

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





Stade Jean-Bouin, Paris

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

ACI Technical Committees & joint ACI-RILEM Conventions convening



Committee Code	Committee Name	Day	Time	Room
549-L	Liaison - Thin Reinforced Cementitious Products and Ferrocement	Sunday	9:00 AM - 11:00 AM	R-Waterfront
549	RILEM TC 250-CSM Composites for Sustainable Strengthening of Masonry <i>Gianmarco De Felice</i>	Sunday	11:00 AM - 1:00 PM	H-Cadillac B
238	RILEM TC 266-MRP: Measuring Rheological Properties of Cement-based Materials <i>Mohammed Sonebi</i>	Sunday	1:00 PM - 5:30 PM	H-Ambassador Salon 3
- - -	Mini-Session: European Specifications for SCC and Review of the Most Recent RILEM Performance Specifications <i>Geert De Schutter & Mark Alexander</i>	Monday	11:15 AM - 12:15 PM	H-Cartier
- - -	123 Forum: Does 3-D Printing Have a Concrete Future in Our World and Beyond? RILEM TC Digital Construction with Cementitious Materials <i>Nicolas Roussel</i>	Monday	6:30 PM - 8:30 PM	H-Ambassador Salon 1
238	Workability of Fresh Concrete	Tuesday	8:00 AM - 10:00 AM	H-Renoir



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2017 | DETROIT

RILEM SPRING MEETING
International Union of Laboratories & Experts in Construction Materials, Systems & Structures



RILEM Colonnetti Award

Committee Code	Committee Name	Day	Time	Room
---	Prof. Gaurav Sant, UCLA Prof. Enrico Sassoni, Princeton & Bologna	Wednesday	9:00 AM - 10:30 AM	H-Ambassador Salon 3

RILEM Standing Committee Meetings

Committee Code	Committee Name	Day	Time	Room
DAC	Development Advisory Committee	Wednesday	11:00 AM - 5:00 PM	H-Lasalle A
TAC	Technical Activities Committee	Wednesday	11:00 AM - 5:00 PM	H-Lasalle B
DEV	Development Meeting	Wednesday	5:00 PM - 6:00 PM	H-Lasalle A
BUR	Bureau	Thursday	9:00 AM - 5:00 PM	H-Lasalle A



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RILEM SPRING MEETING

*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*



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



Regional Groups & National Groups

In some regions, a formal RILEM local Regional or National Group has been established in concrete language borders and to encourage and facilitate development of RILEM technical and educational activities on a regional level. In due consultation with the RILEM headquarters in Paris. Currently, RILEM has four local regional groups:

- **LAT-RILEM**, established in 2010, covering the region of Latin America.
- **CIS-RILEM**, established in 2016, covering the region of East Europe & Central Asia.
- **CHN-RILEM**, established in 2014. This group started as a national group in 2013, and was transferred to a regional group following the recent reorganization of RILEM regions.
- **JPN-RILEM**, established in 2014. The Japanese National group was officially created in 2013, although Japan has a long-time experience with national RILEM meetings, dating back already before the RILEM Annual Week organized in Japan in 2004.

RILEM National and Regional Groups have some autonomy in developing national and regional activities within a framework defined by RILEM Bureau and General Council.

For 2016 we are proudly looking back to the launch of CIS-RILEM and the formal incorporation of JPN-RILEM into the renewed international structure of RILEM.

CIS-RILEM Regional Group was successfully launched in an inaugural meeting at the Moscow State University of Design and Technology (MSUDT), Russia, April 2016.

CHN-RILEM was again very active with many symposia, workshops and doctoral courses, and plans for the organization of the RILEM Annual Week in Nanjing in 2017, April 2016.

LAT-RILEM events on different topics have been organized in Argentina, Brazil and Colombia. Plans have been made to organize future events in other Latin American countries, including Chile and Mexico.

JPN-RILEM made a proposal for the organization of the RILEM Annual Week in Kyoto in 2022, in cooperation with RILEM partner JCI.



RILEM annual report - 2016

International Partnerships

During the last five years, RILEM has achieved several strategic partnerships with numerous national and international organizations. Through these partnerships, we have been able to exchange technical information and building materials all over the world. A list of our most important partnerships is given below, and the contact person in 2016 is mentioned in the table.

- ACI** American Concrete Institute (USA) - contact person: [Name]
- ACI (Hon. Bang)** American Concrete Institute, ACI (Hon. Bang) - contact person: [Name]
- ACI (Spring)** American Concrete Institute, ACI (Spring) - contact person: [Name]
- ACI (Detroit)** American Concrete Institute, ACI (Detroit) - contact person: [Name]
- CONCRETE INSTITUTES OF AUSTRALIA** Concrete Institute Australia, CIA (David Milbar) - contact person: [Name]
- fib** International Federation for Structural Concrete, fib (David Fernández-Ordóñez) - contact person: [Name]
- International Academy of Engineering, I.A.E.** International Academy of Engineering, I.A.E. - contact person: [Name]
- International Society for Asphalt Pavement** International Society for Asphalt Pavement (Gabriele Tscholl) - contact person: [Name]
- JCI** Japan Concrete Institute, JCI - contact person: [Name]
- NZCS** New Zealand Concrete Society (Michael Kerridge) - contact person: [Name]
- IBRACON** Brazilian Concrete Institute, IBRACON (Elio Pizzin Papapanagos) - contact person: [Name]



ANNUAL REPORT 2016



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RILEM SPRING MEETING
International Union of Laboratories & Experts in Construction Materials, Systems & Structures

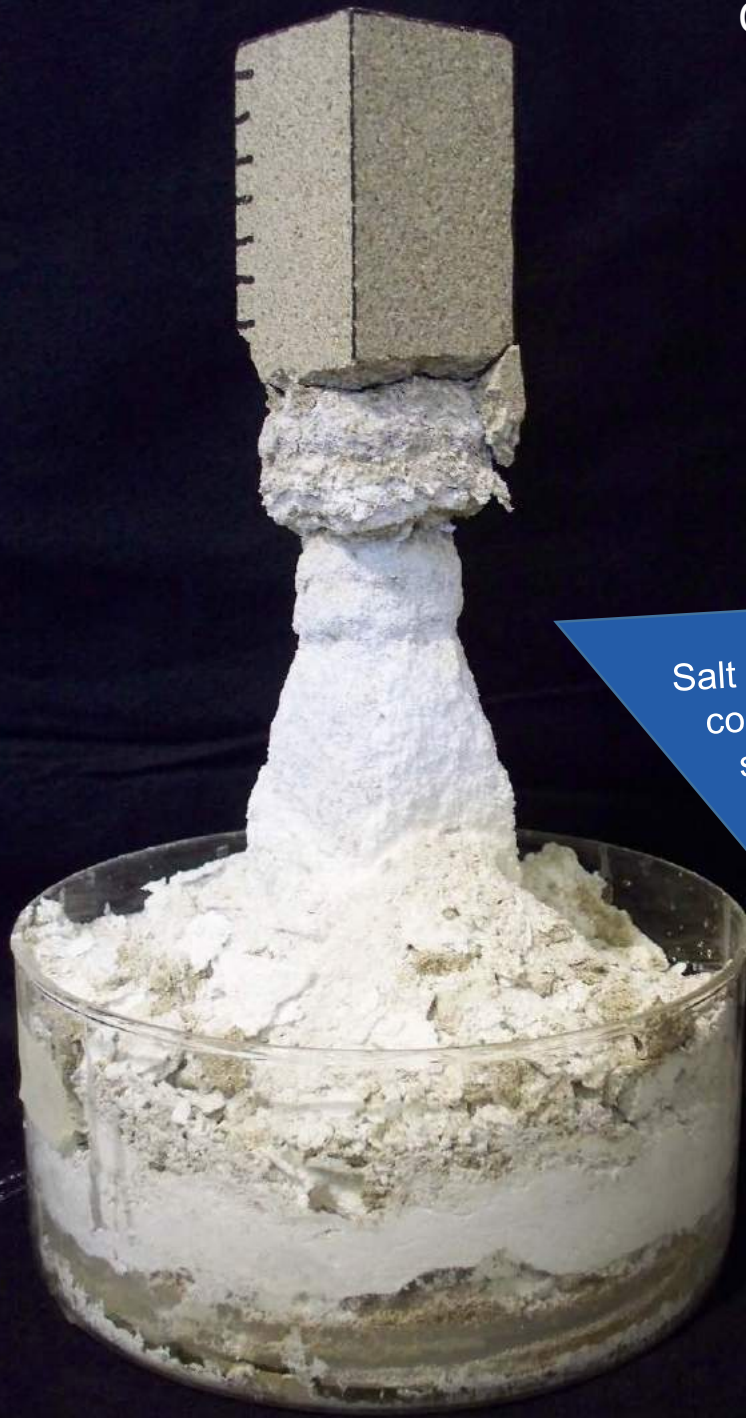


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Colossal statue base decorated with bound prisoners
Seti I memorial temple in Gurna
suffering badly from salt crystallization



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

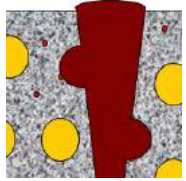
RILEM TC ASC
Accelerated laboratory
test for the assessment
of the durability of
materials.

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



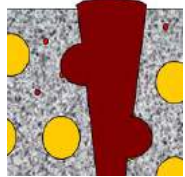
Bituminous Materials and Polymers

Hervé DI BENEDETTO, ENTPE, France



TC's are the Hart of all Activity

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



Cluster A. Material Processing and Characterization

MRP (Sonebi)	Measuring rheological properties of cement-based materials
TRM (Scrivener)	Tests for reactivity of supplementary cementitious materials
RAP (Tebaldi)	Asphalt Pavement Recycling
RSC (Mechtcherine)	Recommendations for use of superabsorbent polymers in concrete construction
CCF (Serna)	Creep behavior in cracked sections of fiber reinforced concrete



Cluster B. Transport and Deterioration Mechanisms

SCI (Ueli Angst)	Characteristics of the steel/concrete interface and their effect on initiation of chloride-induced reinforcement corrosion
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Cluster C. Structural Performance and Design

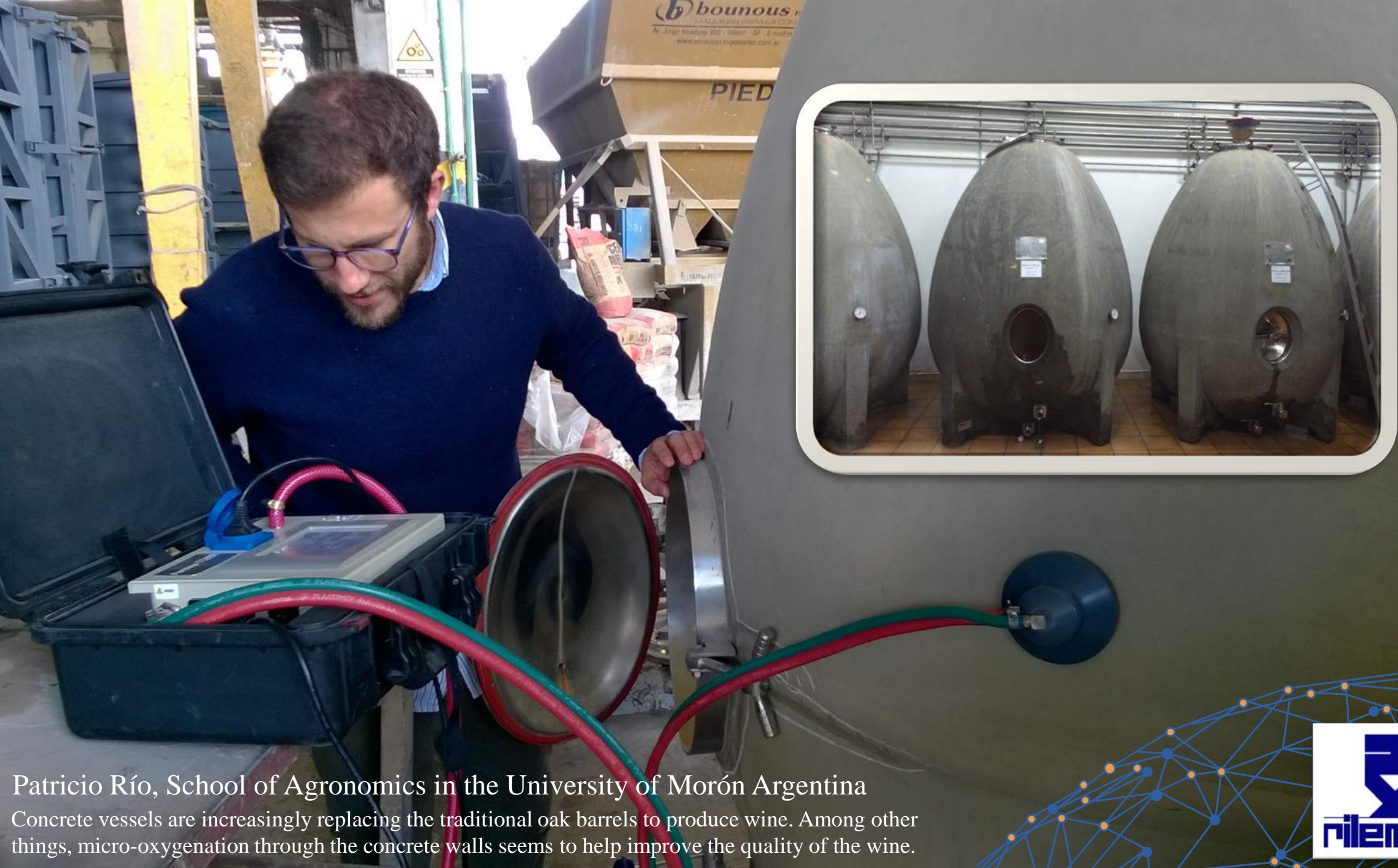
RAC (Xiao)	Structural behaviour and innovation of recycled aggregate concrete
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Cluster D. Service Life and Environmental Impact Assessment

ISR (Saouma)	Prognosis of deterioration and loss of serviceability in structures affected by alkali-silica reactions
AAA (Wigum)	Avoiding alkali aggregate reactions in concrete Performance based concept





Patricio Río, School of Agronomics in the University of Morón Argentina
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.



Technical and Educational Events

Many technical and educational events have again been organized worldwide in 2016, including conferences, workshops, PhD courses, and the like. The following map shows the geographical spread of the activities, also mentioning the year that the RILEM event took place. It can be concluded that RILEM is really reaching out to all corners of the world bringing together many people! As for only the PhD courses organized in 2016, over 200 persons participated. New courses to be run in 2017 can be consulted on the RILEM website.



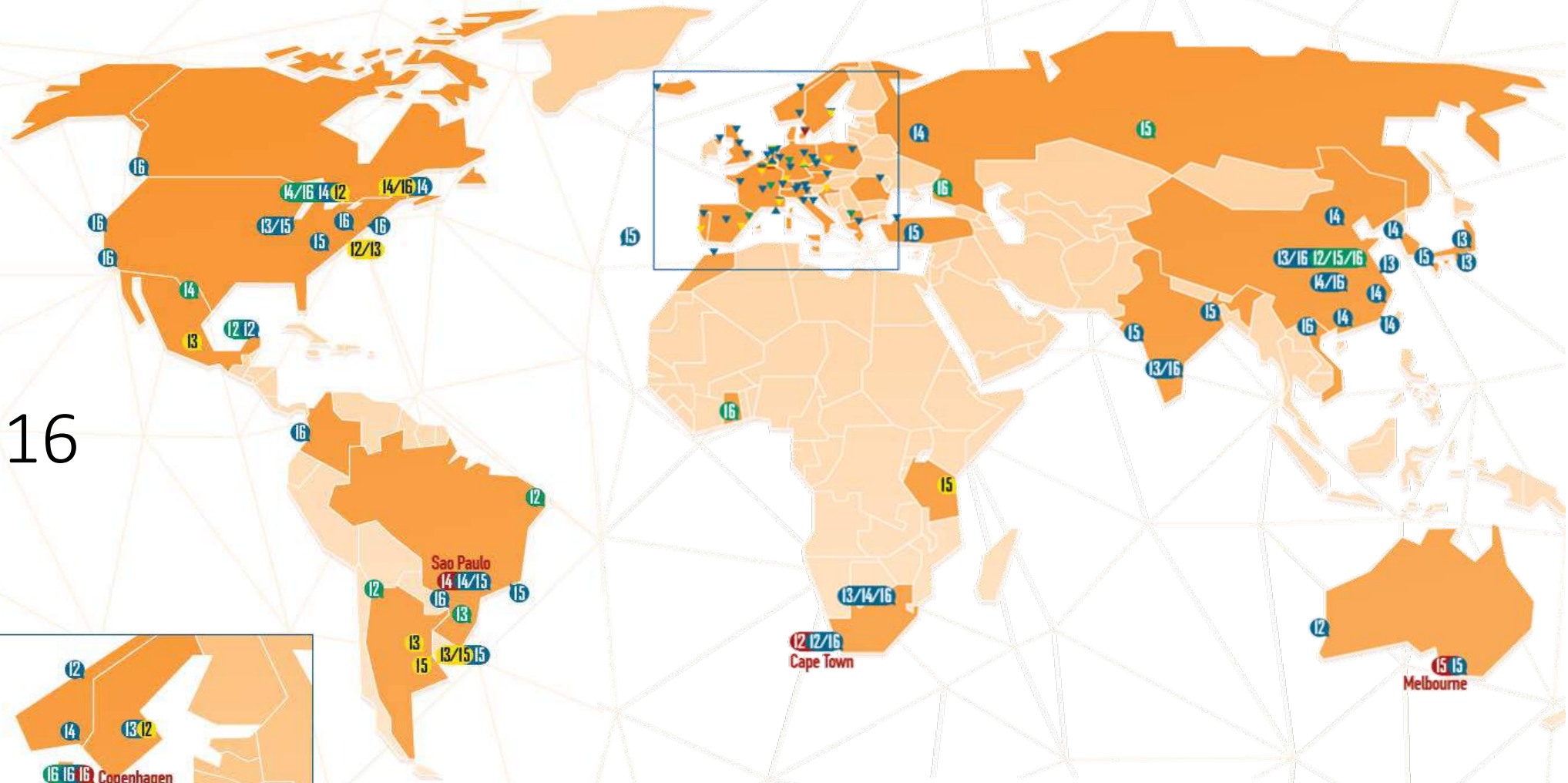
RILEM events 2012-2016

- RILEM Week / Spring Meeting
- Conference / Symposium
- Workshop / Seminar
- Course

RILEM annual report - 2016



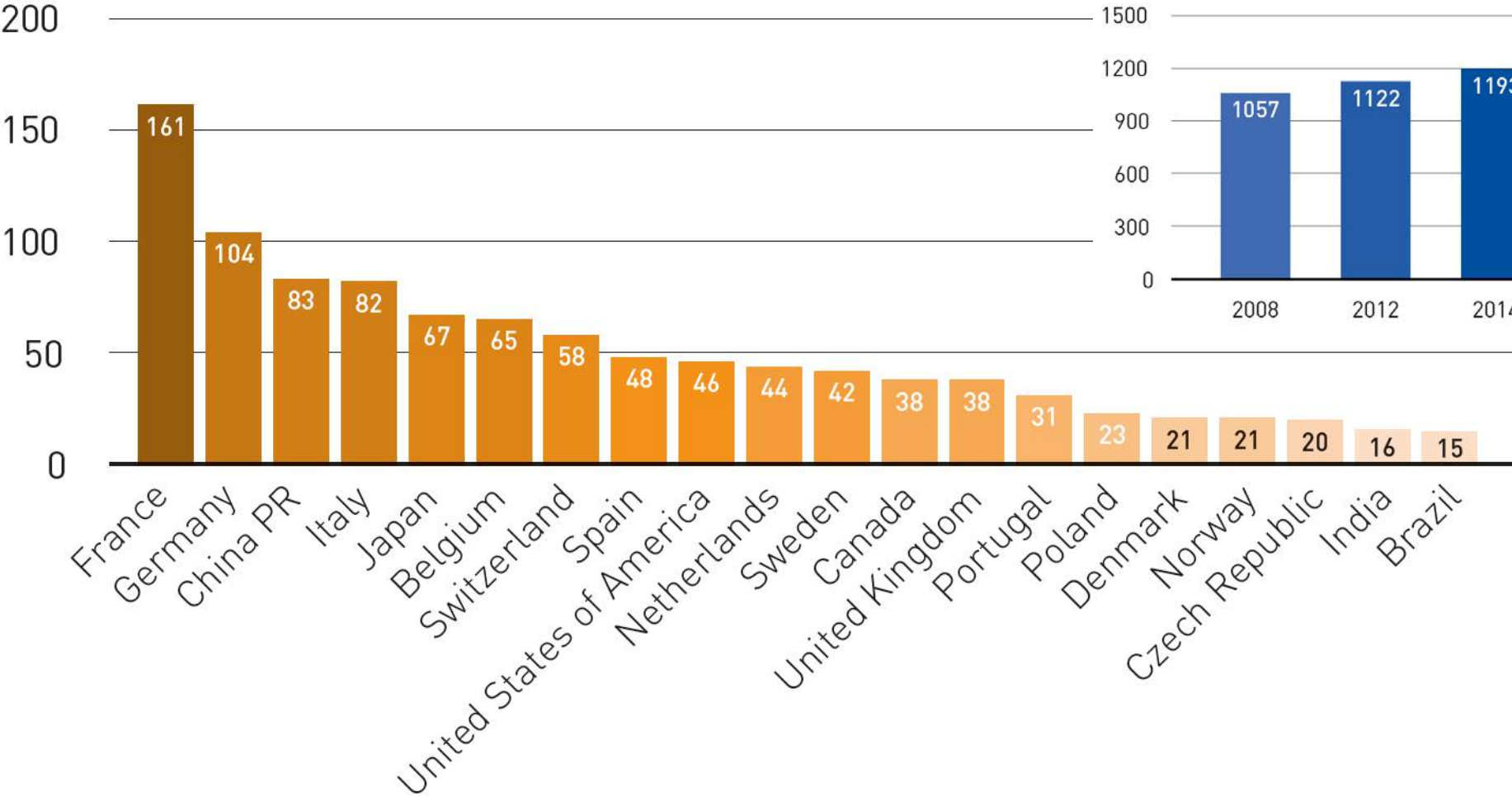
Events 2012 - 2016



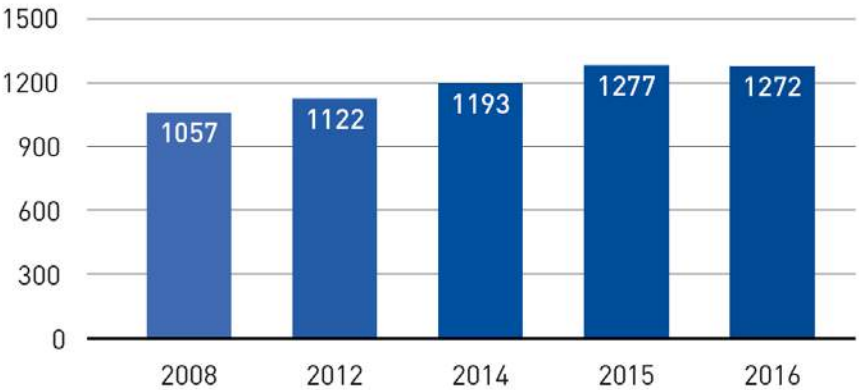
-  RILEM Week / Spring Meeting
-  Conference / Symposium
-  Workshop / Seminar
-  Course



Countries TOP-20 (based on total #individual membership)

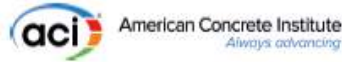


Total number of RILEM members (individual and corporate)



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 KCI.



➤ 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 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 Committee¹)

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
- CCH - Stress Corrosion Cracking and Hydrogen Embrittlement of Concrete-Reinforcing Steels



➤ Brazilian Concrete Institute, IBRACON (Enlo Pazini Figueiredo)



➤ Indian Concrete Institute, ICI (Manamohan R. Kalgal)



➤ International Academy of Engineering, IEA (Vyatcheslav Falkman)

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)



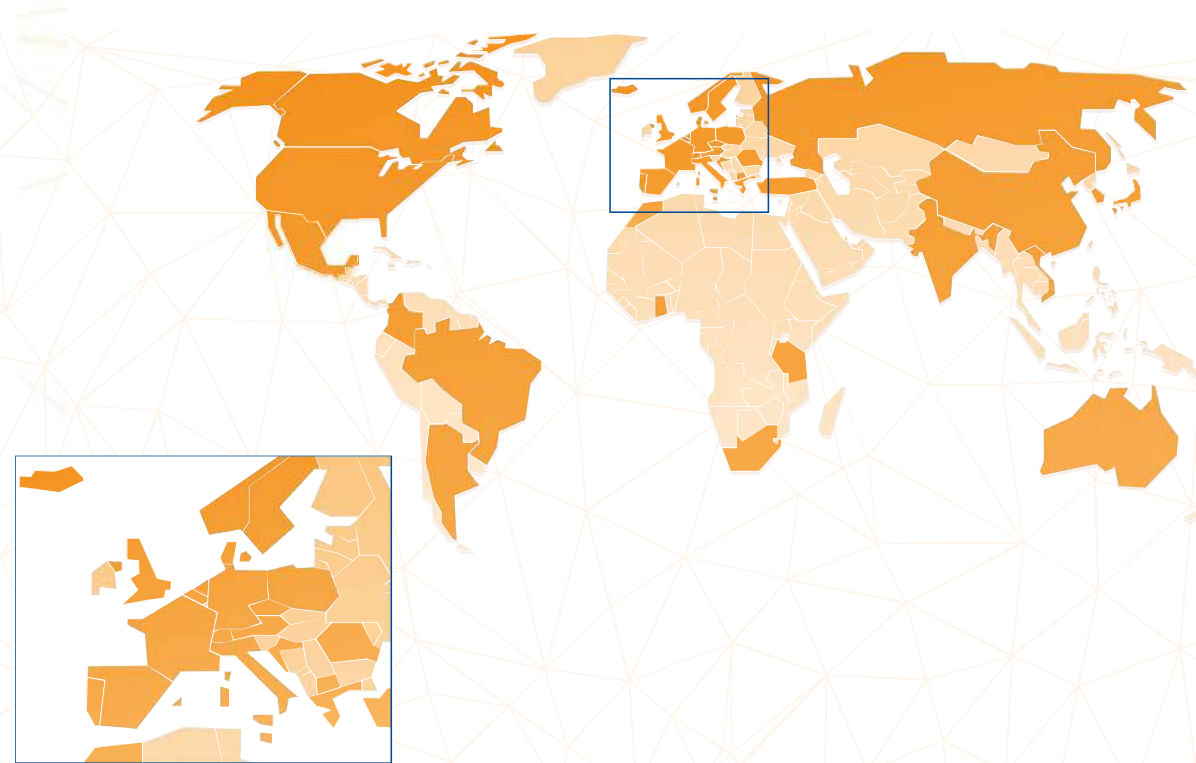
➤ Japan Concrete Institute, JCI (Kyuichi Maruyama)

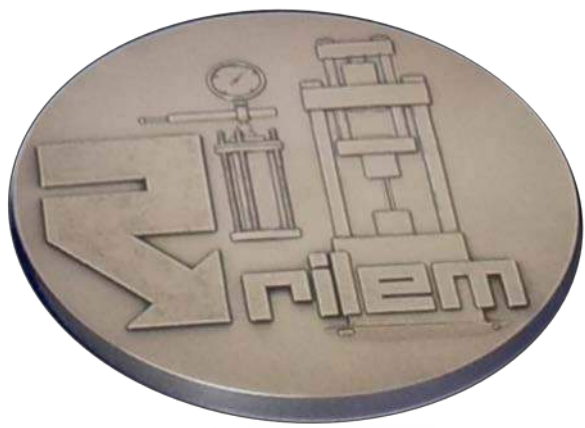


➤ Korean Concrete Institute, KCI (Hyun Mock Shin)



➤ New Zealand Concrete Society, NZCS (Michael Khrapko)





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 Sassoni, University of Bologna, Italy

« Phosphate-based treatments for conservation of stone »



Materials and Structures

ISSN: 1359-5997 (Print) 1871-6873 (Online)

This journal was previously published under other titles ([view Journal History](#))



RILEM Technical Letters

RILEM technical letters

HOME ABOUT CURRENT ANNOUNCEMENTS SUBMISSIONS

New Open Access Journal of RILEM

RILEM technical letters

Since 1947, the mission of RILEM, the International Union of Laboratories and Experts In Construction Materials, has been to advance scientific knowledge related to construction materials, systems and structures and to promote and encourage transfer and application of this knowledge worldwide.

With the new scientific peer review journal, *RILEM Technical Letters*, RILEM seeks to venture into the new era of open access publishing by disseminating contributions breaking new ground in the field of construction materials science in the form of short letters. In particular, *RILEM Technical Letters* is focusing on the publication of short reports of major innovative research or strategic research needs in the field of construction materials and structures. By providing a fast publishing process, *RILEM Technical Letters* constitutes a new landmark among the publications devoted to construction materials science.

RILEM Technical Letters is published as a *Diamond Open Access* journal available online free of charge. Moreover, RILEM provides an additional benefit to its members by waiving publication costs if the corresponding author of the letter is a RILEM member.

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Prof. Dr Pietro Lura

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RILEM technical letters : our new OpenAccess Platform

Impact Factor	Available
2.453	1968 - 2017
Volumes	Issues
50	402
Articles	Open Access
4,888	<u>62 Articles</u>



International Union of laboratories and experts
in construction materials, systems and structures

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55 events

TEMPORE QUO PRIMIS AUSPICIIS IN MUNDANUM FULGOREM
© January 18, 2016

LATEST NEWS

1947-1997: FIFTY YEARS OF EVOLUTION OF SCIENCE AND TECHNOLOGY OF BUILDING MATERIALS AND STRUCTURES
© January 18, 2016

TRILINGUAL DICTIONARY FOR MATERIALS AND STRUCTURES
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KEY PUBLICATIONS

FLYER | ANNUAL REPORT 2016 | LATEST PUBLICATIONS

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TEMPORE QUO PRIMIS AUSPICIIS IN MUNDANUM FULGOREM
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LATEST NEWS



TRILINGUAL DICTIONARY FOR MATERIALS AND STRUCTURES

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1947-1997: FIFTY YEARS OF EVOLUTION OF SCIENCE AND TECHNOLOGY OF BUILDING MATERIALS AND STRUCTURES

© January 18, 2016
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EVENTS

55 events

- 07 FEB. LOREM IPSUM SIT AMET
- 21 FEB. SED EGESTAS DIGNISSIM TINCIDUNT
- 06 MARS. DONEC FRINGILLA ANTE A MASSA

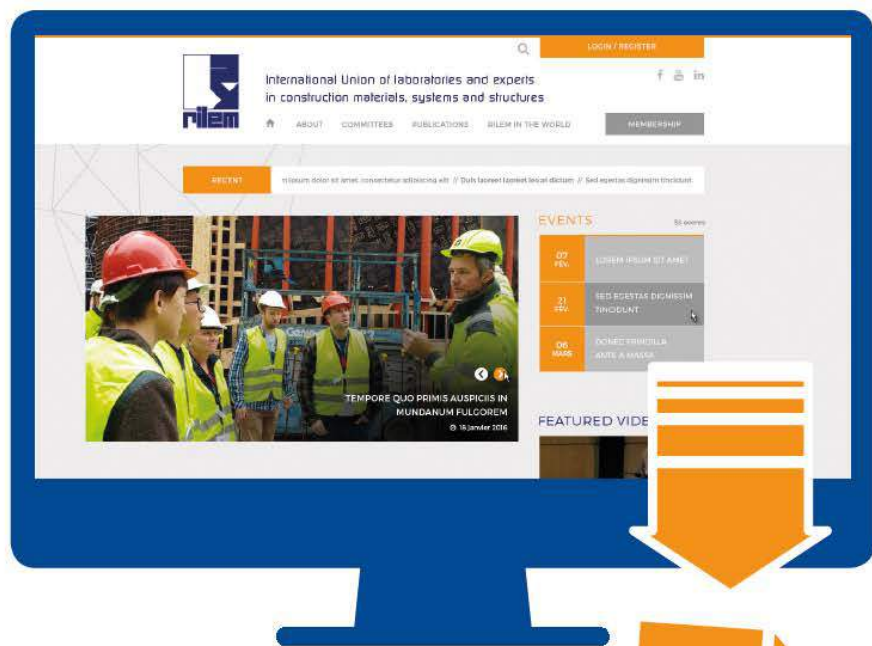
FEATURED VIDEO



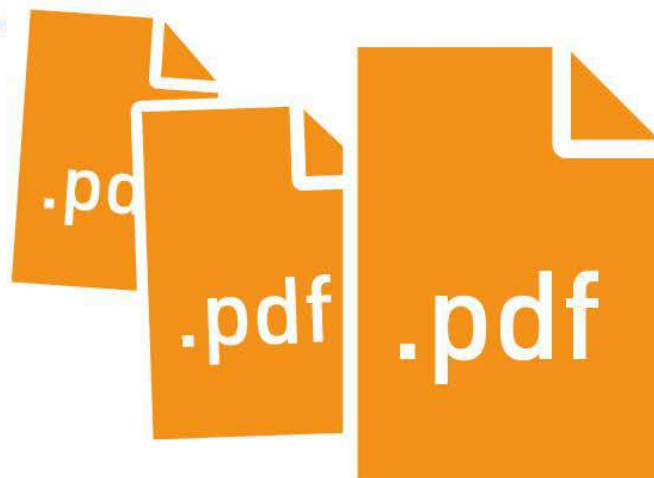
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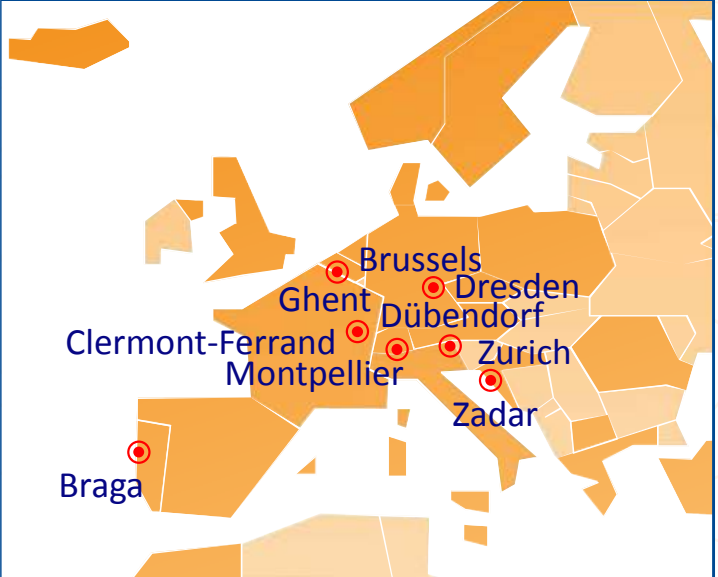
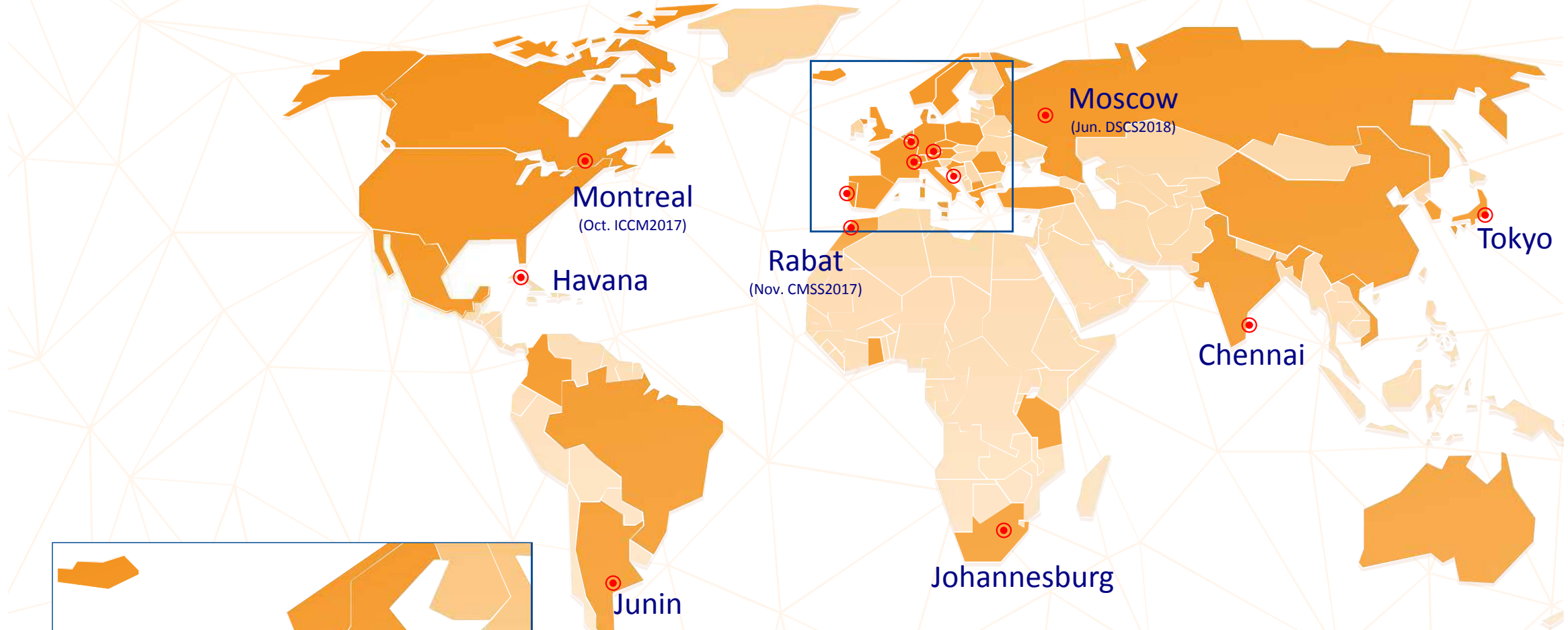
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You can download
all our publications **for free**
on the **RILEM** website





Future events 2017 - 2018



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



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NCSHS
NATIONAL CENTER FOR SAFETY OF HISTORIC STRUCTURES



NACE
INTERNATIONAL

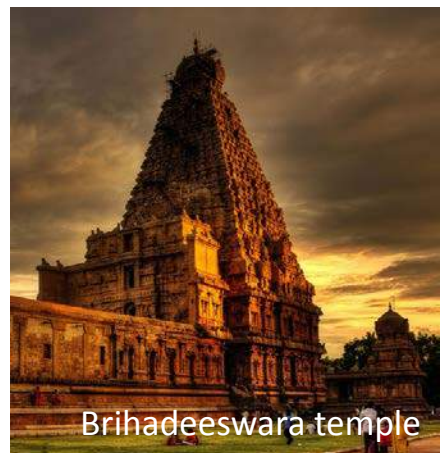
GATEWAY INDIA
SECTION



Karaikudi



Gangaikondaan temple



Brihadeeswara temple

ICCM 2017

Montreal, CANADA, October 2-4, 2017

Chair: Arezki Tagnit Hamou



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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.



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 UNIVERSITÉ DE
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CMSS2017

Energy Efficient Materials & Sustainable Construction

2nd International Congress on Materials & Structural Stability

Rabat, Morocco, 22-25 November 2017

Fr Eng

Welcome to Rabat, a World Heritage Site

Bienvenue à Rabat, un site du Patrimoine Mondial



Submission Deadline for Abstracts: March 20, 2017

Date limite de soumission des résumés: 20 Mars 2017



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

Partnership



Sponsorship



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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)



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ACI International Forum - RILEM Report

Some HighLights

ir. Johan Vyncke
Director Research & Innovation BBRI
President of RILEM



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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ir. Johan Vyncke
Director Research & Innovation BBRI
President of RILEM



Booth # 6

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