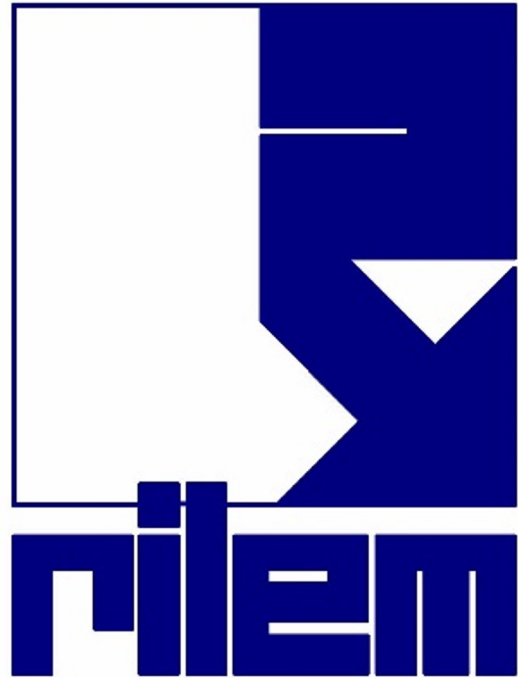




**Réunion Internationale des Laboratoires
et Experts des Matériaux, systèmes
de construction et ouvrages**

**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

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 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 organisation

RILEM presidents



President

Dr Nicolas Roussel
Université Gustave Eiffel
FRANCE



Vice-President

Dr Nele De Belie
Gent Univ.
BELGIUM



Past President

Dr Ravindra Gettu
IIT Madras
INDIA



Honorary President 2024

Prof. Alexandra Bertron
INSA Toulouse / LMDC
FRANCE

SOME RILEM-JCSS EVENTS FROM REMEMBERINGS

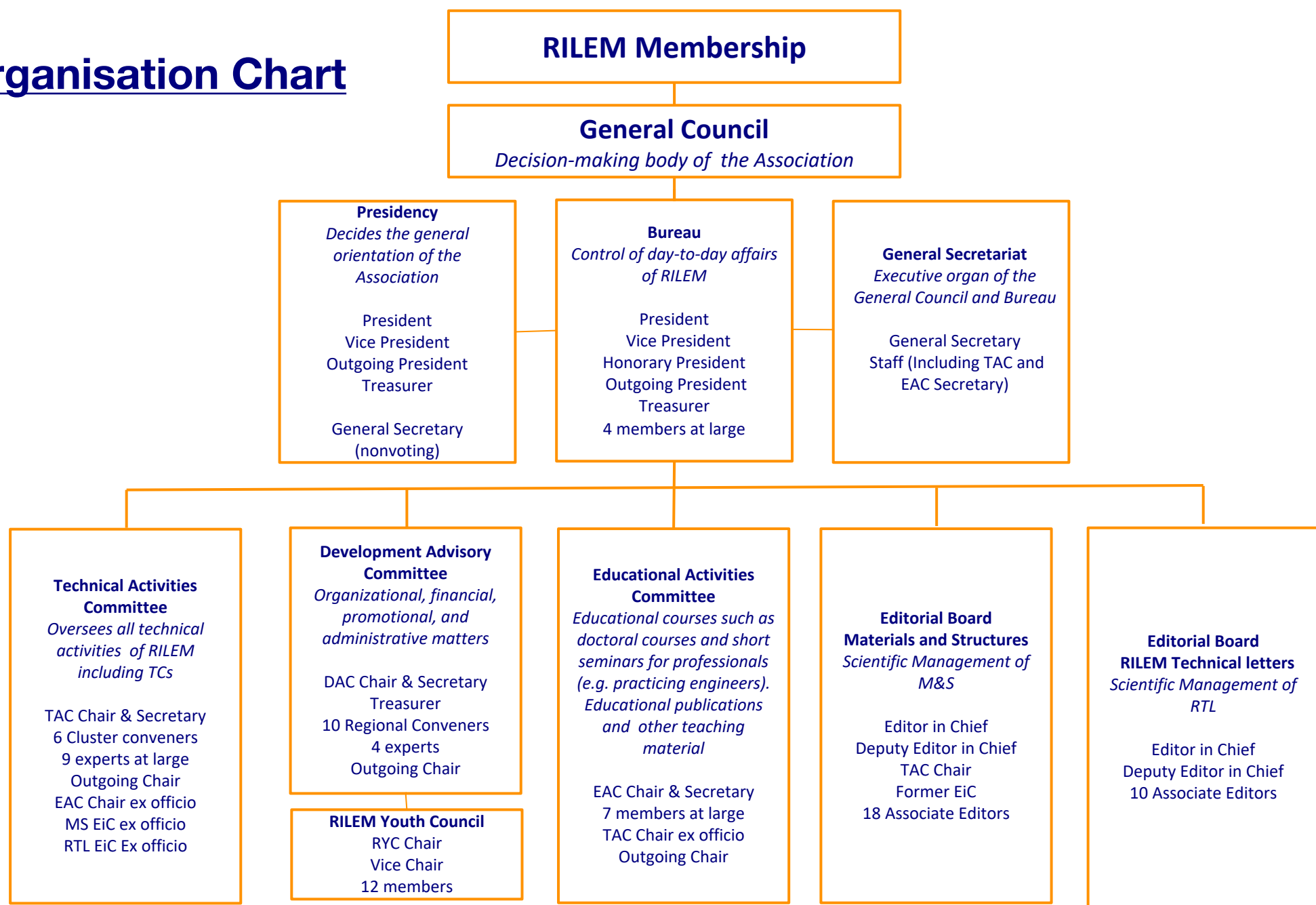
- I was familiar with the probabilistic treatments because the Institute “Eduardo Torroja” of Construction Sciences from its founder and Alfredo Paez, as members of the first CEB commission on Safety has had a **line on research on structural reliability**
- Researchers: Jose M. Urcelay, Vicente Solana, Angel Arteaga....
- Still active: Peter Tanner, Ramon Hingorani, Miguel Prieto, Carlos Lara,
- In the area of Durability: David Izquierdo and Carmen Andrade...
- Maurice Fickelson (Secretary General of RILEM) was who insisted to me during I was Vicepresident (1998-2000) to pay attention to the Liaison Committee for coordination.
 - At that time Tom Vrouwenvelder was the President of the JCSS
- During my Presidency of RILEM (2000-2003) and of the Liaison Committee, -
 - Rilem edited the Probabilistic Model Code as a book (Michel Brusin and Dimitris)
 - Rilem actively supported JCSS

OTHER RILEM ACTIVITIES RELATED TO JCSS

In the 1990's

- TC130-CSL : Calculation methods for service life design of concrete structures (probabilistic)
 - Chairman: Asko Sarja,
 - Members: Tom Siemes, Carmen Andrade
- This TC ended in the proposal of DURACRETE Project, led at the preparation by Tom Siemes of TNO.
- Members of DURACRETE Project were: Tom Vrouwenvelder, Michael Faber, Steen Rostam, Peter Schiessl, Carmen Andrade, Angel Arteaga, Peter Tanner, David Izquierdo, Carola Edvarson,
 - Key action the training by Tom and Michael mainly, →the elemental course to all Duracrete Project members
- After this TC, any other in RILEM has been focussed to probabilistic issues...

RILEM Organisation Chart



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.

RILEM organisation

Become a RILEM member!

❓ Individual fees in 2024

- 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 under the age of 35

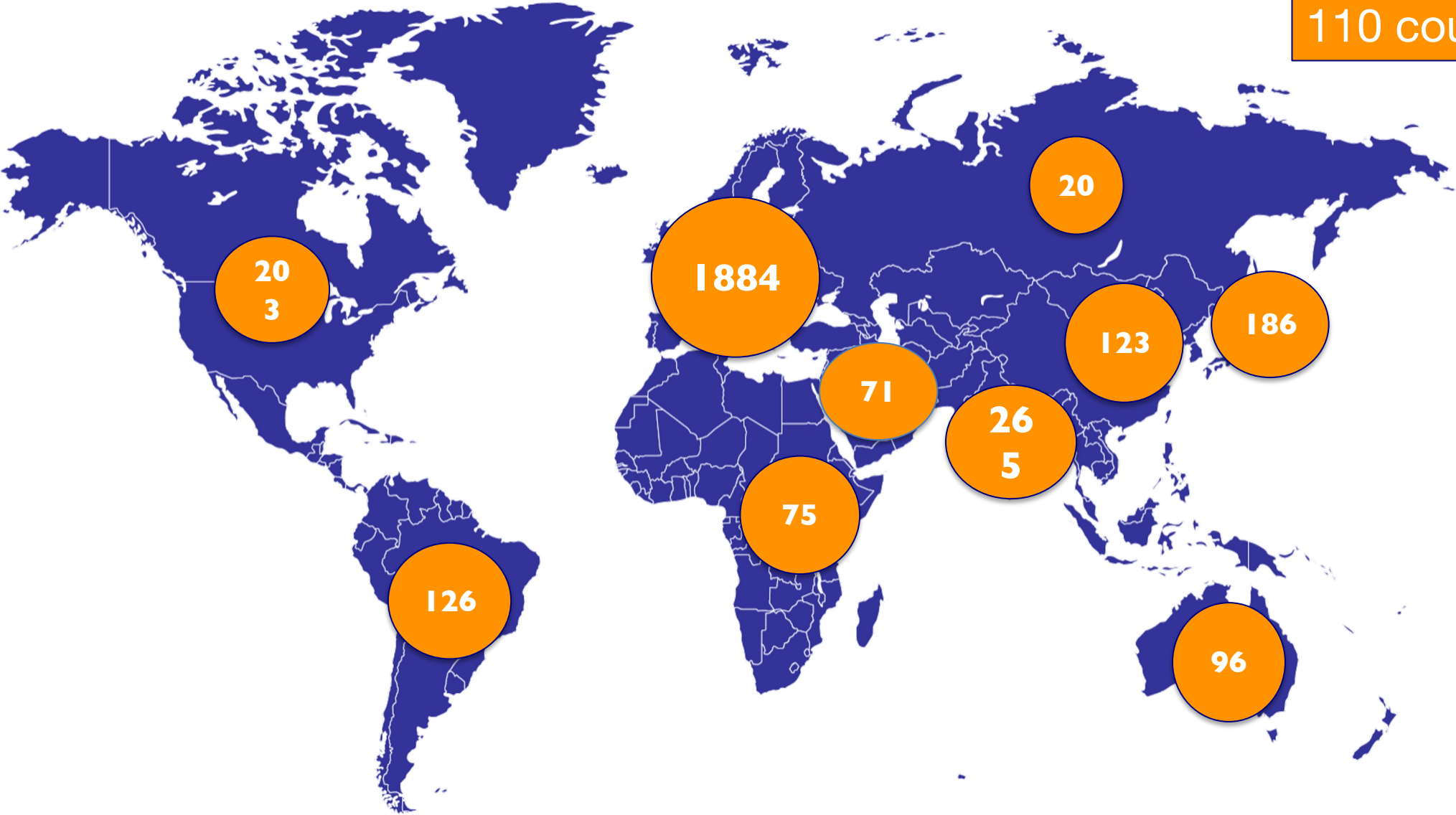
❓ Corporate fees in 2024

- 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>

RILEM Worldwide

+3115 members
+118 Corporates
110 countries



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

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



Material Processing and Characterization

Daman PANESAR, Canada



Transport and Deterioration Mechanisms

Josee DUCHESNE, Canada



Structural Performance and Design

Kei-ichi IMAMOTO, Japan



Service Life and Environmental Impact Assessment

Anya VOLLPRACHT, Germany



Masonry, Timber and Cultural Heritage

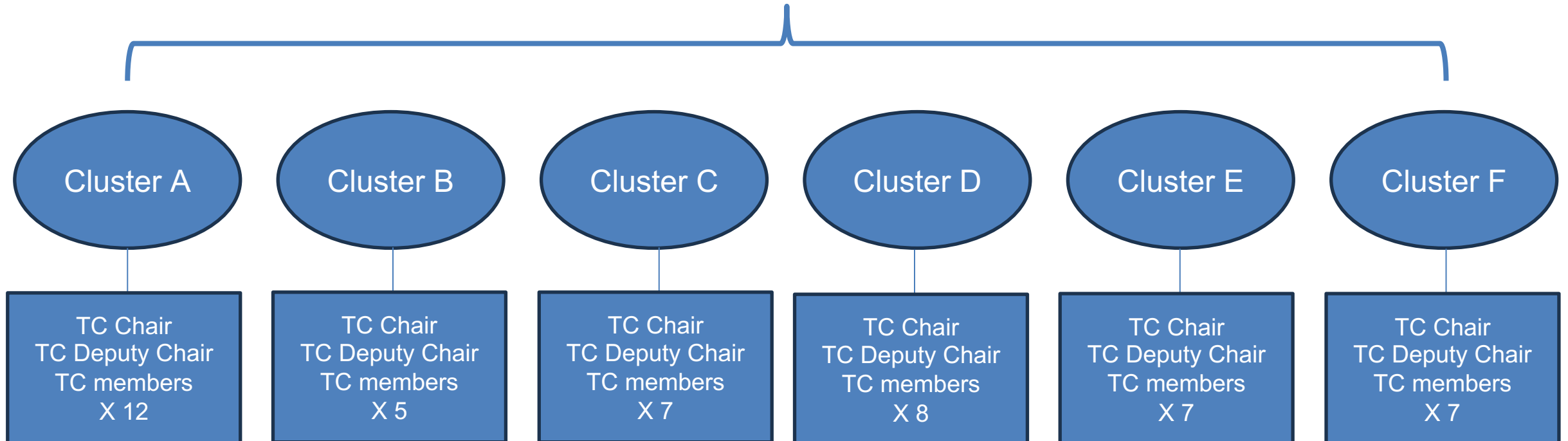
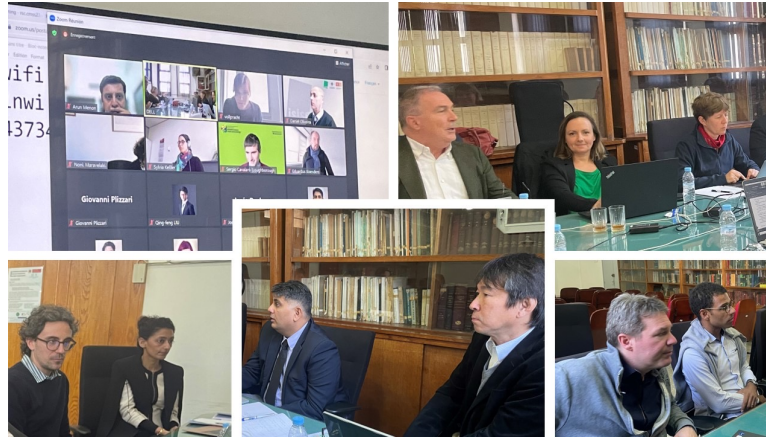
Arun MENON, India



Bituminous Materials and Polymers

Eshan DAVE, USA

Technical Activities Committee
TAC Chair: *Enrico SASSONI*



RILEM Technical Committees

Cluster A: Material Processing and Characterization

- 282-CCL : Calcined Clays as Supplementary Cementitious Materials
- 284-CEC : Controlled expansion of concrete by adding MgO-based expansive agents taking the combined
- 291-AMC : Use of Agro-Based Materials as Cementitious Additions in Concrete and Cement-Based Material
- 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
- ACP : Active Control of Properties of Fresh and Hardening Cementitious Materials

Cluster B: Transport and Deterioration Mechanisms

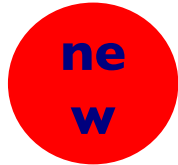
- [285-TMS: Test method for concrete durability under combined role of sulphate and chloride ions](#)
- [286-GDP: Test Methods for Gas Diffusion in Porous Media](#)
- [297-DOC : Degradation of organic coating materials and its relation to concrete durability](#)
- [298-EBD : Test methods to evaluate durability of blended cement pastes against deleterious ions](#)
- [313-MMS : Modelling and experimental validation of moisture state in bulk cementitious materials](#)

Cluster C: Structural Performance and Design

- [287-CCS : Early age and long-term crack width analysis in RC Structures](#)
- [288-IEC: Impact and Explosion](#)
- [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](#)
- [RCC : Rolled compacted concrete for pavement applications](#)

Cluster D: Service Life and Environmental Impact Assessment

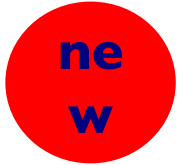
- [289-DCM : Long-term durability of structural concretes in marine exposure conditions](#)
- [299-TES : Thermal energy storage in cementitious composites](#)
- [300-ARM : Alkali-aggregate reaction mitigation](#)
- [301-ASR : Risk assessment of concrete mixture designs with alkali-silica reactive \(ASR\) aggregates](#)
- [315-DCS : Data-driven concrete science](#)
- [CUC : Carbon dioxide uptake by concrete during and after service life](#)
- [SDM : Scientific Metadata Management of Construction materials](#)
- [UMW : Upcycling Powder Mineral “Wastes” into Cement Matrices](#)



new

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](#)
- [BEC : Bio-stabilised earth-based construction: performance-approach for better resilience](#)
- [CTM : Testing Methods For Masonry Cores](#)
- [MAE : Mechanical performance and durability assessment of earthen elements and structures](#)
- [MCB : Mechanical Characterisation of Bamboo](#)
- [PEM : Processing of earth-based materials](#)



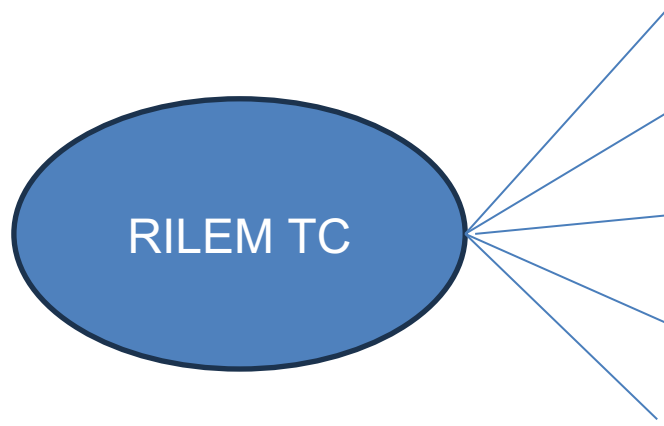
new

Cluster F: Bituminous Materials and Polymers

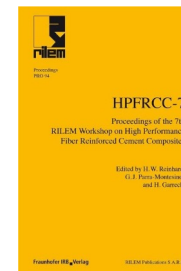
- 280-CBE : Multiphase characterisation of cold bitumen emulsion materials
- 295-FBB : Fingerprinting bituminous binders using physico-chemical analysis
- 307-PPB : Physicochemical Effects of Polymers in Bitumen
- 308-PAR : Performance-based Asphalt Recycling
- 316-FEE : Fume Emissions Evaluation for Asphalt Materials
- APD : Alternative Paving Materials - Design and Performance
- APS : Alternative Paving Materials - Sustainability

RILEM Publications

Dissemination of information worldwide



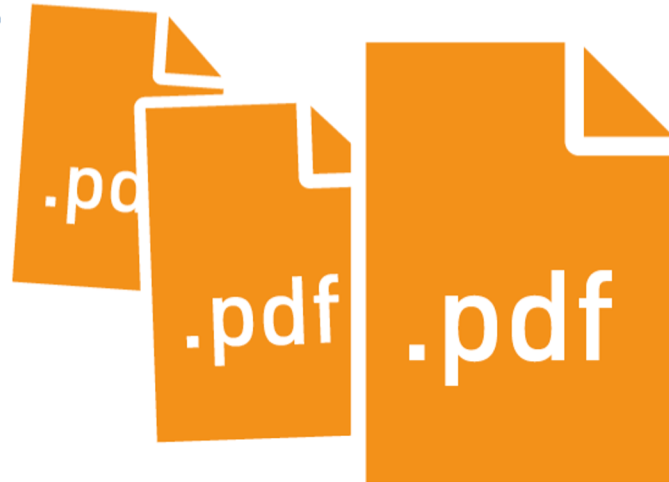
- Recommendation (OA paper in MAAS)
- Proceedings (Springer or RILEM Publications)
- TC report as Paper in Topical Collection of MAAS
- TC opening or finalising activities paper in RTL
- STAR state-of-the-art report, book published by Springer



RILEM Publications



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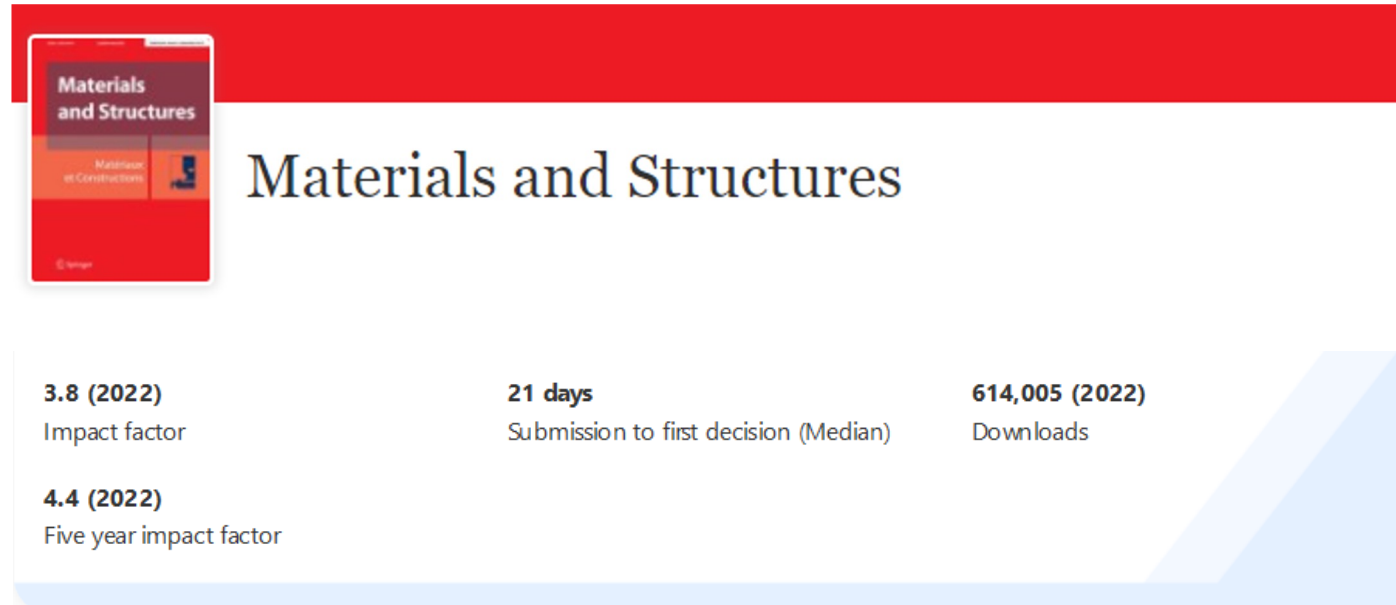
RILEM Publications

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 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.

RILEM Flagship, created in 1968



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.

RILEM OPEN ACCESS JOURNAL

The logo for RILEM technical letters, featuring the word "RILEM" in a large, white, sans-serif font, with the words "technical letters" in a smaller, white, sans-serif font directly below it. The logo is set against a dark blue rectangular background.

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



RILEM Events

Future RILEM Annual Weeks and Spring Conventions

RILEM Annual Weeks

- August 25th to August 30th, 2024 - [78th Annual Week](#), Toulouse, France, Prof. Alexandra Bertron
- August 25th to August 29th, 2025 - [79th Annual Week](#), Hanoi, Vietnam, Prof. Tuan Nguyen Vanand
- 2026 - 80th Annual Week, Nairobi, Kenya, Dr Wolfram Schmidt

RILEM Spring Conventions

- March 23th to March 28th, 2025 - [Mendrisio](#), Switzerland, Dr Paglia Christian
- April 13th to April 17th 2026 - [Ghent](#), Belgium, Prof. Nele De Belie



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.



+140

Sponsored doctoral courses since 2010.



207

Participants of doctoral courses benefit from a 3-year free membership in 2022.



11

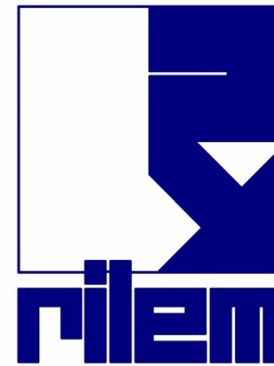
Recurring course series

RILEM EAC Webinars

NEW

- **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 ZOOM

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

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RILEM Association

2.51K subscribers

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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.

RILEM organisation

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 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](#) or the [Dec 2021 press release](#).



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

Contact us

Secretariat General

RILEM

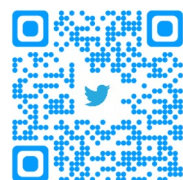
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Management Assistant

Ms. Aurelie MARTINGALE



Head of Publications and Communication

Ms. Anne GRIFFOIN



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