



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

Missouri University of Science & Technology

# ANNUAL REPORT 2017



International Union of Laboratories and Experts  
in Construction Materials, Systems and Structures

## MEMBERSHIP



**1405**  
members



**67**  
countries

## ACTIVITIES



**37**  
Technical  
Committees



**11**  
courses



**27**  
events

## CO-SPONSORSHIP

## PUBLICATIONS



**2**  
State-of-the-Art reports



**10**  
proceedings



**1**  
report



**3**  
recommendations



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## ***New leadership (2018 – 2021):***

President:

Dr. Ravindra GETTU, IIT Madras, INDIA

Vice President:

Dr. Nicolas ROUSSEL, IFSTTAR, FRANCE

Outgoing President:

Mr. Johan VYNCKE, BBRI, BELGIUM



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## *RILEM mission*

- to **advance scientific knowledge** related to **construction materials, systems and structures** and to **encourage transfer and application** of this knowledge world-wide, through **collaboration of leading experts** in construction practice and science including academics, researchers, testing laboratories and authorities.

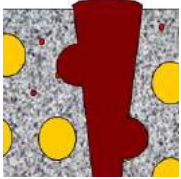
## *RILEM goals*

- promote sustainable and safe construction, and improved performance and cost benefit for society,
- to stimulate new directions of research and its applications, promoting excellence in construction,
- to favour and promote cooperation at international scale by general access to advanced knowledge.



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**41 TCs are active in 6 Clusters**  
**4 Clusters pertaining to concrete**



## ***Material Processing and Characterization***

Barzin MOBASHER



## ***Transport and Deterioration Mechanisms***

Esperanza MENÉNDEZ MÉNDEZ



## ***Structural Performance and Design***

Giovanni PLIZZARI



## ***Service Life and Environmental Impact Assessment***

Alexandra BERTRON



## ***Masonry and Timber***

Enrico SASSONI



## ***Bituminous Materials and Polymers***

Michael WITSUBA



## *Recently created committees*

### Cluster A. Material Processing and Characterization

AMC	Use of <b>Agro-Based Materials</b> as Cementitious Additions in Concrete and Cement-Based Materials
CCL	<b>Calcined Clays</b> as Supplementary Cementitious Materials
CEC	<b>Controlled expansion</b> of concrete by adding MgO-based expansive agents taking the combined influence of composition and size of concrete elements into consideration

### Cluster B. Transport and Deterioration Mechanisms

CAM	<b>Chloride</b> transport in <b>alkali-activated materials</b>
FTC	Durability and Service Life of Concrete under the Influence of <b>Freeze-Thaw Cycles</b> combined with <b>Chloride Penetration</b>
TMS	<b>Test method</b> for concrete durability under combined role of <b>sulphate and chloride ions</b>

### Cluster C. Structural Performance and Design

IEC	<b>Impact and Explosion</b>
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### Cluster D. Service Life and Environmental Impact Assessment

CCH	<b>Stress Corrosion Cracking</b> and <b>Hydrogen Embrittlement</b> of Concrete-Reinforcing Steels
SHE	<b>Self-healing concrete</b> – Its efficiency and evaluation





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### ***Similarities and Differences compared to ACI***

- Both are scientific organizations intending to assemble, increase and spread knowledge
- Both have strong international presence
- Both sponsor scientific events, create proceedings and have their own journals: ACI Materials Journal / ACI Structural Journal vs. Materials and Structures / RILEM Technical Letters (open access)
- ACI is more broad into the practice of concrete, RILEM is more focused on ongoing research
- ACI is concrete focused, RILEM considers all construction materials
- Lifetime of RILEM technical committees is typically limited to 5 years



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## 73<sup>rd</sup> RILEM-week, Nanjing, 25-30 August, 2019

International Conference on  
Innovative materials for  
Sustainable Civil  
Engineering (IMSCE)







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***More info?***

Rilem.net

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