Welcome to Webinar on Accelerated Bridge Construction

Northeast Extreme Tee (NEXT) Beam with Rochester VT Case Study

Sponsored by

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

Website: abc-utc.fiu.edu
Email: abc@fiu.edu

February 15, 2018 – 1:00 p.m. to 2:00 p.m. Eastern
Today’s Webinar

ABC Announcements (10 minutes)
Featured Presentation (40 minutes)

Northeast Extreme Tee (NEXT) Beam with Rochester VT Case Study

Rita Seraderian, P.E., Executive Director, Precast/Prestressed Concrete Institute Northeast; Rob Young, P.E., Senior Project Manager, Structures Section, Vermont Agency of Transp.; Joe Carrara, President, J.P. Carrara & Sons, Inc.

Question and Answer (10+ minutes)

Please post your questions in the question box
2019

INTERNATIONAL ACCELERATED BRIDGE CONSTRUCTION CONFERENCE:
Including Automation, Service Life and Ultra High Performance Concrete (UHPC)

December 11-13, 2019
Miami, FL

www.abc-utc.fiu.edu
Call for Papers

ASCE Journal of Bridge Engineering – Special Online Collection of Accelerated Bridge Construction

Types of Papers that you can submit:

- Case Studies of unique ABC projects
- Technical papers contributing to ABC
- Technical Note - Short technical information
Call for Papers

ASCE Journal of Bridge Engineering – Special Online Collection of Accelerated Bridge Construction
Sponsored by American Society of Civil Engineers (ASCE)
https://www.asce.org/

Note: All papers submitted through this solicitation will undergo the standard journal peer review process. Accepted papers will be published in regular issues of the ASCE Journal as they are accepted and will be added to the special online collection.

Paper Submission Deadline: February 28, 2018
Guest Editor: Dr. Atorod Azizinamini

For questions, contact Chief Editor:
Dr. Anil K. Agrawal, jbe.agrawal@gmail.com

Submit papers online:
https://www.editorialmanager.com/jrnbeeng/
Call for Paper Abstracts

CAMX – The Composites and Advanced Materials Expo – Dallas, TX
October 15-18, 2018
http://www.thecamx.org

Sponsored by American Composites Manufacturers Association (ACMA) & Society for the Advancement of Material and Process Engineering (SAMPE)

Abstract Submission Deadline: March 2, 2018
https://www.thecamx.org/call-for-abstracts/

For more information, contact John Busel: jbusel@acmanet.org
Call for Presentation Abstracts

NCSEA 2018 Structural Engineering Summit – Chicago, IL
October 24-27, 2018
Sponsored by National Council of Structural Engineers Associations (NCSEA)
http://www.ncsea.com

Abstract: 500-word-maximum

Submission Deadline: March 30, 2018
http://www.ncsea.com/topics/abstracts_2018/
Call for Award Nominations

2018 Design-Build Project / Team Awards
Sponsored by the Design-Build Institute of America
http://www.dbia.org

- Completed and opened after March 31, 2015
- Completed under a single point of responsibility contract
- Completed on or ahead of schedule
- Completed within budget & with no claims or litigation
- Project met or exceeded owner expectations

Submission Deadline: May 23, 2018
https://www.dbia.org/awards/Pages/Project-Team-Awards.aspx
Upcoming Events

https://abc-utc.fiu.edu/
On behalf of your PCI Executive Committee, I'd like to invite you, and encourage you to attend the 2018 PCI Convention & National Bridge Conference. This year's convention will be held February 20-24, 2018, in Denver, Colo. where PCI will be partnering with The Precast Show for the third consecutive year! We're happy to say that this collaboration has been very successful from the start and continues to build. The larger tradeshow was an immediate draw but what we experienced last year was a big uptick in crossover participation of training offered by PCI and NPCA. In particular, there is now more opportunity for plant operations training than PCI members are accustomed to seeing.

PCI educational sessions are always an attractive feature of the convention and offer multiple tracks, depending on your area of interest. Whether you are looking for education in your current role, fulfilling continuing education requirements, or simply have an interest in other areas of the industry, there is likely a program for you. As with last year, there will once again be an opportunity to purchase a Full Conference registration giving you access to complimentary or discounted Precast Show education courses.
PCI Offers New eLearning Modules

Courses on Design and Fabrication of Precast, Prestressed Concrete Bridge Beams

The PCI eLearning Center is offering a new set of courses that will help an experienced bridge designer become more proficient with advanced design methods for precast, prestressed concrete flexural members. There is no need to enroll in and complete any of these new bridge courses. The courses are based on the content of the 1925-page PCI Bridge Design Manual, now available for free after registering with a valid email. While the courses are designed for an engineer with 5 or more years’ experience, a less experienced engineer will find the content very helpful for understanding concepts and methodologies.

Where applicable, the material is presented as part of a “real world” design of a complete superstructure example so that the student can see how actual calculations are completed according to the AASHTO LRFD specifications.

All courses on the PCI eLearning Center are completely FREE.

PCI eLearning Series T100 Courses

Preliminary Precast, Prestressed Concrete Design (T110)

Preliminary design is the first step in designing an economical precast, prestressed concrete bridge. This first course in the series on design presents the preliminary plan, superstructure, substructure, and foundation considerations, and member selection criteria with design tables and examples.

Materials and Manufacturing of Precast, Prestressed Concrete (T115)

This second course on design explores the constraints related to type, size, and method of manufacture. Materials control strength and durability characteristics. The manufacturers’ manufacturing capabilities are important conditions on design assumptions. Plant handling and transportation constraints need to be considered in design. This course presents the important initial information required before beginning design, enabling designers to take advantage of the flexibility and economy of precast, prestressed concrete products while avoiding pitfalls that could make solutions less cost effective.

Design Loads and Load Distribution (T120)

This third course on bridge design teaches one of the fundamental tasks of collecting information on permanent and transient loads that may act on a bridge and how these forces are distributed to the structural components. It presents the load types and load distribution provisions of the LRFD Specifications related to superstructure systems.

This web-based training course was developed by the Precast/Prestressed Concrete Institute (PCI) for the Federal Highway Administration (FHWA) through a contract with the American Association of State Highway and Transportation Officials (AASHTO).

Available at PCI.org

For questions, contact: William Nickas, P.E. WNickas@pci.org
ABC-UTC Advisory Committee

Industry Partners

- Riad Asfahani, U.S. Steel Corporation
- John Busel, American Composites Manufacturers Association (ACMA)
- Jeff Carlson, National Steel Bridge Alliance (NSBA)
- Reid Castrodale, Lightweight concrete rep.
- Randy Cox, American Segmental Bridge Institute (ASBI)
- Mike Culmo, CME Associates, Inc.
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- Bill Duguay, Associated General Contractors of America (AGC), rep.; J.D. Abrams, LP
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- William Nickas, Precast/Prestressed Concrete Institute (PCI)
- Eliza Partington, FIGG
- Maury Tayarani, Pennoni Associates Inc.
- Tom Zink, Gannett Fleming, Inc.

newest member
collectively will provide the transportation industry with the tools needed to effectively and economically utilize the principles of ABC to enhance mobility, and safety and produce safe, environmentally friendly, long-lasting bridges.

Read More

https://abc-utc.fiu.edu/
World Steel Bridge Symposium

For more information, contact:
Jeff Carlson
carlson@steelbridges.org
ABC-UTC
Quarterly Research Seminar
Friday, April 27, 2018 – 1:00-2:00 p.m. Eastern

Alternative ABC Connections
Utilizing UHPC
– Cap-to-Column Connections in Seismic and Non-Seismic Regions

Atorod Azizinamini, Ph.D., P.E., Principal Investigator
Mohamadreza Shafieifar, Ph.D. Student
ABC-UTC / Florida International University

Online Registration to open soon at:
http://abc-utc.fiu.edu/
Next Monthly Webinar
Thursday, March 15, 2018 – 1:00-2:00 p.m. Eastern

Featured Presentation

Construction Methodology for Alconétar Arch Bridges in Spain

by

Javier Martinez Gutierrez, Executive Director of ALE Heavylift, Naval Architect; Jordi Revoltos, M. Sc. Structural Engineer Head of Bridges and Viaducts Department, SENER

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