



MEETING AGENDA

342 - Evaluation of Concrete Bridges and Bridge Elements ACI Fall Convention 2018

Meeting Schedule: Sunday October 14, 2018 (8:30 AM-10:30 am)
Coco A-B Room – Rio All-Suites Hotel (Las Vegas, NV)

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 MEMBERS

Devin Harris – University of Virginia (Chair)

Nestor Rubiano – HNTB Corporation (Secretary)

Om Dixit - Dixit Consultants LLC

Andrew Foden – WSP USA

Andre Garner - Garner Consulting Group

Brock Hedegaard, University of Wisconsin

Riyadh Hindi – St. Louis University

Jimmy Kim – University of Colorado Denver

Eva Lantsoght – Universidad San Francisco de Quito

Ben Dymond – University of Minnesota Duluth

Mohamed ElBatanouny – WJE Associates, Inc.

Mohamed Mahgoub - New Jersey Institute of Technology

Bruno Massicotte - Ecole Polytechnique Montreal

John Myers - Missouri S&T

Rita Oglesby

Larry Olson - Olson Engineering Inc.

Johan Silfwerbrand - KTH Royal Institute of Technology

Jeffrey Smith – University of Kentucky

Pinar Okumus – University at Buffalo

Mark Williams - Walter P Moore

1. Opening [5 min]

2. Invited Speaker Presentation [25 min]

2.1. Structural Condition Assessment Using Small Unmanned Aerial Systems by Dr. Sattar Dorafshan

3. Administrative [5 min]

3.1. Introductions

3.2. Announcements

3.3. Intervening actions since last meeting

4. Strategic Planning and Discussion [5 min]

4.1. Membership



4.2. Other committee/organization activities

5. Documents Under Development [30 min]

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

6. New Business [15 min]

6.1. Sessions and SP focus topics for future conventions

- Proposed Sessions
 - Quebec City, QC, Canada - Spring 2019
 - *Advanced Analysis and Testing Methods for Concrete Bridge Evaluation* (Moderated by Bruno Massicotte and Ben Dymond)
 - *Innovative Techniques for Monitoring and Evaluating Concrete Bridges and Bridge Elements* (Moderated by John Myers – 2 sessions proposed)
 - Cincinnati, OH- Fall 2019
 - *QA Evaluation of Concrete Bridges for Long-Term Durability* (Moderated by Larry Olson and Mohamed Mahgoub – collaboration with Committee 345)
- Potential Session Topics
 - Forensic Analysis of Concrete Bridges
 - Post Construction Evaluation of Concrete Bridges
 - Performance Specifications and Material Quality
 - Analysis of Existing Concrete Bridges
 - Data Analytics for Concrete Bridge Evaluation
 - SHM of Concrete Bridges
 - Signature Bridges
 - Innovative Techniques for Evaluating Concrete Bridges/Elements ✓
 - Load Rating of Concrete Bridges ✓
 - Non-destructive and Destructive Evaluation of Concrete Bridges ✓
 - Field Testing of Concrete Bridges (Diagnostic, Proof) ✓

7. Relevant Sessions for Current Convention [5 min]

- The Dennis Mertz Symposium on Design and Evaluation of Concrete Bridges
 - Part 1 – Sun, Oct 14, 2018 10:30 am - 12:30 pm, Amazon Q-R
 - Part 2 – Sun, Oct 14, 2018 1:00 pm - 3:00 am, Amazon Q-R
 - Part 3 – Mon, Oct 15, 2018 10:00 am - 11:00 am, Amazon M
 - Part 4 – Mon, Oct 15, 2018 2:00 pm - 3:00 pm, Amazon O



- Hot Topic Session: Can Codes and Standards Improve the Performance and Longevity of Existing Concrete Structures?
 - Sun, Oct 14, 2018 8:00 pm - 10:00 pm, Amazon Q-R
 - The Role of Materials in Sustainable Concrete Construction
 - Part 1 – Mon, Oct 15, 2018 11:00 am - 1:00 pm, Amazon Q-R
 - Part 2 – Mon, Oct 15, 2018 1:30 pm - 3:30 pm, Amazon Q-R
 - Analysis and Interpretation of Structural Health Monitoring (SHM) Data: Big Data Management and Field Studies
 - Wed, Oct 17, 2018 8:30 am – 10:30 am, Amazon Q-R
- 8.** Upcoming Sessions at Future Conventions [5 min]
- 9.** Other Announcements [5 min]
- *Bridge Engineering Institute Conference 2019 (BEI-2019) - July 22 to 25, 2019 - Honolulu, Hawaii, USA (www.beibridge.org) – Jimmy Kim*
 - *Call for Papers – Fire and Flood Design, Performance, Mitigation and Strengthening for Concrete Bridges, ACI Concrete Convention and Exposition – Fall 2019, Cincinnati, OH, October 20-14, 2019*
 - *Call for Abstracts – International Accelerated Bridge Construction Conference 2019 – December 11 to 13 – Miami, FL, USA. Abstract Submission Deadline is on January 18, 2019*
- 10.** Adjournment
- The next meeting will be on March 24, 2019 (8:30am-10:30am) – Tentatively