

Committee 544
Fiber Reinforced Concrete

Agenda
ACI 544-F – FRC Durability Committee Meeting,
Tuesday, October 18, 2011, 10:30 AM - 12 PM
Duke Energy Convention Center
Cincinnati, OH
Room: C-201

• CALL TO ORDER and INTRODUCTIONS

• APPROVAL OF AGENDA FOR CINCINNATI MEETING

• REVIEW COMMITTEE MEMBERSHIP AND REQUEST SECRETARY NOMINATION

• ANNOUNCEMENTS
  • 544F & 236-0D session, Cincinnati, OH, 2011 Fall Convention: “FRC: smart materials and sensors”; half day session, October 18th, 2011, 9:00 – 12:00 a.m.
  • ACI SP “Advancements in FRC durability and field applications”, in progress.
  • Other announcements

• LIAISON REPORTS
  • ACI, ASTM, RILEM committees

• ACTIVITIES
  • TECHNOTES: Review status of one submitted TechNote and solicit work for remaining documents
    • Permeability of FRC – Jean-Philippe Charron and Corina Aldea, reviewed by subcommittee members.

    • Effect of fibers on shrinkage cracking – Jeff Nowak
    • Effect of fibers on freeze-thaw resistance – Cliff MacDonald
• Corrosion resistance of FRC – Joaquim Barros
• Blast resistance of FRC – Liberato Ferrara, long term.

• Other technical notes?

• NEW TECHNICAL SESSIONS – FRC durability/sustainability?

• NEW BUSINESS
  • Assign task groups for ACI 544.5R-10 revisions
    • Chapter 1 – Introduction and scope
    • Chapter 2 – Notation, definitions, and acronyms
    • Chapter 3 – Physical properties of FRC
      • Creep
      • Shrinkage
      • Permeability and diffusion
      • Rheology
      • Electrical properties
      • Thermal conductivity
    • Chapter 4 – Durability of FRC
      • Extreme temperatures and fire
      • Freezing and thawing
      • Degradation and embrittlement due to alkali attack and bundle effect
      • Weathering and scaling
      • Corrosion resistance
    • Chapter 5 – Applications and durability-based design
      • Case studies of applications of FRC materials and durability
    • Chapter 6 - References

• OTHER BUSINESS / PRESENTATIONS / INFORMAL DISCUSSION OF PROJECTS & TECHNICAL SESSIONS

• ADJOURNMENT