equity, Climate Change**

**Advanced Materials for Repair and Upgrade**

**If you are interested in being a member of the Research Advisory Panel (RAP) for the *Next Generation of Asset Management Systems* research project, please send me an email at [aazizina@fiu.edu](mailto:aazizina@fiu.edu) by July 7, 2023.**

***Note: To apply, you should have significant responsibility in asset management systems at your organization.***



# Upcoming Events

## **ASBI Monthly Webinar:**

### **I-59/20 Birmingham Viaduct Project**

Wednesday, July 26

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

PDH Certificates Will be Issued to Attendees

## **2023 ASBI Seminar on Construction Practices for Segmental Concrete Bridges**

Thursday - Friday, August 17 - 18

Hotel Fontenot, New Orleans, LA

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

Look under the 'Events' tab



# Upcoming Events

## **ASBI Convention and Committee Meetings**

November 5 - 8, 2023

Westin La Paloma Resort and Spa

Tucson, Arizona

For more information and registration:

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

Look under the 'Events' tab

# Upcoming Events

## **2024 PCI Design Awards**

Nominations will close Wednesday, July 26, 2023.

There is a \$500 submission fee per project submitted.

To enter: <https://www.pci.org/designawards>

## **2023 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**

**Mark your calendars!**

# Quarterly Research Seminar

Friday, July 28, 2023 – 1:00-2:15 p.m. Eastern

**(Certificate of Attendance provided)**

**Featured Project:**

## **Design Guidance for UHPC Connections of Precast Girders Made Continuous for Live Load**

by

**Royce W. Floyd, P.E., S.E., Ph.D.,** Principal Investigator; and **Zachary Tiry, M.S.** Student, **ABC-UTC / University of Oklahoma**

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

# Next Monthly Webinar

Thursday, July 20, 2023 – 1:00-2:15 p.m. Eastern  
(Certificate of Attendance provided)

Featured Presentation:

## Prioritization Efforts for ABC in Texas

by

**Graham Bettis, P.E.**, State Bridge Engineer and Director of Bridge Division, Texas Department of Transportation; and **Bernie Carrasco, P.E.**, Bridge Management Section Director, Bridge Division, TxDOT

**Mark your Calendars!**

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