Welcome to Webinar on Accelerated Bridge Construction

Featured Presentation: Everyday Solutions: ABC Standard Designs from SHRP2

Sponsored by

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

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

January 17, 2012 – 1:00 p.m. to 2:00 p.m. Eastern
Featured Presentation:
Everyday Solutions: ABC Standard Designs from SHRP2

Co-Sponsored by
Strategic Highway Research Program 2 (SHRP2)
Webinar Agenda

ABC Announcements (10 minutes)

Featured Presentation (35 minutes)

Everyday Solutions: ABC Standard Designs from SHRP2

Bala Sivakumar, P.E., Co-Principal Investigator, SHRP2 R04 Vice President of Special Bridge Projects, HNTB

Question and Answer (15 minutes)

Please post your questions in the chat box
If You Wish to receive One Hour PDH

Send an email to

abc@fiu.edu

State that you attended the January 17, 2012 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 Regional P2P exchanges

Southwest Region
Austin, Texas
February 7-9, 2012

Mid-North Region
Tentative: April 2012, Detroit

East Region PBES
Tentative: May 2012, Boston

Mid-West Region
Date TBD, Washington

South-East Region
Date & Location TBD
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 International Bridge Conference, Pittsburgh
June 10-13, 2012
Sponsored by Engineers’ Society of Western Pennsylvania (ESWP)
http://www.eswp.com/bridge/

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

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.
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http://www.fhwa.dot.gov/bridge/abc

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Prefabricated Bridge Elements and Systems

What is PBES?
PBES are structural components of a bridge that are built offsite, or near-site of a bridge and include features that reduce the onsite construction time and the mobility impact time that occurs when building new bridges or rehabilitating or replacing existing bridges relative to conventional construction methods.

• **PBES Definitions**

How Does It Work?

How Does PBES Impact ABC?
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
FHWA ABC Website
http://www.fhwa.dot.gov/bridge/abc
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

For composite products in ABC infrastructure applications, visit:
http://www.acmanet.org/dac/tsc.cfm
Next Webinar

Thursday, February 16, 2012 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

Part 2 – Everyday Solutions: Application of SHRP2-developed Tools in Case Studies

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
abc@fiu.edu

State that you attended the January 17, 2012 webinar

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