



MEETING AGENDA

342 - Evaluation of Concrete Bridges and Bridge Elements ACI Fall Convention 2019

Meeting Schedule: Sunday October 20, 2019 (8:30 AM-10:30 am)
Duke Energy Convention Center C-230 (Cincinnati, OH)

Mission: Develop and report information on evaluation of concrete bridges and bridge elements.

Goals: The committee seeks to provide guidance related to existing concrete bridges for professionals in the areas of bridge evaluation, inspection, and testing. With this charge, the committee aims to advance the state of the art of concrete bridge and bridge element evaluation through: 1) developing technical sessions; 2) developing Special Publications; and 3) disseminating committee expertise through technical document development.

Committee Members (Voting)

Devin Harris – University of Virginia (Chair)	Mohamed Mahgoub – New Jersey Institute of Technology
Nestor Rubiano – HNTB Corporation (Secretary)	Bruno Massicotte – Ecole Polytechnique Montreal
Om Dixit - Dixit Consultants LLC	John Myers – Missouri S&T
Ben Dymond – University of Minnesota Duluth	Rita Oglesby
Mohamed ElBatanouny – Wiss, Janney, Elstner Associates, Inc	Pinar Okumus – University of Buffalo
Andrew Foden – Parsons Brinckerhoff	Larry Olson – Olson Engineering Inc.
Andre Garner – Garner Consulting Group	Johan Silfwerbrand – KTH Royal Institute of Technology
Brock Hedegaard – University of Wisconsin	Mark Williams – Walter P Moore
Riyadh Hindi – St. Louis University	
Jimmy Kim – University of Colorado Denver	
Eva Lantsoght – Universidad San Francisco de Quito	

1. Administrative
 - 1.1. Introductions
 - 1.1.1. New Members
 - 1.2. Announcements
 - 1.3. Intervening actions since last meeting.
2. Strategic Planning and Discussion
 - 2.1. Membership
 - 2.2. Other committee/organization activities
 - 2.2.1. [Structures and Infrastructures](#) (Volumes 12 and 13) – Load Testing of Bridges
3. Documents Under Development
 - 3.1. **342.YR: Concrete Bridge Condition Assessment and Performance Monitoring**
4. Invited Speaker Presentation
 - 4.1. Mohamad Alipour (University of Virginia): *Automated Inspection of Concrete Infrastructure using Deep Learning*
 - 4.2. Eli Hernandez (Missouri S&T): *Prestrengthening Evaluation of Missouri Bridge P0058*



- 4.3. Aaron Larosche - Pivot Engineers: *Examples of Impact-Echo use in Bridge Evaluation*
- 4.4. Proposed speaker for Spring Convention
5. New Business
- 5.1. Sessions and SP focus topics for future conventions
- Proposed Sessions
 - Cincinnati, OH- Fall 2019 (342, 343, 345)
 - *QA Evaluation of Concrete Bridges for Durability (Larry Olson and Mark Williams)*
 - Chicago/Rosemont – Spring 2020 (444, 342, 343)
 - *Structural Load Testing and Monitoring for Concrete Bridge Evaluation (Brock Hedegaard) - preliminary session approved ✓ – final session request due October 25, 2019*
 - Raleigh, NC – Fall 2020
 - *State-of-the-Art Evaluation of Signature Concrete Bridges (Ben Dymond) – preliminary session request submitted summer 2019 ✓? – final session request due April 3, 2020*
 - Potential Session Topics
 - ***Drones in bridge evaluation and condition assessment***
 - ***Forensic Analysis and Evaluation of Concrete Bridges***
 - ***Post Construction Evaluation of Concrete Bridges***
 - *Performance Design of Concrete Bridges (performance specs)- Chris Barnes*
 - *Post-tensioning*
 - *Signature Bridges ✓*
 - *Analysis of Existing Concrete Bridges (above)*
 - *Data Analytics for Concrete Bridge Evaluation*
 - *SHM of Concrete Bridges ✓*
 - *Innovative Techniques for Monitoring and Evaluating Concrete Bridges and Bridge Elements ✓*
 - *Load Rating of Concrete Bridges ✓*
 - *Non-destructive and Destructive Evaluation of Concrete Bridges ✓*
 - *Field Testing of Concrete Bridges (Diagnostic, Proof) ✓*
 - *Advanced Analysis and Testing Methods for Concrete Bridge Evaluation ✓*
6. Relevant Sessions for Current Convention [4 min]
- Fragility Assessment of Earthquake-Resistant Reinforced Concrete Bridges - **Tue, October 22, 2019 11:00 AM - 1:00 PM**, C-Junior Ballroom D
 - Long-Term Durability of Concrete Bridges - **Tue, October 22, 2019 1:30 PM - 3:30 PM**, C-Junior Ballroom D
7. Upcoming Sessions at Future Conventions
8. Other Announcements
9. Adjournment
- The next meeting(s) will be on March 29th, 2020 (8:30-10:30am) – tentatively