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

Dimitri Feys
RILEM North America Convener

Missouri University of Science & Technology
ANNUAL REPORT
2017

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
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
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.
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

41 TCs are active in 6 Clusters
4 Clusters pertaining to concrete
### Recently created committees

#### Cluster A. Material Processing and Characterization

| AMC | Use of **Agro-Based Materials** as Cementitious Additions in Concrete and Cement-Based Materials |
| CCL | **Calcined Clays** as Supplementary Cementitious Materials |
| CEC | **Controlled expansion** 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 | **Chloride** transport in **alkali-activated materials** |
| FTC | Durability and Service Life of Concrete under the Influence of **Freeze-Thaw Cycles** combined with **Chloride Penetration** |
| TMS | **Test method** for concrete durability under combined role of **sulphate and chloride ions** |

#### Cluster C. Structural Performance and Design

| IEC | **Impact and Explosion** |

#### Cluster D. Service Life and Environmental Impact Assessment

| CCH | **Stress Corrosion Cracking** and **Hydrogen Embrittlement** of Concrete-Reinforcing Steels |
| SHE | **Self-healing concrete** – Its efficiency and evaluation |
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
73rd RILEM-week, Nanjing, 25-30 August, 2019

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

Rilem.net

Or, for North-American and the Caribbean, contact me: feysd@mst.edu