

**Welcome to Webinar on
Accelerated Bridge Construction**

**Colorado Flyover Ramp Showcases
Precast Pier Caps and Curved
Spliced Precast U-Girders**

Sponsored by

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

Florida International University



Website: abc-utc.fiu.edu

Email: abc@fiu.edu

December 18, 2014 – 1:00 p.m. to 2:00 p.m. Eastern

Today's Webinar

ABC Announcements (10 minutes)

Featured Presentation (35 minutes)

Colorado Flyover Ramp Showcases Precast Pier Caps and Curved Spliced Precast U-Girders

**Mansour Mike Mohseni, P.E., Proj. Mgr., Bridge
Design, CDOT; Ken Saindon, P.E., S.E., Proj.
Mgr., Atkins; & Clint Krajnik, P.E., S.E., TSH**

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 – Nine (9) workshops

Hyatt Regency, Miami, Florida



www.2014abc.fiu.edu



Business Life Cycles

- **Notes:**
 - Strength of construction for professional and general contractors
 - Construction activity in construction
 - Construction activity during expansion or replacement of structures and facilities
 - More investment in research
 - More activity in design
 - Increased activity in all

Business Life Cycles

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Example Bridge – Discontinuous CFs Results

Results:

- Maximum cross-frame force reduced from -336 kips (for contiguous case) to -272 kips (for discontinuous case) in cross-frames framed into interior piers
- Assume unguided elastomeric pads at each support with a longitudinal and transverse stiffness of 360 kips/foot. Provide shear keys for extreme event lateral forces

Maximum cross-frame force further reduced from
to -175 kips





Before we begin/after

....knowing what you know about UHPC - how
viable/practical do you think UHPC for PBE
s would be in your state?




HYATT
REGENCY





- 
- **26 State DOT co-sponsors**
 - **Over 750 attendees, including >150 bridge engineers from owner agencies**
 - **Travel scholarships for 90 bridge engineers from State DOTs**
 - **9 pre-conference workshops**
 - **170 technical presentations**
 - **54 exhibitors**
 - **Best ABC Project Bridge awards (4)**
 - **Most influential person**



2015 National Accelerated Bridge Construction Conference

December 7-8, 2015

Sunday, December 6 – Pre-Conference Workshops

Hyatt Regency, Miami, Florida

Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

Workshop 124: Accelerated Bridge Construction

Sponsored by TRB AFF10(3) ABC Subcommittee; AFF10; AFF20; AFF30; AFH40 – Sunday, January 11, 2015

- SHRP2 R04 Rapid Renewal Update
- Kentucky Transportation Cabinet: Route 6 over Stewarts Creek
- Caltrans: Ft. Goff Creek Bridge
- Maine DOT: Kittery Overpass Bridge
- Eastern Federal Lands Highway Division: Seney NWR Bridge
- Tappan Zee Bridge and Prefabrication

Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

Workshop 162: Low Volume Road Bridges–Critical Issues

*Sponsored by TRB AFB30, Low-Volume Roads; & AFH40,
Construction of Bridges and Structures* – Sunday, January 11, 2015

- Accelerated Bridge Construction Options for Low-Volume Roadway Bridges
- Use of GRS-IBS (Geosynthetic Reinforced Soil-Integrated Bridge System) Abutment Technology on Low-Volume Roads

Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

Session 346: Case Studies on Use of Buried Structures for Accelerated Bridge Construction

***Sponsored by TRB AFS40, Subsurface Soil-Structure Interaction; &
AFF70, Culverts and Hydraulic Structures – Monday, January 12, 2015***

- Considerations and Case Studies for Buried Bridges Used for Staged Construction
- Accelerated Box Bridge Construction
- Buried Bridge Best Practices for Accelerating Construction
- Case Study on Use of Buried Bridge for Rapid Construction in Ohio

Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

Session 498: Best Practices for Implementation of Accelerated Bridge Construction

*Sponsored by TRB AFF10(3) ABC Subcommittee; AFF10;
AFF30 – Tuesday, January 13, 2015*

- Full-Scale Implementation and Testing of Full-Depth Precast Bridge Deck Panels
- Systematic Development, Implementation, and Deployment of Prefabricated Bridge Elements & Systems
- Experimental Evaluation of Prefabricated Deck Panel Connections

Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

ABC Subcommittee Meeting, AFF10(3)

– Tuesday, January 13

AFF10(3) website is open for “Friend of the Committee”
registration:

<http://www.trbaff103.com/>

For more information, contact Ben Beerman:

Benjamin.Beerman@dot.gov

Upcoming Events

2015 ASCE/SEI Structures Congress – Portland, OR

April 23-25, 2015

Sponsored by ASCE/Structural Engineering Institute (SEI)

<http://www.seinstitute.org/>

Online Registration now open:

<http://structurescongress.org/registration/>

Session 19: Accelerated Bridge Construction

Track: Bridge Research Topics

2015 ASCE/SEI Structures Congress – Portland, OR

April 23-25, 2015

Session 19: Accelerated Bridge Construction

Track: Bridge Research Topics

Date: Friday, April 24, 2015

Time: 3:30 - 5:00 pm

Moderator: Atorod Azizinamini

Accelerated Bridge Construction of Column to Pile-Shaft Connections in Moderate and High Seismic Zones – ABC-UTC/UNR

Extending Accelerated Bridge Construction Practices to Bridge Rehabilitation – ABC-UTC/ISU

Innovative Steel Bridge Systems for ABC Applications – ABC-UTC/FIU

Analysis and Monitoring of Southington I-84 Bridges during Accelerated Bridge Construction – Streere Engineering Inc.

Available Resources for Consultants to Utilize ABC – ABC-UTC

Upcoming Events

7th Australian Small Bridges Conference – Melbourne

November 25-26, 2015

Sponsored by CommStrat Australia

<http://www.smallbridgesconference.com>

Call for Abstracts Deadline: January 30, 2015

Google: 7th Australian Small Bridges Conference

AMERICAN CONCRETE INSTITUTE 2015 EXCELLENCE IN CONCRETE CONSTRUCTION AWARDS

Open to all entries that have won at a local level through an ACI Chapter and will be submitted by the Chapter

Projects must consist of new construction completed within 36 months of the submission deadline

Call for Entries Deadline: February 15, 2015

Google: [ACI 2015 Excellence in Concrete Construction Awards](#)

Automated Procedure for Issuing Certificates of Attendance

Procedure is automated!

**Please visit
abc-utc.fiu.edu**

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

Next Webinar

Thursday, January 22, 2015 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

Detailing of ABC Bridges for Simplicity and Durability

by

**Michael P. Culmo, P.E.,
Vice President of Transportation and Structures,
CME Associates, Inc., East Hartford, CT**

To register, visit: www.abc-utc.fiu.edu

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