Meeting Agenda
ACI Committee 236: Material Science of Concrete
Monday, November 9, 2015 4:30-5:30pm
Plaza Ballroom E
Denver, CO USA

1. Introductions
2. Purpose of meeting and review of agenda
3. Membership update
4. Review and approval of meeting minutes from Spring 2015
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>
</tr>
</thead>
<tbody>
<tr>
<td>236-TG1</td>
<td>Advanced Analysis Techniques for Concrete</td>
<td>J. Hartell</td>
<td>Sun 3-4 pm</td>
</tr>
</tbody>
</table>

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>
</tr>
</thead>
<tbody>
<tr>
<td>Kim Kurtis</td>
<td>EAC</td>
</tr>
<tr>
<td>Jan Olek</td>
<td>123, 211, 234</td>
</tr>
<tr>
<td>Farshad Rajabipour</td>
<td>130</td>
</tr>
<tr>
<td>Tyler Ley</td>
<td>130A</td>
</tr>
<tr>
<td>Jason Ideker</td>
<td>201</td>
</tr>
<tr>
<td>Christopher Ferraro</td>
<td>207, 224</td>
</tr>
<tr>
<td>David McDonald/Mahmoud Reda Taha</td>
<td>209</td>
</tr>
<tr>
<td>Prasad Rangaraju</td>
<td>221, 232, 233</td>
</tr>
<tr>
<td>Andrew Boyd</td>
<td>228</td>
</tr>
<tr>
<td>Maria Juenger/Zach Grasley</td>
<td>231</td>
</tr>
<tr>
<td>Clarissa Ferraris</td>
<td>238, 552</td>
</tr>
<tr>
<td>Dale Bentz</td>
<td>308</td>
</tr>
<tr>
<td>Jason Weiss</td>
<td>365</td>
</tr>
<tr>
<td>Narayanan Neithalath</td>
<td>522</td>
</tr>
<tr>
<td>Mahmoud Reda Taha</td>
<td>548</td>
</tr>
<tr>
<td>Konstantin Sobolev</td>
<td>241</td>
</tr>
<tr>
<td>Other?</td>
<td>Other?</td>
</tr>
</tbody>
</table>

8. Update on SP from session honoring Jim Beaudoin (M. Pour-Ghaz)

9. Update on publications in *Concrete International*
   Papers published since the last convention
   NA
   Papers upcoming
   - 2 papers are under review or revision for resubmission
   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
- Pavement Joint Deterioration: Using Low Temperature Differential Scanning Calorimetry to Quantify Calcium Oxychloride – W.J. Weiss
- An innovative approach for formulating ASR resistant mix – A. Mukhopadhyay and K.-W. Liu
- Aggregate optimization or SCC - K. Sobolev

10. Sessions at this convention:
Carbon Dioxide Utilization in Concrete
   Monday, November 9, 2015 4:00 PM - 6:00 PM, GOVERNOR'S SQUARE 11

Cement-Admixture Interaction, Part 1 of 2
   Sunday, November 8, 2015 1:00 PM - 3:00 PM, GOVERNOR'S SQUARE 12

Cement-Admixture Interaction, Part 2 of 2
   Sunday, November 8, 2015 3:30 PM - 5:30 PM, GOVERNOR'S SQUARE 12

Cementitious Materials for Nuclear Waste Storage and Disposal, Part 1 of 2
   Wednesday, November 11, 2015 8:30 AM - 10:30 AM, GOVERNOR'S SQUARE 12

Cementitious Materials for Nuclear Waste Storage and Disposal, Part 2 of 2
   Wednesday, November 11, 2015 11:00 AM - 1:00 PM, GOVERNOR'S SQUARE 12

Methods for Measurement and Mitigation of Early-Age Deformations, Part 1 of 2
   Tuesday, November 10, 2015 1:30 PM - 3:30 PM, GOVERNOR'S SQUARE 12

Methods for Measurement and Mitigation of Early-Age Deformations, Part 2 of 2
   Tuesday, November 10, 2015 4:00 PM - 6:00 PM, GOVERNOR'S SQUARE 12

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

Spring 2016 – Milwaukee
   (Submit final session request by Nov. 13, 2015)
   - Fly Ash in Concrete Tribute to Tarun R. Naik (K. Sobolev); Session has preliminary approval.
   - Nanoscale Fiber-Reinforced Concrete (K. Sobolev); Session has preliminary approval.
   - Further Investigations of Carbon Dioxide Utilization in Concrete (S. Monkman); Session has preliminary approval.
   - Advances in the Use of Polymers in Concrete (M. Reda Taha); Session delayed from Fall 2015.
   Co-Sponsored session topics:
   - Modeling of Fresh Concrete flow (P. Billberg, 237)

Fall 2016 – Philadelphia
   (Submit prelim. session request by November 13, 2015; Submit final session request by April 16, 2016)
   - Nanotechnology for Improved Concrete Performance (M. Reda Taha); Session has preliminary approval. M. Reda Taha: We have 3 speakers, looking for 2 sessions.
   - Chemically Activated Binders for Concrete (M. Juenger, G. Sant, I. Diaz-Loya); M. Juenger: Session has preliminary approval. Have requested RILEM co-sponsorship. Are looking for speakers.

Suggestions with unspecified future dates
   - Inorganic mineral replacements in concrete (with an interest in high volume replacements >50%) (G. Sant)
- Materials science of aggregates and their role in concrete performance (J. Ideker) Co-sponsor with 221 (Dave Rothstein)
  Nanoceramics (M. Nokken)
12. Notice of interlab study on ASTM C78/AASHTO T97 (J. Tanesi)
13. New business and announcements
14. Next meeting – Monday afternoon at ACI Spring 2016 in Milwaukee, WI
15. Adjourn
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Preliminary Session Request</td>
<td>October 31, 2014</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>Friday after the Convention one year before the Session</td>
</tr>
<tr>
<td>Call for Papers in Concrete or International requested</td>
<td>July 0, 2014</td>
<td>December 17, 2014</td>
<td>June 24, 2015</td>
<td>December 28, 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>
</tr>
</tbody>
</table>
Special Feature:
A special session will be dedicated to Professor Mark Alexander for his outstanding contribution to the field of durability of concrete structures and his tireless efforts in the international scientific community.

Structure & Language:
There will be plenary lectures, oral presentations, and posters. The conference language is English.

Publication:
After the review process, all accepted papers will be published in ISEEN conference proceedings.

Conference Fees:
<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-time students</td>
<td>USD 180</td>
</tr>
<tr>
<td>Early bird (by 30th Nov 2015)</td>
<td>USD 450</td>
</tr>
<tr>
<td>Normal registration</td>
<td>USD 550</td>
</tr>
<tr>
<td>RILEM / ACI members</td>
<td>USD 400</td>
</tr>
</tbody>
</table>

Important Dates:
- Abstract submission: 5th June 2015
- Acceptance of abstract: 15th June 2015
- Full paper submission: 31st August 2015
- Final paper review: 30th October 2015
- Advanced registration: 30th November 2015

Abstract format:
Please submit abstract to the address: accta@bam.de

Abstracts should include:
- Full name, Affiliation, 300 words (max)

Pre-conference Workshop:
Pre-conference courses cover the following topics:
- Durability, corrosion and service life
- Flowable concrete, rheology, formwork pressure
- Admixtures and additions
- Sustainability of raw materials, concrete and related materials
- Structural design with concrete
- Green concrete
- Quality control and standardization

Dates: 25th – 26th January 2016

Enquiries:
Mrs. Lubica Korac
School of Civil & Environmental Engineering, University of the Witwatersrand, Johannesburg
Tel: +27 117 177 104; Fax: +27 865 535 345
Email: accta@bam.de

Ms. Ndesheye Susan Mainjili
BAM Federal Institute for Materials Research and Testing, Berlin
Tel: +49 30 8104 4543; Fax: +49 30 8104 1717
Email: accta@bam.de

27th – 29th January 2016
Emperor’s Palace
Johannesburg, South Africa

Website: www.accta2015.com

NOTE: PRINTED COPIES WILL NOT BE AVAILABLE ONSITE!
CALL FOR PAPERS

SAMPLE TOPICS

(1) Ordinary portland cement based binders, including high-temperature processing, reactions with water, and additives for reaction/performance regulation, and composition-property relations,

(2) Alternative binders, that is, those based on alternate (non-Portland) chemistries, composition-performance relationships, insights from composition-properties relations in modified silicate glasses,

(3) Control and evolution of microstructure in the context of setting, and mechanical properties, the role of additives, similarities with jamming/glass transitions.

(4) Structural evolution with time, loading, and moisture variations, which results in creep and shrinkage, its assessment and prediction. Such behavior shares similarities with aging in soft matter and glasses.

(5) Transport of moisture, ions, and steel corrosion dynamics. Special focus is placed on means for predictions, and corrosion inhibition.

GUEST SPEAKERS

To be announced

ABSTRACT SUBMISSION

Please submit your abstract online on www.igcmat.com

Deadline: August 1, 2015

REGISTRATION

Please register online on www.igcmat.com

Deadline for discounted registration fees: February 5, 2016

Cementing the FUTURE

1st INTERNATIONAL CONFERENCE ON “GRAND CHALLENGES IN CONSTRUCTION MATERIALS”

When: March 17-18, 2016
Where: University of California, Los Angeles
Who: Leading experts in construction materials, from academia, industry, and governmental agencies

www.igcmat.com

NOTE: PRINTED COPIES WILL NOT BE AVAILABLE ONSITE!
Other upcoming conferences of interest:

- ACI co-sponsored 4th International Symposium on Ultra-High Performance Concrete (UHPC), March 9-11, 2016, Kassel, Germany
- 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](http://register.extension.iastate.edu/uhpc2016)
- 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](http://www.concrete.org/Events/EventsCalendar.aspx)