

**AGENDA – SPRING 2010 MEETING**  
**Joint ASCE/ACI 445 – SHEAR AND TORSION**  
**CHICAGO, ILLINOIS**  
March 21-25, 2009

**Meetings**

445 Shear & Torsion Mon 2p-6p – PARLOR C  
445-A Shear & Torsion-Strut & Tie Sun 10:30a-1:30p MISSISSIPPI  
445-B Shear & Torsion-Seismic Shear 8a-9a PARLOR G (Shortened)  
445-C Shear & Torsion-Punching Shear Sun 1p-3p PARLOR G  
445-D Shear and Torsion-Database Mon 10a-12p PARLOR B  
~~445-E Shear & Torsion-Torsion Sun 12:30p-2p PARLOR F (Cancelled)~~  
~~423-445 Adhoc Grp on Shear in Prestress Conc Sun 3p-5p PARLOR G (Cancelled)~~  
318-E Shear & Torsion Wed 8:00a-1:30p MISSISSIPPI  
318-G Prestressed Precast Wed 8:00a-1:30p ERIE

**1. Introductions** (Kuchma)

**2. Approval of the Minutes** – Fall 2009 ASCE/ACI 445 Meeting held in New Orleans  
(Posted on 445 Website) (Kuchma)

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

Change Proposals – Current  
Change Proposals – Future  
Code Reorganization

**4. Subcommittee reports**

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

**5. Strut-and-Tie Design Provisions and Guidance**

Incorporation of STM Provisions within Main Body of 318-14  
445 Committee Report on Application of the STM for the Design of Discontinuity  
Regions (Kuchma)

**6. 445 Technical Committee Input into Shear Provisions of ACI 318-14**

Discussions of One-Way Shear Task Group (Sanders/Kuchma)  
Future Activities

**7. Technical Sessions**

**Past ACI Fall 2009 New Orleans**

Thomas T.C. Hsu Symposium, Part 1: Recent Advances in Seismic Shear of  
Wall-Type Structures, Monday 9a-12p SALON B  
Thomas T.C. Hsu Symposium, Part 3: Five Decades of Progress in Shear and  
Torsion, Tuesday 9a-12p SALON B

## **ACI Spring 2010 Chicago**

### **Design Using the Strut and Tie Method: Examples and Approaches, Part 1**

Tuesday, March 23, 9:00 AM - 12:00 PM, SHERATON 2

Moderators: Karl-Heinz Reineck & Lawrence C. Novak

1. The STM Design Process and ACI Requirements, Daniel Kuchma, University of Illinois at Urbana-Champaign
2. Bridge Pier - Hammerhead Bent Cap, Robin Tuchscherer, Datum
3. Design of Deep Pile Caps with Tension Piles, Widiyanto, ExxonMobil Development Company
4. Foundation Grade Beam, Leonard De Rooy, Calvin College
5. Stepped Beam, Matthias Andermatt, University of Alberta
6. Dapped-end Double T-beam with Curved Bar Nodes, Gary Klein, Wiss Janney Elstner Associates
7. Evaluation of Prestressed Dapped Girder Ends With Cazaly Hangers, Katrin Habel, AECOM
8. Guideline Documents for Using Strut-and-Tie Models, Karl-Heinz Reineck, University of Stuttgart

### **Design Using the Strut and Tie Method: Examples and Approaches, Part 2**

Tuesday, March 23, 2:00 PM - 5:00 PM, SHERATON 2

Moderators: Lawrence C. Novak & Karl-Heinz Reineck

1. Propped Cantilever with Opening, Daniel Kuchma, University of Illinois at Urbana-Champaign
2. Design of a Link Beam at a Roof of a Medium-Rise Building, Hakim Bouadi, Walter P Moore & Assoc
3. Diaphragm for a Segmental Concrete Bridge, Richard Beaupre, URS Corporation
4. Diaphragm for Extradosed Cable Stayed Bridge, Trevor Kirkpatrick, URS Corporation
5. Importance of Reinforcement Detailing, Denis Mitchell, McGill University
6. Strut-and-Tie Models for Beams Versus Shear Design?, Karl-Heinz Reineck, University of Stuttgart
7. Future of ACI STM Provisions and Guidelines, Daniel Kuchma, University of Illinois at Urbana-Champaign

## **Future Sessions**

Future Conferences: Fall 2010 (Pittsburgh), Spring 2011 (Tampa), Fall 2011 (Cincinnati), Spring 2012 (Dallas)

## **8. 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**

Jason Varney "Tests on Beams with Improperly Anchored Stirrups", University of Texas at Austin