

**ACI 318-14 Subcommittee E – Section and Member Strength
ACI Spring Convention Kansas City, Missouri**

Tuesday, April 14, 2015 – 8:00 am to 12:30 pm - C-2207

AGENDA

1. Review of Agenda
2. Introductions
3. Pre Kansas City Ballots
 - a. ACI 318E Ballot LB19E-01
 - i. CE010, Curved Bar Node - Klein
 - ii. CE020, Two-Way Shear Strength Provided by Concrete- Hawkins
 - iii. CE040, Prestressed Ties in STM - Klein
 - b. ACI 318E Ballot LB19E-02
 - i. CE045-Effective Width for One Way Shear in Footings and Mat Foundations - Hawkins
 - ii. CE065-Impact of Openings in Slabs – Poston
4. Chapter 21 – Strength Reduction Factors
 - a. Members vs Materials ϕ – factors – Sanders/Raul Bertero
 - b. Evaluation of phi factors for strut-and-tie method (STM) – Sanders
5. Chapter 22 – Sectional Strength
 - a. One-way Shear Equations - Belarbi, Kuchma, Sanders
 - b. Shear in Walls - Wight and Wallace
 - c. Stirrup Spacing for multiple-leg stirrups - Patel
 - d. Biaxial shear in columns - Patel
 - e. Specialized slab shear-transfer slabs and column rotations/offsets - Bonacci
 - f. One-way slabs subjected to span-parallel line loads - Bonacci
 - g. Concentrated loads near support of beams - Kuchma
 - h. Torsion - Belarbi
 - i. Headed Shear Stud Assembly - Poston
 - j. Inclined Shear Studs - Hawkins
 - k. High Strength Reinforcement – Sanders/Kelly
6. Chapter 23 – Strut and Tie Models
 - a. Development of Tie Force within Nodal Zone (CE030?) - Klein
 - b. Minimum Angle between a Strut and Tie (CE035?) - Klein
 - c. Shear Friction (CE060?) - Klein
 - d. Equation for Minimum Strut Reinforcement (CE050?) – Klein
 - e. Bottle shaped structures, fan shaped struts - Klein
 - f. Stress within the Node - Klein
 - g. Partial-width Bearing Areas - Klein
 - h. Efficiency Factors for STM - Kuchma
 - i. Minimum Reinforcement Requirements (CE015?) – Kuchma
 - j. STM - Model to Method (CE055?) – Novak

- k. Buckling Concerns for Struts, limit on aspect ratio - Novak
- l. Specific design provisions for deep beams and corbels – Wight
- m. Impact of Seismic Loading on STM – Sanders
- n. Simplification of the STM – Sanders

7. New/Other Business

8. Adjournment