

AGENDA – SPRING 2009 MEETING
ACI 445 – SHEAR AND TORSION
SAN ANTONIO, TEXAS
March 15-19, 2009

Meetings

- 445 Shear & Torsion Mon 2p-6p - CONF RM 15
- 445-A Shear & Torsion--Strut & Tie Sun 10:30a-1:30p CONF RM 13
- 445-C Shear & Torsion--Punching Shear Sun 1p-3p SUITE 529
- 445-D Shear and Torsion Database Mon 10a-12p SUITE 514
- 445-E Shear & Torsion--SOA Torsion Sun 3p-5p SUITE 529
- 423-445 Adhoc Grp on Shear in Prestress Conc Sun 3p-5p SUITE 642
- 318-E Shear & Torsion Wed 8:00a-1:30p CONF RM 7
- 318-G Prestressed Precast Wed 8:00a-1:30p CONF RM 9

1. Introductions (Kuchma)

2. Approval of the Minutes – Fall 2008 ACI 445 Meeting held in San Antonio (Kuchma) (Posted on 445 Website)

3. ACI 318-E Actions (Kuchma/Wood)

- Change Proposals – Current
- Change Proposals – Future
- Code Reorganization

4. Subcommittee reports

- 445-A Strut and Tie (Reineck)
- 445-B Seismic Shear (Eberhard)
- 445-C Slab Shear (Ospina)
- 445-D Beam Database (Reineck)
- 445-E Torsion (Belarbi): Including SOA Report on Torsion
- Ad hoc committee on prestressed concrete shear issues (Matamoros)

5. Technical Sessions

Future Sessions

SEI / ASCE Structure's Congress, April 30 – May 2, 2009, Austin, Texas
Size Effects, Conflicting Design Methods, and Other Puzzles in Shear

1. Evidence and Explanations for the Size Effect in Members without Shear Reinforcement, Evan Bentz
2. Contribution of Concrete to Shear Resistance, Robert Frosch
3. Contribution of Stirrups to Shear Resistance, Dan Kuchma
4. Shear Performance Observations from Recent Experiments on Uncharacteristically Large Test Beams, Oguzhan Bayrak

ACI Fall 2009 New Orleans

Sessions Honoring Professor Thomas T.C. Hsu,
Shear and Torsion of Concrete Structures, Session 1

Session Title: Recent Advances in Seismic Shear of Wall-Type Structures

1. Behavior of Coupled Wall Assemblies Constructed with Precast Fiber-Reinforced Concrete Coupling Beams, James Wight et al.
2. The Impact of Shear on Shear Wall Systems, John Wallace et al.
3. Strength Prediction for Eccentric Beam-Column Joints by Softened Strut-and-Tie Model, Shyh-Jiann Hwang
4. Wall-Type Structures under Blast Loading, Zhong Jian-Xia
5. Fiber Beam Formulation with Softened Membrane Model for Seismic Analysis of Wall-Type Structures, Ashraf Ayoub et al.
6. Constitutive Relationships of Cracked Reinforced Concrete with Steel Fibers, Mohammad Mansour et al.
7. Simulation of Prestressed Concrete Girders Failed by Shear, Y.L. Mo et al.
8. Towards a Unified Modified Compression Field Theory: Application to Wall-Type Structures, Enrique Hernandez-Montes et al.

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Shear and Torsion of Concrete Structures, Session 3

Session Title: Five Decades of Progress in Shear and Torsion

1. Development of Models for Torsion of Concrete Structures in Northern Europe, Lennart Elfgren
2. Structural Concrete Beam Shear - Still a Riddle?, Mikael Braestrup
3. Punching Shear in Fire-Damaged R/C Slabs, Pietro G. Gambarova et al.
4. Review of Some Basic Assumptions and Theories for Shear Design, Karl-Heinz Reineck
5. Impact of Torsion on Seismic Response of Columns, David Sanders et al.
6. Evaluation of Minimum Shear Reinforcement Requirements in Large Beams, Julio Ramirez et al.
7. Shear-Flexure-Torsion Interaction Features of RC Columns, Abdeldjelil Belarbi et al.
8. Evaluation of Concrete Constitutive Behavior under Triaxial Loading Conditions Through 3D Panel Testing, Ashraf Ayoub et al.

Design Examples for the Strut-and-Tie Method (SP-2), Request for 2 Sessions at the Spring 2010 Conference in Chicago

Future Conferences: Fall 2009 (New Orleans), Spring 2010 (Chicago), Fall 2010 (Pittsburgh), Spring 2011 (Tampa), Fall 2011 (Cincinnati),

6. Other Business

Technical Presentations (10 Minutes Each) - Please let me know if you are interested in presenting prior to the start of the 445 meeting

Size Effect on the Shear Strength of Beams with Stirrups and the Safety Penalty When It Is Ignored, Zdenek Bazant

Please note that all subcommittee meetings are scheduled prior to the main 445 committee meeting. All members are welcome and encouraged to attend.