

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

**Design and Construction of
High-Capacity Micropiles in
ABC Projects**

Sponsored by

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



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

June 18, 2020 – 1:00 p.m. to 2:00 p.m. Eastern



Today's Monthly Webinar



ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

Design and Construction of High-Capacity Micropiles in ABC Projects

by

Paul V. Liles, Jr., P.E., Former State Bridge Engineer, Georgia Department of Transportation; **John R. Wolosick, P.E.**, Senior Advisor, Keller North America; and **Tony Sak, P.E.**, Senior Engineer, Keller North America

Question and Answer

(15 minutes)

Please post your questions in the question box

Our Next ABC Conference

December 8 – 10, 2021

Miami, Florida

Available Now!

**Workshop on Contractor / Owner
Collaboration on ABC Programs**

ABC-UTC has organized a half-day regional workshop for contractor/owner collaboration on reasons and purpose surrounding the paradigm shift in State decision-making for implementing ABC as common practice in bridge project delivery and to assist contractors and suppliers in partnering in this effort.

If you would like to have a workshop in your region, please send an email to:

aazizina@fiu.edu

Coming Soon!

Training Workshop on Non-Proprietary UHPC

ABC-UTC, in conjunction with other entities that have developed Non-proprietary UHPC, is organizing a workshop to provide ready-mix plants, contractors, and other interested stakeholders with essential information for producing UHPC that is not proprietary.

If you would like to have a workshop in your region, or State DOT, please send an email to:

aazizina@fiu.edu

Coming Soon!

Training Workshop on ABCs of ABC

ABC-UTC is planning a 1-day ABC workshop, customized for different agencies, providing the latest and essential information related to ABC.

These workshops will include: contracting methods, AASHTO ABC Guide Specification, construction methods, contractors' perspectives, ABC bridge systems, international experiences, and more. We are developing a waiting list. Send an email if you are interested to have one of these workshops in your region or at your State DOT to:

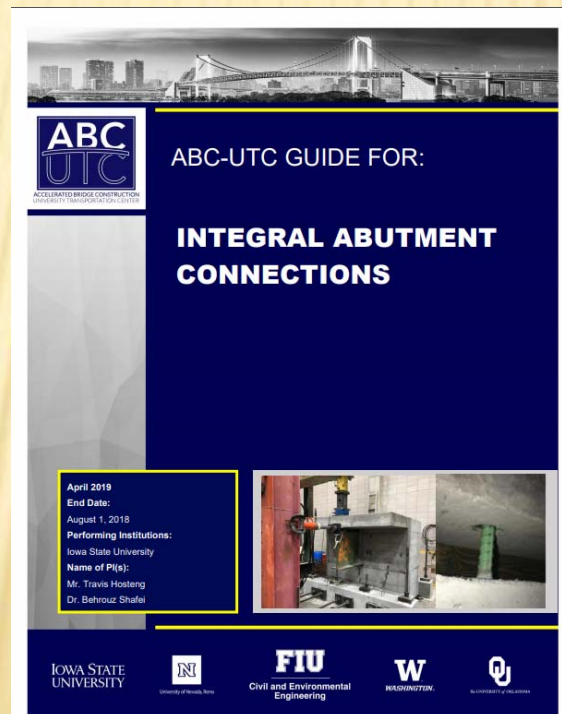
aazizina@fiu.edu

ABC-UTC Guides

ABC-UTC Guide = A short document for each project as part of the deliverables to provide essential information needed to put research results into practice



<https://abc-utc.fiu.edu/resources/abc-utc-guides/>

Featured ABC-UTC Guide:



ABC-UTC Guide for Integral Abutment Connections
[ABC-UTC-2013-C3-ISU02]

ABC-UTC Guides (<https://abc-utc.fiu.edu/>)

→   abc-utc.fiu.edu/resources/



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

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Resources

Project & Research

Databases

ABC-UTC Guides

State DOTs

Implemented Advanced
Technologies

Industry

TRB ABC Joint
Subcommittee

FHWA

SHRP2 Implementation

Resources

The ABC-UTC is a resource center for ABC-related materials. Links on the left menu provide extensive information:

- **Project & Research Databases.** The ABC-UTC is working in cooperation with FHWA, bridge owners, and other bridge professionals to accumulate available completed construction projects in which ABC technologies are used, for posting in the *ABC Project Database*; and also completed, ongoing, and proposed research projects investigating ABC technologies, for posting in the *ABC Research Database*.
- **ABC-UTC Guides.** A short document for each project as part of the deliverables to provide essential information needed to put research results into practice.
- **State DOTs.** ABC-related materials are available from a number of State DOTs.
- **Implemented Advanced Technologies.** Proprietary and non-proprietary innovations that have at least one project included in the *ABC Project Database* and have been presented in an *ABC-UTC monthly webinar* featured presentation are described in detail.
- **Industry.** The concrete, steel, and composites bridge industries are partners as ABC technologies are implemented nationwide.
- **TRB ABC Joint Subcommittee.** The focal point for Transportation Research Board (TRB) ABC activities

Informal Call for ABC Papers

2021 TRB Annual Meeting – Washington, D.C.

January 24-28, 2021

Sponsored by Transportation Research Board (TRB)

<http://www.trb.org>

TRB ABC Joint Subcommittee Call for Papers:

[ABC with Focus on Bridge Preservation Activities](#)

TRB Paper Submission Deadline: August 1, 2020

<http://www.trb.org/AnnualMeeting/AnnualMeeting.aspx>

Call for Award Nominations

2021 PCI Design Awards

Projects completed within the last three years
(no earlier than January 1, 2017)

Sponsored by Precast/Prestressed Concrete Institute

<http://www.pci.org>

Submission Deadline: August 18, 2020

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

For more information, contact:

William Nickas, WNickas@pci.org

Upcoming Events – June 2020

Free DBIA Webinars for University Students

Sponsored by the Design-Build Institute of America (<https://dbia.org>)

- **Project Delivery Fundamentals**
June 10, 2020 – 12:00-1:30 p.m. (slides available for download)
- **DB 101: Diving into Design-Build**
June 19, 2020 – 12:00-1:30 p.m.
- **Design-Build Teaming & Collaboration**
June 25, 2020 – 12:00-1:30 p.m.
- **Design-Build Teaming & Collaboration**
June 30, 2020 – 1:00-2:30 p.m.

For more information and to register:

<https://dbia.org/courses/webinars/>

Upcoming Events – July 2020

Free Webinar Series on Implementing AASHTO LRFD Article 5.13 on Anchoring to Concrete

Sponsored by **National Cooperative Highway Research Program (NCHRP** – <http://www.trb.org/NCHRP>), **American Association of State Highway and Transportation Officials (AASHTO** – <https://www.transportation.org>), and **Precast/Prestressed Concrete Institute (PCI** – <https://pci.org>)

Webinar	Date	Time
Anchor 1: Scope	Tues., July 7	2-4 p.m. EDT
Anchor 2: Design	Thurs., July 9	2-4 p.m. EDT
Anchor 3: Product Qualifications	Tues., July 14	2-4 p.m. EDT
Anchor 4: Selection and Procurement	Thurs., July 16	3-5 p.m. EDT
Anchor 5: Inspection and Compliance	Tues., July 21	3-5 p.m. EDT

For more information and to register: <https://pci.org/PCI/Education/Webinars>

Upcoming Events – July 2020

ASBI Grouting Certification Training

On-Demand Webinar: July 20-31, 2020

Segmental Construction Webinar Series

July 1, 8 & 15, 2020 – 1:00-3:00 p.m. EDT

Flexible Filler Certification Training by Webinar

July 7, 2020

Sponsored by Florida DOT, American Segmental Bridge Institute (ASBI) & Post-Tensioning Institute (PTI)

For more information and to register:

<https://www.asbi-assoc.org/index.cfm/events/upcoming-events>

Upcoming Event – August 2020

NSBA Webinar:

That's Not Fracture Critical: Classifying System Redundant Members

August 11, 2020 – 1:30-3:00 p.m. EDT

Sponsored by National Steel Bridge Alliance (NSBA)

<http://www.aisc.org/nsba>

Certificate for 1.5 PDHs will be sent to registered attendees

Speakers:

- Brian Kozy, Ph.D., P.E., FHWA
- Jamie Farris, P.E., Texas DOT
- Andrew Smith, P.E., Wisconsin DOT

More information to be posted soon at: www.steelbridges.org



Events

June 18, 2020

[Design and Construction of High-Capacity Micropiles in ABC Projects](#)

June 19, 2020

[DBIA Webinar for University Students: DB 101 - Diving into Design-Build](#)

June 25, 2020

[DBIA Webinar for University Students: Design-Build Teaming & Collaboration](#)

June 30, 2020

[DBIA Webinar for University Students: Jobs/Internships During COVID-19 - Support and Advice from Industry Leaders](#)

July 1, 2020

[ASBI Webinar Series, Part 1 of 3: Segmental Construction](#)

SEARCH

ENHANCED BY Google



UPCOMING EVENTS

June 18, 2020

[Design and Construction of High-Capacity Micropiles in ABC Projects](#)

June 19, 2020

[DBIA Webinar for University Students: DB 101 - Diving into Design-Build](#)

July 1, 2020

[ASBI Webinar Series, Part 1 of 3: Segmental Construction](#)

July 7, 2020

[FDOT/ASBI/PTI Webinar: Flexible Filler Certification Training](#)

July 7, 2020

[PCI Webinar Series, Part 1 of 5: Anchoring of](#)





Webinars

Monthly Webinars

**Monthly Webinar
Archives**

In-Depth Web Training

In-Depth Web Training
Archives

Research Seminar

Research Seminar
Archives

Research Day

Research Day Archives

Monthly Webinar Archives

The ABC Center at FIU has offered free monthly webinars since March 2011. The ABC-UTC is continuing this series and maintaining an archive of the past events. The intended audience of these webinars includes engineers and other bridge professionals with content ranging from design issues to construction and contracting. These webinars attract an average of 4,000 participants each month.

For listing of monthly webinars to date, [click here](#).

May 21, 2020

[Lateral Slide and UHPC Integral Abutment Connections on Iowa's 2019 Camp Creek Bridge Replacement](#)

April 16, 2020

[PennDOT's First SPMT Bridge Move: Shaler Street Bridge](#)

March 19, 2020



PennDOT's First SPMT Bridge Move: Shaler Street Bridge

April 16, 2020

Louis J. Ruzzi, P.E., District Bridge Engineer, District 11-0, PennDOT; **Matthew E. Cochran, P.E.**, Senior Structural Engineer, H.W. Lochner, Inc.; **Shane Szalankiewicz, P.E.**, Structure Control Engineer, District 11-0, PennDOT; and Q&A panel members: **Jason Zang, P.E.**, Assistant District Executive, Construction, PennDOT; **Bob Collins, P.E.**, Design Project Manager, PennDOT; **Jim McKnight**, Assistant Construction Manager, PennDOT; **Bob Yarup**, Project IIC, PennDOT; **Cary Basinger, P.E.**, Project Manager, Swank; **Dave Yeager**, Superintendent, Swank; **Chris West, P.E.**, Consultant Project Manager (Design), H.W. Lochner, Inc.; **Joe Primo**, Project Manager (Construction Management), Michael Baker International; **Aaron Pickering, P.E.**, Construction Engineer (Construction Management), Michael Baker International; **Christina Angelo, EIT**, Construction Engineering Technician (Construction Management), Michael Baker International; **Michelle Hinds, P.E.**, Scheduler, SAI Consulting Engineers, Inc.; and **Norm Arlet**, Inspector, SAI Consulting Engineers, Inc.

PennDOT's First SPMT Bridge Move: Shaler Street Bridge

Webinar Documents:

[PennDOT's First SPMT Bridge Move: Shaler Street Bridge](#) - pdf of presentation

Slide 19: [Animation of Shaler Street Bridge Construction](#) (*courtesy of H.W. Lochner, Inc.*)

Slide 31: [Time-Lapse, Shaler Street Bridge Construction](#) (*courtesy of H.W. Lochner, Inc.*)

Slide 32: [News Clip, 11/04/2019](#) (*courtesy of KDKA CBS Pittsburgh*)

[Q&A Session](#) – pdf

Reference for Question 24: [PennDOT Publication 408 - Section 704, Cement Concrete](#)

Reference for Question 24: [PennDOT Publication 408 - Section 1001, Cement Concrete Structures](#)

Reference for Question 29: [Contract Plans for Shaler Street Bridge Project](#)



Lateral Slide and UHPC Integral Abutment Connections on Iowa's 2019 Camp Creek Bridge Replacement

May 21, 2020

James S. Nelson, P.E., Director, Bridges & Structures Bureau, Iowa DOT; **Brent M. Phares, Ph.D., P.E.**, Director, Bridge Engineering Center, Iowa State University; and **Matt Erickson**, Engineer Associate, Iowa DOT

Lateral Slide and UHPC Integral Abutment Connections on Iowa's 2019 Camp Creek Bridge Replacement



Webinar Documents:

[Lateral Slide and UHPC Integral Abutment Connections on Iowa's 2019 Camp Creek Bridge Replacement](#) - pdf of presentation

[Q&A Session](#) – pdf

Reference for Question 6: [Iowa DOT Special Provisions for Prefabricated Bridge Superstructure Move](#)

Reference for Question 9: [Iowa DOT Special Provisions for Ultra High Performance Concrete](#)

Reference for Question 22: [FHWA Technote: Design and Construction of Field-Cast UHPC Connections](#)

[News - May 21, 2020](#) - pdf of presentation

ABC-UTC

Quarterly Research Seminar

Friday, July 31, 2020 – 1:00-2:00 p.m. Eastern

Synthesis of Available Methods for Repair of Prestress Girder Ends

Mohamed Moustafa, Ph.D., P.E., Principal Investigator; and **Azin Ghaffary, Ph.D.** Student, ABC-UTC / University of Nevada, Reno

Mark your Calendars!

ABC-UTC 2020 In-Depth Web Training

Design and Construction of Common ABC Technologies Using the 2018 AASHTO LRFD Guide Specifications for ABC

Tuesday, September 8, 11:00 a.m. to 3:00 p.m. EDT

Organizer & Presenter:

Michael P. Culmo, P.E., CHA Consulting, Inc.

1	11:00 a.m. E	Precast Concrete Full-Depth Deck Panels
2	11:40 a.m. E	Adjacent Modular Decked Beams
3	12:20 p.m. E	Prefabricated Substructures
4	1:00 p.m. E	Bridge Systems with Self-Propelled Modular Transporters (SPMTs)
5	1:40 p.m. E	Bridge Systems with Lateral Slides
6	2:20 p.m. E	Construction Specifications

Next Monthly Webinar



Thursday, July 23, 2020 – 1:00-2:00 p.m. Eastern

Featured Presentation

Deck Replacement of Vermont's I-89 Bridges with Weekend Closures

by

Kristin Higgins, P.E., State Bridge Engineer and Structures Program Manager, Vermont Agency of Transportation; **Eddie He, P.E.**, Technical Director, AccelBridge; and **John Whittaker**, Project Manager, Kubricky Construction Corp.

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