



# ANNUAL REPORT 2018



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



# About RILEM

The International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM, from the name in French) was founded in June 1947 in Paris, France, with the aim to promote scientific cooperation and to stimulate new directions for research and applications, thus promoting excellence in construction worldwide.

This mission is achieved through collaboration of leading experts in construction science and practice, including academics, researchers, industrialists, testing laboratories, and authorities.

## Become a member

If you are interested in joining RILEM, please consult our website [www.rilem.net](http://www.rilem.net) and become a member.

Membership benefits include:

- Participation in RILEM Technical Committees
- Access to the private Web directories restricted to RILEM Members and Online version of the RILEM Directory of Members,
- Personal access after login online to the journal Materials and Structures, RILEM Proceedings and Springer/ Nature proceedings
- Reduced fees for RILEM events
- 30% discount on printed RILEM publications
- 20% discount on all Springer / Nature e-books
- Opportunity to publish selected articles as free OA paper in Materials & Structures and in RILEM Technical Letters

At the General Council in August 2018, it was decided to lower the 2019 fees for younger members. Thus for 2019, the Student Member fee went from 75 to 25 euros and the Affiliate Member fee from 326 to 100 euros. The other fees have been rounded down.

Individual fees in 2019 \_\_\_\_\_

Student Member: 25 euros

Affiliate Member: 100 euros

Senior Member: 375 euros

Retired Member: 75 euros

Corporate fees in 2019 \_\_\_\_\_

Institutional Member: 2205 euros

Industrial Member: 4050 euros

Associate Member: 1165 euros

Note that special discounts of 40% up to 60% on the membership fees apply depending on your country of residence. Please consult the website [membership.rilem.net](http://membership.rilem.net) for all details.

# Editorial

## by RILEM Presidency

As we bring out the RILEM Annual Report, for the third time, we are glad that this is now a regular feature of our planning and reporting. 2018 has indeed been an important year, in many ways, for RILEM. We had the first RILEM Annual Convention in Barcelona, during 19<sup>th</sup>-21<sup>st</sup> March 2018, with a workshop and meetings hosted excellently by the Universitat Politècnica de Catalunya. This proved to be a talisman as we have since received many offers to host such Conventions in the future. An important highlight of the Conventions are the lectures of the Gustavo Colonnetti Medalists, and in 2018, we recognized Sergio Cavalaro and Didier Snoek for the impressive work done during their young careers.

Significant decisions were also taken at the March meetings including the opening of a short-term position of RILEM Implementation Manager (RIM), who is expected to increase the outreach and promote RILEM among potential members and beneficiaries. Encouraged by the increase in membership in several parts of the World and the growing interest in participating in our events, we plan to engage the RIM in activities related to young members, industry and countries where the RILEM footprint could be larger.

The 72<sup>nd</sup> RILEM Week in Delft, hosted by the Honorary President Erik Schlangen in unique settings, was a huge success with well-attended doctoral courses and conferences. It was also the occasion for many RILEM batons to change hands. Ravindra and Nicolas took over as President and Vice-president, respectively, while Johan stepped into the shoes of Mark as Past-president. We welcomed Nele de Belie as the new Chairperson of the Technical Activities Committee and Alexandra Bertron as the new Editor-in-Chief of RILEM Technical Letters, along with customary membership changes in the standing committees.

A remarkable first at Delft was the RILEM-funded invitation of young researchers from different parts of the World to participate at the conferences. The significance of this action was evident from the moment we had breakfast with 14 brilliant doctoral researchers on the first day of the RILEM Week. They were absolutely thrilled to be there and keen on the making the most of every minute and every chat they could have with a senior researcher. One of them, Alice Titus Bakera, went on to win the 2018 Best Student Poster Award. We thank Erik for facilitating the invitations to these youngsters, who would have missed the lovely opportunity if their travel and expenses had not been funded by RILEM. This is certainly something that we would like to repeat and improve on, at all future RILEM Weeks.

The breadth of RILEM as an association of researchers engaged in a wide range of construction materials was manifested by the recognition of Fernando Moreno-Navarro, from the University of Granada, Spain, as the 2018 Robert L'Hermite Medalist for his work on asphalt. Coincidentally, we are celebrating 50 years of the presence of the asphalt community in RILEM. We look forward to all our members who work on asphalt and other construction materials playing important roles in RILEM and its technical activities in the future as well.

At the General Council in Delft, a decision was made to decrease the membership fees, this time for young members, to encourage more participation from younger researchers as well as those from emerging economies. Our membership is steadily increasing, with many of the 1450+ members active in the 40+ technical committees, organizing our events, and writing reports and recommendations. More news and highlights of the year can be seen as you browse through this report or visit our website.

With every renewal, there is someone who steps back from the forefront. Mark Alexander has been at the helm of RILEM for a decade and some more. His wise counsel and calm leadership have guided RILEM well toward making it a healthier and more impactful organization. We will not miss him yet since he is now busy editing a book to be brought out for the 75<sup>th</sup> Anniversary of RILEM. He is looking for memorabilia in the form of old photographs, news and yesteryears' highlights to include in this volume. He would certainly appreciate getting help and input from all RILEM members.

Someone else who has been very crucial during the recent history, as well the developments of the present in RILEM, is Pascale Ducornet, our dedicated and zealous Secretary General. She has been the rock that held the organization steady in difficult times, as well as providing the strength that led to many bold changes. Pascale will retire towards the end of 2019 after about 25 years of service, and needless to say, this will leave a large void in the organization. Yet another reason to come to our second Convention in Rovinj in March 2019 would be to say goodbye to Pascale and wish her well.

Looking forward to meeting RILEM members and other friends in Rovinj and the 2019 General Council Nanjing, and at other RILEM events during the coming year.

### **Ravindra, Nicolas and Johan**



**Ravindra Gettu, Johan Vyncke, Mark Alexander, Nicolas Roussel.**  
Credits Radhakrishna G Pillai

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# 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

## WEBSITE



**60 232**  
viewers



**282 446**  
page views

### Top 3 countries

-  USA
-  India
-  France

## facebook

 **752**  
followers

### Top 3 countries

-  India
-  Brazil
-  USA

## LinkedIn

 **1 029**  
followers

### Top 3 countries

-  France
-  Netherlands
-  Switzerland

## YouTube

 **185**  
subscribers

### Top 3 countries

-  Thailand
-  France
-  India

# Short report of the 72<sup>nd</sup> RILEM Annual Week in Delft, The Netherlands



Klaas Van Bruegel.  
Credits TU Delft

The 72<sup>nd</sup> RILEM Annual Week was organised by Delft University of Technology in Delft, The Netherlands. The RILEM week had many activities, the SLD4 conference on service life design of structures, the Conmod2018 Symposium on concrete modelling, a special workshop for Klaas van Bruegel, 3 PhD-courses on concrete modelling, microscopy and corrosion and there were meetings of the standing committees of RILEM and 11 Technical Committees planned their meeting in Delft. In total 394 participants from 42 countries took part in all the events.

The conference (co-organised with Tongji University), the symposium (co-organised with Ghent University) and the workshop were running in parallel and the participants could choose which presentations they wanted to follow. The 7 keynote lectures were organised as plenary talks as well as the Robert L'Hermite medalist lecture of 2018 given by Fernando Moreno on "Designing more durable asphalt materials".

City Hall Delft.  
Credits TU Delft



Also this year a poster session was organised in which PhD-students could present their recent findings on a poster and discuss this with the participants. 28 posters were on display during the 3 days in the area where lunches and coffee breaks took place. The jury awarded the best student poster award to Ms. Alice Titus Bakera, PhD-student at University of Cape Town.

New this year were the RILEM travel grants that RILEM offered to 14 young (under 35) researchers from developing countries. The winners of the grant, which covered travel, registration and lodging, were selected by a jury that carefully looked to the relevance of the topic of their work and their motivation to participate in the RILEM events. One of the highlights was also a breakfast with the RILEM presidency and the travel grant winners which resulted in fruitful brainstorm session for new directions and initiatives for RILEM.

In the week before the RILEM week, 3 PhD courses were organised with in total 55 participants. The courses on multiscale modelling of concrete, concrete microscopy and corrosion all three have a similar format with theoretical lectures in the morning and hands on session, using computer modelling, microscopes and lab measurements in the afternoon. The PhD courses are not only given during the RILEM week, but can be followed every year at Delft University.

The RILEM week was organised at a special but a bit uncommon location for a conference. An old glue and gelatine factory in Delft was chosen for the event. The atmosphere at this place with ageing structures of concrete and steel was such that it led to very inspiring discussions on the topics that RILEM is dealing with. During the conference a reception at the old town hall in the centre of Delft was organised as well as a conference dinner in "the Prinsenhof", another old beauty in Delft.



Jason Weiss.  
Credits TU Delft



Ueli Angst  
& Erik Schlangen.  
Credits TU Delft

Group photo.  
Credits TU Delft



Conference  
dinner.  
Credits TU Delft



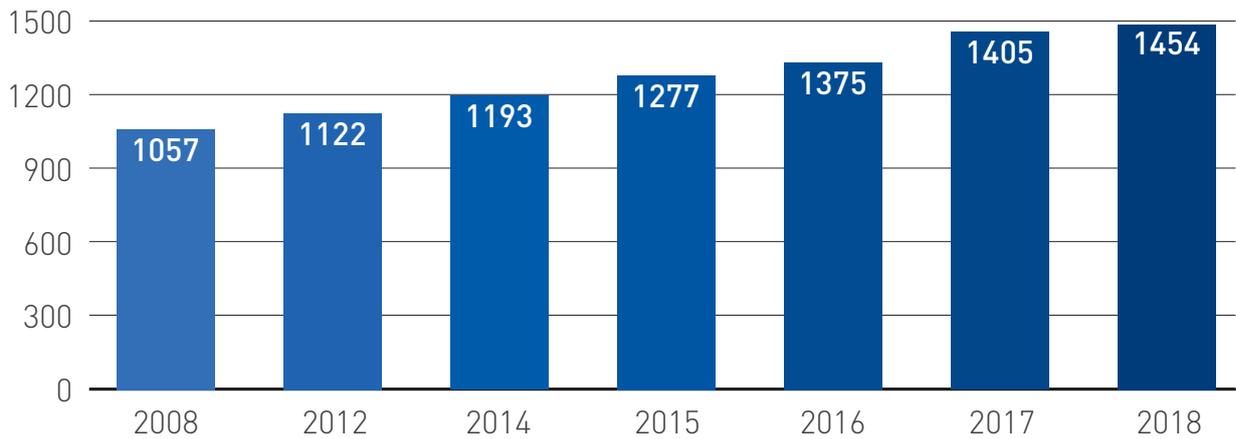
PhD students invited  
in Delft by RILEM.  
Credits Vyatcheslav Falikman



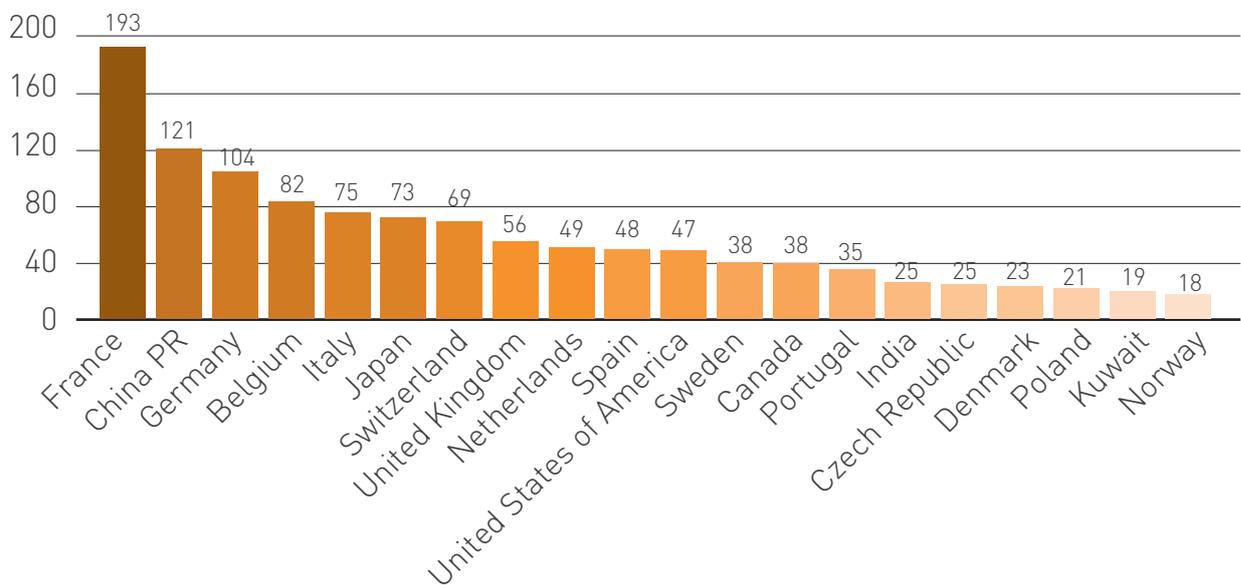
# RILEM Membership

Since 2008, RILEM has seen a steady growth in total number of members (individual and corporate), climbing from 1057 in 2008 to 1454 in 2018.

Total number of RILEM members (individual and corporate)



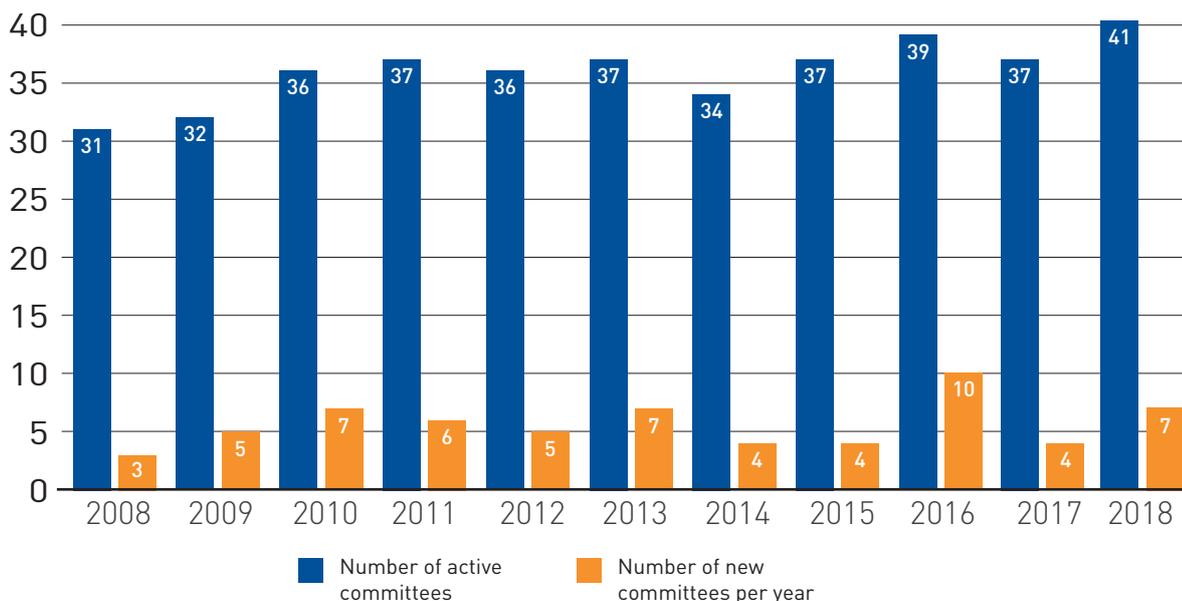
Countries TOP-20 in 2018 (based on total #individual membership)



# Technical Committees

Within RILEM, Technical Committees are the heart of the organisation, and the backbone of action. They are highly dynamic and have a limited functioning life of five to seven years. Every year, several technical committees are closed after successfully reaching their goals, and new TCs are initiated. During the last decade, the number of active Technical Committees fluctuated around 35, and in 2018 this number reached 41 active committees.

## Technical committees



Every year, four to five new technical committees are created. The full list of active TCs and details about their work can be consulted at [tc.rilem.net](http://tc.rilem.net)

The following seven new committees were approved in 2018:

Cluster A. Material Processing and Characterization (Convener: Barzin Mobasher)

- TC AMC - Use of Agro-Based Materials as Cementitious Additions in Concrete and Cement-Based Materials, chaired by Said Kenai
- TC CEC - Controlled expansion of concrete by adding MgO-based expansive agents taking the combined influence of composition and size of concrete elements into consideration, chaired by Jiaping Liu
- TC CCL - Calcined Clays as Supplementary Cementitious Materials, chaired by Jose Fernando Martirena-Hernandez

Cluster B. Transport and Deterioration Mechanisms (Convener: Esperanza Menendez Mendez)

- TC CAM - Chloride transport in alkali-activated materials, chaired by Arnaud Castel
- TC FTC - Durability of Concrete under the Influence of Freeze-Thaw Cycles combined with Chloride Penetration, chaired by Folker Wittmann
- TC TMS - Test method for concrete durability under combined role of sulphate and chloride ions, chaired by Changwen Miao

Cluster C. Structural Performance and Design (Convener: Giovanni Plizzari)

- TC IEC - Impact and Explosion, chaired by Marco Di Prisco

The following Technical Committees have successfully terminated their mission by publishing recommendations:

- 246-TDC: Test methods to determine durability of concrete under combined environmental actions and mechanical load chaired by Yan Yao
  - ▾ Recommendation on test methods to determine durability of concrete under combined environmental actions and mechanical load, published in 2017
- 252-CMB: Chemo-Mechanical Characterization of Bituminous Materials chaired by Nicole Kringos
  - ▾ Recommendations to be published in 2019
- 265-TDK: Testing methods for determination of double-K criterion for crack propagation in concrete chaired by Shilang Xu



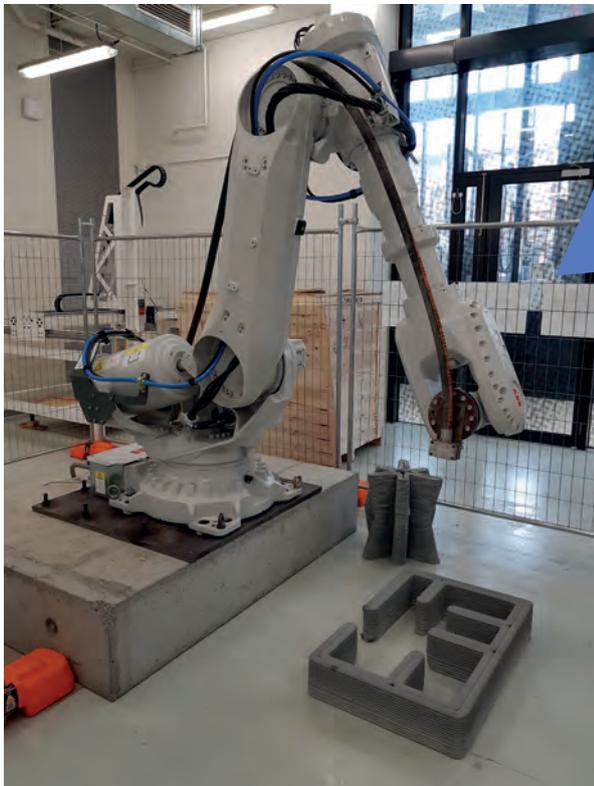
One of extremely damaged reinforced concrete buildings in Hashima Island which was registered on the UNESCO World Heritage List. Methods for repair and strengthening to conserve them as they are are being investigated. Credits Takafumi Noguchi

View of the buildings in Hajima Island. Credits Takafumi Noguchi



Migné limestone samples containing 1 wt.% of sodium sulfate: resulting damage after re-wetting with pure water. Credits Cristiana Nunes (TC 271-ASC)

Meeting of TC 281-CCC Carbonation of concrete with supplementary cementitious materials in Delft, The Netherlands. Credits TU Delft



3D Concrete Printing Laboratory at Swinburne University of Technology, Melbourne, Australia. Credits Jay Sanjayan

UGR-FACT device developed at the University of Granada to evaluate the mechanical performance of asphalt materials. Credits Fernando Moreno

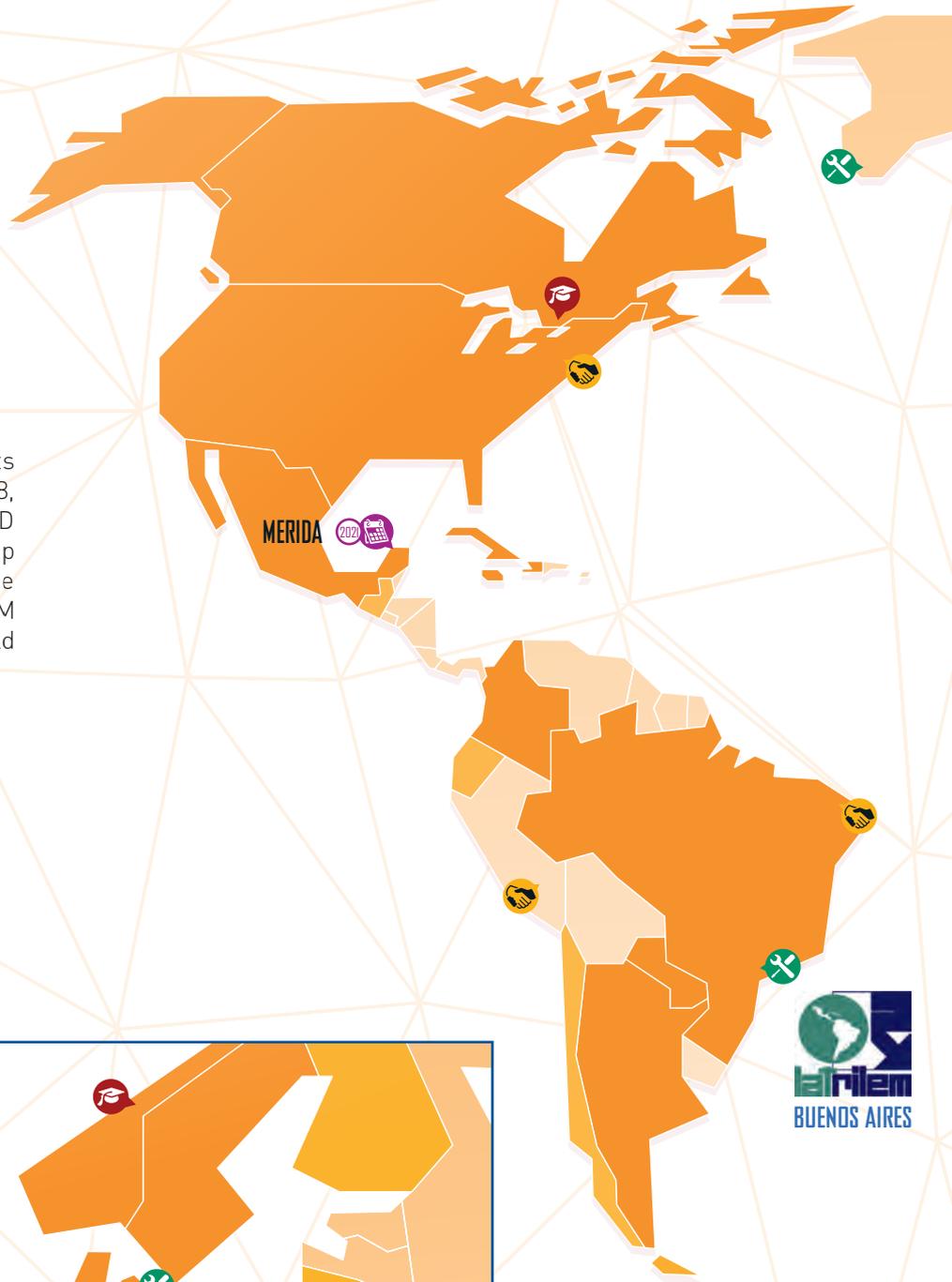


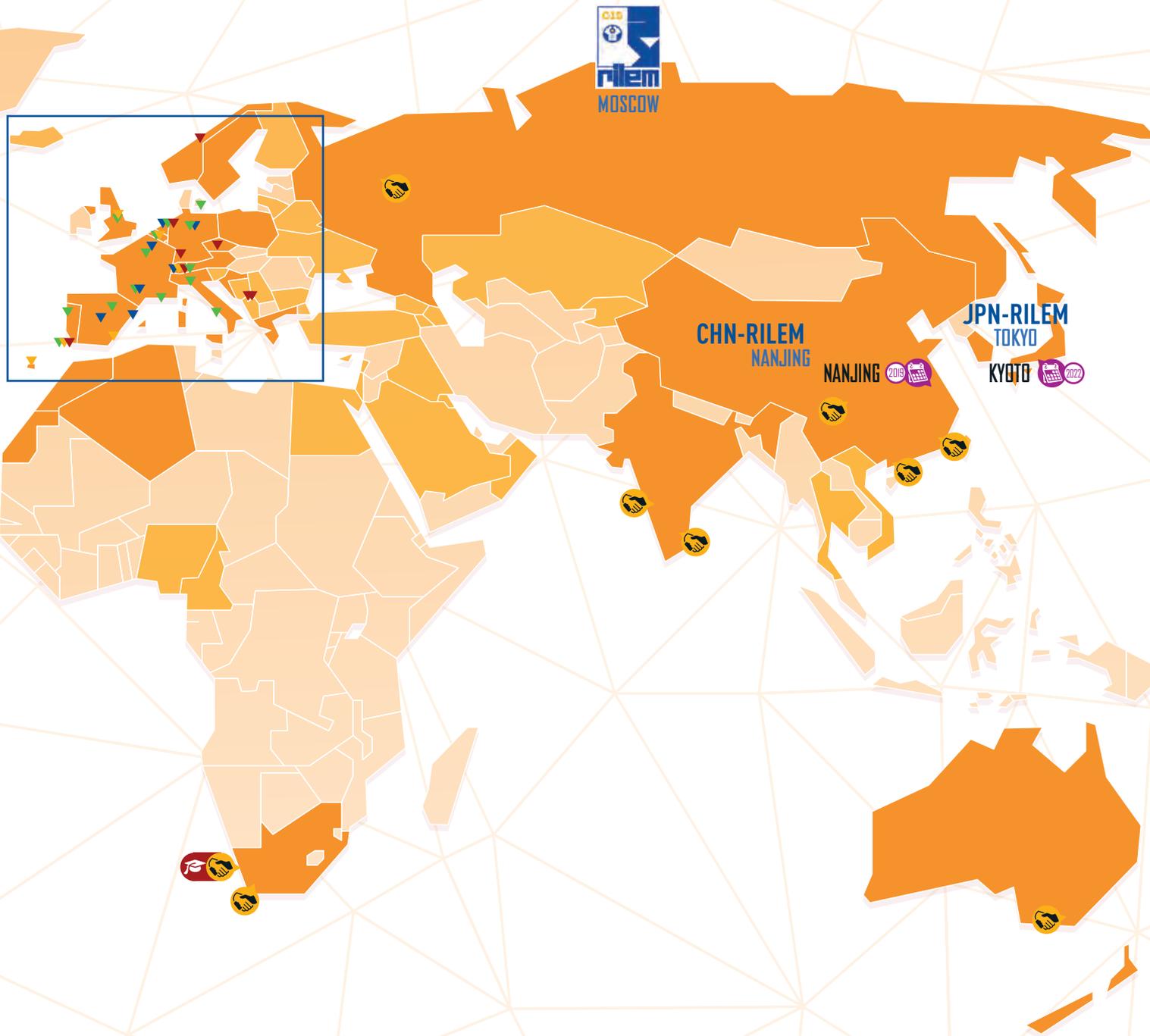
Round Robin Test – TC 266-MRP: Measuring Rheological Properties of Cement-based Materials (Chair: Mohammed Sonebi, Deputy Chair: Dimitri Feys) - University d'Artois, IUT Bethune, France on 28-30 May 2018. Credits TC 266-MRP



# Technical and Educational Events

Many technical and educational events were again organized worldwide in 2018, including conferences, workshops, PhD courses, and the like. The following map shows the geographical spread of the activities. It can be concluded that RILEM is reaching out to all corners of the world bringing together many people!





# RILEM events 2018

-  Co-sponsored event
-  Educational activity
-  RILEM event
-  Technical Committee meeting
-  Spring Convention
-  RILEM Annual Week

Several new PhD courses were approved and completed in 2018. These included:

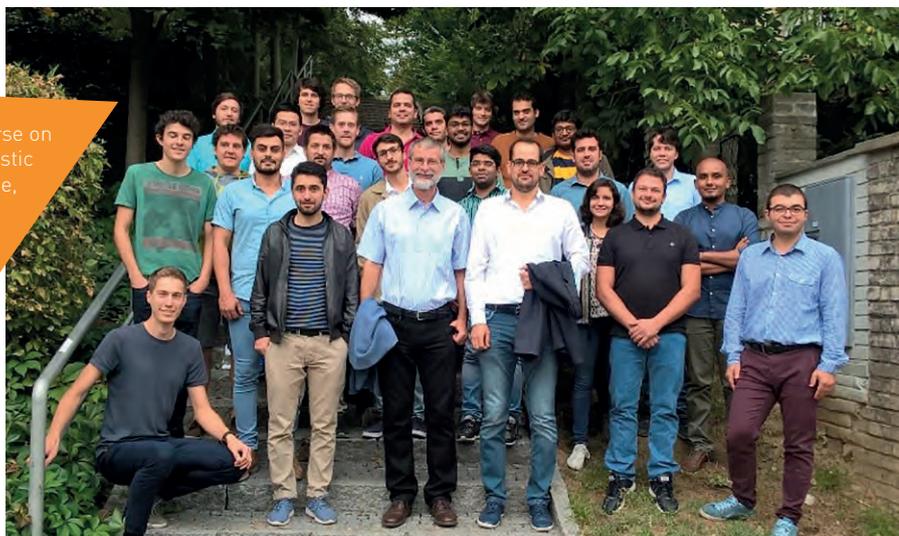
Title	Location	2018 Dates	Contact
Self Healing Concrete	Lisbon, PT	Jan. 23-25	Mercedes Sanchez
Hydration and microstructure characterization of cementitious materials	Trondheim, NO	June 11-15	Klaartje De Weerd
Advanced Materials and Technologies for Inorganic Binders	Skopje & Ohrid, Macedonia	Sept. 2-7	Ole Jensen
Repair and Rehabilitation of Concrete Structures	Cape Town, ZA	Nov. 12-16	Hans Beushausen

In addition, several PhD Course Series continued in 2018, including three associated with the 72<sup>nd</sup> RILEM week in Delft. These included:

Title	Location	2018 Dates	Contact
Characterisation methods of blended cements	Lausanne, CH	April 3-6	Karen Scrivener
Corrosion Science and Corrosion Control for Infrastructure, CSC2i	Delft, NL	April 16-20 & Aug. 21-24	D. Koleva, R. Polder
Computational Methods for Building Physics and Construction Materials	Darmstadt, Germany	April 16-20	Eduardus Koenders
Chemistry of cement and concrete	Toronto, CA	May 14-18	Doug Hooton
Multi Scale modeling of Concrete, MMC	Delft, NL	Aug. 21-24	Eduardus Koenders
Concrete Microscopy Course, CMC	Delft, NL	Aug. 21-24	Oguzhan Copuroglu
Modeling of Localized Inelastic Deformation	Prague, CZ	Sept. 3-7	Milan Jirasek

In 2019, five EAC-sponsored courses will be run August 21-25, 2019, the week prior to the 73<sup>rd</sup> RILEM Annual week in Nanjing on topics including: Workability and Admixtures; Hydration and Microstructure; Shrinkage, Expansion and cracking; Durability; Modelling and Simulation; and Supplementary Cementitious Materials. In addition there will be a one-day course offered by Karen Scrivener that will target industry professionals---this type of professional course is a new area being considered for EAC sponsorship.

Attendees at the course on Modeling of Localized Inelastic Deformation held in Prague, Sept. 2018. Credits Czech Technical University



CSC2I Course during the RILEM Annual Week. Credits TU Delft



Sixth International Conference on Durability of Concrete Structures (ICDCS2018) in Leeds, UK. Credits Mark Bickerdike



Participants, teachers and organizational team of the SARCOS COST-RILEM Doctoral Course. Credits Igor Dimovski, METEOR Digital Skopje



# Publications

Of utmost importance for RILEM is the dissemination of information. This is facilitated through different channels such as the flagship publication of RILEM, the journal "Materials and Structures", the Open Access journal "RILEM Technical Letters", conference proceedings, STAR reports, technical reports, and RILEM Recommendations.

## Materials and Structures

### 50 Years of Materials and Structures

In 2018, Materials and Structures, the flagship journal of RILEM, celebrated its 50<sup>th</sup> anniversary. During these years, the journal has been among the leading platforms for exchange of new findings and ideas in the field of construction materials and structures, providing the highest review and publishing standards. To honor the anniversary, a topical issue was published, with 16 invited papers from the most renowned experts in the field of building materials and structures and, not surprisingly, the most active RILEM members.

### Editorial board

In 2018, Prof. Nele De Belie replaced Prof. Nicolas Roussel as TAC chair and also as Deputy Editor in Chief. In this role, Prof. De Belie will take care mainly of the increasing number of submissions originating from RILEM Technical Committees. We thank Prof. Nicolas Roussel for his outstanding role in the development of the journal and we wish him all the best as Vice President.

After 5 years in her capacity of Associate Editor, Prof. Terhi Pellinen decided to step down. We thank Prof. Pellinen for her dedicated service in these last years.

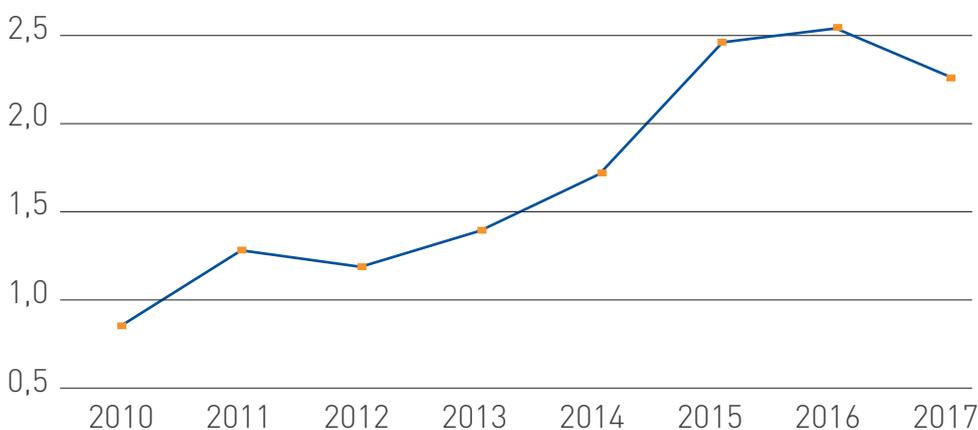
New Associate Editors were also appointed in 2018: Prof. Viktor Mechtcherine (TU Dresden, Germany), Prof. Karin Lundgren (TU Chalmers, Sweden), Dr Arnaud Perrot (Université Bretagne Sud, France) and Prof. Burkan Isgor (Oregon State University, USA).

### Faster editorial process and publication

Since the introduction of the Continuous Article Publication (CAP) scheme in August 2016, the average time to publication has been decreasing. Articles appear online in final form on average in only 9 days after acceptance (and often in less than a week).

In addition to the faster publishing process brought about by CAP, the Editorial Board, technical staff and our volunteer reviewers make every effort to ensure a rapid and competent review process. Thanks to these efforts, the time to decision of newly submitted articles was also substantially reduced in 2018: the average time to final decision was below 5 months for accepted papers and about 3 weeks for rejected papers. Currently (January 2019), no pending papers are older than 8 months.

### Impact Factor Materials and Structures



## Published articles and impact of the journal

The increase in number of submissions observed since several years has started to flatten out. In the year 2018, the total number of submissions was about 1600, only slightly more than in 2017. With this high number of submissions, the high standards regarding scientific quality, novelty and originality of the journal are strictly maintained. In fact, the acceptance rate decreased from 0.18 for papers submitted in 2015 to slightly above 0.10 for those submitted in 2017; a final rate of about 0.10 is also expected for the papers submitted in 2018, once all of them are processed.

In Vol. 51 (2018), 173 articles were published. As expected, a decrease of the impact factor was observed: IF 2017 was 2.271 compared to IF 2016 of 2.607 and IF 2015 of 2.453. This occurred despite the steadily increasing number of citations (about 1500 citations for the IF 2017, compared to about 1100 in 2016 and 700 in 2015). The reason for the decrement in the impact factor was the peak in the number of published papers in the previous years (381 in 2016 and 288 in 2015, compared to 150 in 2014) caused by cleaning of the backlog. The stable, lower number of published papers planned in the next years is expected to result in an increase of IF (first projections are for IF 2018→2.5).

## Platform for dissemination of the RILEM TCs work

In addition to publishing regular research papers, Materials and Structures serves as an important platform for dissemination of the outcomes of RILEM Technical Committees. The year 2018 was especially productive in this regard, with six articles stemming from RILEM TCs (TC 238-SCM, TC 260-RSC, TC 271-ASC, TC 267-TRM and two articles from TC 252-CMB) and nine official Recommendations (TC 241-MCD, TC 250-CSM, two from TC 260-RSC, two from TC 238-SCM, and three from TC 237-SIB).

## Outstanding Papers and Best Reviewer Awards

Similarly as in the previous years, the Editorial Board awarded the authors of the most scientifically interesting and novel papers with the Outstanding Paper Award for the best papers published in 2018.

Another important RILEM Award related to the journal is the Best Reviewer Award granted annually by the Editorial Board to our best volunteer reviewers, which guarantee the high scientific quality of the published articles and a fast review process. In year 2018, 7 reviewers were granted the Best Reviewer 2017 Award.

## List of the Outstanding Papers 2018

- Bruno, A.W., Perlot, C., Mendes, J. et al. A microstructural insight into the hygro-mechanical behaviour of a stabilised hypercompacted earth. *Mater Struct* (2018) 51: 32.
- Pel, L., Pishkari, R. & Casti, M. A simplified model for the combined wicking and evaporation of a NaCl solution in limestone. *Mater Struct* (2018) 51: 66.
- Oesch, T., Landis, E. & Kuchma, D. A methodology for quantifying the impact of casting procedure on anisotropy in fiber-reinforced concrete using X-ray CT. *Mater Struct* (2018) 51: 73.
- Heek, P., Tkocz, J. & Mark, P. A thermo-mechanical model for SFRC beams or slabs at elevated temperatures. *Mater Struct* (2018) 51: 87.
- Chen, J., Yang, C. & Guo, Q. Evaluation of surface cracks of bending concrete using a fully non-contact air-coupled nonlinear ultrasonic technique. *Mater Struct* (2018) 51: 104.
- Zhang, S., Richart, N. & Beyer, K. Numerical evaluation of test setups for determining the shear strength of masonry. *Mater Struct* (2018) 51: 110.
- Xu, L., Wong, H., Fabbri, A. et al. Modelling the poroplastic damageable behaviour of earthen materials. *Mater Struct* (2018) 51: 112.
- Bui, P.T., Ogawa, Y. & Kawai, K. Long-term pozzolanic reaction of fly ash in hardened cement-based paste internally activated by natural injection of saturated  $\text{Ca}(\text{OH})_2$  solution. *Mater Struct* (2018) 51: 144.
- Mignini, C., Cardone, F. & Graziani, A. Experimental study of bitumen emulsion-cement mortars: mechanical behaviour and relation to mixtures. *Mater Struct* (2018) 51: 149.
- Rasoolnejad, M., Rahimi-Aghdam, S. & Bažant, Z.P. Statistical filtering of useful concrete creep data from imperfect laboratory tests. *Mater Struct* (2018) 51: 153.

## Materials and Structures Best Reviewers 2017

- Gian Piero Lignola, Università degli Studi di Napoli Federico II, Italy
- Andreas Leemann, Empa, Switzerland
- Kendra A. Erk, Purdue University, USA
- Christopher Hall, University of Edinburgh, United Kingdom
- Maria Adelaide Parisi, Politecnico di Milano
- Rob B. Polder, TU Delft, The Netherlands
- Haoliang Huang, South China University of Technology, China

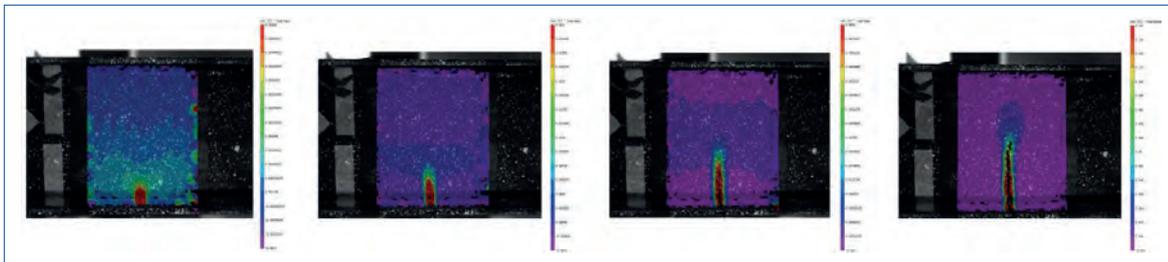
## RILEM Technical Letters

RILEM Technical Letters, launched in March 2016, continued in 2018 with its third volume to publish breakthrough current research topics authored by acknowledged experts from the RILEM community. Since its start, RILEM Technical Letters has published all articles in full open access. The open access policy together with the most valuable contributions by RILEM authors results in the high impact of the journal, manifested already at this early stage in high number of downloads and citations. The articles from 2016 and 2017 have each been downloaded more than 700 times on average, and, in the year 2018, cited 2.3 times on average by journals indexed in the Web of Science (5.3 times considering all citing sources).

We also proudly inform that this year RILEM Technical Letters was accepted to the Directory of Open Access Journals (DOAJ), <https://doaj.org/>. DOAJ is a community-curated online directory that indexes high quality, open access, peer-reviewed journals. With this achievement, RILEM proves the high quality and credibility of the journal and delivers to the authors and readers better visibility of the published papers thanks to adding them to the DOAJ database.

In the coming year, we count on further interesting submissions in the form of short (5-6 pages) letters. Interested authors are welcome to submit the proposed topics to the editor in chief, Prof. Nicolas Rousset, or to the members of the editorial board.

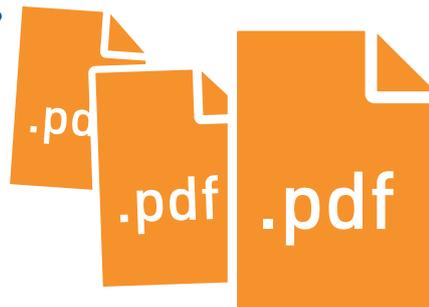
Please visit the journal at: [letters.rilem.net](https://letters.rilem.net).



Fatigue crack propagation in an I-section steel beam. The figures are detected by the Digital Image Correlation. It provides important information for the understanding of the crack growth versus loading cycles.  
Credits Qian-Qian Yu, Tongji University



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



## Proceedings, STARS & Recommendations

Besides the two journals, RILEM also publishes proceedings, state-of-the-art reports (STAR), and recommendations. 2018 has been a successful year in this respect, with 13 proceedings, 6 STARS, and 9 Recommendations.

### Proceedings published in 2018

#### Published by RILEM Publications:

- PRO 119: ICBBM 2017 - Second International RILEM Conference on Bio-based Building Materials, (2017); Eds. Sofiane Amziane, Mohammed Sonebi, Karine Charlet
- PRO 121: SynerCrete18: Interdisciplinary Approaches for Cement-based Materials and Structural Concrete: Synergizing Expertise and Bridging Scales of Space and Time, (2018); Ed. Miguel Azenha, Dirk Schlicke, Farid Benboudjema, Agnieszka Knoppik
- PRO 122: SCC'2018 China - Fourth International Symposium on Design, Performance and Use of Self-Consolidating Concrete, (2018); Eds. C. Shi, Z. Zhang, K. H. Khayat
- PRO 123: Final Conference of RILEM TC 253-MCI: Microorganisms-Cementitious Materials Interactions (2018); Eds. Alexandra Bertron, Henk Jonkers
- PRO 124: Fourth International Conference Progress of Recycling in the Built Environment (2018); Eds. Isabel M. Martins, Carina Ulsen, Yury Villagran
- PRO 125: SLD4 - 4<sup>th</sup> International Conference on Service Life Design for Infrastructures (2018); Eds. Guang Ye, Yong Yuan, Claudia Romero Rodriguez, Hongzhi Zhang, Branko Savija
- PRO 126: Workshop on Concrete Modelling and Material Behaviour in honour of Professor Klaas van Breugel (2018); Ed. Guang Ye
- PRO 127: CONMOD2018 - Symposium on Concrete Modelling (2018); Eds. Erik Schlangen, Geert de Schutter, Branko Savija, Hongzhi Zhang, Claudia Romero Rodriguez
- PRO 129: 2<sup>nd</sup> International Conference on UHPC Materials and Structures (UHPC2018-China); Eds. Caijun Shi and Baochun Chen

#### Published by Springer:

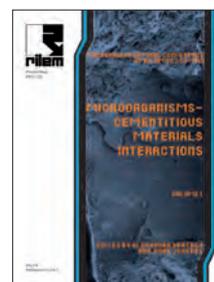
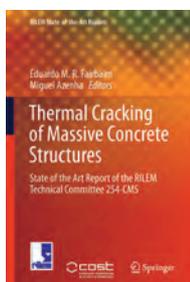
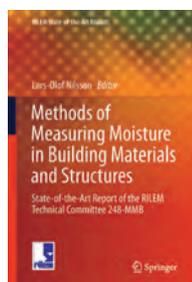
- Service Life and Durability of Reinforced Concrete Structures - Selected Papers of the 8<sup>th</sup> International RILEM PhD Workshop held in Marne-la-Vallée, France, September 26-27, 2016, Vol. 17; Eds. Carmen Andrade, Joost Gulikers, Elisabeth Marie-Victoire
- Structural Analysis of Historical Constructions - An Interdisciplinary Approach, Vol. 18; Eds. Rafael Aguilar, Daniel Torrealva, Susana Moreira, Miguel A. Pando, Luis F. Ramos
- First RILEM International Conference on Concrete and Digital Fabrication - Digital Concrete 2018, Vol. 19; Eds. Robert J. Flatt, Timothy Wangler
- RILEM 252-CMB Symposium - Chemo-Mechanical Characterization of Bituminous Materials, Vol. 20; Eds. Lily Poulidakos, Augusto Cannone Falchetto, Michael P. Wistuba, Bernhard Hofko, Laurent Porot, Hervé Di Benedetto

## STARs published in 2018

- Testing and Characterization of Sustainable Innovative Bituminous Materials and Systems - State-of-the-Art Report of the RILEM Technical Committee 237-SIB, Vol. 24; Eds. Manfred Partl, Laurent Porot, Hervé Di Benedetto, Francesco Canestrari, Paul Marsac, Gabriele Tebaldi
- Properties of Fresh and Hardened Concrete Containing Supplementary Cementitious Materials - State-of-the-Art Report of the RILEM Technical Committee 238-SCM, Working Group 4, Vol. 25; Eds. Nele De Belie, Marios Soutsos & Elke Gruyaert
- Methods of Measuring Moisture in Building Materials and Structures - State-of-the-Art Report of the RILEM Technical Committee 248-MMB, Vol. 26; Ed. Lars-Olof Nilsson
- Thermal Cracking of Massive Concrete Structures - State of the Art Report of the RILEM Technical Committee 254-CMS, Vol. 27; Eds. Eduardo Fairbairn, Miguel Azenha
- Mechanisms of Cracking and Debonding in Asphalt and Composite Pavements - State-of-the-Art of the RILEM Technical Committee 241-MCD, Vol. 28; Eds. William Buttlar, Armelle Chabot, Eshan Dave, Christophe Petit, Gabriele Tebaldi
- Physical Properties and Behaviour of High-Performance Concrete at High Temperature - State-of-the-Art Report of the RILEM Technical Committee 227-HPB, Vol. 29; Eds. Pierre Pimienta, Robert Jansson McNamee, Jean-Christophe Mindeguia

## Recommendations published in 2018

- Recommendations of RILEM TC 237-SIB:
  - Cohesion Test of Recycled Asphalt
  - Protocol for characterization of recycled asphalt (RA) materials for pavement applications
  - Affinity between aggregates and bituminous binders
- Recommendation of RILEM TC 238-SCM:
  - 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
- Recommendation of RILEM TC 241-MCD on interface debonding testing in pavements
- Recommendation of RILEM TC 250-CSM: Test method for Textile Reinforced Mortar to substrate bond characterization
- Recommendations of RILEM TC 260-RSC:
  - Testing sorption by superabsorbent polymers (SAP) prior to implementation in cement-based materials
  - Using SAP to mitigate autogenous shrinkage



# RILEM Honors and Awards



Nicolas Roussel, TAC Chair with the recipient of the 2018 Best Student Poster Award Alice Titus Bakera – Credits TU Delft

## Annual Week 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, The Netherlands.

## Gustavo Colonnetti Medal



Nicolas Roussel, TAC Chair with the 2018 Gustavo Colonnetti Medalist Sergio H. P. Cavalaro – Credits UPC



Nicolas Roussel, TAC Chair with the 2018 Gustavo Colonnetti Medalist Didier Snoeck Credits UPC

Starting in 2016, up to two Gustavo Colonnetti Medals, named after the first RILEM President and co-founder of the association, are awarded each year to researchers of less than 35 years of age, who have made an outstanding scientific contribution to the field of construction materials and structures.

In 2018, the awards were granted to Dr. Sergio H. P. Cavalaro, School of Architecture, Building and Civil Engineering, Loughborough University and to Dr. Didier Snoeck, Magnel Laboratory for Concrete Research, Ghent University. They received their medal and presented their work at the 1<sup>st</sup> RILEM Spring Convention in Barcelona in March 2018. The videos of their lectures are on RILEM YouTube channel.



Nicolas Roussel, TAC Chair and Fernando Moreno, Robert L'Hermite Medalist 2018 Credits AG

## Robert L'Hermite Medal

Since 1975, the Robert L'Hermite Medal is awarded annually to a researcher of less than 40 years of age, who has made an exceptional scientific contribution to the field of construction materials and structures.

In 2018 the medal was granted to Dr. Fernando Moreno-Navarro, University of Granada, Spain. He is the first Robert L'Hermite Medalist coming from the RILEM asphalt community. He received his medal and presented his work at the SLD4 conference/ CONMOD 2018 symposium in Delft, The Netherlands, in August 2018. The video of his presentation is on RILEM YouTube channel.

## RILEM Fellows and Honorary Members

Created in 1993 by the General Council, the honorary title of RILEM Fellow is bestowed upon RILEM Senior members who have made exceptional contributions to RILEM in their capacities as research scientist, engineer, technical leader or educator. RILEM also distinguishes Honorary Members. These are persons having rendered exceptional services to the association – for example, having successfully chaired the work of several TCs, or having contributed to giving a new orientation to the association.

RILEM fellowship was bestowed on Denys Breysse, Joost Gulikers, and Viktor Mechtcherine in Delft in August 2018.



### Denys Breysse

*"In recognition of his fruitful work as Technical Chair & member, in particular, in the field of non-destructive testing of concrete."*

Johan Vyncke, RILEM President and Denys Breysse, RILEM Fellow 2018.  
Credits Ravindra Gettu



### Joost Gulikers

*"In recognition of his active membership of numerous RILEM Technical Committees, work as editor of RILEM publications related to service life prediction, and his efforts to involve practitioners in RILEM activities."*

Johan Vyncke RILEM President and Joost Gulikers, RILEM Fellow 2018.  
Credits AG



### Viktor Mechtcherine

*"In recognition of his work as chair of Technical Committees, editor of various RILEM Publications, and active contributing member of the standing committees of RILEM."*

Viktor Mechtcherine, RILEM Fellow 2018.  
Credits Vyatcheslav Falikman

# Regional Groups & National Groups

In some regions, a formal RILEM Regional Group has been established to overcome language barriers and to encourage and facilitate development of RILEM technical and educational activities on a regional level, in due consultation with the RILEM headquarters in Paris. Currently, RILEM has three regional groups:

- **LAT-RILEM**, established in 2010, covering the region of Latin America.
- **CIS-RILEM**, established in 2016, covering the region of East Europe & Central Asia.
- **CHN-RILEM**, coinciding with China. This group started as a national group in 2013 and was transformed to a regional group following the recent reorganization of RILEM regions.
- **JPN-RILEM**, established in 2016. The Japanese National group was officially created in Lyngby although Japan has a long-time experience with national RILEM meetings, dating back already before the RILEM Annual Week organized in Japan in 2004.

RILEM National and Regional Groups have some autonomy in developing national and regional activities, within a framework defined by RILEM Bureau and General Council.

Some info related to the regional groups is given below:

- **Lat-RILEM:**

Many events have been organized last year in Latin America, and many events are in the pipeline for the near future. RILEM is pleased to see that the membership in other countries than Brazil and Argentina is growing. This growth is spreading RILEM activities more and more in the entire continent of Latin America. The upcoming RILEM Week in Mexico in 2021 is also expected to give a boost to RILEM activities in the region. Preparations are slightly starting, already now.

- **CIS-RILEM:**

Also for this regional group, RILEM is very happy to notice the high number of activities organized, some of them with a very high number of participants. Many efforts have been made to make CIS-RILEM grow after the official launch in 2016. It is also good to notice that active efforts are made in view of involving an increased number of younger colleagues.



S. P. Shah with Yan Yao, Vice-president of RILEM China Group on 30 May 2018. Credits CHN-RILEM

- **CHN-RILEM:**

CHN-RILEM has been very active in 2018, with the organization of many national and international events linked to RILEM. It is very good to notice that several new technical committees within RILEM have been installed on the initiative of colleagues from China. RILEM is confident that the upcoming RILEM Week 2019 in Nanjing will give a significant impulse to the RILEM activities in the region.



3<sup>rd</sup> Annual Meeting of Japanese National Group of RILEM held at KKR Hotel Tokyo on 9 November 2018. Credits JPN-RILEM

- **JPN-RILEM:**

Continuing the excellent tradition of many years, RILEM members from Japan well coordinate their national and international activities, duly involving RILEM partner JCI. RILEM is very grateful for the major efforts of JPN-RILEM, and is looking forward to the organization of the RILEM Annual Week 2022 in Kyoto.

# 50 years of bitumen in RILEM

The ISAP Conference held in Fortaleza in June 2018 was the 13th step of long history started in Ann Arbor (Michigan, USA) in 1962 and, as always in the past, it was an important milestone for the asphalt pavements scientific community. This conference was a great example of the successful cooperation between RILEM and ISAP. As the following pictures may show several RILEM members and several RILEM officers (former and still active) were involved in the conference either in the organization and in the discussions (i.e. the Chairman of the Scientific Committee was Gabriele Tebaldi, Chairman of TC 264-RAP and Associate Editor of Materials and Structures). The conference hosted the podium presentations and the poster presentations of almost 200 papers.

A great example of the successful involvement of RILEM in ISAP2018 was the special session to celebrate the 50 years of activities of RILEM Technical Committees in the research field of bituminous materials and asphalt pavements. People from almost all the countries in the world have listened to how RILEM is organized, how it is working and what it did in the improving of scientific knowledge in that field. In particular, the session was the chance to celebrate more than 20 years of activities and involvement in RILEM of Manfred Partl. In his outstanding career, he was several times TC Chair, he was Cluster Convener, he was a member of the TAC and he is still serving as Associated Editor of Material and Structures and for all these reasons he was appointed RILEM Fellow and recently RILEM Honorary Member.



Hervé Di Benedetto.  
Credits ISAP Conference 2018



Manfred Partl.  
Credits ISAP  
Conference 2018



Gabriele Tebaldi, Jorge Soares, Hervé Di Benedetto,  
André Molenaar, Manfred Partl and Jean-Pascal Planche.  
Credits ISAP Conference 2018

# International Partnerships

During the last five years, RILEM has concluded several strategic partnership agreements with important national and international organizations. These partnerships are very helpful to exchange organizational, technical and educational information, in view of an optimal spread of state-of-the-art information concerning construction and building materials all over the world.

A list of current international partnerships is given hereafter, with the contact person.



↘ AATH - Asociación Argentina de Tecnología del Hormigón (Carlos Alberto Milanesi)



↘ Indian Concrete Institute, ICI (R. Radhakrishnan)



↘ Latino-American Association of Quality Control, Pathology and Construction Recuperation, Alconpat International (Carmen Andrade)



↘ International Academy of Engineering, IEA (Vyatcheslav Falikman)



↘ American Concrete Institute, ACI (Ron Burg)



↘ International Society for Asphalt Pavements, ISAP (Gabriele Tebaldi)



↘ Concrete Institute Australia, CIA (David Millar)



↘ Japan Concrete Institute, JCI (Kyuchi Maruyama)



↘ International Federation for Structural Concrete, fib (David Fernández-Ordóñez)



↘ Korean Concrete Institute, KCI (Hyun Mock Shin)



↘ Brazilian Concrete Institute, IBRACON (Enio Pazini Figueiredo)



↘ New Zealand Concrete Society, NZCS (Michael Khrapko)

RILEM is happy to have great partners, resulting in joint workshops and conferences. Some partnerships even results in joint technical activities and joint publications. In order to further improve the cooperation with the partners, RILEM Development Advisory Committee and Bureau are developing a partnership monitoring plan, including specific performance indicators. This will be further discussed and put in place in the coming years. RILEM will be very happy to spend more energy and time in making partnerships intense and flourishing!

# Financial statement of the year 2017

From a financial point of view, RILEM consists of two distinct entities:

- An association under Swiss law, but established in France, non-profit, without VAT and non-taxable, named **RILEM Association**. The association manages members and scientific, educational and development activities.
- A private company with a single shareholder (i.e. RILEM Association), for profit, subject to VAT and profit tax, named **EURL RILEM Publications**. The company manages publishing activities.

Publications activities are related to two scientific journals: Materials & Structures, which is the subject of an agreement with SPRINGER and RILEM Technical Letters. For these two journals, part of the publishing and management is the subject of a subcontract.

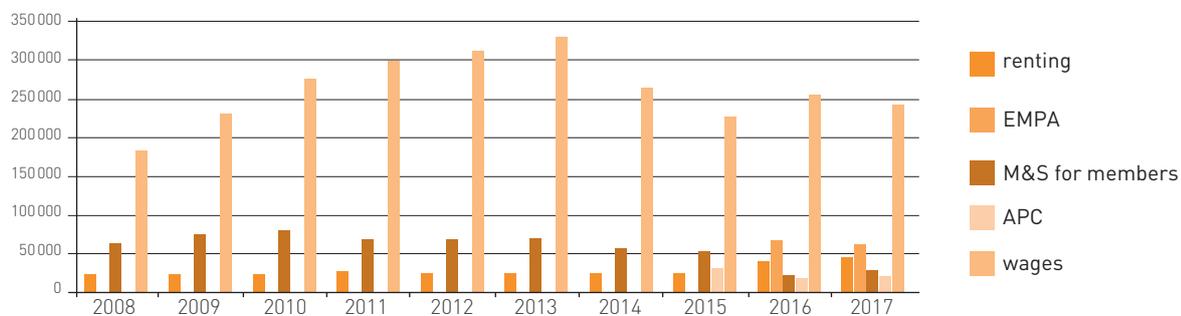
Income for **RILEM Association** comes from membership fees: individual members and corporate members.

The income for **EURL RILEM Publications** comes from royalties paid by SPRINGER on the revenue from the sale of Materials & Structures, mainly via consortia agreements.

The costs for **RILEM Association** and **EURL RILEM Publications** are related to the salary and expenses of the Secretariat, the costs of publication of articles in the journal RILEM technical letters, Article Processing Costs (APC's) for publishing a limited number of Open Access papers, selected by the Board of Editors, in the journal Materials & Structures, renting and the various services required for the operation of the office in Paris, subcontracting for part of the management of the publishing activities of Materials & Structures, access to Materials & Structures for RILEM members.

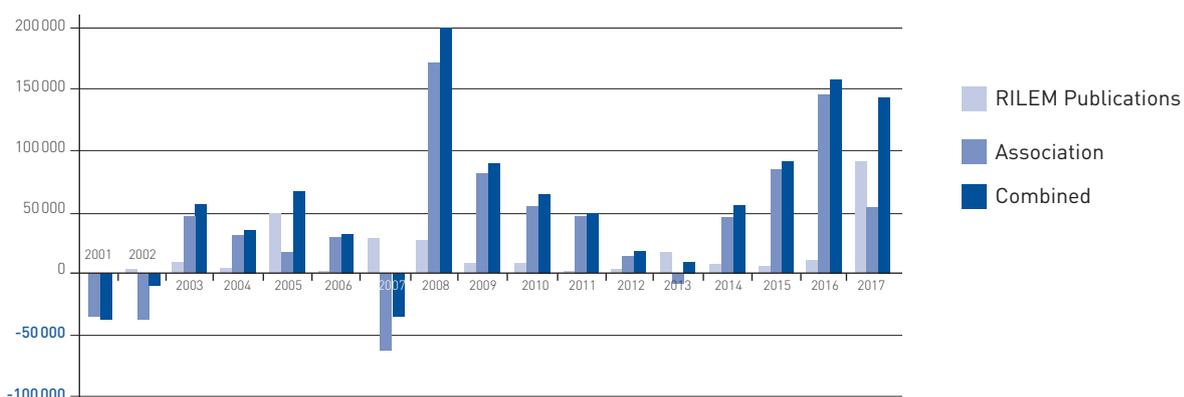
An overview of the distribution of costs is given below.

## Summary of the expenses (€) of both RILEM association and EURL RILEM Publications

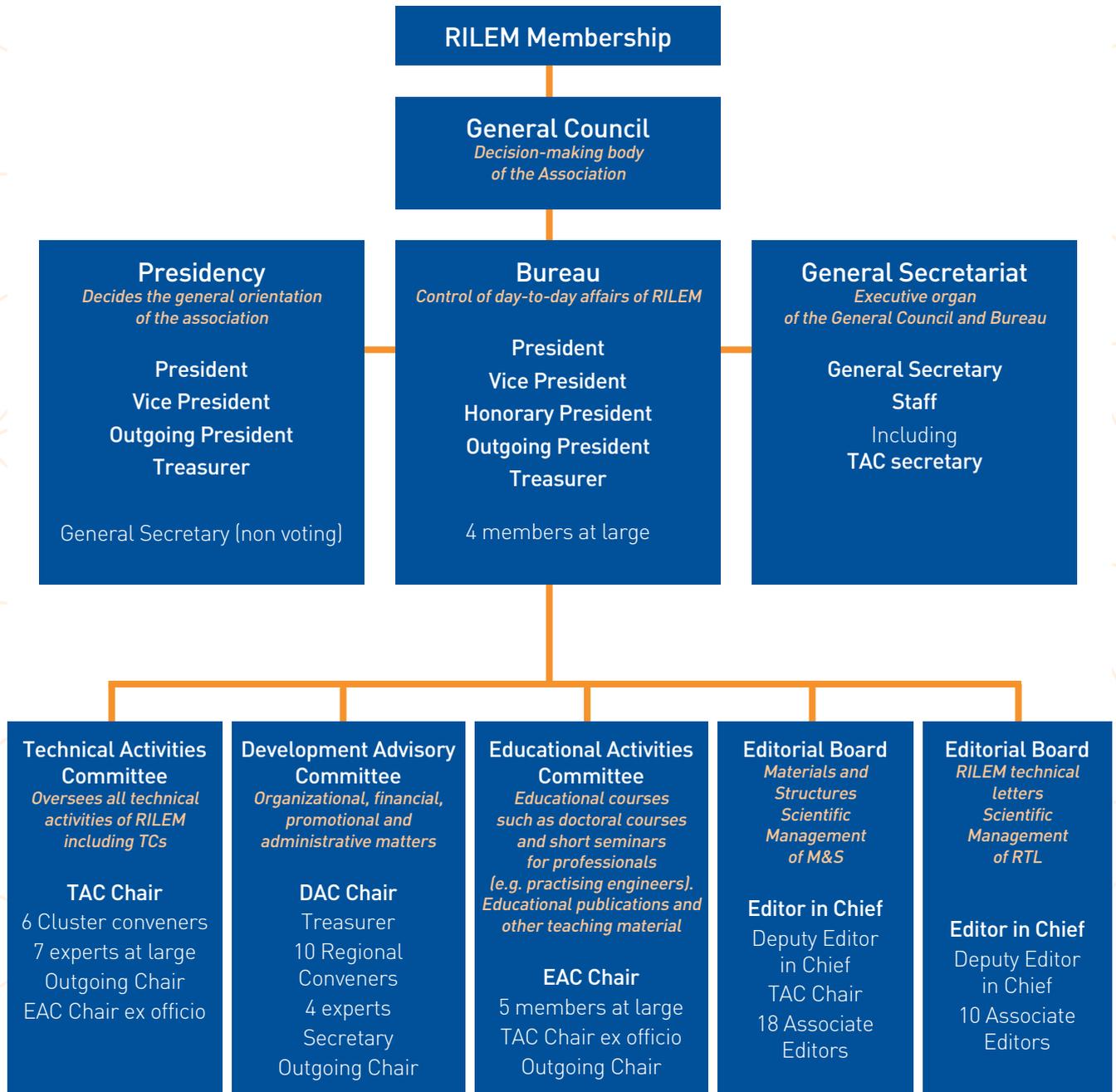


The variation of the results of both RILEM entities and the combined result is presented below.

## RILEM Association and EURL RILEM Publications results (€) and RILEM combined result (€) versus time



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The RILEM would like to thank all contributors who made this 2018 Annual Report possible.

# Upcoming major events for 2019 and beyond

## RILEM Spring Convention 2019

The second RILEM Spring Convention 2019 will be held in conjunction with the International Conference on Sustainable Materials, Systems and Structures (SMSS2019) in the beautiful town of Rovinj, Croatia on 18-22 March 2019.

## RILEM Annual Week 2019

The 73<sup>rd</sup> RILEM Annual Week will be held in conjunction with the International Conference on Innovative materials for Sustainable Civil Engineering (IMSCE) on 25-30 August 2018 in Nanjing, China.

## Future RILEM Events

	Spring Convention	Annual Week
2020/74 <sup>th</sup>	Guimarães, Portugal (Eduardo Pereira)	Sheffield, UK (John Provis)
2021/75 <sup>th</sup>	Paris, France	Merida, Mexico (Alejandro Duran)
2022/76 <sup>th</sup>	Morocco <sup>(*)</sup> (Mohammed Sonebi)	Kyoto, Japan (Takafumi Noguchi)

(\*) Proposal under exploration, details to be specified.

Calls for events in 2023 were launched in January 2019. Decisions will be taken in March 2019.



Nanjing Youth Olympic Center

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