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 Ø – 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