

ACI-ASCE Committee 447:

Finite Element Analysis of Reinforced Concrete Structures
Meeting at Duke Energy Convention Center, Room C-200
Cincinnati, OH

Date: 10/21/2019 Time: 11:00AM - 1:30PM
ACI Fall 2019 Convention

- 1. Call to Order (11:00am)**
- 2. Introduction of Members and Guests, Excused Absences (11:05am)**
- 3. Short Presentations (no later than 11:15am)**
 - “Machine learning paradigm infused into nonlinear finite element analyses of reinforced concrete structures” by In Ho Cho
 - “Computer simulations of energetic fracture size effect on the RC beams strengthened with fiber polymer laminates” by Abdullah Donmez and Zdenek P. Bazant
 - “Calculation of Depth of Crushed Concrete near Stand-off Anchors in Shear” by Da Luo and Jian Zhao
 - “Performance-Based Seismic of Concrete Compressor Tabletop Structures” by Song Fong Jan
- 4. Review and approve minutes from meeting at ACI Fall 2018 Convention and Spring 2019 Convention. (12:15pm)**
- 5. Report on possible technical sessions/Special Publications to be sponsored by the committee (12:20am)**
 - 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 "performance-based engineering using nonlinear dynamic analyses." (Guner)
 - c. **Future sessions to be co-organized**
 1. “Bond and Development in New Types of Concrete and Reinforcement,” Co-sponsored by Committee 408
 2. 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 (12:35pm), by**

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- 7. Discussion of TAC Review on ACI 447.YR: State-of-the-art report on modeling bond in reinforced concrete (1:05pm)**
- 8. Updates on State-of-the-Art Reports (1:20pm)**
 - 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
- 9. Discussion of Committee Procedures to Endorse CRC Proposals (1:25pm)**
- 10. New Business/Adjourn (1:30pm)**