

Meeting Agenda
ACI Committee 236: Material Science of Concrete
Monday, April 4, 2011, 4:30-5:30 pm
Marriott Grand I&J
Tampa, Florida

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

236-B Transport Mechanisms	Nokken
236-D Nanotechnology of Concrete	Sobolev
236-TG1 Advanced Analysis Techniques for Concrete	Boyd
236-TG2 Sustainability Engineered by Material Science	Rajabipour

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	209
Maria Juenger/Zach Grasley	231
Clarissa Ferraris	238, 552
Dale Bentz	308
Jason Weiss	365
Narayanan Neithalath	522
Mahmoud Taha	548
Other?	Other?

8. Update on publications in *Concrete International*

Papers published:

- Shrinkage and cracking resistance of ternary concrete under various curing conditions – M. Radlinksi, J. Olek, T. Nantung, published in January 2011

Papers in press:

- Early Age Carbonation Curing of Concrete Using Recovered CO₂: For performance enhancement, energy efficiency and carbon storage – X. Shao and Y. Lin – to be published in ???

Papers submitted:

- Revealing Concrete Quality by Surface Probing – Taha and Al-Haik – reviewed by 236 – with authors in revision
- Wood pulp fibers – B. Mohr – with authors in revision

Papers suggested but not (yet) submitted

- Structural concrete with lightweight synthetic particles – M. D’Ambrosia – agreed to send abstract
- Air void shells in air-entrained systems – T. Ley – will talk to Donahey before submitting abstract
- Methods for testing concrete for permeability on site – M. Basheer - agreed to send abstract
- Calcium aluminate cements – J. Ideker – agreed to send abstract
- Self-healing and bio-inspired materials – Mondal - agreed to send abstract

9. Sessions at this convention:

Performance-Based Specifications and Testing: Parts I, II and III - Basheer and Ferraro with Obla and Neithalath (201)

Part I: Monday 9am-12, Marriott Salon 4

Part II: Tuesday 2pm-5, Marriott Salon 4

Part III: Wednesday 9am-12, Marriott Salon 4

10. Future sessions

Fall 2011 – Cincinnati – Bridging Theory and Practice

- Multiple-Type Durability Attack, Parts I and II – Don Janssen (201) and Peethampanan
- Fiber Reinforced Concrete – Smart Materials and Sensors, Parts I and II

Spring 2012 – Dallas

- Kinetics of Hydration (and Durability Reactions) – Biernacki and Grasley with 231 (Early Age)
- Transport Properties – Claisse
- Alkali Silica Reaction – Ideker and Rajabipour with 201 (Durability) and 221 (Aggregates)

Fall 2012 – Toronto – Forming our Future

- Nano-materials in Concrete – Taha
- Self-healing and bio-mimetic materials – Mondal and Wang

Suggestions with unspecified dates

- Smart materials and Sensors – Popovics and Shah
- Alternative binders for repair materials – Ideker

11. New Business and Announcements

12. Next meeting – Monday afternoon at ACI Fall 2011 in Cincinnati

13. Adjourn