✓ History
✓ Network
✓ Technical Commissions
✓ Publications
✓ ...
1947, Paris


RILEM Founding Members

S. BECHYNE, Czechoslovakia, J.-L. BIENFAIT, The Netherlands, F. CAMPUS, Belgium, G. COLONNETTI, Italy, E. L. Da FONSECA COSTA, Brazil, S. A. DELPECH, Argentina, E. FORSLIND, Sweden, W. GLANVILLE, United Kingdom, G. HANSEN, Denmark, R. L’HERMITE, France, F. LEA, United Kingdom, W. OLSZAK, Poland, M. ROCHA, Portugal, E. TORROJA, Spain, M. ROS, Switzerland, M. P. WHITE, United States

renew international relations & cooperation between institutions for testing and research on materials and structures

Paris, 17 - 20 June 1947
Laboratoires du Bâtiment et des Travaux Publics de Paris
Réunion Internationale des Laboratoires d’Essais et de recherches sur les Matériaux et les constructions

The International Union of Testing and Research Laboratories for Materials and Structures

aims to promote scientific cooperation in the area of construction materials and structures

1949: “RILEM CEMBUREAU” cement testing method developed by the task group “Cement and Concrete”, created in 1948 by Robert L’Hermite and Raoul Dutron
International Union of Laboratories and Experts in Construction Materials, Systems and Structures

promote scientific cooperation and advance scientific knowledge related to construction materials, systems and structures, encourage transfer and application of this knowledge worldwide

• favour and **promote cooperation at international scale** by general access to advanced knowledge,

• stimulate **new directions of research** and its applications, promoting excellence in construction,

• **promote sustainable and safe construction**, and improved performance and cost benefit for society.
Countries TOP-20 in 2018
(based on total #individual membership)
Colossal statue base decorated with bound prisoners
Seti I memorial temple in Gurna
suffering badly from salt crystallization

Salt crystallization damage to stone by continuous partial immersion in sodium sulphate solution.

RILEM TC 271-ASC
Accelerated laboratory test for the assessment of the durability of materials.

Building Materials Laboratories,
University of Cyprus.

Ioannis Ioannou
Technical Exchanges

Committee meetings
Laboratory & Site visits

International workshops, seminars, conferences

PhD workshops

Annual Week/Spring Convention
Technical Committees (TCs) are the cornerstone

TC work typically results in:

- Technical Exchange
- State-of-the-art reports
- Recommendations on test methods

More than 1500 experts are involved in RILEM
About 50% of the members are active in present 36 Technical Committees (TC)
Dissemination of information worldwide

Website
Reports
Recommendations
Proceedings

Technical Activities Committee
TAC Chair: Nele DE BELIE
Material Processing and Characterization
Daman PANESAR, Canada

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

36 TCs are active in 6 Clusters
4 Clusters pertaining to concrete
New Technical Committees created in 2019

➢ TC CCS - Early age and long-term crack width analysis in RC Structures, chaired by Miguel AZENHA

➢ TC DCM - Long-term durability of structural concretes in marine exposure conditions, chaired by Kefei LI

➢ TC GDP - Test Methods for Gas Diffusion in Porous Media, chaired by Bruno HUET

➢ TC IMC: Durability of Inorganic Matrix Composites used for Strengthening of Masonry Constructions, chaired by Antonietta AIELLO

➢ TC MCC - Mechanical Characterization and Structural design of Textile Reinforced Concrete, chaired by Barzin MOBASHER

➢ TC MPA - Mechanical properties of alkali-activated concrete, chaired by Guang YE
Ongoing TCs work on (some keywords)
Concrete vessels are increasingly replacing the traditional oak barrels to produce wine. Among other things, micro-oxygenation through the concrete walls seems to help improve the quality of the wine.

Patricio Río, School of Agronomics in the University of Morón Argentina
You can download all our publications for free on the RILEM website.
Latest Publications

➢ Thermal cracking of massive concrete structures - State-of-the-art report of TC 254-CMS

➢ Physical Properties and Behaviour of High-Performance Concrete at High Temperature - State-of-the-art report of TC 227-HPB

➢ Modelling of Concrete Behaviour at High Temperature - State-of-the-art report of TC 227-HPB

➢ Reinforcement of existing timber elements and structures - State-of-the-art report of TC 245-RTE

➢ Non-destructive in situ strength assessment of concrete - State-of-the-art report of TC 249-ISC

➢ 259-ISR: Diagnosis and Prognosis of Alkali Aggregate Reactions Affected Structures - State-of-the-art report of TC 259-ISR
Latest Publications

Recommendations published in 2019

➢ Recommendation of RILEM TC 237-SIB on fragmentation test for recycled asphalt, July 2019

➢ Recommendation of RILEM TC 260-RSC for using superabsorbent polymers (SAP) for improving freeze–thaw resistance of cement-based materials, July 2019

➢ Recommendation of RILEM TC 249-ISC on non destructive in situ strength assessment of concrete, June 2019

➢ Recommendation of RILEM TC 252-CMB: relationship between laboratory short-term aging and performance of asphalt binder, June 2019

➢ Recommendation of RILEM TC 243-SGM: functional requirements for surface repair mortars for historic buildings, February 2019
Materials and Structures

ISSN: 1355-5997 (Print) 1871-6973 (Online)

This journal was previously published under other titles (view Journal History).

Description

Please note, we are currently updating the 2018 Journal Metrics.

Materials and Structures, the flagship publication of the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM), provides a unique international and interdisciplinary forum for new research findings on the performance of construction materials. A leader in cutting-edge research, the journal is dedicated to the...

Latest Articles

Impact factor Materials and Structures

- Impact Factor: 2.548
- Available: 1968 - 2019
- Volumes: 52
- Issues: 416
- Articles: 5,241

Open Access
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Dr. Manfred PARTL
Prof. Lars-Olof NISSON
Prof. Mark G. ALEXANDER
Dr. Carmen Andrade Perdrix
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Dr. Štefan SKARENTAHL
Prof. Dr. Theodosios P. TASSIOS
Dr. Roberto TORRENT
Prof. Folker H. WITTMANN
Dr. James WRIGHT
...

2019
Robert L’Hermite Award
awarded to an author of less than 40 years who has made an exceptional scientific contribution to the field of construction materials and structures

2019: Augusto Cannone Falchetto, Technische Universität Braunschweig
Size Effect in Asphalt Mixture at Low Temperature

2018: Fernando Moreno-Navarro, Uni. of Granada
Designing more durable asphalt materials

2017: Ueli Angst, IETH Zürich
Corrosion in Construction

2015: Guillaume Habert, IETH Zürich
Paving the path toward sustainable concrete
Gustavo Colonnetti Awards
awarded to a researcher of less than 35 years

2019

Sergio Cavalaro, Loughborough Univ.
Connecting the underground world with fibres

Claire White, Univ. of Princeton
Uncovering and Optimizing the Chemical Mechanisms in Alkali-activated Materials and Related Engineering Systems

Bahman Ghiassi, Univ. of Nottingham
Mechanics and durability of textile reinforced composites

2018

Didier Snoeck, Ghent Univ.
Superabsorbent polymers to seal and heal cracks in cementitious materials

Sergio Cavalaro, Loughborough Univ.
Connecting the underground world with fibres
Best Student Poster Award

Implemented in 2017, the RILEM Best Student Poster Award is to be given at every RILEM Annual Week conference. The award is given to a student who has a poster and is at the conference to present/explain the work.

Ms. Alice Titus Bakera, Phd Student at the University of Cape Town, won the 2018 RILEM Best Student Poster Award for her work on “Durability Properties of Concrete Containing Metakaolin” in Delft, Netherlands.
Regional Groups & National Groups

In recent reports, a diverse RILEM National or Regional Office has been established in various countries and regions around the world. These offices play a vital role in fostering collaboration and strengthening RILEM's global presence.

- LAT-RILEM
- CHN-RILEM
- JPN-RILEM
- SEA-RILEM
- AUS-RILEM

RILEM National and Regional Groups have been instrumental in developing national and regional activities, enhancing the overall contribution of RILEM to the field of concrete research and innovation.

International Partnerships

RILEM collaborates with various international bodies and organizations to promote knowledge exchange and research cooperation. These partnerships are crucial in advancing the field of concrete engineering and ensuring the durability and sustainability of concrete structures worldwide.

- International Federation of Construction Chemistry (IFCC)
- International Federation of Societies for Structural Concrete (fib)
- International Society for Steel Fibres Research (ISSF)
- European Federation of Concrete Societies (EFCS)
- American Concrete Institute (ACI)

These partnerships facilitate the sharing of research findings, best practices, and innovative solutions, contributing to the advancement of concrete technology globally.
262-SCI: Characteristics of the steel/concrete interface and their effect on initiation of chloride induced reinforcement corrosion

Chair: Ueli AMANN // Deputy chair: Mette GODER
Activity started in 2014

Significance
- Local conditions at the steel/concrete interface, better known as "Delamination" or "Eschatology", are key parameters for corrosion initiation, but little is known about possible effects of chloride induced corrosion.
- Severe defects in fundamental understanding hampers the development of reliable prediction models for corrosion in concrete.

Goals
- Comparing different conditions at the steel/concrete interface and their possible effect on chloride induced corrosion in order to understand the most pronounced factors.
- Give guidelines for the design of future research concerning steel/concrete.
- Developing existing methods to determine the conditions of the steel/concrete interface.

Methodology
- In addition to bibliographical research, the committee's work consists of exchange of experiences and results, including unpublished results.

Progress
- Between June 2015 and June 2019, in total 13 SCI meetings were held and two publications were prepared:

References
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Development Advisory Committee
DAC Chair: Hans BEUSHAUSEN

"It is like for a young player to have had the opportunity to play with Pelé, Maradona or nowadays with Messi"

https://www.youtube.com/watch?v=v2yRGVK-tl0
Educational Activities Committee
EAC Chair: Karen SCRIVENER

Young People
Recruitment of new young members
&
Mobility of researchers
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  - Takafumi Noguchi
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  - Maria Rosa Valluzzi
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Esperanza Menéndez Méndez Cluster B: Transport and Deterioration Mechanisms
Giovanni Plizzari Cluster C: Structural Performance and Design
Alexandra Bertron Cluster D: Service Life and Environmental Impact Assessment
Enrico Sassoni Cluster E: Masonry, Timber and Cultural Heritage
Michael Wistuba Cluster F: Bituminous Materials and Polymers

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Eshan Dave Arun Menon Gaurav Sant
Hervé di Benedetto Daniel Oliveira Anya Vollpracht
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Sub-Saharan Africa: Wolfram Schmidt
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China: Kefei Li
South Asia: Radhakrishna Pillai

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Vyatcheslav Falikman, RUSSIAN FEDERATION

Viktor Mechtcherine, GERMANY
Takafumi Noguchi, JAPAN

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Latin America: Alejandro Duran Herrera
North America & Caribbean: Dimitri Feys
Pacific: XXX
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Past Chairman: Doug Hooton
TAC Chair Ex officio: Nele De Belie
Secretary: Fanta Sylla

Members:
Robert Flatt
Mette Geiker
Wolfram Schmidt
Gideon Van Zijl
Jason Weiss
## Future RILEM Annual Weeks and Spring Conventions

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<th>Spring Event</th>
<th>Annual Week</th>
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<td>2020/74th</td>
<td>Guimarães, Portugal</td>
<td>Sheffield, UK</td>
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<td>2021/75th</td>
<td>Paris, France</td>
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<td>2023/77th</td>
<td>Milano, Italy</td>
<td>Vancouver, Canada</td>
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... There is a need to continue to develop additional modes of operation to make our professional impact more effective, to provide more value to our current members and make ourselves more attractive to new members ...
promote scientific cooperation and advance scientific knowledge related to construction materials, systems and structures, encourage transfer and application of this knowledge worldwide.

RILEM Strategic Actions

- Young people (EAC)
- Link with industry (DAC)
- OA Publication strategy (TAC / BOE)
- RILEM website (BUR / SG)
- RILEM promotion and follow up (SG)
Partnerships

American Concrete Institute
Japan Concrete Institute
Indian Concrete Institute
Instituto Brasileiro do Concreto
New Zealand Concrete Society
Asociación Latinoamericana de Control de Calidad, Patología y Recuperación de la Construcción Internacional (ALCONPAT-Internacional)

International Society for Asphalt Pavements

Korea Concrete Institute

CONCRETE INSTITUTE of AUSTRALIA

Fédération internationale du béton
Summary of benefits and values

- access to international forum of experts through seminars and workshops
- access to international expertise and opportunities to acquire and advance leading-edge technology through dedicated committee work
- reduced fees on events and printed publications

Worldwide network

Interact with leading scientists and technologists

Many active technical committees

State of the art activities
Summary of benefits and values for Institutional Members

➢ The possibility for the Institutional Member to appoint any of its collaborators as technical experts in any of the RILEM Technical Committees of your interest. At present over 35 committees are active in the fields of concrete, masonry, timber, asphalt;

➢ Access to the private RILEM Web directories restricted to RILEM Members as well as access to RILEM’s Directory of Members;

➢ A link on the RILEM website to your corporate website for a better visibility;

➢ A subscription (6 issues/year) to RILEM’s Journal “Materials and Structures” published by Springer;

➢ Access to online articles published on www.rilem.net;

➢ Reduced fees for RILEM events (10%);

➢ 30% discount on printed RILEM publications.
Summary of benefits and values for Students

- Membership in a RILEM Technical Committee
- Access to the private RILEM Web directories restricted to RILEM Members as well as access to RILEM’s Directory of Members
- Personal access after login to online RILEM Proceedings and Reports and to SPRINGER proceedings
- Free subscription to the online version of Materials and Structures Journal (archives, current volumes) including online access to 5 other SPRINGER journals
- Opportunity to publish selected articles as free OA paper in Materials & Structures and in RILEM Technical Letters
- Reduced fees for RILEM events (10%)
- 30% discount on printed RILEM publications
- 20% discount on all Springer e-books
Become a member!

New Fees for our younger members

- Individual subscription in 2020
  - **Student Member**: 25 euros
  - **Affiliate Member**: 100 euros
  - **Senior Member**: 375 euros
  - **Retired Member**: 75 euros

- Corporate subscription in 2019
  - **Institutional Member**: 2205 euros
  - **Industrial Member**: 4050 euros
  - **Associate Member**: 1165 euros

A special discount fee is applicable for countries according to their GDP per capita.

More information at [https://www.rilem.net/](https://www.rilem.net/)
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Ms. Fanta SYLLA

Head of Publication and Communication
Ms. Anne GRIFFOIN
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