

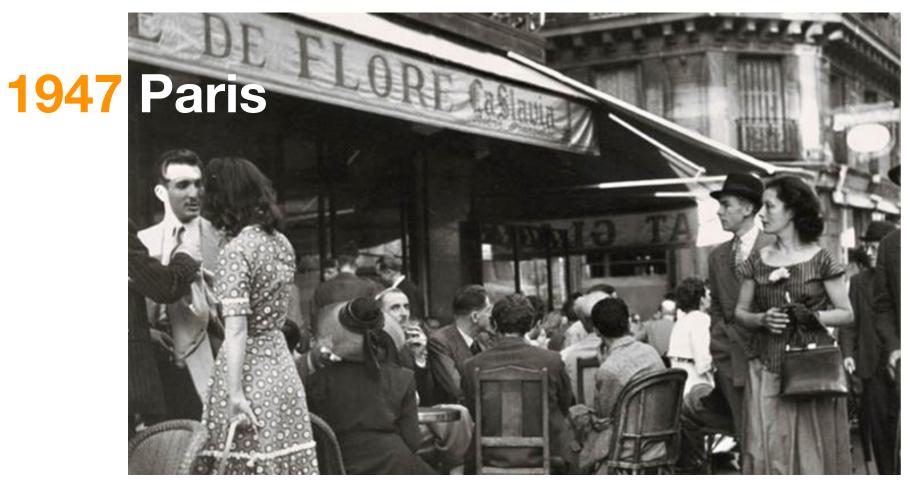
Réunion Internationale des Laboratoires et Experts des Matériaux, systèmes de construction et ouvrages

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

RILEM History & Goals



When did everything start?



RILEM History & Goals

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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.

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RILEM Presidents



President

Vice-President



Past President



Honorary President 2025

Prof. Nele De Belie Ghent University Belgium Prof. Hans Beushausen
University of Cape Town
South Africa

Dr Nicolas Roussel Université Gustave Eiffel Francia

Prof. Dr Hoàng Tung

HUCE

Vietnam

RILEM Organisation Chart

RILEM Membership



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 & Secretary
6 Cluster conveners
9 experts at large
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 & Secretary
Treasurer
10 Regional Conveners
4 experts
Outgoing Chair

RILEM Youth Council

RYC Chair Vice Chair 12 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
18 Associate Editors

Editorial Board RILEM Technical letters

Scientific Management of RTL

Editor in Chief
Deputy Editor in Chief
10 Associate Editors



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

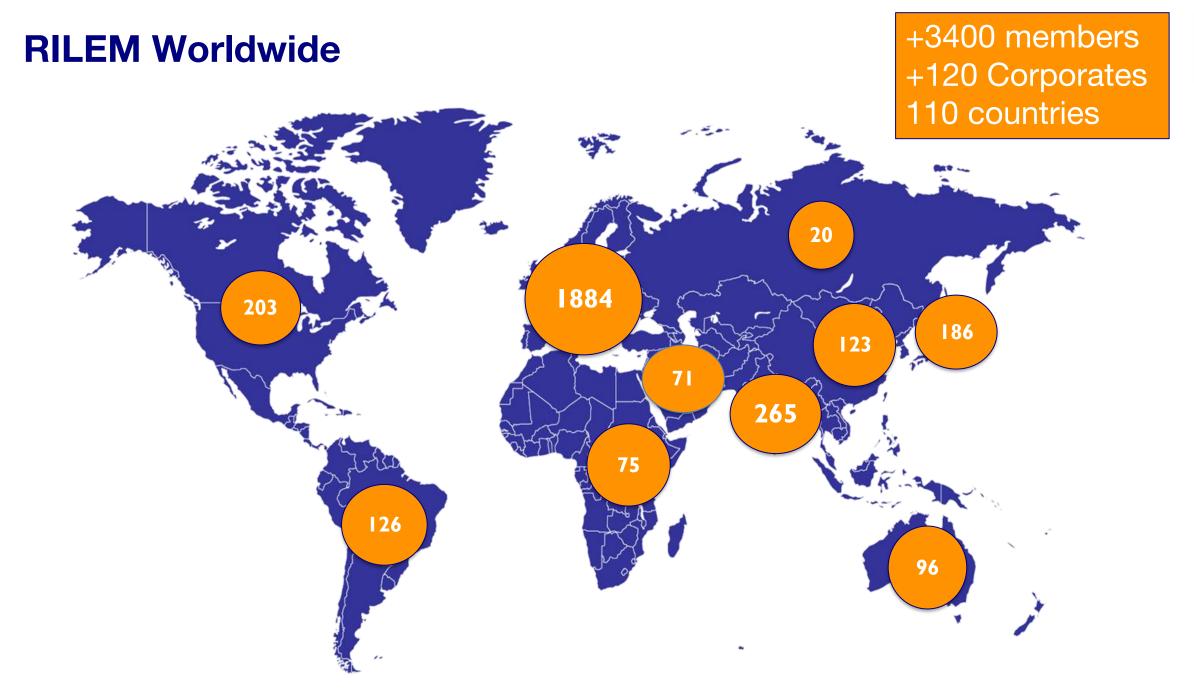
- A SENIOR MEMBER is an experienced scientist or engineer, having reached a position of responsibility and recognised
 expertise in a public or private organisation or company concerned with testing or research in the field of building
 materials and structures.
- A YOUNG MEMBER is an under-graduated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











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 TCs 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



Material Processing and Characterization
Prof. Susan BERNAL LOPEZ, United Kingdom



Transport and Deterioration MechanismsJosee DUCHESNE, Canada



Structural Performance and Design Kei-ichi IMAMOTO, Japan



Service Life and Environmental Impact Assessment Anya VOLLPRACHT, Germany



Masonry, Timber and Cultural Heritage Arun MENON, India

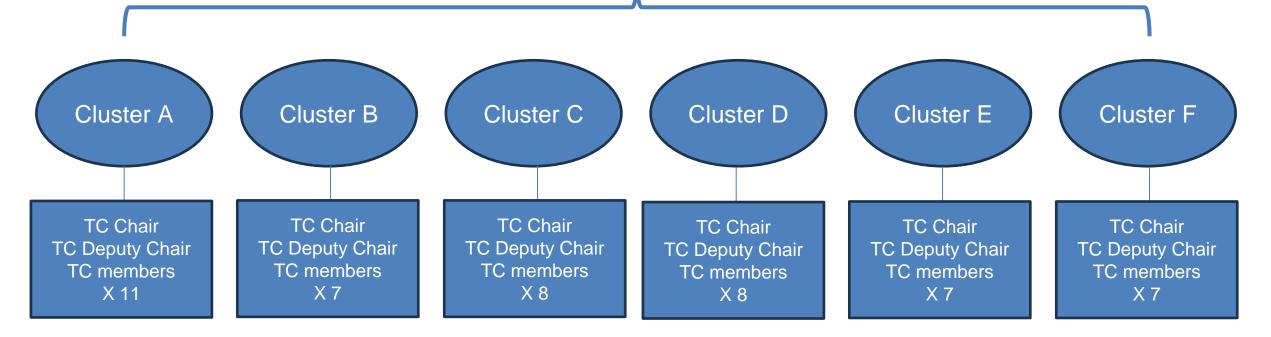


Bituminous Materials and PolymersEshan DAVE, USA

Technical Activities Committee TAC Chair: *Enrico SASSONI*







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



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

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

<u>advance</u>

RCC: Rolled compacted concrete for pavement applications





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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

CUC: Carbon dioxide uptake by concrete during and after service life

SDM: Scientific Metadata Management of Construction materials

IAQ: Impact of Building Materials on Indoor Air Quality



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

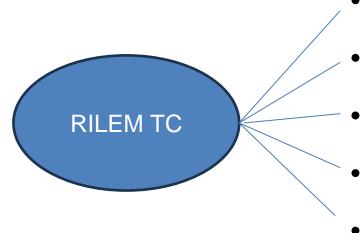
APS: Alternative Paving Materials - Sustainability

MWP: Mechanical Wave Propagation to characterize bituminous mixtures





Dissemination of information worldwide



- Recommendation (OA paper in MAAS)
- Proceedings (Springer or RILEM Publications)
- TC report as Paper in Topical Collection of MAAS
- TC opening or finalising activities paper in RTL
- STAR state-of-the-art report, book published by Springer



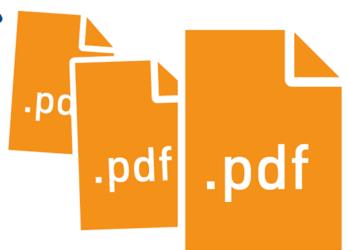








You can download all our publications for free on the RILEM website





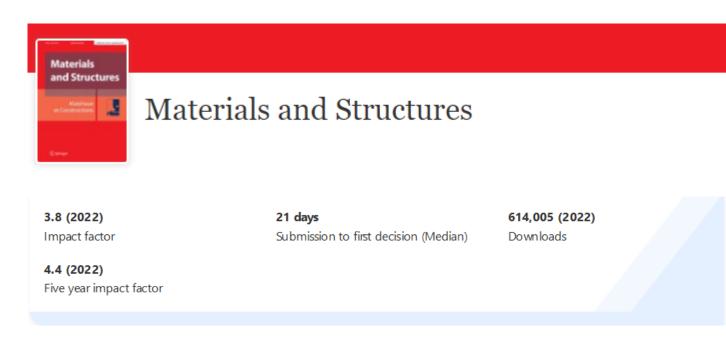


Materials & Structures (M&S)

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 high-quality papers examining of 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. Structures Materials and also publishes RILEM's comprehensive reports prepared by technical committees.

RILEM Flagship, created in 1968





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.

RILEM OPEN ACCESS JOURNAL



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 Annual and Technical reports











Future RILEM Annual Weeks and Spring Conventions

RILEM Annual Weeks

- August 24 to August 29, 2025 79th Annual Week, Hanoi, Vietnam,
 Prof. Tuan Nguyen
- 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



- 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



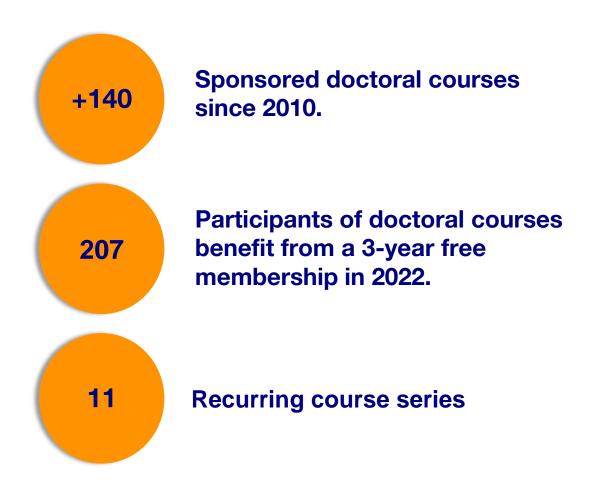


RILEM Educational Activities



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 oneweek 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.



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 and August, 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





On the first Thursday of each month, at 2pm UTC (GMT+0)



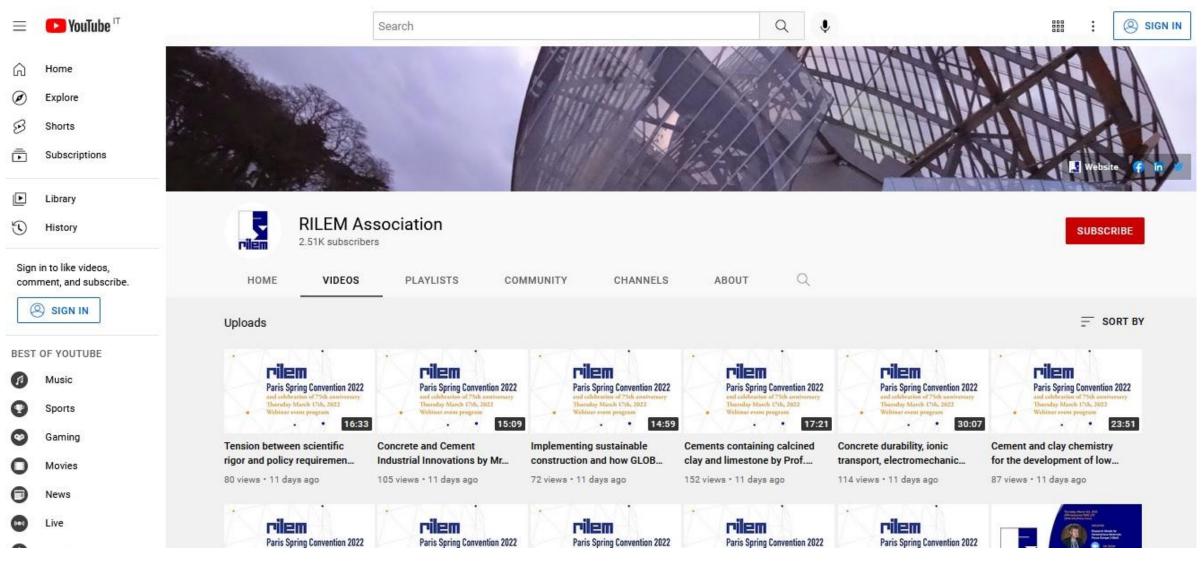
ROC&TOK Webinar series

How to communicate and teach subjects related to the activities of RILEM and its technical committees.

RILEM YouTube channel



www.youtube.com/user/RILEMChannel





New standing committee: RILEM Youth Council RYC

- RILEM Tasked with attracting, involving and motivating young RILEM members
- Encourage participation in TAC and EAC activities
- Increasing awareness on RILEM events and courses
- Grooming 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 for YOUNG members



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





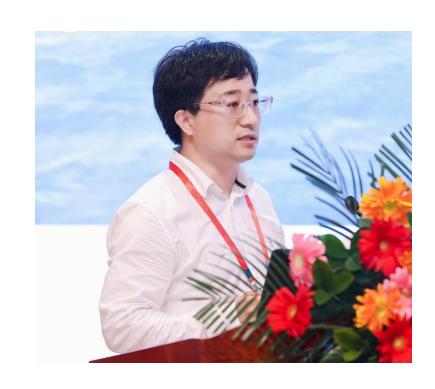


Dr Fragkoulis Kanavaris is leader of a specialist discipline focused on concrete materials and decarbonisation within ARUP's Specialist Technology Analytics and Research unit, based in London, UK. The Colonnetti Medal is awarded to Dr. Kanavaris in recognition of his research activity in the development, 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





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

Robert Torrent, Materials Advanced Services Ltd.

2016 RILEM Honorary Member

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 selfmotivated 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"



















































B ペラーリピンゴ より負き住まい、より負き住場は、より負き推張の実験









Materialforschung und -prüfung





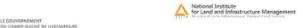






































































































































































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RILEM Partnerships





























































RILEM Supports Globe!



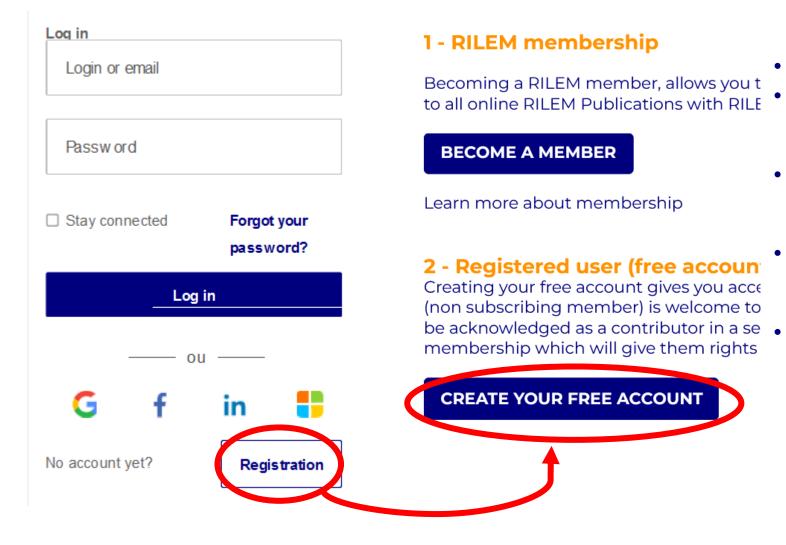
objective of the Global Consensus on Sustainability in the Built Environment - GLOBE - is to direct the attention of the global community, politicians, industry leaders, and societal decisionmakers to the critical importance of the built environment for sustainable development at global and local scales.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



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

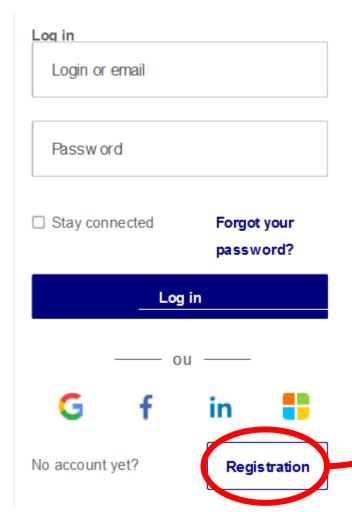


Registered Users



- 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 Subscribing Members



1 - RILEM membership

Becoming a RILEM member, allows you to all online RILEM Publications with RILL

BECOME A MEMBER

Learn more about membership

2 - Registered user (free accoun

Creating your free account gives you acc (non subscribing member) is welcome to be acknowledged as a contributor in a semembership which will give them rights

CREATE YOUR FREE ACCOUNT

- Same benefits of registered users
- Membership in a RILEM Technical Committee. A RILEM member who actively contributes to the TC outputs (articles, STARs, etc.) will be listed as a TC member and author on the TC outputs
- Personal access to the documents produced by a RILEM Technical Committee of which you are member
- Access to electronic version of all RILEM Proceedings, published by RILEM Publications and Springer
- Free subscription to the online version of *Materials and Structures* journal (archives, current volumes)
- Reduced fees for RILEM events (in general 10%, subject to decision of local organisers)
- 20% discount on all SPRINGER ebooks
- Much more...



Become a RILEM member!

➤ Individual fees in 2025

Young Member: 27 euros

Senior Member: 395 euros

Retired Member: 80 euros

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 <u>under the age of 35</u>

- ➤ Corporate fees in 2025
 - Associate Member: 1340 euros (3 staff members and one associate contact)
 - Institutional Member: 2540 euros (15 staff members older than 35 + unlimited staff members under the age of 35)
 - Institutional-Plus Member: 4660 euros (unlimited staff members)
 - Industrial Member: 4660 euros (unlimited staff members)

A special discount (from 40% to 90%) is applicable for countries according to their GDP per capita. More information at https://www.rilem.net/membership

Contact us



Secretariat General

RILEM

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Subscribe to RILEM's social media channels on LinkedIn, Facebook, and YouTube to stay abreast on what's happening at RILEM!









General SecretaryMrs. Judith HARDY



Managing Assistant
Ms. Aurelie MARTINGALE



Head of Publications and Communication
Ms. Anne GRIFFOIN



RILEM Implementation Manager (External consultant not at Secretariat General)
Dr Daniela Ciancio rim@ext.rilem.org