International Union of Testing and Research Laboratories for Materials and Structures

Réunion internationale des laboratoires d'essais et de recherches sur les matériaux et les constructions

Kamal H. Khayat

RILEM North America Convener

Professor, Civil Engineering

Missouri University of Science & Technology

aci Fall 2015 | Denver
The Concrete Convention and Exposition

RILEM mission includes:

- stimulation of **new directions of R&D**
- promotion of **excellence in construction**
- **technology transfer** and application of knowledge world-wide
- encouragement of **international cooperation**

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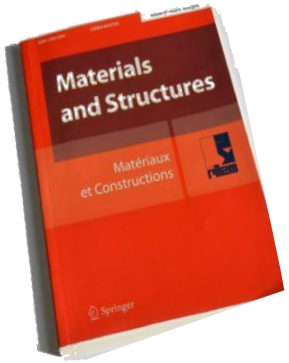


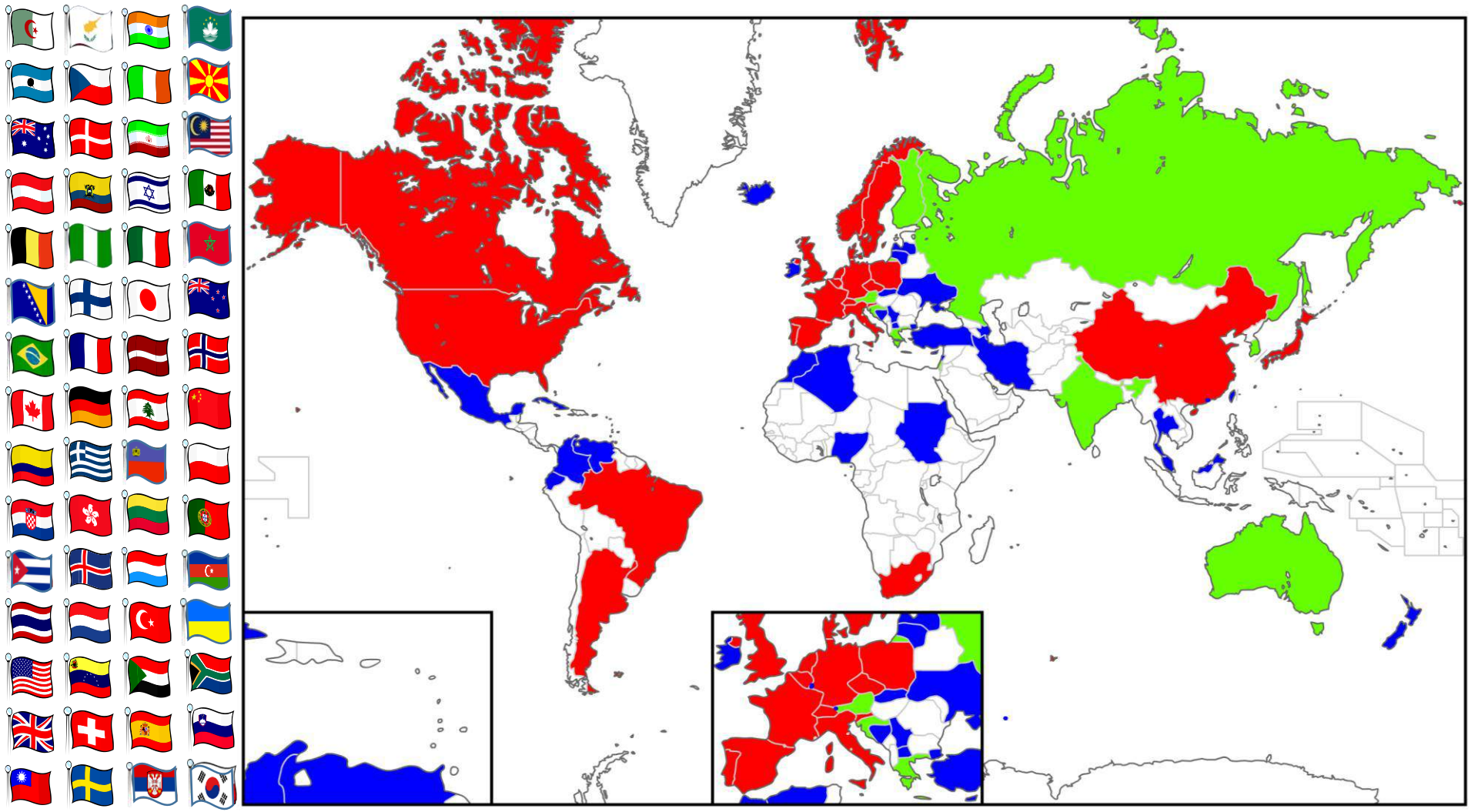
Editor in Chief

Pietro Lura, IMPA, Switzerland

Nearly 1400 experts involved in RILEM
About 700 of members active in Technical Committees

2014

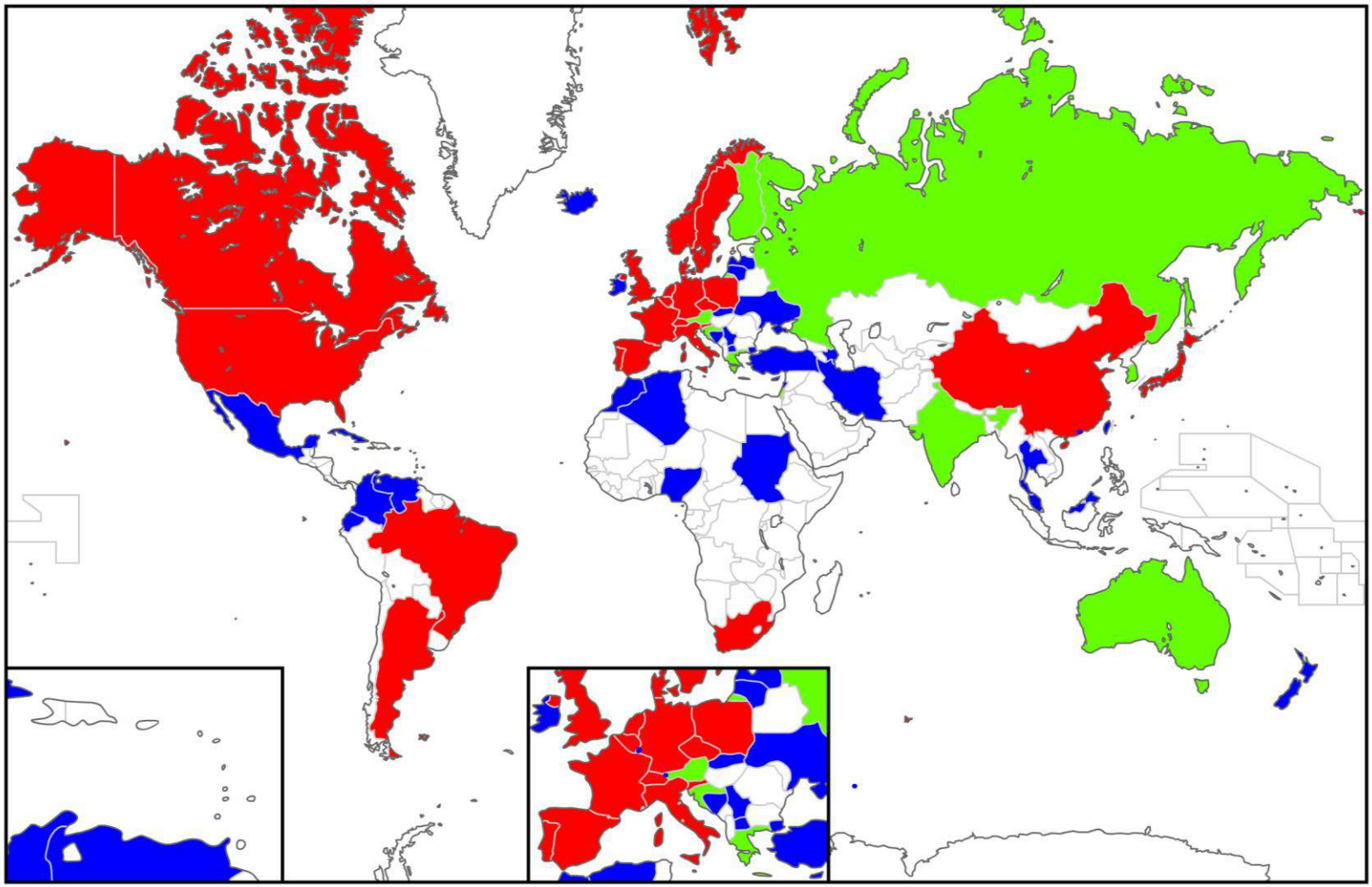
63 Countries, 102 Institutes



Regional Conveners

South Saharan/Africa
East Asia
East Europe and Central Asia
Latin America

North America
Oceania
Europe
Middle East, North Africa & South Asia



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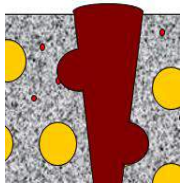
35 TCs are active in 6 Clusters
4 Clusters pertaining to concrete



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

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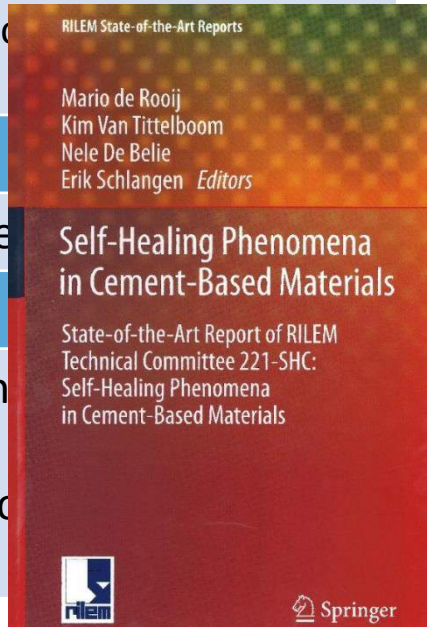
TCs created in 2014-15

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 effe chloride-induced reinforcement corrosion
Cluster C. Structural Performance and Design	
RAC (Xiao)	Structural behaviour and innovation of recycled aggre
Cluster D. Service Life and Environmental Impact Assessment	
ISR (Saouma)	Prognosis of deterioration and loss of serviceability in affected by alkali-silica reactions
AAA (Wigum)	Avoiding alkali aggregate reactions in concrete – Perfo concept



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TC 244-NUM **Numerical Modelling**

Chair: Prof. Klaas van Breugel Secretary: Prof. Wolfgang Brameshuber

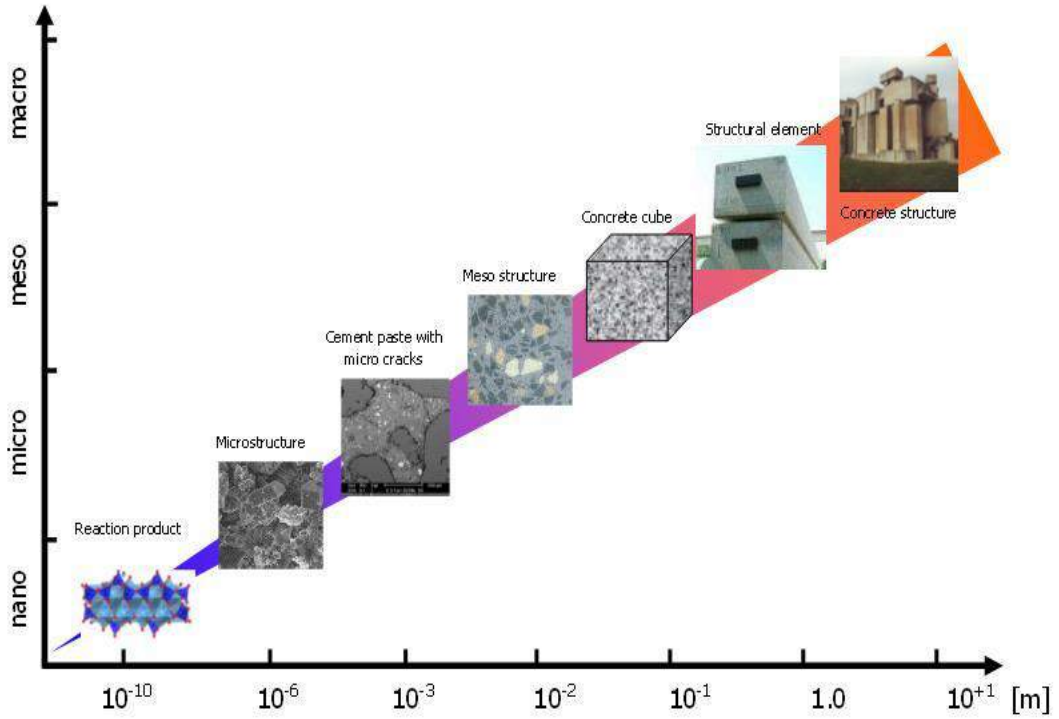
Task of TC 244: To consider, and reconsider, the evolution of numerical models and modeling of cementitious materials in science and engineering, given the present evolution of available computation power and advanced materials models.

Materials properties

- Hydration processes
- Evolution of nano/microstructure
- Mechanical properties
- Transport properties

Modelling and application aspects

- Type of models
- Multiscale modelling
- Accuracy and reliability
- Field of application of models



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

American Concrete Institute
Always advancing

Discussions with ACI in Paris, 18 Sept. 2014

Bill Rushing, ACI President

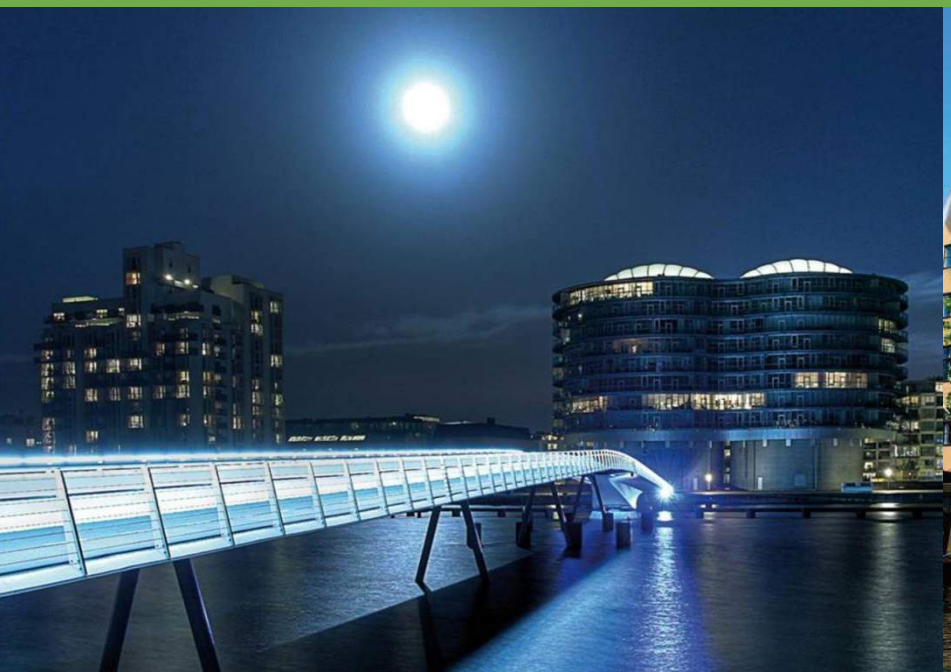
Ron Burg, ACI Executive Vice President

RILEM: Johan Vyncke, VP; Pascale Ducornet, SG; Nicolas Roussel, TAC Chair

Selected Points for Consideration:

- RILEM liaison member in ACI TCs
- ACI - RILEM Joint Workshop on specific technical topics
- Explore potential synergies for ACI and RILEM TC's

RILEM Week 2016, Lyngby (Copenhagen), Denmark, 21-24 August



INTERNATIONAL CONCRETE SUSTAINABILITY CONFERENCE

SCC 2016

MAY 15-18, 2016
WASHINGTON, DC

RILEM ACI MISSOURI S&T NRMCA RE-CAST ACBM

National Ready Mixed Concrete Association