AGENDA
ACI Committee 130 – Sustainability of Concrete

ACI Fall 2011 Convention, Tampa, Florida
Part 1: Monday, October 17, 2-5pm, C-232
Part 2: Tuesday, October 18, 11am-1pm, C-200

Monday Agenda

1) Welcome and Introductions

2) Approval of Spring 2011 minutes

3) Sustainability Sessions
   a) Sessions at this conference (Rowland)
      i) ACI & the Concrete Industry’s Approach to Green Building
         Wednesday, 9am-12pm, M-Meeting Room 4 (moderator: Larry Rowland)
      ii) Performance-Based Requirements for Concrete and Sustainability, Part 1
          Monday, 2-5pm, M-Meeting Room 1 (moderator: Ken Rear)
      iii) Performance-Based Requirements for Concrete and Sustainability, Part 1
           Tuesday, 9am-12pm, M-Meeting Room 1 (moderator: Mark Chrzanowski)
      iv) Contractor’s Day Lunch, Engineering the World’s Tallest Structure
          Tuesday, 12-2pm, M-Salon 6 (speaker: Larry Novak)
   b) Upcoming Sessions (Rowland)
   c) Topics for future conventions
      i) Spring 2012, Dallas, Texas (The Art of Concrete)
      ii) Fall 2012, Toronto, Ontario (Forming our Future)
      iii)

4) Sustainability Forum (Julie Buffenbarger, Koji Sakai)

5) JCI Conference on Concrete Sustainability 2013 (Koji Sakai)

6) Other conference/session/workshop announcements

7) JCI International Conference on Concrete Sustainability, 2013 (Sakai)

8) First ACI Concrete Sustainability Award (update on nominations)

9) Update on committee document, “Guide to Sustainable Concrete” (details during Tuesday meeting, see Exhibit A)
   a) Update on Chapters 4 & 5 (Kevin MacDonald & Matt Offenberg)
   b) Resolution of negatives on Chapter 13 (David Darwin & Kelsey Edwardsen)
   c) Resolution of negatives on Section 2.7 (Doug Hooton & Tom VanDam)

10) Adjournment of Monday meeting
**Tuesday Agenda**

1) Welcome and Introductions

2) Brief review of Monday meeting (Schokker)

3) Subcommittee Updates (focused on “Guide to Sustainable Concrete” progress and needs)
   a) 130A: Materials (Chairs: Doug Hooton & Tom VanDam)
   b) 130B: Production/Transportation/Construction (Chairs: Kevin MacDonald & Matt Offenberg)
   c) 130C: Structures in Service (Chair: Tracy Marcotte)
   d) 130D: Rating Systems/Sustainability Tools (Chairs: Jeff Volz, & Arezki Tagnit-Hamou)
   e) 130E: Design/Specifications/Codes/Regulations (Chairs: Mark Chrzanowski & Larry Church)
   f) 130F: Social Issues (Chair: David Darwin, Vice Chair: Kelsey Edwardsen)
   g) 130G: Education/Certification (Chairs: Larry Rowland & Khaled Awad)

4) Completion of any remaining business from the Monday meeting

5) New Business

6) Adjournment
GUIDE TO CONCRETE SUSTAINABILITY

Reported by ACI Committee 130

This report gives general information about concrete sustainability.....

Keywords: sustainability; green; environmental; …

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Chapter 1—Introduction
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1.2—Background
1.2—Scope
1.4—Limitations
1.5—Background on sustainability
1.6—Sustainable attributes for concrete

Chapter 2—Materials
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2.2—Non-Portland cement binders
2.3—Aggregates and fillers
2.4—Admixtures and additives
2.5—Water
2.6—Reinforcement

Chapter 3—Proportioning
3.1—Mixture proportion considerations
3.2—Overdesign implications

Chapter 4—Production and Transport
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4.4—Innovative green products
4.5—Industry resources and programs

Chapter 5—Construction
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5.2—Placement and post-placement
5.3—Health and Safety

Chapter 6—Structures in Service
6.1—Durability
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6.3—Historic preservation and cultural significance
6.4—Environmental impacts

Chapter 7—Rating Systems
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7.2—Recommended criteria for evaluating sustainability of concrete
7.3—LEED (Leadership in Energy and Environmental Design)
7.4—Green Globes
7.5—BREEAM (Building Research Environmental Assessment Method)
7.6—CASBEE (Comprehensive Assessment System for Built Environmental Efficiency)
7.7—Green Roads
7.8—GreenLITES (Leadership in Transportation and Environmental Sustainability)
7.9—U.S. Cities and LEED
7.10—CHPs (Collaborative for High Performance Schools)

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8.5—Concrete center thermal mass calculator
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8.10—Black boxes
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9.3—PCA high performance concrete
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Chapter 10—Specifications
10.1—Elements of a sustainable specification
10.2—Sample sustainable specifications
10.3—Specifics for ACI 301
Chapter 11—Codes
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Chapter 12—Regulations
12.1—Global
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Chapter 13—Social impacts
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Chapter 14—Environmental impacts
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15.2—Cost of maintenance
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Chapter 16—Summary and Conclusions

Chapter 17—References