



## MEETING AGENDA

### 342 - Evaluation of Concrete Bridges and Bridge Elements

#### ACI Spring Convention 2021

**Meeting Schedule: Sunday March 28, 2021 (11:30 am – 1:30 pm EST)**

**Virtual Meeting:** Join Link: <https://global.gotomeeting.com/join/462003517>

**Conference Call Info:** US: +1 (312) 757-3121 Access Code: 462-003-517

**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***

Devin Harris – University of Virginia (Chair)

Nestor Rubiano – PE Structural Consultants  
(Vice Chair)

Ben Dymond – University of Minnesota Duluth  
(Secretary)

Om Dixit – Dixit Consultants LLC

Mohamed ElBatanouny - Wiss, Janney, Elstner  
Associates, Inc

Andrew Foden – WSP

Andre Garner – Garner Consulting Group

Brock Hedegaard – University of Minnesota  
Duluth

Riyadh Hindi – St. Louis University

Jimmy Kim – University of Colorado Denver

Eva Lantsoght – Universidad San Francisco de  
Quito

Mohamed Mahgoub – New Jersey Institute of  
Technology

Bruno Massicotte – Polytechnique Montreal

John Myers – Missouri S&T

Rita Oglesby –

Pinar Okumus – University at Buffalo

Larry Olson – Olson Engineering Inc.

Johan Silfwerbrand – KTH Royal Institute of  
Technology

Jeffery Smith –

Mark Williams – Walter P Moore

Wassim Ghannoum – ACI TAC Contact

#### **1. Administrative [5 min]**

**1.1. Introductions**

**1.2. Announcements**

**1.3. Intervening actions since last meeting.**

1.3.1. Review and approve Fall 2020 meeting minutes

#### **2. Strategic Planning and Discussion [10 min]**

**2.1. Membership**

**2.2. Other committee/organization activities**

#### **3. Invited Speaker Presentation [5 min]**

#### **4. Documents Under Development [20 min]**

**4.1. 342.YR: Concrete Bridge Condition Assessment and Performance Monitoring**

4.1.1. Chapter Leads/volunteer updates – Chapter progress summary



5. New Business [15 min]
  - 5.1. Sessions and SP focus topics for future conventions
    - Baltimore, MD – Spring 2021 (342, 228)
      - *Fusion of Visual and Nondestructive Techniques for Bridge Evaluation (Larry Olson) preliminary session approved ✓*
    - Atlanta, GA – Fall 2021
      - *Drones and High Resolution Tools in Bridge Evaluation and Condition Assessment.*
      - *Live Load Distribution on Concrete Bridges: Design, Evaluation, Construction, Innovation, Parts 1 and 2. (Ben Dymond) (343)*
      - *Structural Load Testing and Monitoring for Concrete Bridge Evaluation (Brock Hedegaard & Cameron Murray) (444, 342, 343)*
    - Orlando, FL – Spring 2022 Potential Session Topics
      - *Forensic Analysis and Evaluation of Concrete Bridges (John Myers)*
        - *Consider novel materials (GFRP, non-metallic strands, etc.)*
      - *Evaluation of very old bridges (100-yr old) (Mike Brown)*
      - *Predicting performance and deterioration of bridges (Pinar Okumus)*
        - *Could include long-term deflection in box-girder bridges*
      - *Correlation between evaluation and long-term asset management (Amir Gheitasi)*
      - *Post-Construction Evaluation of Concrete Bridges*
      - *Performance Design and Specifications of Concrete - 343*
      - *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 ✓*
      - *Signature Bridges ✓*
      - *Drones in bridge evaluation and condition assessment ✓*
6. Relevant Sessions for Current Convention [4 min]
  - Fusion of Visual and Nondestructive Techniques for Bridge Evaluation, **Wednesday, March 31, 2021 from 10:00 AM - 12:00 PM**
  - Exploiting SSI Effects in Structural Design of Bridges, **Monday, March 29, 2021 from 1:00 PM - 3:00 PM**
7. Upcoming Sessions at Future Conventions [5 min]
8. Other Announcements [1 min]
  - Others?
9. Adjournment
  - Tentatively – the next meeting will be at the Hilton Atlanta Downtown on October 17<sup>th</sup>, 2021 (8:30-10:30am)