



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

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RILEM North America Convener

Professor, Civil Engineering

Missouri University of Science & Technology

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



## **Joint ACI-RILEM Technical Committee Activities**

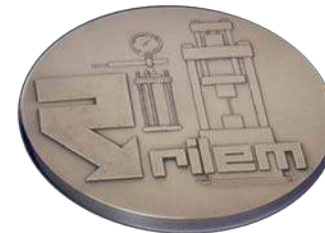
- ACI 549-L**                      **Liaison - Thin Reinforced Cementitious Products and Ferrocement**
- ACI 549**                        **RILEM TC 250-CSM Composites for Sustainable Strengthening of Masonry**
- ACI 238**                        **RILEM TC 266-MRP Measuring Rheological Properties of Cement-based Materials**

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**ACI 237: Mini-Session** - **European Specifications for SCC and Review of the Most Recent RILEM Performance Specifications**

**123 Forum** - **Does 3-D Printing Have a Concrete Future in Our World and Beyond?**  
**RILEM TC Digital Construction with Cementitious Materials**

## **Gustavo Colonnetti Award Lectures**





American Concrete Institute  
*Always advancing*



**1<sup>st</sup> ACI/RILEM**

**International Conference on  
Cementitious Materials  
and Alternative Binders for  
Sustainable Concrete**

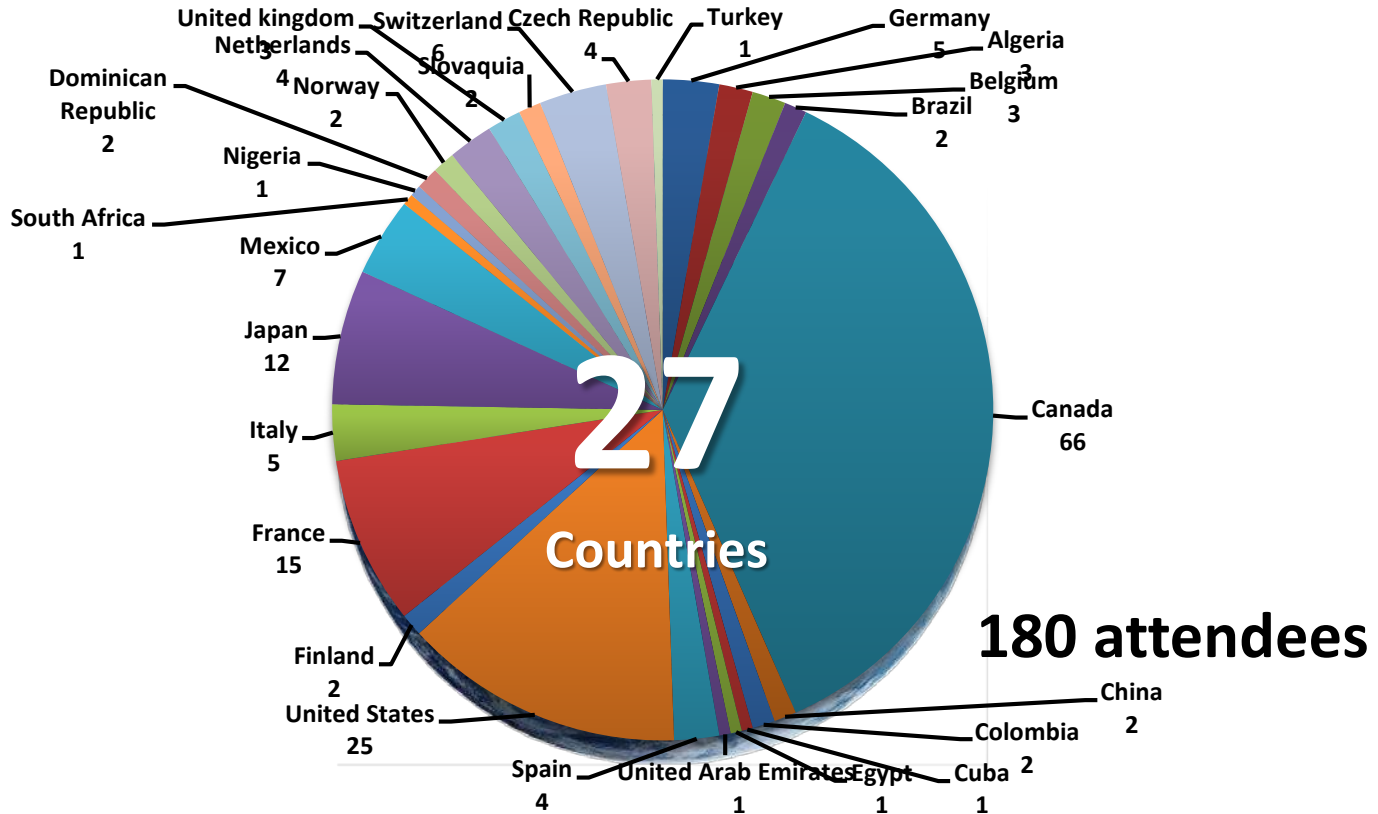
**ICCM 2017**

**Montreal, Canada**



**Arezki Tagnit Hamou, Chair**







American Concrete Institute  
*Always advancing*



# 1<sup>st</sup> ACI/RILEM International Conference on Cementitious Materials and Alternative Binders for **Key topics** Sustainable Concrete

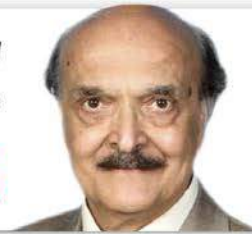
Microstructure and hydration  
Multi-component binder systems  
Alternative supplementary cementitious materials  
Alkali activated materials  
Alternative binders  
Nanomaterials  
Chemical admixtures  
Concrete mix designs for sustainable development  
Rheology

Curing techniques  
Mechanical performances and durability  
Modeling of concrete properties  
Life-cycle analysis  
Service life  
Standard and test method development  
Case studies  
Special concrete  
Biosourced materials  
Recycled materials

## Keynote speakers

### **Nanotechnology and Meta Concrete**

**Surendra P. Shah,**  
Northwestern University, USA



### **Roles of Supplementary Cementitious Materials in Ultra-High-Performance-Concrete**

**Caijun Shi,** Hunan University, China

### **Development of Test Methods and Specifications for Chemically Activated Binders**

**Douglas Hooton,** University of Toronto, Canada



### **Testing and analysis of alkali-activated materials What do we really need to know?**

**John Provis,** University of Sheffield, United Kingdom



Incredible India

**71<sup>st</sup> RILEM Week & ICACMS 2017**  
*International Conference on  
Advances in Construction Materials and Systems*

Chennai, India





***TCs created since 2016***

**Cluster A. Material Processing and Characterization**

HDB (Amziane) DFC (Roussel)	Hygrothermal behaviour and durability of bio-aggregate based building materials digital fabrication with cement-based materials
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**Cluster B. Transport and Deterioration Mechanisms**

CCC (De Belie)	Carbonation of concrete with SCMs
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**Cluster C. Structural Performance and Design**

IAM (Shiotani)	Damage assessment in consideration of repair / retrofit-recovery in concrete and masonry structures by means of innovative NDT
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**Cluster D. Service Life and Environmental Impact Assessment**

CIM (Koenders)	Benchmarking chloride ingress models on real-life case studies: theory and practice
SHE (Xing)	Self-Healing Concrete – its efficiency and evaluation
CCH (Sanchez)	Stress Corrosion Cracking and Hydrogen Embrittlement of Concrete-Reinforcing Steels



# 72<sup>nd</sup> RILEM-week 2018

26-29 August, 2018

## **RILEM-week:**

Board/TC-meetings, Technical presentations, ....

## **SLD4: (TU-Delft & Tongji Univ.)**

4<sup>th</sup> International Conference on Service Life Design for Infrastructures

## **CONMOD2018: (TU-Delft & Ghent Univ.)**

International Symposium on Concrete Modelling

## **Klaas van Breugel Sessions:**

Special workshop to honour retirement of Klaas van Breugel

## **MMC, CMC, CSC2I courses:**

RILEM courses on Multiscale Modelling, Microscopy and Corrosion

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