

ACI-ASCE Committee 447:

Finite Element Analysis of Reinforced Concrete Structures

Virtual Concrete Convention - Committee Meeting

Date: 10/18/2021 Time: 2:00PM - 4:30PM (Eastern Daylight Time)

Virtual Link: <https://global.gotomeeting.com/join/340494757>

ACI Fall 2021 Convention

- 1. Call to Order (2:00pm)**
- 2. Introduction of Members and Guests, Excused Absences (2:02pm)**
- 3. Review and approve minutes from meeting at ACI Spring 2020 Convention. (2:10pm)**
- 4. Short Presentations (no later than 2:15pm)**
 - “Finite element analysis of chloride ingress in prestressed bridge girders” by Mojtaba Aliasghar-Mamaghani, Ioannis Koutromanos, Carin Roberts-Wollmann, and Matthew Hebdon
 - “Directions of the NSF ECI program with reference to infrastructure materials and structural engineering” by Dr. Gianluca Cusatis
- 5. Report on possible technical sessions/Special Publications to be sponsored by the committee (3:10pm)**
 - a. **Ongoing sessions**

Please propose technical sessions as they are the core of ACI conventions
 - b. **Future sessions to be organized**
 1. Session on "pre- and post-processing for software in nuclear applications." (Mokhtar-Zadeh)
 2. Session on "Sanity Checks in using finite element modeling for practice." (Schuman)
 3. Session on “Mesh independence modeling of concrete” (Thiagarajan, Sritharan, and Lowes)
 - c. **Future sessions to be co-organized**
 1. Session on the design of two-way slabs sponsored by Committee 421 (Hrynyk)
- 6. Discussion of Ballots on ACI 447.YT: Post-Processing of Finite Element Analysis for Concrete Structures (3:35pm), by**

Final version Contributors: Draper, Jason; Bassam, Asa; and Mokhtarzadeh, Abbas
Reviewers: Draper, Jason; Cantarero Leal; Carlos, Bassam, Asa; Zhang, Kai; Ozkan, Mustafa; and Mokhtarzadeh, Abbas
Original version Contributor: Coronado, Carlos; O’Leary, Michael; Draper, Jason; and Mokhtarzadeh, Abbas
- 7. Discussion of TAC Review on ACI 447.YR: State-of-the-art report on modeling bond in reinforced concrete (3:50pm)**

8. Updates on State-of-the-Art Reports (4:00pm)

- a. **ACI 447.XR: Nonlinear Modeling Techniques for Concrete Frame Structures**
(Previously Modeling of Modern Concrete Structures for Performance-Based EQ Engineering) by Serhan Guner
- b. Benchmark Problems and Simulation Examples for Finite Element Modeling of Reinforced Concrete Structures by Eric Kjolsing

9. New Business/Adjourn (4:20pm)