

Meeting Agenda
ACI Committee 236: Material Science of Concrete
Monday, March 19, 2012, 4:30-5:30 pm
Hyatt Regency: Bryan-Beeman B
Dallas, Texas

1. Introductions
2. Purpose of meeting and review of agenda
3. Membership update
4. Review and approval of meeting minutes for Fall 2011
5. Report from TAC liaison Clarissa Ferraris
6. Sub-Committee and Task Group Reports

Sub-committee/Task Group		Chair	Meeting time	Location
236-B	Transport Mechanisms	Nokken	Sun 2:00pm-3:30pm	Reverchon A
236-D	Nanotechnology of Concrete	Sobolev	Sun 3:30pm-5:00pm Tue 1:00pm-3:00pm	Cumberland C Cumberland H
236-TG1	Advanced Analysis Techniques for Concrete	Boyd	Tue 3:00pm-4:00pm	Cumberland H
236-TG2	Sustainability Engineered by Materials Science	Rajabipour	Tue 11:30am-12:30pm	Pegasus A
236-TG4	Modeling and Simulation Methods	Sant	Tue 10:30am-12:30pm	Moreno B

Note on 236-B: TAC approved the development of the “Report on Methods of Measuring Transport Properties”

7. Liaison with other Committees

236 Member	Liaison to:
Kim Kurtis	EAC
Jan Olek	123, 211, 234, PUBC
Farshad Rajabipour	130
Tyler Ley	130A
Jason Ideker	201
Christopher Ferraro	207, 224, 228
David McDonald/Mahmoud Reda Taha	209
Maria Juenger/Zach Grasley	231
Clarissa Ferraris	238, 552
Dale Bentz	308
Jason Weiss	365
Narayanan Neithalath	522
Mahmoud Reda Taha	548
Other?	Other?

8. Update on publications in *Concrete International*

Papers suggested but not (yet) submitted

- Structural concrete with lightweight synthetic particles – M. D’Ambrosia
- Fly Ash – T. Ley
- Methods for testing concrete for permeability on site – M. Basheer and M. Nokken
- Calcium aluminate cements – J. Ideker and C. Gosselin
- Self-healing and bio-inspired materials – Mondal and Ferron
- Nanoparticles – K. Kurtis and A. Jayapalan
- Alternative cements from a materials science perspective – M. Juenger
- Alkali-activated slags – S. Peethamparan and A. Radlinska

9. Sessions at this convention:

The Art of Thermal Mass Modeling for Energy Conservation in Buildings, Parts 1 & 2

L. Rowland, F. Rajabipour, and S. Szoke (with 122, Energy Efficiency of Concrete and Masonry Systems and 130, Sustainability of Concrete)

Part 1: Monday, March 19, 1:30 PM – 3:30 PM, Reunion G

Part 2: Monday, March 19, 4:00 PM – 6:00 PM, Reunion G

Early-Age Hydration Kinetics and Temperature Effects on Concrete Durability, Parts 1 & 2:

J. Biernacki, Z. Grasley, and G. Sant (with 231, Properties of Concrete at Early Ages)

Part 1: Tuesday, March 20, 8:30 AM – 10:30AM, Reunion B

Part 2: Tuesday, March 20, 1:30 PM – 3:30 PM, Reunion C

Recent Advances in ASR Test Methods and Understanding Mitigation Mechanisms, Parts 1 & 2:

J. Ideker, A. Mukhopadhyay, and F. Rajabipour (with 201, Durability of Concrete)

Part 1: Tuesday, March 20, 1:30 PM – 3:30 PM, Reunion G

Part 2: Tuesday, March 20, 4:00 PM – 6:00 PM, Reunion G

Virtual Testing in the Cement Plant

W. Vichit-Vadakan, P. Sahachaiyunta, J. Bullard

Wednesday, March 21, 2:00 PM – 5:00 PM, Pegasus B

10. Future sessions:

Fall 2012 – Toronto – Forming our Future

(Sessions with preliminary approval – final session form must be submitted by Friday, 3/16)

- Teaching Sustainability to Current and Future Engineers – Rajabipour and Rowland (130G)
- Nano-based Cementitious and Polymeric Composites for Construction, Parts 1 & 2 – Taha
- Self-Healing and Bio-Mimetic Materials – Mondal and Wang
- Green Cements

Spring 2013 – Minneapolis - Responsibility in Concrete

(Sessions with preliminary approval)

- Green Cement Technology (Neithalath and Obla with 232)

Fall 2013 – Phoenix: Innovation in Conservation

- Cementitious Materials for Waste Containment (Kurtis, Sanchez, Juenger with Cozzi)

Suggestions with unspecified future dates

(Spring 2014 – Reno; Fall 2015 – Washington, D.C.; Spring 2015 – Kansas City)

- 2013: Inorganic mineral replacements in concrete (with an interest in high volume replacements >50%) (Sant) perhaps with 231 and 130
- 2013: Modeling and Simulation of Fluid and Ion Transport in Cementitious Materials (Sant, Isgor, Shahsavari)
- Alternative Binders for Repair Materials (Ideker and Radlinska)
- Transport (Claisse) perhaps combined with an effort in 224 on effects of cracking on durability

11. New Business and Announcements

12. Next meeting – Monday afternoon at ACI Fall 2013 in Toronto

13. Adjourn