



American Concrete Institute

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MEETING AGENDA

342 - Evaluation of Concrete Bridges and Bridge Elements ACI Spring Convention 2022

Meeting Schedule: Sunday March 27, 2022 (8:30 AM-10:30 AM EDT)
Caribe Royale Orlando Hotel, C-Boca VI, Orlando , FL

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.

Voting Committee Members

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

ACI TAC Contact: Wassim Ghannoum

1. Administrative [5 min]
 - 1.1. Opening and Introductions
 - 1.2. Announcements
 - 1.3. Intervening actions since last meeting.
 - 1.3.1. Balloting and approval of Spring 2021 and Fall 2021 meeting minutes
2. Strategic Planning and Discussion [10 min]
 - 2.1. Membership



- 2.2. Other committee/organization activities
3. Invited Speaker Presentation [15-20 min]
 - 3.1. "Cost Effective Load Testing for Systemwide Applications" by Andy Foden.
4. Documents Under Development [30 min]
 - 4.1. **342.YR: Concrete Bridge Condition Assessment and Performance Monitoring**
 - 4.1.1. Update from Larry Olson and chapter leads
 - 4.1.2. Timeline to balloting and completing document
 - 4.2. Update of ACI PRC-342-16 Report on Flexural Live Load Distribution Methods for Evaluating Existing Bridges
 - 4.2.1. Discuss creation of a subcommittee and list of members
 - 4.2.2. Set preliminary timeline
5. New Business [15 min]
 - 5.1. Sessions and SP focus topics for future conventions
 - Proposed Sessions
 - Fall 2022 (Dallas)
 - “*Analysis and Evaluation of Concrete Bridges with Novel Materials.*” (John Myers and Ali Abu-Yosef).
 - Spring 2023 (San Francisco)
 - “*Predicting performance and deterioration of bridges.*” (Pinar Okumus & Brock Hedegaard).
 - Fall 2023 (Boston)
 - “*Evaluation of 75-100 year old bridges.*” (Mike Brown).
 - Potential Session Topics
 - *Drones and High Resolution Tools in Bridge Evaluation and Condition Assessment.* John Myers and Nestor Rubiano are searching for speakers and may push the session forward
 - *Correlation between evaluation and long-term asset management* (Amir Gheitasi)
 - *Post Construction Evaluation of Concrete Bridges*
 - *Performance Design and Specifications of Concrete - 343*
 - *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* ✓
- *Signature Bridges* ✓

6. Relevant Sessions for Current Convention [10 min]

- Behavior, Design, Analysis and Construction of Nonconventional/Atypical Reinforced Concrete (RC) Columns/Piers, Part 1 of 2, Monday March 28, 2022 – 8:30 AM-10:30 AM (EST) C-BOCA IV
- Behavior, Design, Analysis and Construction of Nonconventional/Atypical Reinforced Concrete (RC) Columns/Piers, Part 2 of 2, Monday March 28, 2022 – 11 AM-1 PM (EST) C-BOCA IV
- Developments, Applications, and Case Studies in UHPC for Bridges and Structures, Part 1 of 3, Monday March 28, 2022 – 11 AM-1 PM (EST) C-BOCA III
- Developments, Applications, and Case Studies in UHPC for Bridges and Structures, Part 2 of 3, Monday March 28, 2022 – 1:30 PM-3:30 PM (EST) C-BOCA III
- Developments, Applications, and Case Studies in UHPC for Bridges and Structures, Part 3 of 3, Monday March 28, 2022 – 1:30 PM-3:30 PM (EST) C-BOCA III
- Structural Load Testing and Monitoring for Concrete Bridge Evaluation, Wednesday, March 30, 2022 – 8:30 AM-10:30 AM (EST) C-BOCA IV

7. Other Announcements [5 min]

- Others?

8. Adjournment

- The next meeting(s) will be on October 23, 2022 (8:30-10:30am) at the Hyatt Regency Hotel in Dallas, TX – tentatively