



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 Latin America Convener

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RILEM North America Convener

2018 Key Numbers

MEMBERSHIP



1454
members



71
countries

ACTIVITIES



41
Technical
Committees



12
courses



26
events

CO-SPONSORSHIP

PUBLICATIONS



6
State-of-the-Art reports



9
recommendations



13
proceedings



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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.

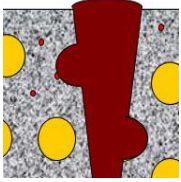
RILEM goals

- 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, USA



Transport and Deterioration Mechanisms

Esperanza MENÉNDEZ MÉNDEZ, Spain



Structural Performance and Design

Giovanni PLIZZARI, Italy



Service Life and Environmental Impact Assessment

Alexandra BERTRON, France



Masonry, Timber and Cultural Heritage

Enrico SASSONI, Italy



Bituminous Materials and Polymers

Michael WISTUBA, Germany



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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

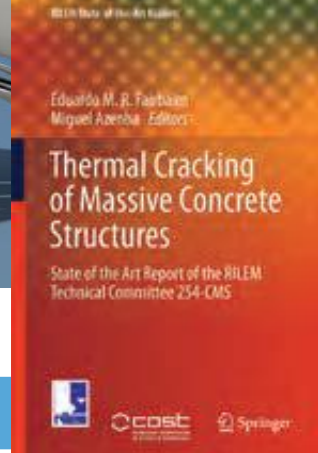
Cluster C. Structural Performance and Design

IEC	Impact and Explosion
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Cluster D. Service Life and Environmental Impact Assessment



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Reports and Recommendations 2018

State of the Art Reports

238-SCM	Properties of Fresh and Hardened Concrete Containing Supplementary Cementitious Materials
248-MMB	Methods of Measuring Moisture in Building Materials and Structures
254-CMS	Thermal Cracking of Massive Concrete Structures
227-HPB	Physical Properties and Behaviour of High-Performance Concrete at High Temperature
237-SIB	Testing and Characterization of Sustainable Innovative Bituminous Materials and Systems
241-MCB	Mechanisms of Cracking and Debonding in Asphalt and Composite Pavements

Recommendations

238-SCM	<ul style="list-style-type: none"> - Determination of the degree of reaction of siliceous fly ash and slag in hydrated cement paste by the selective dissolution method - Hydration stoppage by solvent exchange for the study of hydrate assemblages
250-CSM	<ul style="list-style-type: none"> - Test method for Textile Reinforced Mortar to substrate bond characterization
260-RSC	<ul style="list-style-type: none"> - Testing sorption by superabsorbent polymers (SAP) prior to implementation in cement-based materials - Using SAP to mitigate autogenous shrinkage



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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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***Original Scientific Papers on
Construction Materials***



***Open Access, short communications
on Construction Materials
Since March 2016***



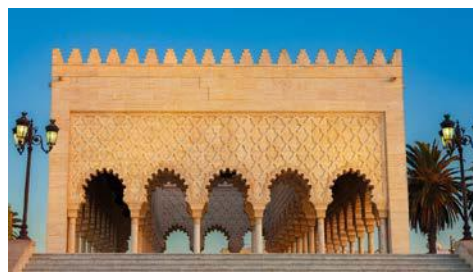
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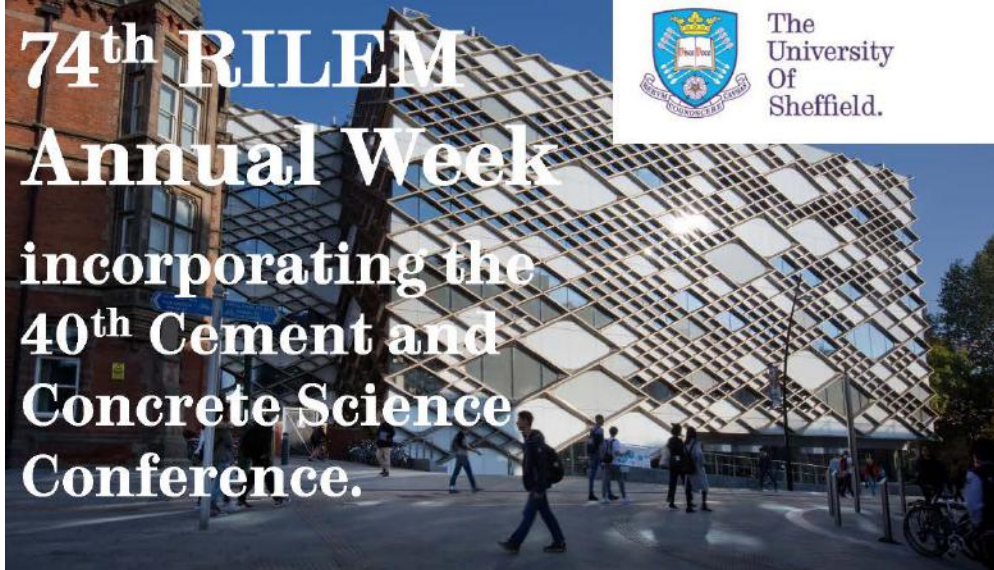
Future RILEM Annual Weeks and Spring Conventions

Spring Event

Annual Week

2020/74 th	Guimarães, Portugal	Sheffield, UK
2021/75 th	Paris, France	Merida, Mexico
2022/76 th	Morocco	Kyoto, Japan
2023/77 th	Italy	Vancouver, Canada





31 August – 4 September 2020

The Diamond, University of Sheffield

Organised by:
Department of Materials Science and Engineering, The
University of Sheffield

and

Cementitious Materials Group, The Institute of Materials,
Minerals and Mining (IoM³).

<http://www.sheffield.ac.uk/materials/RILEM2020>

Key conference topics include:

- Chemistry, materials science, and engineering characteristics of cements and concretes
- Performance of materials and structures in traditional and innovative applications
- Testing and characterization of construction and infrastructure materials
- Environmental and sustainability assessment of construction materials, systems, and structures

Call for abstracts:

Deadline for submission of abstracts is
31 January 2020.

rilem2020@sheffield.ac.uk



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More info?

Rilem.net

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