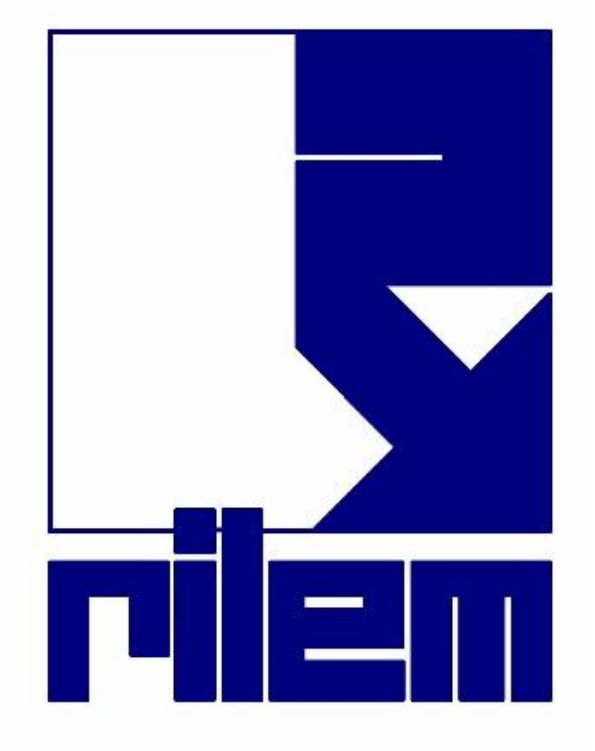


Réunion Internationale des Laboratoires et Experts des Matériaux, systèmes de construction et ouvrages

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

RILEM History & Goals

When did everything start?

1947 Paris

RILEM History & Goals

Who were the founders?

Robert L'Hermite (1910-1982)

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

RILEM History & Goals

RILEM goals

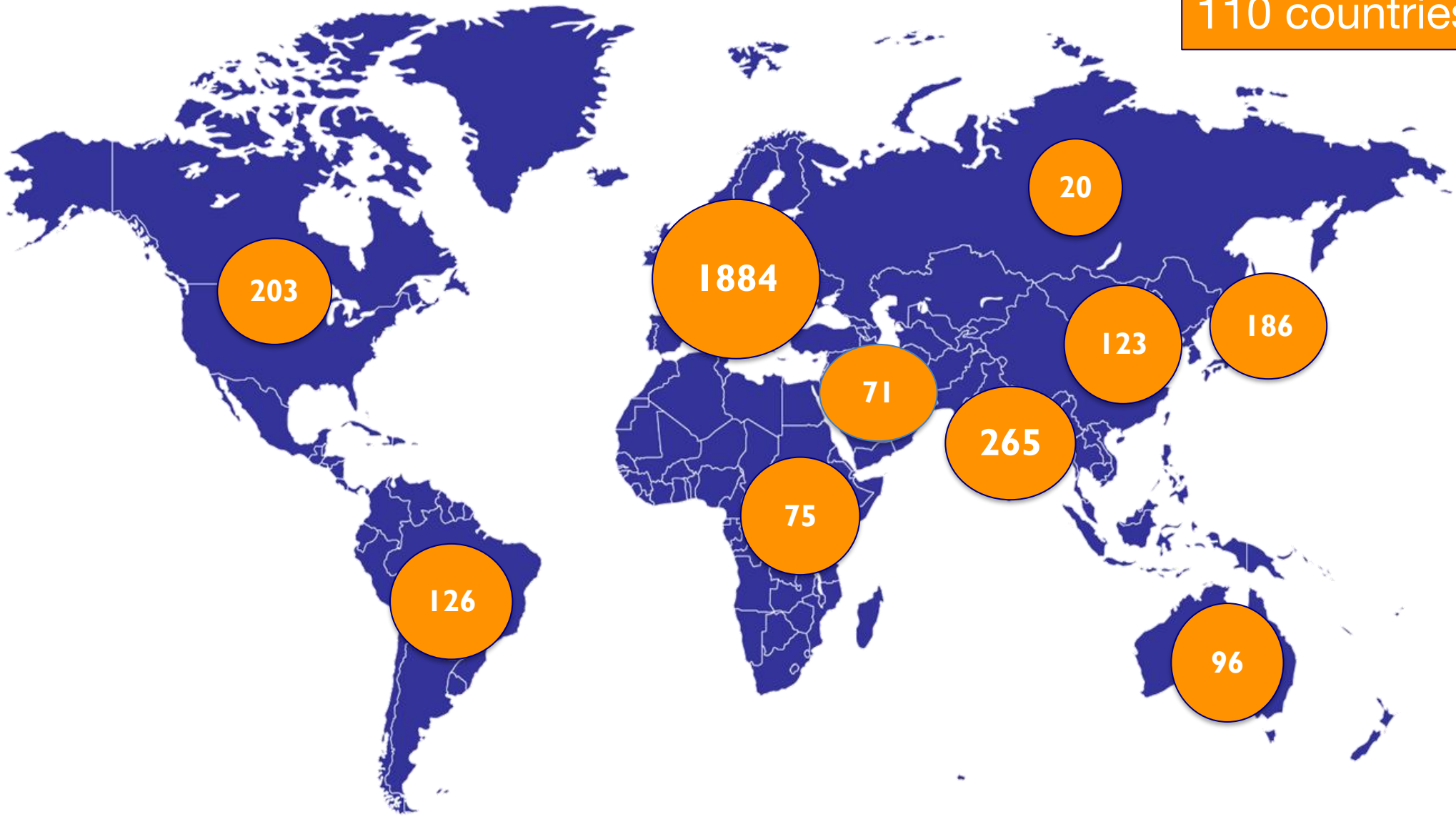
- favour and **promote cooperation at international scale** by general **access** to advanced knowledge,
- stimulate **new directions of research** and its applications, promoting excellence in construction,
- **promote sustainable and safe construction**, and improved performance and cost benefit for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

RILEM Worldwide

+3400 members
+120 Corporates
110 countries

RILEM Worldwide

+3400 members
+120 Corporates
110 countries



RILEM organisation

RILEM Memberships

RILEM is composed of corporate members and individual members, including scientists and engineers, research and testing laboratories and companies.

Corporate Members

- **INSTITUTIONAL AND INSTITUTIONAL-PLUS MEMBERS** are **research and testing organisations** of national renown; universities, international or national standards organisations.
- **INDUSTRIAL MEMBERS** are **large firms or associations** in the materials or construction sectors.
- **ASSOCIATE MEMBERS** are **smaller research, academic or building organisations** or companies.

Individual Members

- **A SENIOR MEMBER** is an experienced scientist or engineer, having reached a position of responsibility and recognised expertise in a public or private organisation or company concerned with testing or research in the field of building materials and structures.

- **A YOUNG MEMBER** is an under-graduated student (including PhD students) or a young research scientist or engineer who is at the early stage of his career **under the age of 35**. Each RILEM young member is linked to the International Network of RILEM, through his registration in the Directory of Members. A RILEM young member may register to contribute to the activity of a RILEM TC.

- **A RETIRED MEMBER** is a person in retirement who has ceased to work.

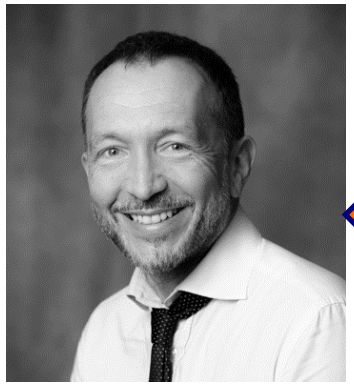
RILEM Organisation Chart

President

Prof. Nele De Belie
Ghent University
Belgium

Vice-President

Beushausen
University of Cape Town



Past President

Roussel
Université Gustave Eiffel

RILEM Members

General Council
Decision-making body of the Association

Presidency
Decides the general orientation of the Association
- President
- Vice President
- Outgoing President
- Treasurer
- General Secretary (nonvoting)

Bureau
Control of day-to-day affairs of RILEM
- President
- Vice President
- Honorary President
- Outgoing President
- Treasurer
- 4 members at large

General Secretariat
Executive organ of the General Council and Bureau
- General Secretary
- Staff
- (Including TAC and EAC Secretary)

Technical Activities Committee
Oversees all technical activities of RILEM including TCs
- TAC Chair & Deputy Chair
- Secretary
- 6 Cluster Conveners
- Experts
- Outgoing Chair
- EAC Chair ex officio
- MS EiC ex officio
- RTL EiC ex officio

Development Advisory Committee
Organizational, financial, promotional, and administrative matters
- DAC Chair & Deputy Chair
- Secretary
- Treasurer
- 11 Regional Conveners
- Experts
- Outgoing Chair

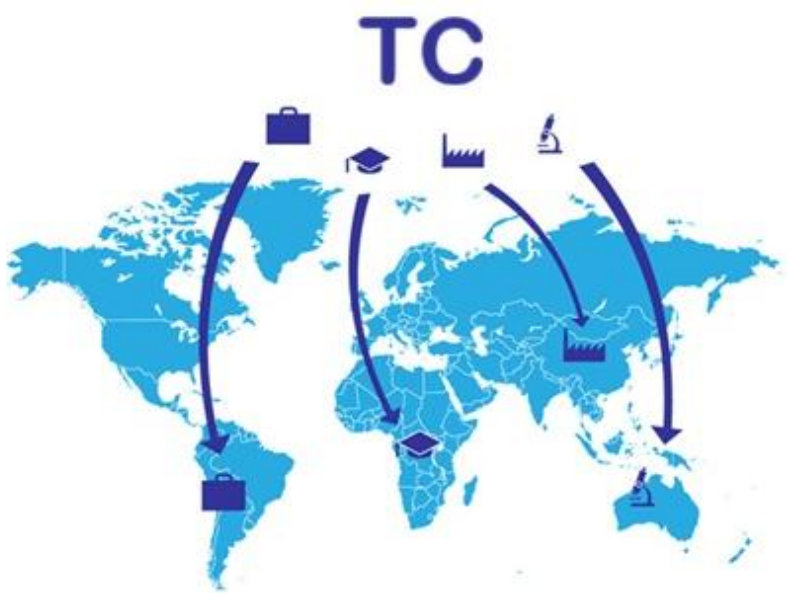
RILEM Youth Council
Organizational, financial, promotional, and administrative matters for young members
- RYC Chair & Deputy Chair
- Secretary
- Outgoing Chair
- 11 members

Educational Activities Committee
Educational courses such as doctoral courses and short seminars for professionals (e.g. practicing engineers). Educational publications and other teaching material
- EAC Chair & Secretary
- 7 members at large
- TAC Chair ex officio
- Outgoing Chair

Editorial Board *Materials and Structures*
Scientific Management of M&S
- Editor in Chief
- Deputy Editor in Chief
- TAC Chair
- Former EiC
- Associate Editors
- Managing Editor

Editorial Board *RILEM Technical Letters*
Scientific Management of RTL
- Editor in Chief
- Deputy Editor in Chief
- Associate Editors
- Managing Editor

RILEM Technical Committees



What is a RILEM Technical Committee?

A group of international experts from around the world working together.

Why?

To address lack of data, standards, codes, testing methods, comprehensive literature reviews, etc…

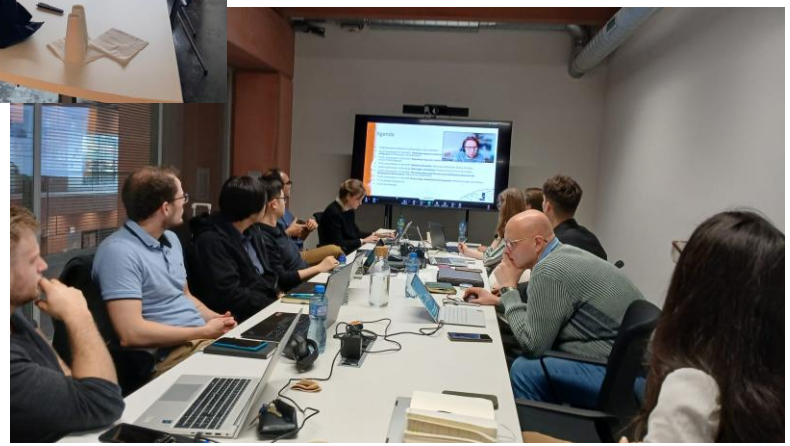
Goals?

Advancement of knowledge
Transfer of knowledge

Benefits?

Professional networking
RILEM membership benefits
Visibility

RILEM Technical Committees



Technical Committees (**TCs**) are the **cornerstone** of RILEM

TC work typically results in:

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

All TC participants should register by filling the online "Join a TC registration form" on RILEM Website

The lifetime of a TC is between 5 and 7 years.

RILEM Technical Committees

***48 TCs** are active in 6 Clusters, 4 Clusters pertaining to cementitious materials*

Cluster A - Material Processing and Characterization
Susan BERNAL LOPEZ, United Kingdom

Cluster B - Transport and Deterioration Mechanisms
Liberato FERRARA, Italy

Cluster C - Structural Performance and Design
Kei-ichi IMAMOTO, Japan

Cluster D - Service Life and Environmental Impact Assessment
Anya VOLLPRACHT, Germany

Cluster E - Masonry, Timber and Cultural Heritage
Arun MENON, India

Cluster F - Bituminous Materials and Polymers
Eshan DAVE, USA

Technical Activities Committee
TAC Chair: *Daman PANESAR*

RILEM Technical Commitees

Cluster A: Material Processing and Characterization

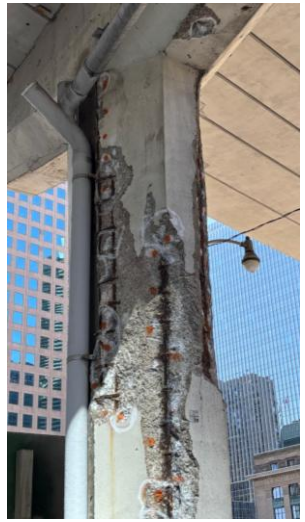
284-CEC : Controlled expansion of concrete by adding MgO-based expansive agents taking the combined
296-ECS : Assessment of electrochemical methods to study corrosion of steel in concrete
302- CNC : Carbon-based nanomaterials for multifunctional cementitious matrices
303-PFC : Performance requirements and testing of fresh printable cement-based materials
304-ADC : Assessment of Additively Manufactured Concrete Materials and Structures
305-PCC : Pumping of concrete
309-MCP : Accelerated Mineral Carbonation for the production of construction materials
311-MBC : Magnesia-based binders in concrete
312-PHC : Performance testing of hydraulic cements
317-ACP : Active Control of Properties of Fresh and Hardening Cementitious Materials
CSA : Calcium sulfoaluminate-based cement and concrete
MCA :Mechano-chemical activation of cementitious constituents

New
Aug
2025

Cluster B: Transport and Deterioration Mechanisms

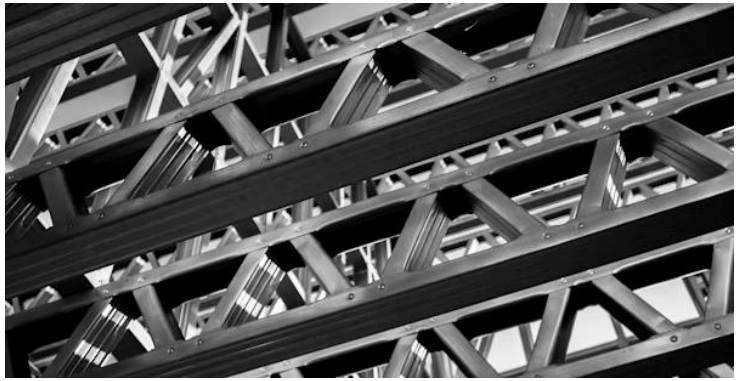
285-TMS: Test method for concrete durability under combined role of sulphate and chloride ions
286-GDP: Test Methods for Gas Diffusion in Porous Media
297-DOC : Degradation of organic coating materials and its relation to concrete durability
298-EBD : Test methods to evaluate durability of blended cement pastes against deleterious ions
313-MMS : Modelling and experimental validation of moisture state in bulk cementitious materials and at the steel-concrete interface
ASM : Atomistic Simulations for Cement-Based Materials: Recommendations and link to experiments
MTZ : Influence of Recycled Aggregates on Interfacial Transition Zones in Recycled Concrete

New March 2025



Cluster C: Structural Performance and Design

287-CCS : Early age and long-term crack width analysis in RC Structures
292-MCC : Mechanical Characterization and Structural design of Textile Reinforced Concrete
294-MPA : Mechanical properties of alkali-activated concrete
306-CFR : Concrete during Fire - Reassessment of the framework
314-OCM : On-site Corrosion Condition Assessment, Monitoring and Prediction
MBB : Mechanical behaviour of bio-aggregates based buildings materials
QPA : Quality and performance assurance of additively manufactured cementitious composites by advance
RCC : Rolled compacted concrete for pavement applications



Cluster D: Service Life and Environmental Impact Assessment

299-TES : Thermal energy storage in cementitious composites
300-ARM : Alkali-aggregate reaction mitigation
301-ASR : Risk assessment of concrete mixture designs with alkali-silica reactive (ASR) aggregates
315-DCS : Data-driven concrete science
321-UMW : Upcycling Powder Mineral “Wastes” into Cement Matrices
324-SDM : Scientific Metadata Management of Construction materials
CUC : Carbon dioxide uptake by concrete during and after service life
IAQ : Impact of Building Materials on Indoor Air Quality

New
March
2025

Cluster E: Masonry, Timber and Cultural Heritage

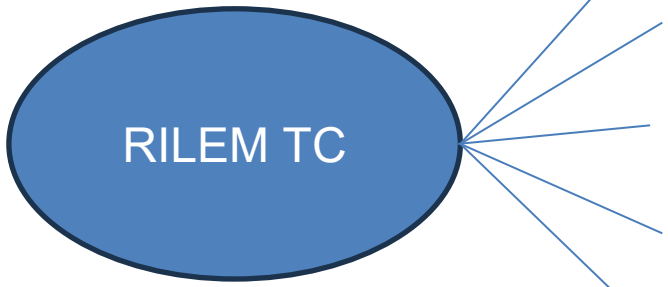
290-IMC : Durability of Inorganic Matrix Composites used for Strengthening of Masonry Constructions
310-TPT : Tests methods for a reliable characterization of resistance, stiffness and deformation pro
318-BEC : Bio-stabilised earth-based construction: performance-approach for better resilience
319-MAE : Mechanical performance and durability assessment of earthen elements and structures
320-PEM : Processing of earth-based materials
322-MCB : Mechanical Characterisation of Bamboo
CTM : Testing Methods For Masonry Cores

Cluster F: Bituminous Materials and Polymers

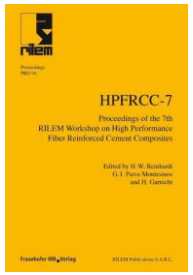
295-FBB : Fingerprinting bituminous binders using physico-chemical analysis
307-PPB : Physicochemical Effects of Polymers in Bitumen
308-PAR : Performance-based Asphalt Recycling
316-FEE : Fume Emissions Evaluation for Asphalt Materials
323-APD : Alternative Paving Materials - Design and Performance
325-APS : Alternative Paving Materials – Sustainability
MWP: Mechanical Wave Propagation to characterize bituminous mixtures

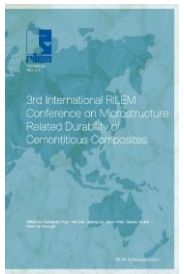
RILEM Publications

Dissemination of information worldwide



- Recommendations (Free Access papers in MAAS)
- Proceedings (Springer or RILEM Publications)
- TC reports as Papers in Topical Collections of MAAS
- TC opening or finalising activities papers in RTL
- STARs state-of-the-art reports (books published by Springer)





RILEM Publications

You can download
all our publications for free
on the RILEM website

RILEM Publications

Materials & Structures (M&S)

RILEM Flagship, created in 1968

50th Anniversary Issue in Open Access

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 publication of **high-quality papers examining the fundamental properties of building materials, their characterization and processing techniques, modelling, standardization of test methods, and the application of research results in building and civil engineering**. Materials and Structures also publishes comprehensive reports prepared by RILEM's technical committees.

Editor-in-Chief
Giovanni Plizzari

Deputy Editor-in-Chief
Arnaud Perrot

Journal metrics

Journal Impact Factor
3.9 (2024)

5-year Journal Impact Factor
4.1 (2024)

Submission to first decision (median)
11 days

RILEM Publications

RILEM Technical Letters (RTL)

RILEM Technical Letters journal was launched in March 2016. With the new scientific peer review journal, RILEM Technical Letters, RILEM seeks to venture into the new era of open access publishing by disseminating contributions breaking new ground in the field of construction materials science.

Scope of the journal and profile of the publications
RILEM Technical Letters publishes reports of major innovative research or strategic research needs in the field of construction and building materials science in the form of short letters available online. The letters are submitted on invitation by the Editorial Board.

The journal became indexed in the Directory of Open Access Journals (DOAJ) in September 2018.

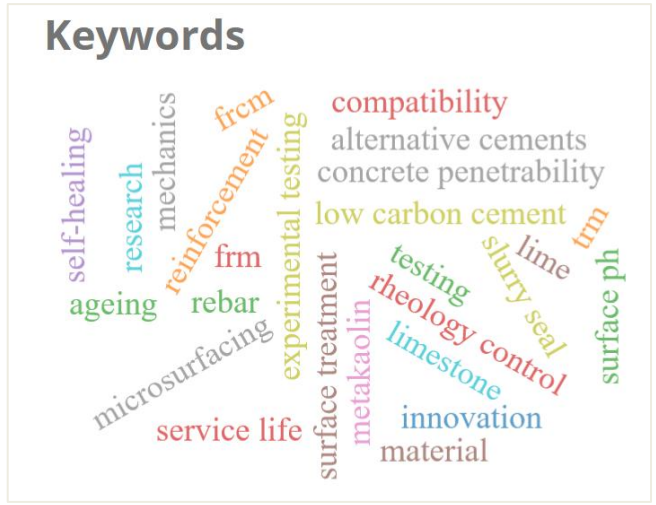
In August 2020, RILEM Technical Letters was included in Scopus database.

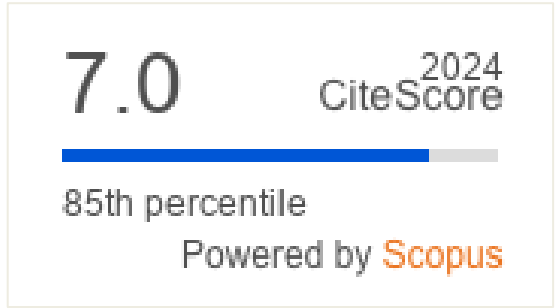
RILEM OPEN ACCESS JOURNAL

RILEM
technical letters

Editor-in-Chief

Dr Mateusz Wyrzykowski





RILEM Annual and Technical reports

RILEM Events

Future RILEM Annual Weeks and Spring Conventions

RILEM Annual Weeks

- **September 5 to September 12, 2026** - 80th Annual Week, Nairobi, Kenya, Dr Wolfram Schmidt
- **August 23 to August 27, 2027** – 81st Annual Week, Bali, Indonesia, Prof . Puput Risdanareni

RILEM Spring Conventions

- **April 13 to April 17, 2026** - Ghent, Belgium, Prof. Nele De Belie & Prof Geert De Schutter
- **April 6 to April 10, 2027** – Thessaloniki, Greece, Prof. Maria Stefanidou

RILEM Educational Activities

EAC

One of the main purposes of the Educational Activities Committee (EAC) of RILEM **is to broaden the education of both PhD students and the professional community through promotion of interesting and informative one-week PhD courses and seminars** on subjects of relevance to researchers working in specific areas. RILEM EAC is responsible for RILEM activities in the field of education. These include a number of different tasks, of which the basic and most important one is the courses to which we grant scientific sponsorship. Though RILEM EAC has only existed for a handful of years, our sponsored courses have been enjoyed by more than 2000 participants and about 200 teachers.

+150 — **Sponsored doctoral courses since 2010.**

207 — **Participants of doctoral courses benefit from a 3-year free membership in 2024.**

13 — **Recurring course series**

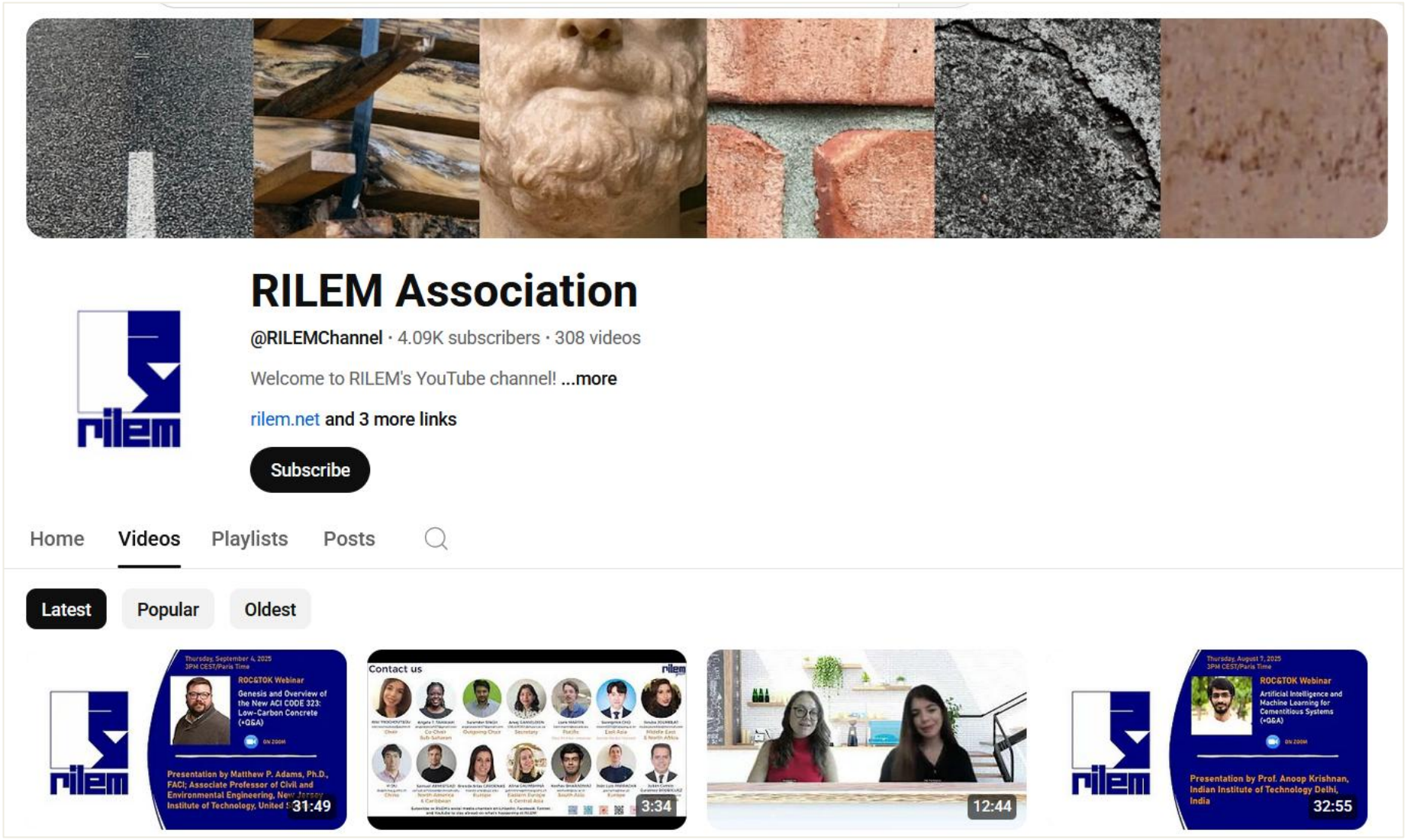
RILEM EAC Webinars

- **Monthly free webinar series,** *RILEM Online Conferences & Transfer of Knowledge (ROC&TOK)*, designed to give information about how to communicate and teach subjects, related to the activities of RILEM and its technical committees.
- The webinars take place online on the first Thursday of each month, except for January, at 2 PM UTC.
- The webinars target professors and senior PhDs and are delivered by experts. However, they are open to all interested, including students and those working in industry.
- Each webinar is scheduled with a 30-min presentation followed by a 30-min Q&A session.
- The webinars are free, i.e. no registration fees are required.
- **Create your Membership or free Register user account and subscribe to our Newsletter to be kept posted !**

CPD credits issued by the Institute of Concrete Technology, UK

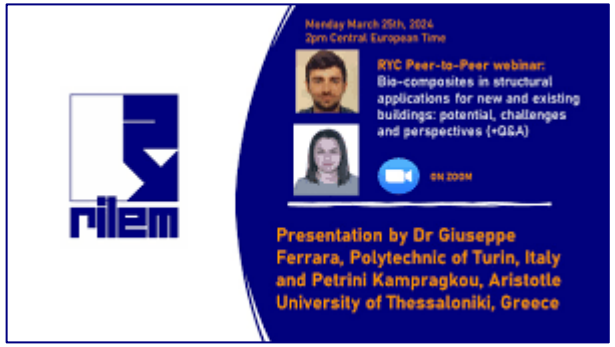
RILEM YouTube channel

www.youtube.com/user/RILEMChannel



RILEM Youth Council (RYC)

- RYC tasked with attracting, involving and motivating young RILEM members
- Encourage participation in TAC and EAC activities
- Increasing awareness on RILEM events and courses
- Coaching young RILEM members for RILEM leadership positions
- Showcasing / celebrating the achievements of the RILEM Youth
- Creating networks between emerging researchers to increase visibility of / access to RILEM



RILEM Awards

RILEM awards the following recognised distinctions annually

✓ **Robert L'Hermite Medalist**

In 1967 when RILEM celebrated its 20th anniversary, it was decided to create a RILEM Medal which would be granted each year to a research scientist. In 1981, the Medal was renamed the Robert L'Hermite Medal, in honour of the President-Founder of RILEM. Since then, each year, the Robert L'Hermite Medal is awarded to a **researcher of less than 40 years**, who has made an exceptional scientific contribution to the field of construction materials and structures.

✓ **Gustavo Colonnetti Medalist**

Starting in 2016, each year, up to **two Gustavo Colonnetti Medals** are awarded **to researchers of less than 35 years**, who have made an outstanding scientific contribution to the field of construction materials and structures

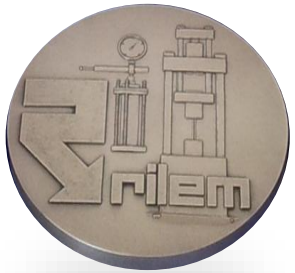
✓ **RILEM Best Student Poster Award**

Implemented in 2017, the RILEM Best Student Poster Award is to be given at every RILEM Annual Week conference. The award is given at the conference to a student who has a poster and is at the conference to present/explain the work. The selection is made by a jury chosen by the RILEM Honorary President. The awardee receives a diploma/certificate from the TAC Chair at the conference.

✓ **RILEM PhD Grant**

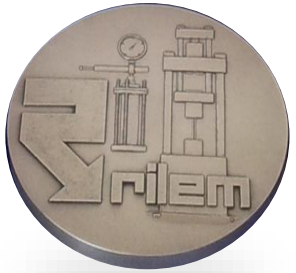
Implemented in 2018 for the first time, this award is given every year at the RILEM Annual Week to PhD students under the age of 35 and residing in any of the countries where a special discount RILEM membership fee is applicable.

Prof. Tommaso D’Antino
2025 Robert L'Hermite Medallist



The Robert L’Hermite medal is awarded to Prof. D’Antino in recognition of his research activity on composite materials for strengthening and retrofitting existing structures or as reinforcement of new concrete members. His internationally recognized expertise and leadership are testified by a remarkable publication record, including publications in Materials and Structures, as well as by his invited lectures to institutions in the UK, India, the USA, and Europe. He has also had research collaborations with prestigious universities in the United States. His involvement in international committees for structural codes and standards demonstrates his significant contribution to engineering practice for transferring research knowledge. Within RILEM, he has been a member of several technical committees and has also contributed to fib and ASTM committees. Some of his scientific contributions were included in design guidelines for fiber-reinforced polymer (FRP) and fiber-reinforced cementitious matrix (FRCM) for strengthening structural members.

Dr Fragkoulis Kanavaris
2025 Gustavo Colonnetti Medallist



Dr Fragkoulis Kanavaris is leader of a specialist discipline focused on concrete materials and decarbonisation within ARUP's Specialist Technology Analytics and Research unit, based in London, UK. The Colonnetti Medal is awarded to Dr. Kanavaris in recognition of his research activity in the development, understanding and evaluation of concrete materials and structures towards sustainability, serviceability, and durability. His outstanding work and leadership from the industry side features many and significant publications, including several papers in Materials and Structures (MS). He was the leading author of a study recognized in the 10 ‘Best Paper Award’ in MS in 2023. He has reinforced the role of the industry in RILEM activities through his participation in several RILEM TCs and by linking his work at ARUP with scientific activities, with the projects on transforming excavated London Clay to calcined clay and on interregional evaluation of concrete crack control approaches serving as prime examples. He has actively participated in standardization committees, with special emphasis on the sustainability of concrete. He has also actively participated and organized RILEM related activities, such as conferences and ROK&TOK webinars and serves as a TAC expert.

Dr Dengwu Jiao
2025 Gustavo Colonnetti Medallist

Currently serving as an Assistant Professor in the Department of Architecture and Civil Engineering at City University of Hong Kong, China, Dr Dengwu Jiao has demonstrated a remarkable commitment to research and innovation. After earning his PhD from Ghent University in Belgium, Prof. Jiao has focused his research on controlling the rheology of cement-based materials, including the use of magnetic fields, to design optimized mixtures for 3D concrete printing. His work bridges fundamental science and practical application, making significant advancements in the field. Prof. Jiao's active involvement in RILEM underscores his dedication to the scientific community. He is or has been actively involved into four RILEM Technical Committees: 317-ACP (Active Control of Properties of Fresh and Hardening Cementitious Materials), 305-PCC (Pumping of Concrete), 303-PFC (Performance Requirements and Testing of Fresh Printable Cement-based Materials) and 266-MRP (Measuring Rheological Properties of Cement-based Materials). His commitment is further demonstrated by his role as a chapter leader in RILEM State-of-the-Art reports. The impact of Prof. Jiao's research is evidenced by the relatively high number of citations his publications have received, highlighting their importance and relevance in the field.

RILEM celebrity endorsement

Robert Torrent, Materials Advanced Services Ltd.
2016 RILEM Honorary Member

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

RILEM industry endorsement

Dr. Fragkoulis Kanavaris, ARUP
London, UK
Deputy Chair of RILEM TC 287-CCS: Early age and long-term crack width analysis in RC Structures

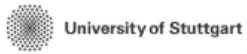
"… industry companies and firms are very much project and income driven. RILEM is based on voluntary contributions from self-motivated members. This does not bring any profit to a firm but it does bring prestige, credibility and knowledge. Now… there are firms that appreciate that and there are firms that do not"

RILEM Corporate Members

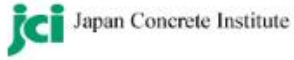
RILEM Corporate Members

RILEM Corporate Members

RILEM Corporate Members



RILEM Partnerships



RILEM Supports Globe !

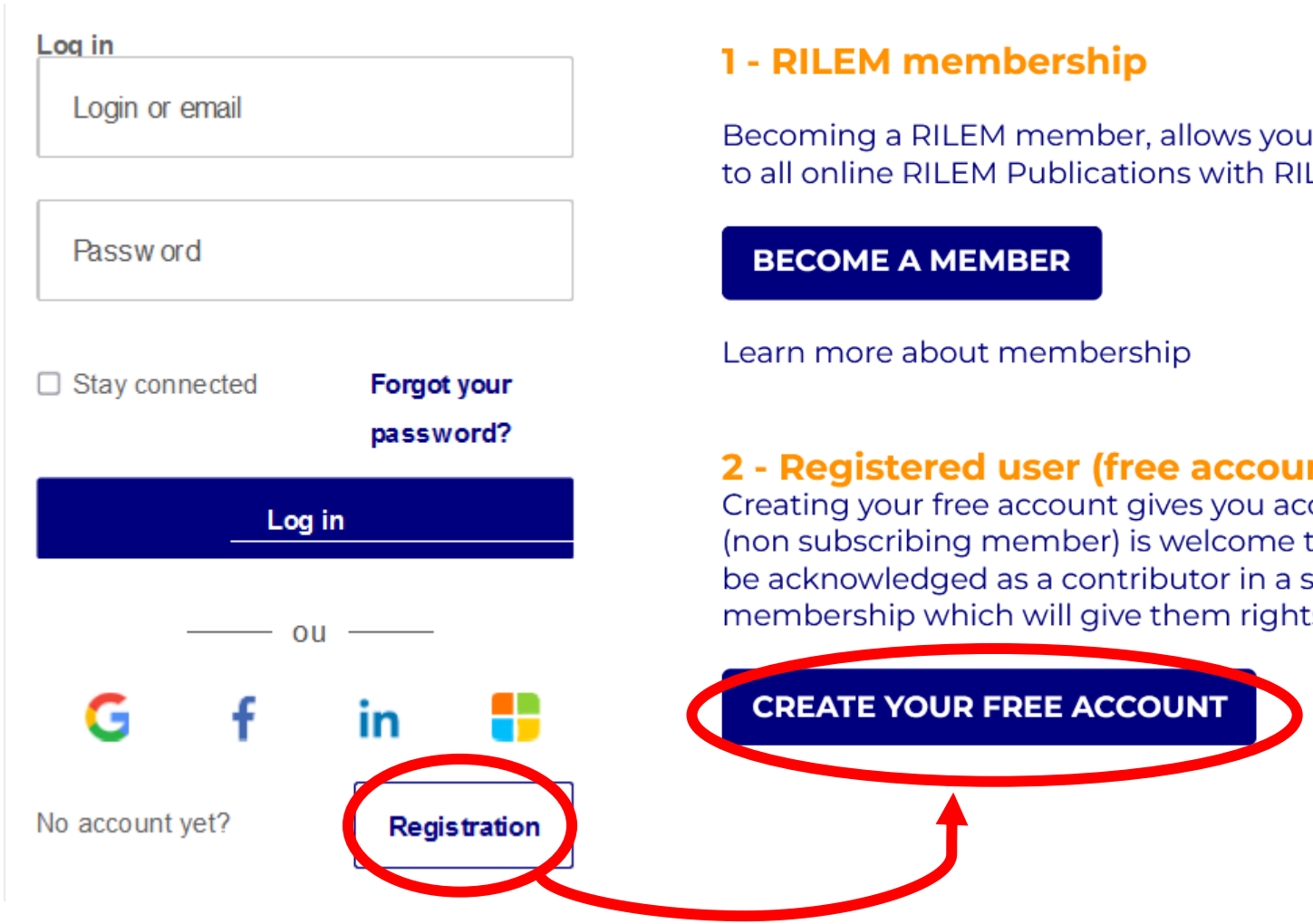
The objective of the Global Consensus on Sustainability in the Built Environment – GLOBE - is to direct the attention of the global community, politicians, industry leaders, and societal decision-makers to the critical importance of the built environment for sustainable development at global and local scales. To learn more about the consensus, please visit Globe page.

SUPPORT: http://globe-consensus.com/

Find out more about this in the **RILEM Green Commitment** page https://www.rilem.net/news/rilem-green-commitment-687

RILEM organisation

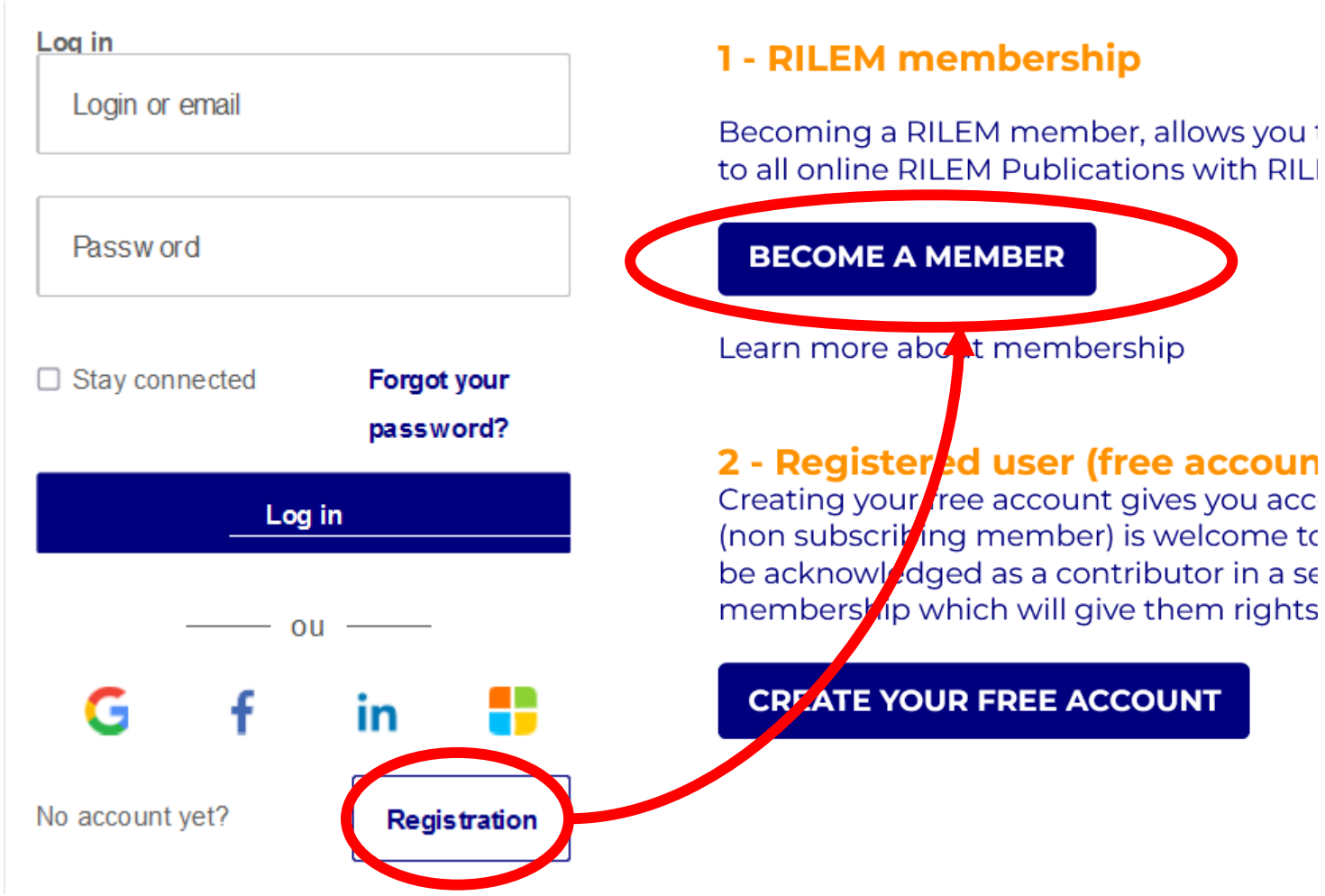
Registered Users



- **It is free**
- **It gives access to the electronic version of the Proceedings published by RILEM Publications**
- **It gives access to the electronic version of the unedited versions of the RILEM STARs**
- **It gives access to other publications available on the website, i.e. reports, recommendations and compendiums**
- **It allows participation to TC meetings, but without the possibility to be listed as a TC member nor as an author on the TC outputs.**

RILEM organisation

RILEM Subscribing Members



- **Same benefits of registered users**

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