

Welcome to Monthly Webinar on Accelerated Bridge Construction

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

Sponsored by

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



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

May 21, 2020 – 1:00 p.m. to 2:00 p.m. Eastern



Today's Monthly Webinar



ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

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

by

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

Question and Answer

(15 minutes)

Please post your questions in the question box

Our Next Conference

2021 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:

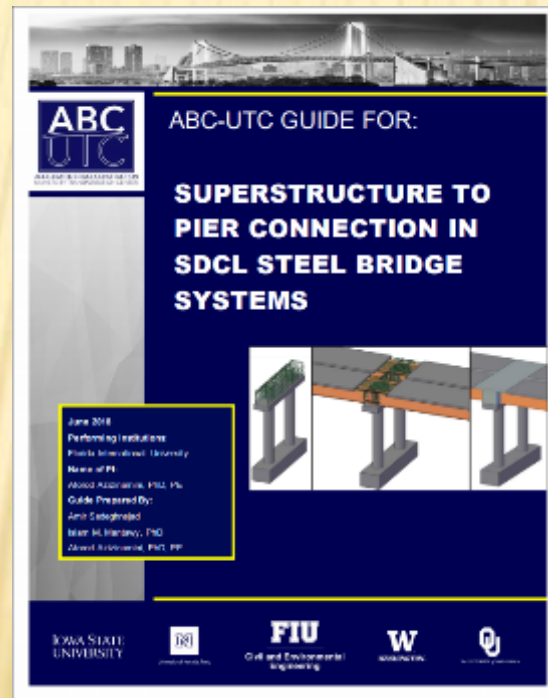
aazizina@fiu.edu

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 Guides:



ABC-UTC Guide for Superstructure to Pier Connection in SDCL Steel Bridge Systems [ABC-UTC-2013-C2-FIU04]

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

→   abc-utc.fiu.edu/resources/



ACCELERATED BRIDGE CONSTRUCTION
UNIVERSITY TRANSPORTATION CENTER

FIU

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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

Call for Abstracts

2021 World Steel Bridge Symposium – Louisville, KY

April 14-16, 2021

Sponsored by National Steel Bridge Alliance (NSBA)

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

Held in conjunction with AISC's NASCC: The Steel Conference

Submission Deadline: May 29, 2020

Abstracts: 500 words or less

<https://www.aisc.org/nsba/world-steel-bridge-symposium>

Call for Abstracts and Session Proposals

2021 Structures Congress – Seattle, WA

March 10-13, 2021

Sponsored by American Society of Civil Engineers (ASCE) /
Structural Engineering Institute (SEI)

<http://www.structurescongress.org/>

Submission Deadline: June 3, 2020

<https://2021.structurescongress.org/program/call-proposals>

Call for Award Nominations

2020 NCSEA Excellence in Structural Engineering Awards

[Eligible projects must be substantially complete between January 1, 2017 and June 30, 2020]

Sponsored by National Council of Structural Engineers Associations (NCSEA)

<http://www.ncsea.com>

Award Categories include:

- New Bridges or Transportation Structures
- Renovation/Retrofit/Rehabilitation Structures

Submission Deadline: July 14, 2020

<http://www.ncsea.com/awards/excellenceinstructuralengineeringawards/>

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 Site Opens: June 1, 2020

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



COMMITTEE ON BRIDGES AND STRUCTURES 2020 MEETING

Monday June 1st to Friday June 5th, 2020

Virtual Meeting

Register online
individually for
General Session
& Technical
Committees

[https://bridges.
transportation.org/](https://bridges.transportation.org/)

| COMMITTEE | CHAIR | DAY | TIME (EST) | REGISTER |
|------------------------------------|-----------------------|-----------|------------------------|-------------------------------|
| General Session | Carmen Swarwick | Monday | 9:00 a.m. – 11:00 a.m. | Register Link |
| T-8 Moveable Bridges | Zhengzheng "Jenny" Fu | Monday | 11:00 a.m. – 1:00 p.m. | Register Link |
| T-4 Construction | Cheryl Hersh Simmons | Monday | 1:00 p.m. – 3:00 p.m. | Register Link |
| T-2 Bearings/Exp Devices | Carl Puzey | Monday | 3:00 p.m. – 5:00 p.m. | Register Link |
| T-9 Bridge Preservation | Jim Nelson | Tuesday | 9:00 a.m. – 11:00 a.m. | Register Link |
| T-18 Bridge Mgmt, Eval, Rehab | Matthew Farrar | Tuesday | 11:00 a.m. – 1:00 p.m. | Register Link |
| T-5 Loads & Load Distribution | Jeff Robert | Tuesday | 1:00 p.m. – 3:00 p.m. | Register Link |
| T-12 Structural Supports | Sam Fallaha | Tuesday | 3:00 p.m. – 5:00 p.m. | Register Link |
| T-7 Guardrail & Bridge Rail | Timothy Keller | Wednesday | 9:00 a.m. – 11:00 a.m. | Register Link |
| T-10 Concrete Design | Kevin Western | Wednesday | 11:00 a.m. – 1:00 p.m. | Register Link |
| T-17 Metals Fabrication | Alexander Bardow | Wednesday | 1:00 p.m. – 3:00 p.m. | Register Link |
| T-3 Seismic Design | Richard Pratt | Wednesday | 3:00 p.m. – 5:00 p.m. | Register Link |
| T-19 Software & Technology | Ahmad Abu-Hawash | Thursday | 9:00 a.m. – 11:00 a.m. | Register Link |
| T-1 Bridge & Tunnel Security | Bernie Carrasco | Thursday | 11:00 a.m. – 1:00 p.m. | Register Link |
| T-14 Structural Steel Design | Tom Macioce | Thursday | 1:00 p.m. – 3:00 p.m. | Register Link |
| T-15 Substructures/Retaining Walls | Tony Allen | Thursday | 3:00 p.m. – 5:00 p.m. | Register Link |
| T-13 Culverts | Jason Hastings | Friday | 11:00 a.m. – 1:00 p.m. | Register Link |
| T-20 Tunnels | Lou Ruzzi | Friday | 1:00 p.m. – 3:00 p.m. | Register Link |
| T-11 Research | Anne Rearick | Friday | 3:00 p.m. – 5:00 p.m. | Register Link |

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)

Check the ASBI website for details on all these events:

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

Upcoming Events

ASBI 2020 Virtual Convention Event

October 28, 2020

Sponsored by American Segmental Bridge Institute (ASBI)

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

Details will be available soon

New Available Online Resource!

NSBA 2020 Basics of Steel Bridge Design Workshop Recordings & Handouts

Sponsored by National Steel Bridge Alliance (NSBA)

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

To access:

<https://www.aisc.org/bridge-workshop>

AISC link is also available on the ABC-UTC website:

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

For more information, contact Jeff Carlson:

carlson@steelbridges.org



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](#).

April 16, 2020

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

March 19, 2020

[Proprietary Products Regulation: FHWA Rescission and MaineDOT Implementation](#)

February 13, 2020



Proprietary Products Regulation: FHWA Rescission and MaineDOT Implementation

March 19, 2020

John Huyer, P.E., Contract Administration Engineer, FHWA Office of Infrastructure; and **Dale Peabody, P.E.**, Director of Research and Innovation, Maine Department of Transportation

Proprietary Products Regulation: FHWA Rescission and MaineDOT Implementation



Webinar Documents:

[Proprietary Products Regulation: FHWA Rescission and MaineDOT Implementation](#) - pdf of presentation

[Q&A Session](#) – pdf

[News - March 19, 2020](#) - pdf of presentation

Description: On September 27, 2019, the Federal Highway Administration (FHWA) published a Final Rule in the Federal Register rescinding its patented and proprietary product regulations at 23 CFR 635.411(a)-(e). Originally based on a 1916 federal requirement, these regulations have been rescinded to encourage innovation in the development of highway transportation technology and methods. Effective October 28, 2019, the Final Rule eliminates the requirements limiting the use of federal funds in paying for patented or proprietary materials, specifications, or processes. Certifications, Public Interest Findings, and Experimental Product Work Plans are no longer required for the use of proprietary products. With the elimination of the FHWA regulations, State DOTs

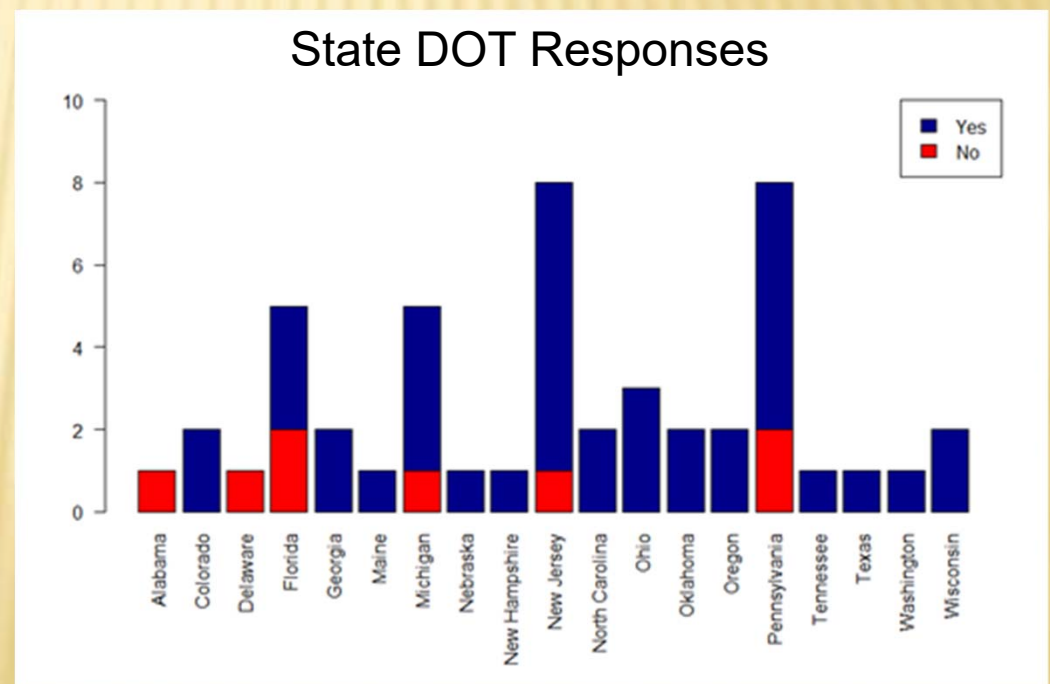


Proprietary Products Regulation: FHWA Rescission and MaineDOT Implementation

March 19, 2020

John Huyer, P.E., Contract Administration Engineer, FHWA Office of Infrastructure; and **Dale Peabody, P.E.**, Director of Research and Innovation, Maine Department of Transportation

Poll question:
*Does your agency
specify proprietary
products for
highway
construction?*





PennDOT's First SPMT Bridge Move: Shaler Street Bridge

April 16, 2020

Louis J. Ruzzi, P.E., District Bridge Engineer, PennDOT District 11-0; **Matthew E. Cochran, P.E.**, Senior Structural Engineer, H.W. Lochner, Inc.; **Shane Szalankiewicz, P.E.**, Structure Control Engineer, PennDOT District 11-0; and Q&A panel members **Jim McKnight, P.E.**, Assistant Construction Engineer, PennDOT; **Bob Yarup, P.E.**, Construction Inspector In Charge, PennDOT; **Aaron Pickering, P.E.**, Construction Management Team Member, Michael Baker International; and **Christina Angelo, P.E.**, Construction Management Team Member, CCS

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

[News - April 16, 2020](#) - pdf of presentation

Description: The 2019 Shaler Street Bridge Replacement Project in Pittsburgh, PA was PennDOT's first use of the Self-Propelled

ABC-UTC 2020 In-Depth Web Training

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

Next Monthly Webinar



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

Featured Presentation

Use 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

Mark your Calendars!

Today's Monthly Webinar



Featured Presentation:

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

by

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

Please post your questions in the question box