Welcome to Webinar on Accelerated Bridge Construction

Featured Presentation: Recent Durability Performance Results in Closure Joints of Modular Bridge Decks

Sponsored by

Center for Accelerated Bridge Construction (ABC) Center at Florida International University

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

December 15, 2011 – 1:00 p.m. to 2:00 p.m. Eastern
Webinar Agenda

ABC Announcements  (10 minutes)

Featured Presentation  (35 minutes)

**Recent Durability Performance Results in Closure Joints of Modular Bridge Decks**

Z. John Ma, Ph.D.
Associate Professor, Dept. of Civil & Environmental Engineering
University of Tennessee, Knoxville

Question and Answer  (15 minutes)

Please post your questions in the chat box
2011 Series on Full-Depth Precast Bridge Decks

Sept. 29  State-of-the-Art Full-Depth Precast Concrete Bridge Decks by Sameh Badie representing PCI & Ben Graybeal, FHWA

Oct. 11  Field-Cast UHPC Connections in Full-Depth Precast Bridge Decks by Ben Graybeal, FHWA
### 2011 Series on Full-Depth Precast Bridge Decks, cont’d.

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<th>Date</th>
<th>Topic</th>
<th>Speaker</th>
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<td>Nov. 17</td>
<td>Full-Depth Prefabricated Bridge Deck Options for Durability and Cost</td>
<td>Bruce Johnson</td>
<td>Oregon DOT</td>
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<td>Dec. 15</td>
<td>Recent Durability Performance Results in Closure Joints of Modular Bridge Decks</td>
<td>John Ma</td>
<td>University of Tennessee</td>
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If You Wish to receive One Hour PDH

Send an email to abc@fiu.edu

State that you attended the December 15, 2011 webinar

Give first and last name of everyone at your site who wishes to receive PDHs

Please do not send request to any other email account
2012 FHWA Accelerated Bridge Construction Conference

Minneapolis, MN
Latter part of 2012

The last FHWA ABC Conference was held in Orlando, Florida;
more than 700 attended
(www.fhwa.dot.gov/bridge/prefab/events.cfm)
FHWA Highways for LIFE / Every Day Counts Upcoming Events

Nevada DOT West Mesquite Interchange Showcase
Mesquite, Nevada
January 10-11, 2012

Southwest Region PBES Peer Exchange
Austin, Texas
February 7-9, 2012

Mid-North Region PBES Peer Exchange
Tentative: April 2012, Detroit

East Region PBES Peer Exchange
Tentative: May 2012, Boston
Upcoming ABC Events at TRB Annual Meeting

January 22-26, 2012 – Washington, DC


• Workshops – Sunday, January 22:
  • 170: SHRP2 ABC Projects in Action
  • 118: SHRP2 Management Strategies for Complex Projects (R10)

• Session 320 – Monday, January 23:
  • Presentation: Concrete-Filled Tubular FRP Arches for Rapidly Erected Bridges

• Session 407 – Monday, January 23:
  • Presentation: HfL Projects and ABC in Washington State
Upcoming ABC Events at TRB Annual Meeting, cont’d.
January 22-26, 2012 – Washington, DC

• Session 442 – Monday, January 23:
  • Presentation: First Fully Prefabricated Full-Depth Deck Panel Bridge System in Michigan: Challenges & Lessons Learned

• Session 475 – Tuesday, January 24:
  • Presentation: Innovative Application of FRP in ABC

• Session 476 – Tuesday, January 24:
  • Presentation: ABC & Innovative Contracting Techniques: Utah DOT's Experience with Engaging the Construction Industry to Create Technology Transfer Through FHWA's Every Day Counts
Upcoming ABC Events at TRB Annual Meeting, cont’d.

January 22-26, 2012 – Washington, DC

- Session 656 – Tuesday, January 24:
  • Presentation: Sustainability Through ABC: Case Study

- Session 775 – Accelerated Construction: A Look at Today and Tomorrow
  Co-sponsored by FHWA Highways for LIFE & TRB Design & Const. Group

  Wednesday, January 25
  • Benefits of a Culture of Innovation that Supports Accelerated Construction
  • Benefits, Challenges, and Successes of Accelerated Construction: 2011 MassDOT “Fast14” Project Case Study
  • Benefits, Challenges, and Successes of Accelerated Construction: Iowa Highway-18 Project Case Study
  • Future of Accelerated Construction
Upcoming Industry Events

2012 Structures Congress, Chicago
March 29-31, 2012
Sponsored by Structural Engineers Institute (SEI) of ASCE:
http://content.asce.org/conferences/structures2012/
• ABC's of Rapid Construction Session – Thursday, March 29

2012 World Steel Bridge Symposium, Dallas
April 18-19, 2012
Sponsored by National Steel Bridge Alliance (NSBA)
http://steelbridges.org/WSBS
Sessions on Wednesday, April 18:
• B2 – Accelerated Bridge Construction: Lessons Learned
• B3 – The New Lake Champlain Bridge
• B4 – Orthotropic Steel Decks
Upcoming Industry Events

2012 National Bridge Conference, Nashville
September 29 – October 3, 2012
Sponsored by Precast/Prestressed Concrete Institute (PCI)
http://www.pci.org
• Abstracts due February 6, 2012
  Submit abstracts electronically at
  https://www.softconf.com/c/PCI2012
FHWA ABC Website
http://www.fhwa.dot.gov/bridge/abc
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What is ABC?

ABC is a paradigm shift in the project planning and procurement approach where the need to minimize mobility impacts which occur due to onsite construction activities are elevated to a higher priority.

Intrinsic benefits of the ABC approach include improvements in:

- Safety
- Quality
- Durability
FHWA ABC Website
http://www.fhwa.dot.gov/bridge/abc

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Intrinsic benefits of the ABC approach include improvements in:
- Safety
- Quality
- Durability
- Social costs and
- Environmental impacts.

Prefabricated Elements & Systems
Case Studies of completed ABC/PBES projects are being developed.

If you have a candidate project that you would like FHWA to consider, contact:
Mary Lou Ralls, P.E.
Email: ralls-newman@sbcglobal.net
Phone: 512-422-9080

Reference materials: contract plans, specifications, bid tabs, construction schedule, photos, articles, etc.
FHWA ABC Website
http://www.fhwa.dot.gov/bridge/abc
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Prefabricated Bridge Elements and Systems Presentations

- Participant's Workbook | Download for use with the 12 PBES modules below [16 MB]
- Intro PBES for ABC
  - html version
  - Powerpoint Version (11,902 KB)
- ABC: the Keys to Success from an Owners Perspective
Technical Review Activity

Report recommendations are under review by FHWA & AASHTO Technical Committee for Construction, T-4:

• NCHRP Report 681, *Development of a Precast Bent Cap System for Seismic Regions (NCHRP 12-74)*

• NCHRP Web-Only Document 173, *Cast-in-Place Concrete Connections for Precast Deck Systems (NCHRP 10-71)*

Provide your comments to:

Benjamin Beerman, FHWA
Benjamin.Beerman@dot.gov
by December 31, 2011
Industry Resources

For calendar of upcoming concrete and bridge events, see:
http://www.nationalconcretebridge.org/calendar.html

For resources related to steel bridges, visit:
http://www.steelbridges.org
ABC Center Annual Meeting

• December 2, 2011 meeting, FIU campus, Miami

• Attendees included representatives from AASHTO SCOBS, State DOTs, industry, academia, & consultants

• Outcomes: Future ABC Center Activities

• Meeting minutes and presentations will be posted on the ABC Center website
Next Webinar

Tuesday, January 17, 2012 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

Everyday Solutions: ABC Standard Designs from SHRP2

by Bala Sivakumar, Co-PI, SHRP2 R04

To register, visit

www.abc.fiu.edu
If You Wish to receive One Hour PDH

Send an email to

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State that you attended the December 15, 2011 webinar

Give first and last name of everyone at your site who wishes to receive PDHs