

Meeting Agenda
ACI Committee 236: Material Science of Concrete
March 16, 2009, 4-6 pm
Conference Room 12, Marriott Rivercenter
San Antonio, Texas

1. Introductions
2. Purpose of meeting and review of agenda
3. Membership update
4. Review and approval of meeting minutes for Fall 2008
5. Report from TAC liaison David Lange
6. Resolution of Spring 2008 ballot on “Definitions-Transport Mechanisms” (must satisfy 40% rule)
7. Sub-Committee Reports
 - 236-B (Transport Mechanisms) Basheer
 - 236-C (Computational Materials Science) Tanesi
 - 236-D (Nanotechnology of Concrete) Sobolev
8. Liaison with other Committees

236 Member	Liaison to:
Kim Kurtis	EAC
Mahmoud Taha	548
Narayanan Neithalath	522
Dale Bentz	308
Jason Weiss	365
David McDonald	209
Jan Olek	123, 211, 234
Christopher Ferraro	228, 207
Jason Ideker	201
Maria Juenger	231
Clarissa Ferraris	238, 552
Other?	Other?

9. Discussion of committee support for proposal to be submitted to CRC
 - Setting and Formwork Pressure of Self-Compacting Concrete
 - Struble, Lange, Popovics
10. Update on publications in *Concrete International*

Papers submitted:

 - Solidification, Parts I and II – Sant, Weiss, Bentz, et al. – reviewed by 236 – revised by authors – submitted to CI – in press?
 - Nanotechnology Revolution in Concrete – Sanchez and Sobolev – reviewed by 236 – with authors in revision
 - Revealing Concrete Quality by Surface Probing – Taha and Al-Haik – reviewed by 236 – with authors in revision
 - Paper linking maturity with conductivity – D. Hooten and M. Nokken – with authors in revision
 - Wood pulp fibers – B. Mohr – with authors in revision
 - Effects of curing regimes on ternary mixes – M. Radlinksi, J. Olek, T. Nantung – reviewed by 236 – with authors in Revision

Papers suggested but not (yet) submitted

- Methods for testing concrete for permeability on site – M. Basheer
- Effect of liquid nitrogen on hydration and microstructure – M. Juenger
- Pervious concrete – N. Neithalath
- Air void shells in air-entrained systems – T. Ley
- Calcium aluminate cements – J. Ideker
- Nanoparticles – K. Sobolev (based on Greene's work)
- Overview of modeling on cement-based materials – J. Tanesi
- Materials Science perspective on SCC - suggested by Lange.
- Multi-scale Concrete Performance – Biernacki, Grasley, Sanchez
- Materials Science of Foamed Concrete – Sobolev and Hoff

11. Sessions at this convention:

- Early age test methods for performance specifications (Part 2), - Z. Grasley, co-sponsored with 231, Tuesday, March 17, 9:00 AM - 12:00 PM, SALON J
- Concrete Thixotropy and Implication on Performance of SCC, C. Ferraris and K. Khayat, co-sponsored with 238, Tuesday, March 17, 2:00 PM - 5:00 PM, SALON C

12. Future sessions

Fall 2009 - New Orleans – Spice Up Your Concrete

- Temperature Effects on Concrete Durability – ½ day, J. Olek and J. Biernacki - approved
- Materials science modeling as a solution to concrete problems - full-day with SP - Tanesi and Sobolev – approved, papers under review
- Nanotechnology of Concrete – full-day with SP - Sobolev – preliminary approval
- Permeation Methods – M. Basheer?

Spring 2010 – Chicago – Xtreme Concrete

- Materials Science Aspects of Cements – 1-day?, co-sponsored with ACBM – J. Ideker and A. Radlinska
- By-products utilization – Sobolev (Waste Utilization Center) and PCA.

Fall 2010 – Pittsburgh – Green Concrete in the Steel City

- Green cements/environmentally friendly, cost effective binder systems – Olek and Tanesi

Spring 2010 and beyond

- Spring 2010 – Tampa – Concrete: The Strength of Florida
- Fall 2011 – Cincinnati – Bridging Theory and Practice

13. New Business and Announcements

14. Next meeting – Monday afternoon at ACI Fall 2009 in NOLA

15. Adjourn