

**ACI-ASCE Committee 447:**  
Finite Element Analysis of Reinforced Concrete Structures  
Meeting at the Rio All-Suites Hotel, Room Tropical H  
Las Vegas, Nevada  
Date: 10/15/2018 Time: 11:00AM - 1:30PM  
ACI Fall 2018 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)
  - “Finite Element Analysis Method: Mathematics versus Engineering Concepts, Lab Tests & Code provisions” by Abbas Mokhtar-Zadeh, Ph.D., PE
  - “Using FEA to Predict Failure Mechanisms in High Strength RC Shear Walls” by Joshua Hogancamp
  - “Concrete Containment Prestress Loss Study” by Eric Kjolsing, PhD, PE and Derrick Watkins, PhD, SE
4. **Review and approve minutes from meeting at ACI Spring 2018 Convention.** (11:50am)
5. **Report on possible technical sessions/Special Publications to be sponsored by the committee** (11:55am)
  - a. **Ongoing sessions**
    1. Session in collaboration with ACI-446 on Calibration of Concrete Models.  
"Development of guidelines for the calibration and validation of concrete models,"  
(Koutramanos/Cusatis)
  - 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. Session on the design of two-way slabs sponsored by Committee 421  
(Hrynyk)
    - 2.
6. **Discussion of Ballots on ACI 447.XR: Modeling of Modern Concrete Structures for Performance-Based Earthquake Engineering** (12:10pm)
  - a. **Ballot 1** – Chapters 1&2
  - b. **Ballot 2** - Chapters 3
  - c. **Ballot 3** - Chapters 4

**7. Updates on State-of-the-Art Reports (1:00pm)**

- a. **ACI 447R-18:** Design Guide for Twisting Moments in Slabs, published in April 2018  
Congratulations to Alan Bommer and Brian (BJ) Siljeborg
- b. **ACI 447.1R-18:** Modeling for the Repair and Rehabilitation of Modern Concrete Structures for Performance Based Design. In production  
Congratulations to Riadh Al-Mahaidi
- c. **ACI 447.YT: NESCC – Concrete Task Group (CTG) Report: Post-Processing Finite Element Analysis Results for the Design of Nuclear Concrete Structures**  
Subcommittee report by J. Draper, A. Mokhtar-Zadeh, A. Bassam, and C. Coronado.
- d. **ACI 447.YR:** State-of-the-art report on modeling bond in reinforced concrete  
Subcommittee report by J. Zhao and S. Sritharan

**8. Webinars on Finite Elements for Engineers (1:20pm)**

**9. New Business/Adjourn (1:30pm)**