



American Concrete Institute

38800 Country Club Drive  
Farmington Hills, MI 48331 USA  
+1.248.848.3700  
[www.concrete.org](http://www.concrete.org)

## MEETING AGENDA

### 342 - Evaluation of Concrete Bridges and Bridge Elements ACI Fall Convention 2021 (Virtual)

**Meeting Schedule: Sunday October 17, 2021 (11:30 AM-1:30 PM EDT)**

**Virtual Meeting: Join Link: <https://global.gotomeeting.com/join/310247853>**

**Conference Call Info: US: +1 (786) 535-3211 Access Code: 310-247-853**

**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. Review and approve Spring 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. "RC Tee-Beam Load Testing & Posting Avoidance for SCDOT" 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 complete document
  - 4.2. Other documents that should be updated
5. New Business [15 min]
  - 5.1. Sessions and SP focus topics for future conventions
    - Proposed Sessions
      - Spring 2022 (Orlando)
        - *Structural Load Testing and Monitoring for Concrete Bridge Evaluation (Brock Hedegaard & Cameron Murray) (Committees 444, 342, 343)*
      - 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]**

- Durability, Service Life, and Long-Term Integrity of Concrete Materials, Bridges, and Structures, Part 1 of 2, Sunday October 17, 2021 10 AM - 12 PM
- Seismic Repair/Retrofit/Strengthening of Bridges at the Element or System Level, Part 1 of 2, Sunday October 17, 2021 10 AM - 12 PM
- UHPC – Hot Topics, Part 1 of 3, Sunday October 17, 2021 10 AM - 12 PM
- Seismic Repair/Retrofit/Strengthening of Bridges at the Element or System Level, Part 2 of 2, Sunday October 17, 2021 1 PM - 3 PM
- UHPC – Hot Topics, Part 2 of 3, Sunday October 17, 2021 1 PM - 3 PM
- Durability, Service Life, and Long-Term Integrity of Concrete Materials, Bridges, and Structures, Part 2 of 2, Sunday October 17, 2021 4 PM - 6 PM
- UHPC – Hot Topics, Part 3 of 3, Monday October 18, 2021 10 AM - 12 PM
- Live Load Distribution on Concrete Bridges: Design, Evaluation, Construction, Innovation, Part 1 of 2, Monday October 18, 2021 1 PM - 3 PM
- Live Load Distribution on Concrete Bridges: Design, Evaluation, Construction, Innovation, Part 2 of 2, Monday October 18, 2021 4 PM - 6 PM

**7. Upcoming Sessions at Future Conventions [5 min]**

**8. Other Announcements [5 min]**

- Others?

**9. Adjournment**

- The next meeting(s) will be on March 27, 2022 (8:30-10:30am) – tentatively