Meeting Agenda
ACI Committee 236: Material Science of Concrete
Monday, April 18, 2016 4:30-5:30pm
C-202 C
Milwaukee, WI USA

1. Introductions
2. Purpose of meeting and review of agenda
3. Membership update
4. Review and approval of meeting minutes from Fall 2016
5. Report from TAC contact Kimberly Kurtis
6. Sub-committee and task group reports

<table>
<thead>
<tr>
<th>Sub-committee/Task Group</th>
<th>Chair</th>
<th>Meeting time</th>
<th>Location</th>
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<tbody>
<tr>
<td>236-TG1</td>
<td>J. Hartell</td>
<td>Sun 3-4 pm</td>
<td>C-201 B</td>
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SC/TG Documents
- 236.XR: Advanced Analysis Techniques for Hardened Concretes (J. Hartell)

7. Liaison with other Committees

<table>
<thead>
<tr>
<th>236 Member</th>
<th>Liaison to:</th>
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<tbody>
<tr>
<td>Kim Kurtis</td>
<td>EAC</td>
</tr>
<tr>
<td>Jan Olek</td>
<td>123, 211, 234</td>
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<tr>
<td>Farshad Rajabipour</td>
<td>130</td>
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<tr>
<td>Tyler Ley</td>
<td>130A</td>
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<tr>
<td>Jason Ideker</td>
<td>201</td>
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<tr>
<td>Christopher Ferraro</td>
<td>207, 224</td>
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<tr>
<td>Matthew D’Ambrosia/Mahmoud Reda Taha</td>
<td>209</td>
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<td>Prasad Rangaraju</td>
<td>221, 232, 233</td>
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<td>Andrew Boyd</td>
<td>228</td>
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<td>Maria Juenger/Zach Grasley</td>
<td>231</td>
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<td>Clarissa Ferraris</td>
<td>238, 552</td>
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<td>Dale Bentz</td>
<td>308</td>
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<tr>
<td>Jason Weiss</td>
<td>365</td>
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<tr>
<td>Narayanan Neithalath</td>
<td>522</td>
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<tr>
<td>Mahmoud Reda Taha</td>
<td>548</td>
</tr>
<tr>
<td>Konstantin Sobolev</td>
<td>241</td>
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<td>Other?</td>
<td>Other?</td>
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8. Update on publications in *Concrete International*

Papers published since the last convention


Paper accepted for publication (for May CI)

Papers suggested but not (yet) submitted
- Methods for testing concrete for permeability on site – M. Basheer and M. Nokken
- Self-healing and bio-inspired materials – P. Mondal and R. Ferron
- An innovative approach for formulating ASR resistant mixtures – A. Mukhopadhyay and K.-W. Liu. A. Mukhopadhyay
- Aggregate optimization or SCC - K. Sobolev
- Rheology and its interpretation for cement-based materials – K. Khayat
- Effect of magnesium chloride deicer on concrete – X. Shi

Email M. Juenger if you have an idea for a paper.

9. Sessions at this convention:

Fly Ash in Concrete Tribute to Tarun R. Naik, Part 1 of 2
   Tuesday, April 19, 2016 8:30 AM - 10:30 AM, C-202 D
   Moderators: Konstantin Sobolev, Bruce W Ramme

Fly Ash in Concrete Tribute to Tarun R. Naik, Part 2 of 2
   Tuesday, April 19, 2016 4:00 PM - 6:00 PM, C-202 D
   Moderators: Konstantin Sobolev, Bruce W Ramme

Nanoscale Fiber-Reinforced Concrete, Part 1 of 2
   Monday, April 18, 2016 8:30 AM - 10:30 AM, C-202 B
   Moderators: Konstantin Sobolev, Maria S Konsta

Nanoscale Fiber-Reinforced Concrete, Part 2 of 2
   Monday, April 18, 2016 11:00 AM - 1:00 PM, C-202 B
   Moderators: Konstantin Sobolev, Surendra P Shah

Further Investigations of Carbon Dioxide Utilization in Concrete
   Sunday, April 17, 2016 1:00 PM - 3:00 PM, C-202 B
   Moderators: Sean Monkman, Yixin Shao

Advances in the Use of Polymers in Concrete, Part 1 of 2
   Wednesday, April 20, 2016 8:30 AM - 10:30 AM, C-202 E
   Moderators: Mahmoud M Reda Taha, Michael S Stenko

Advances in the Use of Polymers in Concrete, Part 2 of 2
   Wednesday, April 20, 2016 11:00 AM - 1:00 PM, C-202 E
   Moderators: Mahmoud M Reda Taha, Jay Lee

10. Future sessions:

   SP and session deadlines:
   http://www.concrete.org/Portals/0/Files/PDF/SPandTechnicalSessionDeadlines.pdf

   Fall 2016 – Philadelphia
   (Submit prelim. session request by November 13, 2015; Submit final session request by April 16, 2016)

   On ACI 236 website
   - Chemically-Activated Binders for Concrete, Part 1 of 2 (RILEM Co-sponsorship)
     ACI Fall Convention 2016 - Philadelphia, PA (M. Juenger, G. Sant, I. Diaz-Loya);
   - Chemically-Activated Binders for Concrete, Part 2 of 2 (RILEM Co-sponsorship)
     ACI Fall Convention 2016 - Philadelphia, PA (M. Juenger, G. Sant, I. Diaz-Loya);
   - Nanotechnology for Improved Concrete Performance, Part 1 of 2
     ACI Fall Convention 2016 - Philadelphia, PA (M. Reda Taha);
- Nanotechnology for Improved Concrete Performance, Part 2 of 2
  ACI Fall Convention 2016 - Philadelphia, PA (M. Reda Taha);
  Not on ACI 236 website
- Materials science and life-cycle analysis co-sponsored by 130. (S. Miller, J. Gregory)
- Do we need a Type 6 cement? (J. Ideker);

**Spring 2017 Detroit**

(Submit prelim. session request by April 22, 2016; Submit final session request by October 28, 2016)
- Issue of dispersion of nanomaterials in cement-based materials (S. Kawashima, K. Wang, K. Sobolev);
- Connecting materials science and durability prediction (sponsored by 201, co-sponsored by 236) (P. Tennis);
- Thermal testing and calorimetry applications for concrete QC/QA, and troubleshooting (co-sponsored with 231) (Tim Cost, Anton Schindler, Wayne Wilson);

**Fall 2017 Anaheim**

(Submit prelim. session request by October 28, 2016; Submit final session request by May 1, 2017)
- Modeling cement hydration (X. Shi, A. Kumar);
- Inorganic mineral replacements in concrete (with an interest in high volume replacements >50%) (G. Sant);

Suggestions with unspecified future dates

**Sp 2018 Louisville – F 2018 Las Vegas**
- Materials science of aggregates and their role in concrete performance (J. Ideker) Co-sponsor with 221 (Dave Rothstein);
- Nanoceramics (M. Nokken);
- Nothing works for ASR (J. Ideker);

11. New business and announcements
12. Next meeting – Monday afternoon at ACI Fall 2016 in Philadelphia, PA
13. Adjourn
# SP and Technical Session Deadlines

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<tr>
<td>Constructability</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>Please contact staff if the deadlines cannot be met</td>
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<tr>
<td>Preliminary Session Request</td>
<td>October 31, 2014</td>
<td>April 17, 2016</td>
<td>November 13, 2015</td>
<td>April 22, 2016</td>
<td>October 28, 2016</td>
<td>May 1, 2017</td>
<td>Friday after the Convention one year before the Session</td>
</tr>
<tr>
<td>Call for Papers in Concrete International requested</td>
<td>July 9, 2014</td>
<td>December 17, 2014</td>
<td>June 24, 2015</td>
<td>December 26, 2015</td>
<td>June 15, 2016</td>
<td>December 24, 2016</td>
<td>16 Months before the Session but after Preliminary Approval received</td>
</tr>
<tr>
<td>(Co)Moderator Training completed</td>
<td>April 12, 2015</td>
<td>November 8, 2015</td>
<td>April 17, 2016</td>
<td>October 23, 2016</td>
<td>April 26, 2017</td>
<td>October 15, 2017</td>
<td>At least one Convention before the Session</td>
</tr>
<tr>
<td>Final Session Request</td>
<td>April 17, 2015</td>
<td>November 13, 2015</td>
<td>April 22, 2016</td>
<td>October 28, 2016</td>
<td>May 1, 2017</td>
<td>October 20, 2017</td>
<td>Friday after the preceding Convention (late submissions cannot be accepted)</td>
</tr>
<tr>
<td>SP Preliminary Request if it is to be available at Session</td>
<td>May 9, 2014</td>
<td>October 17, 2014</td>
<td>April 24, 2015</td>
<td>October 26, 2015</td>
<td>April 15, 2016</td>
<td>October 24, 2016</td>
<td>18 Months before the Session</td>
</tr>
<tr>
<td>SP Final Material if it is to be available at Session</td>
<td>August 8, 2015</td>
<td>January 16, 2016</td>
<td>July 23, 2016</td>
<td>January 24, 2017</td>
<td>July 15, 2017</td>
<td>January 23, 2018</td>
<td>3 Months before the Session</td>
</tr>
<tr>
<td>SP Final Material if produced after Session</td>
<td>November 7, 2017</td>
<td>April 17, 2018</td>
<td>October 23, 2018</td>
<td>April 26, 2019</td>
<td>October 15, 2019</td>
<td>April 24, 2020</td>
<td>2 Years after the Session at the latest</td>
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Other upcoming conferences of interest:

- Fifth International Conference on Durability of Concrete Structures (ICDS) 2016, Univ. of Shenzhen, China, June 29-July 1, 2016.
- First International Interactive Symposium on UHPC, Des Moines, Iowa, USA, July 18-20, 2016 http://register.extension.iastate.edu/uhpc2016
- ACI co-sponsored Fourth International Conference on Sustainable Construction Materials and Technologies (SCMT4), Las Vegas, Nevada, USA, August 7-11, 2016 http://www.scmt.org.uk/SCMT4.htm
- ACI co-sponsored 3rd International RILEM Conferences on Microstructure Related Durability of Cementitious Composites (Microdurability 2016), October 24-26, 2016, Nanjing, China

Websites listing additional relevant conferences:
http://www.concrete.org/Events/EventsCalendar.aspx