

ACI-ASCE Committee 447:

Finite Element Analysis of Reinforced Concrete Structures

Virtual Concrete Convention - Committee Meeting

Date: 10/26/2020 Time: 2:00PM - 4:30PM (Eastern Daylight Time)

Join Link: <https://global.gotomeeting.com/join/502560013>

Conference Call Info: US: +1 (571) 317-3122 Access Code: 502-560-013

ACI Fall 2020 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 Fall 2019 Convention. (2:10pm)**
- 4. Short Presentations from CRC proposers (no later than 2:15pm)**
 - “Performance of Concrete Barrier Walls Reinforced with GFRP Hook Bars using Finite Element Analysis - Tractor-trailer Impact Load” by Ahmed A.B.Mostafa
 - “Development of Finite Element Models to Simulate Debonding Failures at Multiple Interfaces of Concrete Beams Strengthened with Externally Bonded Fiber Reinforced Cementitious Mortar (FRCM)” by Dr. Yang Yang
- 5. Discussion of Committee Procedures to Endorse CRC Proposals (2:50pm)**
- 6. 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 “Finite element modeling for blast loading” (Thiagarajan)
 4. 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)
- 7. 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
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- 8. Discussion of TAC Review on ACI 447.YR: State-of-the-art report on modeling bond in reinforced concrete (3:50pm)**
- 9. 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 and Jian Zhao
- 10. New Business/Adjourn (4:20pm)**
 - a. Chapter review for ACI Committee 446 by Thiagarajan