ACI Concrete Convention
and Exposition

Sunday, March 26, 2017 - 10:00 am - 11:30 am
Marriott at the Renaissance Center, H-Ambassador Salon 1

International Forum - RILEM Report
Some Highlights

ir. Johan Vyncke
Director Research & Innovation BBRI
President of RILEM
Meeting with ACI in Paris, 18 Sept. 2014

ACI: Bill Rushing, President; Ron Burg, Executive Vice President
RILEM: Johan Vyncke, Vice President; Pascale Ducornet, SG; Nicolas Roussel, TAC Chair

Selected Points for Consideration:

– RILEM liaison member in ACI TCs
– Reciprocal Membership at reduced rates
– ACI - RILEM Joint Workshop on a specific technical topic (e.g. run joint sessions at ACI conventions, ACI and RILEM speakers; jointly publish session reports)
– Explore potential synergies for ACI and RILEM running TC’s
<table>
<thead>
<tr>
<th>Committee Code</th>
<th>Committee Name</th>
<th>Day</th>
<th>Time</th>
<th>Room</th>
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<tr>
<td>549-L</td>
<td>Liaison - Thin Reinforced Cementitious Products and Ferrocement</td>
<td>Sunday</td>
<td>9:00 AM - 11:00 AM</td>
<td>R-Waterfront</td>
</tr>
<tr>
<td>549 RILEM TC 250-CSM Composites for Sustainable Strengthening of Masonry Gianmarco De Felice</td>
<td>Sunday</td>
<td>11:00 AM - 1:00 PM</td>
<td>H-Cadillac B</td>
<td></td>
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<tr>
<td>238 RILEM TC 266-MRP: Measuring Rheological Properties of Cement-based Materials Mohammed Sonebi</td>
<td>Sunday</td>
<td>1:00 PM - 5:30 PM</td>
<td>H-Ambassador Salon 3</td>
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<td></td>
<td>Mini-Session: European Specifications for SCC and Review of the Most Recent RILEM Performance Specifications Geert De Schutter &amp; Mark Alexander</td>
<td>Monday</td>
<td>11:15 AM - 12:15 PM</td>
<td>H-Cartier</td>
</tr>
<tr>
<td>123 Forum: Does 3-D Printing Have a Concrete Future in Our World and Beyond? RILEM TC Digital Construction with Cementitious Materials Nicolas Roussel</td>
<td>Monday</td>
<td>6:30 PM - 8:30 PM</td>
<td>H-Ambassador Salon 1</td>
<td></td>
</tr>
<tr>
<td>238</td>
<td>Workability of Fresh Concrete</td>
<td>Tuesday</td>
<td>8:00 AM - 10:00 AM</td>
<td>H-Renoir</td>
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ACI CONVENTION 2017 | DETROIT | RILEM SPRING MEETING

ACI Technical Committees & joint ACI-RILEM Conventions convening

American Concrete Institute
Always advancing

International Union of Laboratories & Experts in Construction Materials, Systems & Structures
## RILEM Colonnetti Award

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<tbody>
<tr>
<td></td>
<td>Prof. Gaurav Sant, UCLA</td>
<td>Wednesday</td>
<td>9:00 AM - 10:30 AM</td>
<td>H-Ambassador Salon 3</td>
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<td></td>
<td>Prof. Enrico Sassoni, Princeton &amp; Bologna</td>
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## RILEM Standing Committee Meetings

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<tbody>
<tr>
<td>DAC</td>
<td>Development Advisory Committee</td>
<td>Wednesday</td>
<td>11:00 AM - 5:00 PM</td>
<td>H-Lasalle A</td>
</tr>
<tr>
<td>TAC</td>
<td>Technical Activities Committee</td>
<td>Wednesday</td>
<td>11:00 AM - 5:00 PM</td>
<td>H-Lasalle B</td>
</tr>
<tr>
<td>DEV</td>
<td>Development Meeting</td>
<td>Wednesday</td>
<td>5:00 PM - 6:00 PM</td>
<td>H-Lasalle A</td>
</tr>
<tr>
<td>BUR</td>
<td>Bureau</td>
<td>Thursday</td>
<td>9:00 AM - 5:00 PM</td>
<td>H-Lasalle A</td>
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**ACI CONVENTION 2017 | DETROIT**

**International Union of Laboratories & Experts in Construction Materials, Systems & Structures**
Kamal Khayat

Professor, Civil Engineering
Missouri University of Science & Technology

RILEM Regional Convener for North America

Awardee ACI Foundation Award
J.C. ROUMAIN
Regional Groups & National Groups

International Partnerships

ACI CONVENTION
American Concrete Institute
Always advancing

2017 | DETROIT

RILEM SPRING MEETING
International Union of Laboratories & Experts in Construction Materials, Systems & Structures
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RILEM annual report - 2016
Colossal statue base decorated with bound prisoners
Seti I memorial temple in Gurna
suffering badly from salt crystallization

Salt crystallization damage to stone by continuous partial immersion in sodium sulphate solution.

RILEM TC ASC
Accelerated laboratory test for the assessment of the durability of materials.

Ioannis Ioannou
Building Materials Laboratories, University of Cyprus.
TC’s are the Hart of all Activity

35 TCs are active in 6 Clusters
4 Clusters pertaining to concrete

Material Processing and Characterization
Barzin MOBASHER, Arizona State University, USA

Transport and Deterioration Mechanisms
Esperanza MENÉNDEZ MÉNDEZ, IETcc (CSIC), Spain

Structural Performance and Design
Takafumi NOGUCHI, University of Tokyo, Japan

Service Life and Environmental Impact Assessment
Kefei LI, Tsinghua University, China

Masonry and Timber
Paulo LOURENCO, University of Minho, Portugal

Bituminous Materials and Polymers
Hervé DI BENEDETTO, ENTPE, France
### Cluster A. Material Processing and Characterization

<table>
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<tr>
<th>TC</th>
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<tr>
<td>MRP (Sonebi)</td>
<td>Measuring rheological properties of cement-based materials</td>
</tr>
<tr>
<td>TRM (Scrivener)</td>
<td>Tests for reactivity of supplementary cementitious materials</td>
</tr>
<tr>
<td>RAP (Tebaldi)</td>
<td>Asphalt Pavement Recycling</td>
</tr>
<tr>
<td>RSC (Mechtcherine)</td>
<td>Recommendations for use of superabsorbent polymers in concrete construction</td>
</tr>
<tr>
<td>CCF (Serna)</td>
<td>Creep behavior in cracked sections of fiber reinforced concrete</td>
</tr>
</tbody>
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### Cluster B. Transport and Deterioration Mechanisms

<table>
<thead>
<tr>
<th>TC</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>SCI (Ueli Angst)</td>
<td>Characteristics of the steel/concrete interface and their effect on initiation of chloride-induced reinforcement corrosion</td>
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### Cluster C. Structural Performance and Design

<table>
<thead>
<tr>
<th>TC</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>RAC (Xiao)</td>
<td>Structural behaviour and innovation of recycled aggregate concrete</td>
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### Cluster D. Service Life and Environmental Impact Assessment

<table>
<thead>
<tr>
<th>TC</th>
<th>Topic</th>
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<tbody>
<tr>
<td>ISR (Saouma)</td>
<td>Prognosis of deterioration and loss of serviceability in structures affected by alkali-silica reactions</td>
</tr>
<tr>
<td>AAA (Wigum)</td>
<td>Avoiding alkali aggregate reactions in concrete</td>
</tr>
<tr>
<td></td>
<td>Performance based concept</td>
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35 TCs are active in 6 Clusters
4 Clusters pertaining to concrete
Concrete vessels are increasingly replacing the traditional oak barrels to produce wine. Among other things, micro-oxygenation through the concrete walls seems to help improve the quality of the wine.

Patricio Río, School of Agronomics in the University of Morón Argentina
Events
2012 - 2016
Countries TOP-20 (based on total #individual membership)

Total number of RILEM members (individual and corporate)

RILEM annual report - 2016
International Partnerships

During the last five years, RILEM has defined several strategic partnerships with important national and international organizations. These partnerships are very helpful to exchange organizational, technical and educational information, in view of a most optimal spread of state-of-the-art information concerning construction and building materials all over the world. A list of current international partnerships is given hereafter, with the contact person. In 2016 particular close collaboration was developed with ACI, fib, IEA and RILEM.

- American Concrete Institute, ACI (Ron Burg)

In March 2017, RILEM will organize its Spring Meetings in Detroit, USA in conjunction with the ACI Spring Convention.

- Concrete Institute of Australia, CIA (David Millar)

- International Federation for Structural Concrete, fib (David Fernández-Ordóñez)

RILEM and fib identified several topics where they will work together in the future:
- Sulphate and sulphide in grout for prestressing tendons
- Robustness (as part of a joint group within the Liaison Committee)

Collaboration is also planned in the context of a number of specific RILEM TCs and fib Task Groups. To mention a few:
- SIF - Surface delamination of concrete industrial floors
- RAC - Structural behaviour and innovation of recycled aggregate concrete
- CIM - Benchmarking Chloride Ingress Models on Real-Life Case Studies: Theory and Practice
- CSH - Stress Corrosion Cracking and Hydrogen Embrittlement of Concrete-Reinforcing Steels

- Indian Concrete Institute, ICI (Manamohan R. Kaiga)

- International Academy of Engineering, IEA (Wyclaeh Farikman)

Several meetings were held in 2016 with the IEA President Boris Gusev and with the RILEM IEA representative.

- International Society for Asphalt Pavements, ISAP (Gabriele Tebaldi)

- Japan Concrete Institute, JCI (Miyuki Manayama)

- Korean Concrete Institute, KCI (Hyun Mock Shin)

- New Zealand Concrete Society, NZCS (Michael Kharapko)

- Brazilian Concrete Institute, IBRACON (Emo Pazini Figueiredo)
Gustavo Colonnetti Award Lectures
09:00am-10:30am Wednesday, March 29, 2017
H-Ambassador Salon 3

Prof. Gaurav Sant, UCLA, USA
« Silicate dissolution in cementitious environments: The origin of rate controls and their implications on chemical reactivity and durability »

Prof. Enrico Sassonni, University of Bologna, Italy
« Phosphate-based treatments for conservation of stone »
You can download all our publications for free on the RILEM website
Future events 2017 - 2018

- Montreal (Oct. ICCM2017)
- Rabat (Nov. CMSS2017)
- Moscow (Jun. DSCS2018)
- Chennai
- Tokyo
- Junin
- Johannesbourg
- Brussels
- Ghent
- Dresden
- Dübendorf
- Zurich
- Clermont-Ferrand
- Montpellier
- Braga
- Zadar
71st Annual RILEM Week & ICACMS 2017

International Conference on Advances in Construction Materials and Systems

September 3 - 8, 2017
http://www.rilem2017conference.org

Organized by
The Indian Institute of Technology Madras (IIT Madras)
in association with

[Logos of various organizations]
10th ACI/RILEM INTERNATIONAL CONFERENCE ON CEMENTITIOUS MATERIALS AND ALTERNATIVE BINDERS FOR SUSTAINABLE CONCRETE

Former CANMET/ACI International Conference on Fly Ash, Silica Fume, Slag, Natural Pozzolans and Alternative Supplementary Cementitious Materials in Concrete

ONLINE REGISTRATION IS OPEN: Click here to access the registration web page.

The former Canadian Center for Mineral and Energy Technology (CANMET) of Natural Resources Canada has played a significant role in Canada for research on fly ashes, ferrous and non-ferrous slags, and silica fumes for use in concrete. In July-August 1983, CANMET, in association with the American Concrete Institute (ACI) and the U.S. Corps of Engineers, sponsored the first International Conference on Fly Ash, Silica Fume, Slag, Natural Pozzolans held in Montebello, Québec, CANADA. Since then, this conference traveled all over the world and the ninth conference was held in Warsaw, Poland in 2007. It is thus our pleasure to invite you to the 10th conference to be held in Montreal, CANADA, in October 2017.

The purpose of this international conference is to present the latest available scientific and technical information in the field of supplementary cementitious materials and novel binders for use in concrete. The new aspect of this edition is to highlight advances in the field of alternative and sustainable binders and supplementary cementitious materials, for which the research is growing in importance.
Sponsorship

The CMSS-2017 International Conference seeks sponsorships for its upcoming conference to be held in Rabat, Morocco. We have limited sponsorship opportunities available and it is first-come, first-served, so please act quickly! When you sponsor the event, you will:

- Reach an expected target audience of 500-600 attendees, 1500-2000 Visitors to open Exhibition Space
Call for Abstract

2nd International Workshop on “Durability and Sustainability of Concrete Structures”

DSCS 2018

Moscow (Russia), June 6-7, 2018

Organized by: American Concrete Institute Italy Chapter (ACI IC) and Russian Engineering Academy (REA)
THANK YOU

ACI Concrete Convention and Exposition

Sunday, March 26, 2017 - 10:00 am - 11:30 am
Marriott at the Renaissance Center, H-Ambassador Salon 1
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Mrs. Pascale DUCORNET

Communication Assistant
Ms. Anne GRIFFOIN

Subscribe to RILEM’s social media channels on LinkedIn, Facebook, and YouTube to stay abreast on what’s happening at RILEM!
Booth # 6

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