

**ACI-ASCE Committee 447**  
Finite Element Analysis of Reinforced Concrete Structures  
Meeting at ACI Fall Convention 2007, Fajardo, Puerto Rico  
Palominito B  
Monday, October 15, 11:30am-2:00pm

**1. Introductions**

**2. Review and approve minutes from previous meeting: ACI Spring Convention, Atlanta, GA, April 2007**

**3. Membership update: The following new members have joined the committee since the last meeting:**

Voting member: Allan Bommer, Bentley Systems Inc, Seattle, WA  
Associate member: Rafael Alves de Souza, Universidade Estadual de Maringá, Brazil

**4. Announcements**

**5. Report on upcoming technical sessions to be sponsored by our committee:**

**a. Lowes:** Two technical sessions approved for the **2008 Structures Congress, April 24-26 2008, Vancouver, B.C.:**

*i. Application of Finite Element Analysis for Seismic Design and Evaluation of Concrete Buildings:*

- "Evaluation of Practical Methods for Analysis of Reinforced Concrete Walls" by Doepker, Lehman and Lowes
- "Design and Analysis of Energy-Absorbent Precast Concrete Infill Panels for Seismic Retrofits using Nonlinear Finite Element Analysis" by Billington, Han, Hanson and Olsen
- "Nonlinear Finite Element Analysis for Performance-Based Earthquake Engineering" by Filippou

*ii. Application of Finite Element Analysis for Design of Concrete Structures:*

- "Applications of Finite Element Analysis to Concrete Dams" by Schreppers and Lilliu
- "Design by Analysis of Innovative Navigation Structures" by Slattery and Riveros
- Dynamic Nonlinear Finite Element Analysis of Blast Resistant Concrete Buildings in Petrochemical Facilities" by Jan and Gurbuz

**b. Jakovich or Bommer:** Technical session planned for the **2008 ACI Fall Convention, St. Louis.** Session to be address "practical computer applications for the everyday design and analysis of concrete structures" and organized jointly with ACI Com. 118. Specifically, the session is being organized by Ryan Riehle (Chair ACI Com. 118), Allan Bommer and John Jakovich. A 'call for papers' will appear shortly in ACI International.

**NOTE:** This would be a good opportunity to develop and present a POI (Practice Oriented Information) document.

**c. Future sessions to be organized?**

**6. Update on State-of-the-Art Reports and discussion of potential Practice-Oriented Information (POI) documents**

Note: POI documents would be roughly 2-5 pages. May take time to write concisely but seems that they could be balloted and published relatively quickly.

- a. **Ayoub, Mo, Palermo: Modeling of Modern Concrete Structures for Performance-Based Design**
- b. **Al-Mahaidi: Modeling for the Repair and Rehabilitation of RC and Masonry Structures**
- c. **Sritharan and Ayoub (in collaboration with Com. 408): Modeling Bond in Reinforced Concrete**
- d. **Bommer: Analysis of PT Slabs**
- e. **Connelly: Modeling of Structural Concrete under Impact and Blast Loading**

**7. Update on new SP: “Blind prediction of the earthquake response of building beam-column joints” by Lowes**

**9. New business**