

**Welcome to Webinar on  
Accelerated Bridge Construction**

**Lateral Slide of Historic Bridge in  
Washington State**

**Sponsored by**

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

**Florida International University**



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

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

**September 16, 2014 – 1:00 p.m. to 2:00 p.m. Eastern**

# Webinar Agenda

**ABC Announcements** (10 minutes)

**Featured Presentation** (35 minutes)

## **Lateral Slide of Historic Bridge in Washington State**

**Brenden Clarke, P.E., Design-Build Manager, WSDOT; and Kevin Dusenberry, S.E., Structures Lead Engineer, Jacobs**

**Question and Answer** (15 minutes)

**Please post your questions in the chat box**

# **2014 National Accelerated Bridge Construction Conference**

**December 4-5, 2014**  
**December 3 – workshops**

**Hyatt Regency, Miami, Florida**



**[www.2014abc.fiu.edu](http://www.2014abc.fiu.edu)**

# 2014 National Accelerated Bridge Construction Conference

**Early Bird Registration Deadline is extended to Friday September 19**



# ABC Conference Awards

- **ABC Award Categories:**
  - **Best ABC Project**
  - **Most Influential Person**
- **Award criteria and nominations forms are available on conference website ([www.2014abc.fiu.edu](http://www.2014abc.fiu.edu))**
- **Nominations are due September 30**

# **Hotel Reservations**

- **Additional room block is available at Hyatt Regency Coral Gables, located about 15 minutes from conference site. Free transportation is available. Please visit hotel page of the conference web site for details**

**[www.2014abc.fiu.edu](http://www.2014abc.fiu.edu)**

# **Additional Information**

**Please visit [www.2014abc.fiu.edu](http://www.2014abc.fiu.edu) to:**

- Register online**
- For exhibiting and list of exhibitors to date, visit Conference web site**

# **In-Depth Webinar Series**

## **MassDOT's 93FAST14 Project**

**November 4, 2014**

**11:00 a.m. to 3:00 p.m. Eastern**

**Six 40-minute modules**

# In-Depth Webinar Series

## Nov 4, 11:00 a.m. to 3:00 p.m.

Module	Presenter	Module Title w/ example topics
1	<p><b>Tom Donald, P.E.</b> Director of Bridge Project Management, MassDOT 857-368-0311 Thomas.Donald@state.ma.us</p>	<p><b>Introduction</b></p> <ul style="list-style-type: none"><li>• MassDOT's Accelerated Bridge Program</li><li>• Overview of 14 bridge replacements in 10 weeks</li><li>• Decision to use Design Build</li><li>• Post-construction inspection and performance</li></ul>
2	<p><b>Mike Culmo, P.E.</b> Vice President, Transportation &amp; Structures, CME Associates, Inc. 860-290-4100 culmo@cmeengineering.com</p>	<p><b>Planning and Preliminary Design</b></p> <ul style="list-style-type: none"><li>• History of project development</li><li>• Project priorities</li><li>• Decision for use of ABC vs conventional construction</li><li>• Cost implications of ABC vs. Conventional</li><li>• Overall project timeline / schedule</li><li>• Prefabrication options and preliminary design approach</li><li>• Preliminary Substructure Analysis</li><li>• Performance specification for closure pours</li><li>• Roles and responsibilities</li></ul>

# In-Depth Webinar Series

## Nov 4, 11:00 a.m. to 3:00 p.m.

<p><b>3</b></p>	<p><b>Joe Gill, P.E.</b> President, Gill Engineering 781-657-9051 direct 508-509-3656 cell jgill@gill-eng.com</p>	<p><b>Design Details – Substructure Rehabilitation</b></p> <ul style="list-style-type: none"><li>• Design requirements</li><li>• Substructure analysis<ul style="list-style-type: none"><li>○ Issues with applying LRFD to existing substructure</li><li>○ Rational approach used</li></ul></li><li>• Bearing seat modifications<ul style="list-style-type: none"><li>○ Requirements for shallower beams</li><li>○ Different beam spacing</li><li>○ Shoring and beam end removal for beam seat modifications</li></ul></li><li>• Abutment modifications<ul style="list-style-type: none"><li>○ Use of approach slabs as dead-men</li></ul></li></ul>
<p><b>4</b></p>	<p><b>Joe Gill, P.E.</b></p>	<p><b>Design Details – Superstructure Replacement</b></p> <ul style="list-style-type: none"><li>• Design requirements<ul style="list-style-type: none"><li>○ No real design differences</li><li>○ Designed as simple spans with link slabs</li><li>○ Minimize beam depth to improve vertical clearance</li></ul></li></ul>

# In-Depth Webinar Series

- Complications associates with large  
skews
- Diaphragms
  - Minimize the number of diaphragms
  - Use of diaphragms on closure pour  
bays
- Cast-in-place barriers
  - Why not precast?
  - Use of shoulders for work zone.
- Construction issues
  - Crane picks controlled most sites
  - Minimize weight on PBUs
- Closure pour issues
  - High early strength
  - Control of shrinkage to minimize  
cracking
  - Details and reinforcing
  - Design for interim strength
- Link slab design – jointless deck
- Slab details at abutments
- Diaphragms
- Bearing layout and design
  - Floating Bridge Concept
  - Use of sliding bearings to control  
seismic forces
- Deck protection – HMA and waterproofing  
vs. exposed deck

# In-Depth Webinar Series

## Nov 4, 11:00 a.m. to 3:00 p.m.

<p><b>5</b></p>	<p><b>Kevin Lampron, Jr, P.E.</b> Area Manager, J.F. White Contracting Company 617-558-0425 office 617-799-3091 cell klampron@jfwhite.com</p>	<p><b>Preliminary Construction Planning</b></p> <ul style="list-style-type: none"><li>• Minimum required information</li><li>• Contractor experience requirements</li><li>• Innovative contracting strategies</li><li>• Timeline and schedule</li><li>• Plans</li><li>• Specifications</li><li>• Incident management strategies</li></ul>
<p><b>6</b></p>	<p><b>Kevin Lampron, Jr, P.E.</b></p>	<p><b>Construction</b></p> <ul style="list-style-type: none"><li>• Contractor options</li><li>• Site access / location constraints</li><li>• Construction timeline / schedule</li><li>• Quality Control / Construction inspection</li></ul>

**In-Depth Webinar Series**  
**Nov 4, 11:00 a.m. to 3:00 p.m.**

## **Registration Process**

- 1- Visit [www.abc-utc.fiu.edu](http://www.abc-utc.fiu.edu)**
- 2- Select In-Depth Webinar Option**
- 3- Walk through the steps**
- 4- Cost is \$95 per site  
for all six 40-minute modules**

# **Automated Procedure Issuing PDH Certificate**

Procedure is automated!

# Upcoming 2014 Event

## **PCI Webinar: *Designing High Performance Transportation Structures with Precast***

**Presenter:** William Nickas, P.E., Managing Director of Transportation Systems, PCI

Sponsored by Precast/Prestressed Concrete Institute (PCI)

<http://www.pci.org>

Tuesday, September 23, 2014 – 3:00 pm Eastern

**Register:**

<https://www2.gotomeeting.com/register/129665386>

Thursday, September 25, 2014 – 12:00 pm Eastern

**Register:**

<https://www2.gotomeeting.com/register/596751306>

# Upcoming 2015 Event

## **32<sup>nd</sup> Annual International Bridge Conference**

**– Pittsburgh, PA**

June 7-11, 2015

Sponsored by Engineers' Society of Western PA (ESWP)

<http://www.eswp.com/bridge/>

Suggested topics include Accelerated Bridge Construction

### **Call for Paper Abstracts:**

Deadline for submission: October 1, 2014

<https://eswpregpage.com/bridgeCFP.aspx>

### **Call for Workshops:**

Deadline for submission: December 5, 2014

<http://www.eswp.com/bridge/workshops.htm>

**Please visit  
[abc-utc.fiu.edu](http://abc-utc.fiu.edu)**

**for other ABC-related news and  
events**

# Next Webinar

Thursday, October 16, 2014 (1:00 – 2:00 p.m. Eastern)

**Featured Presentation**

## **Accelerated Bridge Construction in Pennsylvania**

**by**

**Lou Ruzzi, P.E., District Bridge Engineer,  
PennDOT; and Nikki Bedillion, P.E., Senior  
Associate, Johnson, Mirmiran & Thompson, Inc.**

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