

AGENDA – FALL 2014 MEETING
Joint ASCE/ACI Committee 445 – SHEAR AND TORSION
WASHINGTON, D.C.
October 26-30, 2014

Meetings

445 Shear & Torsion (*Mon 2p-6p, LINCOLN WEST*)

445-A Shear & Torsion-Strut & Tie (*Sun 10:30a-1:30p, FAIRCHILD EAST*)

445-B Shear & Torsion-Seismic Shear (*Sun 8a-10a, JAY*)

445-C Shear & Torsion-Punching Shear (*Sun 1p-3p, HOLMEAD*)

445-D Shear and Torsion-Database (*Sun 3:30p-5:30p, PISCATAWAY*) (*change in time/room*)

445-E Shear & Torsion-Torsion (*Sun 12:30p-2p, COATS*)

~~423-445 Adhoc Grp on Shear in Prestress Conc (*Sun 3:30p-5:30p, PISCATAWAY*) (cancelled)~~

318-C Safety, Serviceability and Analysis (*Tue 1:30p-6p, FAIRCHILD EAST*)

318-E Section and Member Strength (*Tue 1:30p-6p, FAIRCHILD WEST*)

318-G Precast and Prestressed Concrete (*Tue 1:30p-6p, GUNSTON EAST*)

1. Introductions (Belarbi)

2. Approval of the Minutes – Spring 2014 ASCE/ACI 445 Meeting held in Reno, NV (Belarbi)

3. Subcommittee Reports (short reports: *no more than 5 mns per subcommittee*)

It is requested from each subcommittee to develop/update/confirm: (i) subcommittee name (ii) mission statement, (iii) set of goals (say for the next 5 years) and (iv) roster if any.

- 445-A Strut and Tie (Sanders)
- 445-B Seismic Shear (Rautenberg on behalf of Pujol)
- 445-C Slab Shear (Ospina)
- 445-D Beam Database (Reineck)
- 445-E Torsion (Greene)
- Ad hoc committee on prestressed concrete shear issues (Matamoros)

4. ACI 318-E Future Activities/Plans (Sanders/Belarbi)

Shear Provisions of ACI318-14 – Current

Change Proposals – Future

5. Shear Design Proposals/Presentations (*12 mns for presentations and 3 mns for discussions*)

General Presentations:

- 1) David Sanders “*Shear and Torsion in the Reorganized Code*”
- 2) Dan Kuchma “*Structure of Shear Provisions Around the World*”

Shear Design Proposals:

- 1) ACI-446 Committee (Gianluca Cusatis) “*ACI-446 Proposal to Update the ACI Shear Design Provisions*”
- 2) Evan Bentz and Michael Collins “*Shear Design Provisions for ACI Based on the fib 2010 Model Code*”
- 3) Robert J. Frosch “*Unified Shear Design of Structural Concrete*”
- 4) Karl - Heinz Reineck “*Shear Design of Structural Concrete within the Concept of Strut-and-Tie Models*”
- 5) Hong-Gun Park , Kyoung-Kyu Choi, and Jong-Chan Kim “*Shear Strength Model Based on Compression Zone Failure Mechanism*”
- 6) Thomas T. C. Hsu “*Shear Design of Partially Prestressed Concrete Beams – A Unified Approach*”
- 7) Zdenek P. Bazant and Marco Salviato “*Comparative Critical Examination of Models for Size Effect on the Shear Strength of Reinforced Concrete Beams*”
- 8) Qiang Yu “*Size Effect of Reinforced Concrete Beam under Shear*”
- 9) Jia-Liang Le, Mija H. Hubler, and Christian G. Hoover “*Discussion on Shear Design Provisions Based on Experimental Data and Fracture Mechanics*”
- 10) A. Mari, A. Cladera and J. Bairán “*Shear-Flexural Strength Mechanical Model for Design and Assessment*”

6. Availability and Use of Experimental Databases (Reineck)

Role and availability of databases in setting and evaluating the Shear Design Proposals

7. Shear Design Proposals–Action Items and Next Steps (Belarbi)

Where do we go from here with the presented shear design proposals?

8. Future Technical Sessions

Proposals for Technical sessions at future ACI conventions are welcome. Future convention dates/locations:

- Spring 2015 (Kansas City)-*Fountains of Concrete Knowledge*
- Fall 2015 (Denver) - *Constructability*
- Spring 2016 (Milwaukee, WI) -?
- Fall 2016 (Philadelphia, PA) - *Revolutionary Concrete*
- Spring 2017 (Detroit, MI) - ?
- Fall 2017 (Anaheim, CA) - ?

9. Old/New Business (Open)

10. Next Meeting and Wrap-up (Belarbi)

11. Adjourn (Belarbi)