

Welcome to Monthly Webinar on Accelerated Bridge Construction

PennDOT's First SPMT Bridge Move: Shaler Street Bridge

Sponsored by

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



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

April 16, 2020 – 1:00 p.m. to 2:00 p.m. Eastern



Today's Monthly Webinar



ABC Announcements

(10 minutes)

Featured Presentation

(35 minutes)

PennDOT's First SPMT Bridge Move: Shaler Street Bridge

by

Louis J. Ruzzi, P.E., District Bridge Engineer, District 11-0, PennDOT; **Matthew E. Cochran, P.E.**, Senior Structural Engineer, H.W. Lochner, Inc.; and **Shane Szalankiewicz, P.E.**, Structure Control Engineer, District 11-0, PennDOT

Question and Answer

(15 minutes)

Please post your questions in the question box

Short video clip capturing highlights of 2019 Conference is now available in the archive section of our Conference web site; you can use the link below to view this short video clip

<https://abc-utc.fiu.edu/2019-national-accelerated-bridge-construction-conference/>



Our Next Conference

2021 Conference

December 8 – 10, 2021

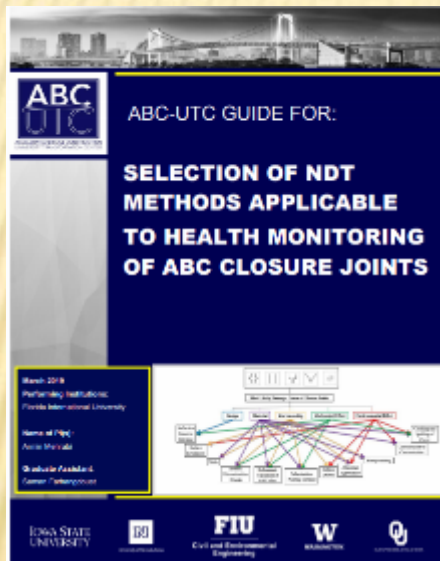
Miami, Florida

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 NDT Methods
Applicable to Health Monitoring of ABC
Closure Joints**

[ABC-UTC-2013-C3-FIU03]



**ABC-UTC Guide for Rebar Hinge Pocket
Connections, Hybrid Grouted Duct
Connections, and SDCL Steel Girder
Connections**

[ABC-UTC-2013-C3-FIU05]

Upcoming ABC-UTC Guides

- **ABC-UTC Guide for High-Speed Rail in Seismic and Non-Seismic Areas** [ABC-UTC-2016-C1-FIU04 and [ABC-UTC-2016-C1-UW02], [ABC-UTC-2016-C1-UW01], [ABC-UTC-2016-C1-UNR01], [ABC-UTC-2016-C1- FIU03]
- **Development of Non-Proprietary UHPC Mix** [ABC-UTC-2016-C2-OU01], [ABC-UTC-2016-C2-FIU01], [ABC-UTC-2016-C2-ISU01], [ABC-UTC-2016-C2-UNR01], [ABC-UTC-2016-C2-UW01]
- **Extending Maximum Length of the Folded Steel Plate Girder Bridge System (FSPGBS), Exceeding 100 ft. with Capability to Incorporate Camber** [ABC-UTC-2013-C3-FIU02]
- **Development of Guide for Selection of Substructure for ABC Projects** [ABC-UTC-2016-C1-FIU01]
- **ABC-UTC Guide for UHPC Shell Formwork** [ABC-UTC-2016-C1-FIU05]
- **Delivery Methods for Accelerated Bridge Construction Projects: Case Studies and Consensus Building** [ABC-UTC-2016-C1-ISU01]

Upcoming ABC-UTC Guides, cont'd.



- **Bidding of Accelerated Bridge Construction Projects: Case Studies and Consensus Building** [ABC-UTC-2016-C1-ISU02]
- **Accelerated Repair and Replacement of Expansion Joints** [ABC-UTC-2016-C1-ISU02]
- **Synthesis of Available Contracting Methods** [ABC-UTC-2016-C2-ISU03]
- **More Choices For Connecting Prefabricated Bridge Elements and Systems (PBES)** [ABC-UTC-2016-C1-UNR03]
- **Synthesis of Available Methods for Repair of Prestressed Girder Ends** [ABC-UTC-2016-C2-UNR02]

Published ABC-UTC Guides

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

Research Project #	ABC-UTC Guide
ABC-UTC-2016-C1-OU02	Assessing the Effects of Frequent, Low-Level Seismic Events
ABC-UTC-2013-C3-FIU03	NDT Methods Applicable to Health Monitoring of ABC Closure Joints
ABC-UTC-2013-C3-FIU04	Full-Depth Precast Concrete Deck Panels
ABC-UTC-2013-C3-FIU05	A Predictive Computer Program for Proactive Demolition Planning
ABC-UTC-2013-C3-ISU01	Development of Guidelines to Establish Effective and Efficient Timelines and Incentives for ABC
ABC-UTC-2013-C3-ISU02	Integral Abutment Connections
ABC-UTC-2013-C3-ISU03	Inspection and QA/QC for ABC Projects
ABC-UTC-2013-C3-UNR02	Rebar Hinge Pocket Connections, Hybrid Grouted Duct Connections, and SDCL Steel Girder Connections
ABC-UTC-2013-C2-FIU04	Superstructure to Pier Connection in SDCL Steel Bridge Systems
ABC-UTC-2013-C1-FIU05	Service Life Design of Longitudinal Deck Closure Joints

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

→   abc-utc.fiu.edu/resources/



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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

IRF Global R2T Conference – Houston, TX

November 10-13, 2020

Sponsored by International Road Federation (IRF)

<https://www.irf.global/>

Accelerated Bridge Construction – included in
Conference Track: “Road Safety: Toward Zero Deaths”

(Note: Paper not required)

Abstract (250-word max) Submission Deadline:

April 30, 2020

<https://www.irf.global/event/r2t20-houston/#tab-1-2-call-for-abstracts>

Upcoming Events

2020 Virtual World Steel Bridge Symposium

April 22-24, 2020

Sponsored by National Steel Bridge Alliance (NSBA)

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

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

Bridge track with 11 unique bridge sessions!

And it's **FREE!**

To register:

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

For more information, contact Jeff Carlson:

carlson@steelbridges.org

Upcoming Events

2020 Virtual World Steel Bridge Symposium Workshop: The Basics of Steel Bridge Design

- Parts 1 & 2: April 27-28, 2020
- Parts 3 & 4: May 4-5, 2020

Sponsored by National Steel Bridge Alliance (NSBA)

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

To register:

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

For more information, contact Jeff Carlson:

carlson@steelbridges.org

MEETING CANCELLED

AASHTO Committee on Bridges and Structures

ANNUAL MEETING

May 31–June 4, 2020

Branson Convention Center, Branson, Missouri



Meeting Update

Dear Committee on Bridges & Structures Attendees,

After careful consideration, the difficult decision has been made to cancel AASHTO's 2020 Committee on Bridges & Structures Meeting scheduled to begin on May 31 through June 4, in Branson, Missouri. The health and safety of our members, attendees, volunteers, staff and our host community is of utmost importance to AASHTO. Given the current environment and projected impact of the COVID-19 pandemic, we feel this is the right thing to do.

It is possible that the work of some committees may progress virtually, and that information will be shared with impacted members as plans are finalized.

We regret having to make this decision, as the Committee on Bridges & Structures Meeting has a long tradition of great opportunities for collaboration, information sharing, and relationship building within the State DOT community. We at AASHTO look forward with great anticipation to the time we can all be together again.

Please mark your calendars for 2021 AASHTO Committee on Bridges & Structures Meeting, July 11-15, 2021 in Indianapolis, Indiana at The Westin Indianapolis Hotel. I look forward to seeing you there, if not before. If you have any questions, please contact AASHTO's Director, Meeting & Member Services, [Monica Russell](#).

2020 IBC Postponed to Fall 2020

For updates, check back at:
<https://abc-utc.fiu.edu/events/>

THE 37TH ANNUAL The International Bridge Conference®

New Dates Coming Soon!

Due to the COVID-19 Crisis, the 2020 International Bridge Conference
has been POSTPONED until new dates in the Fall of 2020

Please check back frequently for NEW DATES!



Upcoming Events

ASBI 2020 Annual Convention and Committee Meetings – Austin, Texas

October 26-28, 2020

Sponsored by American Segmental Bridge Institute (ASBI)

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

Opening soon:

- Convention website
- Early Registration

ABC-UTC

Semi-Annual Research Day

Monday, April 27, 2020 – 10:30 am-4:00 p.m. Eastern

2020 Research Day 1



Register online at www.abc-utc.fiu.edu

ABC-UTC

Quarterly Research Seminar

Thursday, April 30, 2020 – 1:00-2:00 p.m. Eastern

**Rapid Retrofitting Techniques
for Induced Earthquakes**

by

Scott Harvey, Ph.D., P.E., Principal Investigator;
and **Sumangali Sivakumaran, M.S.** Student

ABC-UTC / University of Oklahoma

Register online at www.abc-utc.fiu.edu

Next Monthly Webinar



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

Featured Presentation

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

Mark your Calendars!

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