

**Welcome to Webinar on**  
**Accelerated Bridge Construction**

**Featured Presentation: A Planning Phase  
Decision Tool for Accelerated Bridge  
Construction**

**Sponsored by**

*Center for Accelerated Bridge Construction*

*(ABC) Center at*

**Florida International University**



**Website: [abc.fiu.edu](http://abc.fiu.edu)**

**Email: [abc@fiu.edu](mailto:abc@fiu.edu)**

**August 25, 2011 – 1:00 p.m. to 2:00 p.m. Eastern**

# Webinar Agenda

**ABC Announcements** (10 minutes)

**Featured Presentation** (35 minutes)

**A Planning Phase Decision Tool for ABC**

Benjamin Tang, P.E., Preservation Managing Engineer, Bridge Engineering Section, Technical Services, Oregon DOT  
[Co-author: Toni Doolen, Ph.D., Oregon State University]

**Question and Answer** (15 minutes)

**Please email your questions to [abc@fiu.edu](mailto:abc@fiu.edu)**



# Past Events



## MassDOT Fast 14 Showcase

July 16-17, 2011

- 14 bridges on I-93 replaced in summer 2011
- Innovative technologies include ABC, PBES, D/B, & I/D
- 2-day event: field trip to construction site & 1-day workshop with presenters from MassDOT, FHWA & project contractors

For details, see:

<http://93fast14.dot.state.ma.us/>

<http://fastlane.dot.gov/2011/07/fast-14-project-a-stunning-demonstration-of-american-innovation.html>

# Past Events

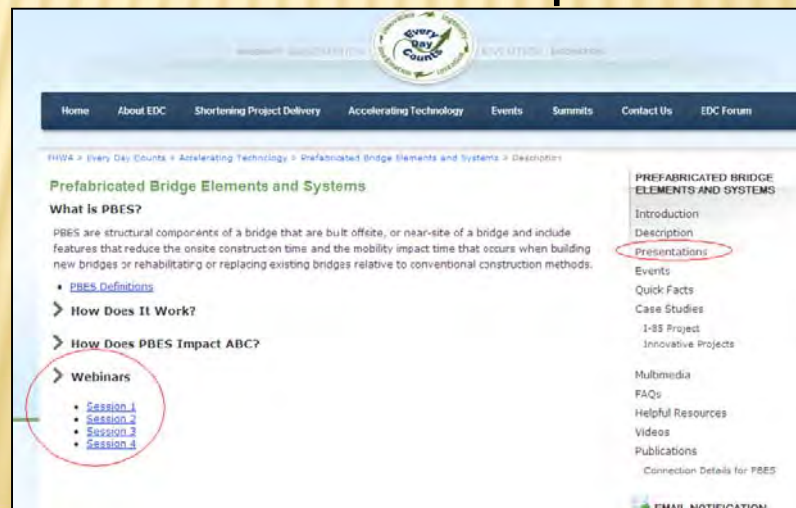


## FHWA ABC/PBES 2-Day Webinar Training 12 Training Modules on ABC/PBES August 16-17 , 2011

- Audio recordings of the webinar series

<http://www.fhwa.dot.gov/bridge/abc/prefab.cfm>

- Participants Workbook – will be uploaded soon!





# Upcoming Events

(<http://www.fhwa.dot.gov/bridge/abc/events.cfm>)



**SHRP2 / HfL Iowa ABC/PBES Showcase**  
October 20, 2011 (Tentative)

HfL website:

<http://www.fhwa.dot.gov/hlf>

SHRP 2 website:

<http://apps/trb.org/cmsfeed/TRBNetProjectDisplay.asp?ProjectID=3123>



# Upcoming Events

(<http://www.fhwa.dot.gov/bridge/abc/events.cfm>)

**Meeting the Implementation Challenges of Accelerated Bridge Construction on Interstate 93 Webinar**

October 20, 2011

**PCI National Bridge Conference, Salt Lake City**

October 22-26, 2011 (Committee meetings earlier in week)

**FHWA ABC National Conference**

Minneapolis, MN

Latter part of 2012



# University Nevada Reno - Test Matrix

## Next Generation Bridge Details for ABC

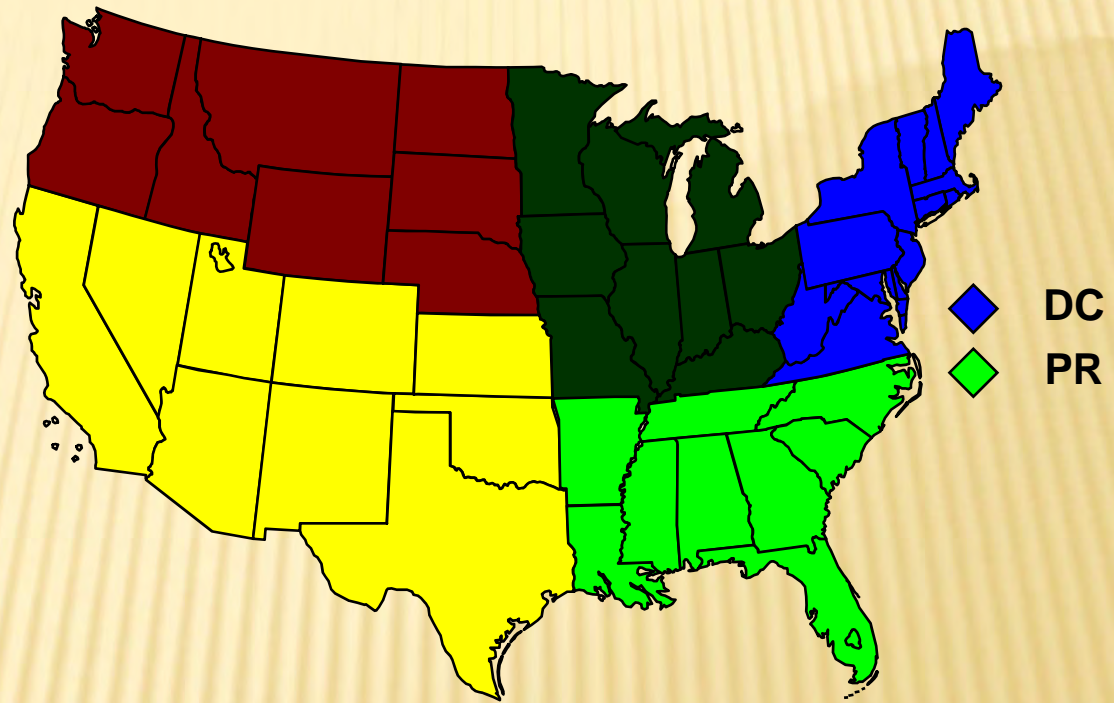
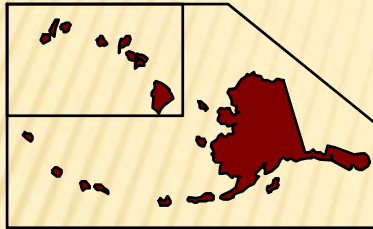
| <u>Model ID</u> | <u>Coupler Type</u> | <u>Partial Pedestal</u> |
|-----------------|---------------------|-------------------------|
| 1. CIP          | None                | None/Baseline           |
| 2. HCNP         | HRC 500             | No                      |
| 3. HCPP         | HRC 500             | Yes 08/25/2011          |
| 4. GCNP         | NMB Sleeve          | No                      |
| 5. GCPP         | NMB Sleeve          | Yes                     |

More information can be obtained at the address below:

<http://wolfweb.unr.edu/homepage/saiidi/caltrans/nextgen.html>

# ABC/PBES

## Peer-to-Peer Exchanges



### Schedule:

- 2 in 2011
- 3 in 2012





## Accelerated Bridge Construction



### Project Planning



Decision Making Framework

Environmental Process

Innovative Contracting

Right-of-Way/Utilities

### Foundation and Wall Elements



Continuous Flight Auger Piles

Geosynthetic Reinforced Soil (GRS) Integrated Bridge System

### Rapid Embankment Construction



EPS Geofoam

### Prefabricated Bridge Elements & Systems



Prefabricated Elements

Prefabricated Systems

### Structural Placement Methods



Self-Propelled Modular Transporters (SPMTs)

Longitudinal launching

Horizontal sliding or skidding

Other heavy lifting equipment & methods

Sign up to receive ABC Notices | Events

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

# Next Webinar

Thursday, September 29, 2011 (1:00 – 2:00 p.m. Eastern)

**Featured Presentation**

*State-of-the-Art  
Full-Depth Precast Concrete Bridge Decks*

To register, visit

**[www.abc.fiu.edu](http://www.abc.fiu.edu)**

for instructions



# 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>**

# If You Wish to receive One Hour PDH

Send an email to

[abc@fiu.edu](mailto:abc@fiu.edu)

State that you attended the August 25, 2011 webinar

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