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**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

Sub-committee/Task Group	Chair	Meeting time	Location
236-TG1 Advanced Analysis Techniques for Concrete	J. Hartell	Sun 3-4 pm	Grand Ballroom I

SC/TG Documents

- 236.XR: Advanced Analysis Techniques for Hardened Concretes (J. Hartell)

7. Liaison with other Committees

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

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

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- 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

Sp 2017 Detroit – F 2017 Anaheim – Sp 2018 Louisville – F 2018 Las Vegas

- Inorganic mineral replacements in concrete (with an interest in high volume replacements >50%) (G. Sant)

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- 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

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SP and Technical Session Deadlines

	Denver, CO Fall 2015 November 8-12, 2015	Milwaukee, WI Spring 2016 April 17-21, 2016	Philadelphia, PA Fall 2016 October 23-27, 2016	Detroit, MI Spring 2017 March 26-30, 2017	Anaheim, CA Fall 2017 October 15-19, 2017	Louisville, KY Spring 2018 March 25-29, 2018	Deadline Requirements
<i>Convention Theme</i>	<i>Constructability</i>	<i>TBD</i>	<i>Revolutionary Concrete</i>	<i>TBD</i>	<i>TBD</i>	<i>TBD</i>	<i>Please contact staff if the deadlines cannot be met</i>
Preliminary Session Request	October 31, 2014	April 17, 2015	November 13, 2015	April 22, 2016	October 28, 2016	May 1, 2017	Friday after the Convention one year before the Session
Call for Papers in <i>Concrete International</i> requested	July 9, 2014	December 17, 2014	June 24, 2015	December 26, 2015	June 15, 2016	December 24, 2016	16 Months before the Session but after Preliminary Approval received
All Abstracts received by Moderator	March 9, 2015	August 17, 2015	February 22, 2016	August 25, 2016	February 13, 2017	August 24, 2017	8 Months before the Session
(Co)Moderator Training completed	April 12, 2015	November 8, 2015	April 17, 2016	October 23, 2016	April 26, 2017	October 15, 2017	At least one Convention before the Session
Final Session Request	April 17, 2015	November 13, 2015	April 22, 2016	October 28, 2016	May 1, 2017	October 20, 2017	Friday after the preceding Convention (late submissions cannot be accepted)
SP Preliminary Request if it is to be available at Session	May 9, 2014	October 17, 2014	April 24, 2015	October 26, 2015	April 15, 2016	October 24, 2016	18 Months before the Session
SP Final Material if it is to be available at Session	August 8, 2015	January 16, 2016	July 23, 2016	January 24, 2017	July 15, 2017	January 23, 2018	3 Months before the Session
SP Final Material if produced after Session	November 7, 2017	April 17, 2018	October 23, 2018	April 26, 2019	October 15, 2019	April 24, 2020	2 Years after the Session at the latest

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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 ISBN conference proceedings.

Conference Fees:

Full-time students:	USD 180
Early bird (by 30 th Nov 2015):	USD 450
Normal registration:	USD 550
RILEM / ACI members:	USD 400

Important Dates:

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

Hosted by:
The University of the
Witwatersrand, Johannesburg,
South Africa



Technically supported by:
Federal Institute for Materials
Research and Testing,
Berlin, Germany



University of Zagreb,
Croatia



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International Conference on Advances
in Cement and Concrete Technology in Africa



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

Website: www.accta2016.com

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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

ACI Co-Sponsored!



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

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Other upcoming conferences of interest:

- 2nd International Conference on Advances in Cement and Concrete Technology in Africa (ACCTA), Emperor's Palace, Johannesburg, South Africa, January 27-29, 2016 www.accta2016.com.
- ACI co-sponsored 4th International Symposium on Ultra-High Performance Concrete (UHPC), March 9-11, 2016, Kassel, Germany
- ACI co-sponsored RILEM SCC 2016, Washington, DC, USA, May 15-18, 2016 <http://www.scc2016.com/>
- Fifth International Conference on Durability of Concrete Structures (ICDS) 2016, Univ. of Shenzhen, China, June 29-July 1, 2016.
- 7th Advances in Cement-Based Materials, Evanston, IL, USA, July 11-13, 2016 <http://ceramics.org/acers-community/division-pages/cements-division>
- 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.rilem.org/gene/main.php?base=600040>

<http://www.concrete.org/Events/EventsCalendar.aspx>