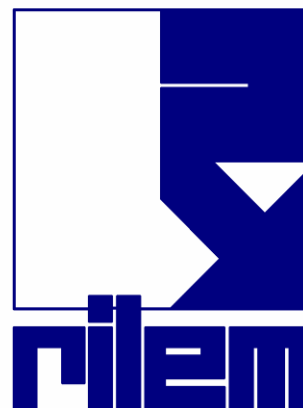


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**Word from Mark Alexander, RILEM President**

Dear RILEM Member

We have just concluded a very successful 67<sup>th</sup> Annual RILEM Week in Paris, in conjunction with the 7<sup>th</sup> RILEM International Conference on Self-Compacting Concrete and the 1<sup>st</sup> RILEM International Conference on Rheology and Processing of Construction Materials. I wish to record my sincere thanks and congratulations to the RILEM Honorary President for 2013 and the Chairman of the Conferences, Dr Nicolas Roussel, and to his team. Similar thanks are due to the RILEM SG, Mme Pascale Ducornet and her staff.

During our days in Paris, we were afforded excellent weather, convivial surroundings, excellent organisation, and an outstanding technical programme, which included the L'Hermite Lecture given by Prof John Provis. We ran meetings of all the RILEM Standing Committees, 15 Technical Committees, and the RILEM General Council, all very efficiently. There were also a number of very enjoyable social events. So it was a very busy week in Paris, but one that people enjoyed and benefitted from. It is always special to meet with RILEM colleagues and attend events surrounding RILEM's activities. RILEM is making good progress in its aims and missions, and moving confidently into the future.

I invite you already at this early stage to the 68<sup>th</sup> Annual RILEM Week in São Paulo, Brazil, together with the XIII DBMC Conference, over the period 31/08/2013 to the 05/09/2013. Please visit the following website <http://www.dbmc2014.org/> for further details.

Please enjoy reading the Newsletter, where you can find useful information on current developments in RILEM.

Yours sincerely,

Mark Alexander  
President of RILEM

### **RILEM Annual Week in Paris**

The 67<sup>th</sup> RILEM Annual Week was organized from 1 to 4 September 2013, in our RILEM 'home town' of Paris. We enjoyed a remarkable week of sunshine and high summer temperatures reaching 30°C and more, which is unusual for this time of the year in Paris. This compensates somewhat the even more remarkable winter conditions we experienced during our Paris spring meetings earlier this year.

Besides the many meetings of standing committees and technical committees (a record number of 15 TCs meeting during the RILEM Week!), we had two high-level and extremely well organized conferences running in parallel, the 7<sup>th</sup> International RILEM Symposium on Self-Compacting Concrete and the 1<sup>st</sup> International RILEM Conference on Rheology and Processing of Construction Materials. Having rheologists and concrete technologists together in one conference venue proved to be a very interesting situation, with an excellent cross-fertilization and inspiring exchange of ideas.



Opening ceremony of the RILEM Week

The organization of the RILEM Week was in hands of Dr. Nicolas Roussel. His team, in due cooperation with the team from AFGC (The French Civil Engineering Society) and the RILEM Secretariat, succeeded in making this RILEM Week a successful event with highly positive impact on the research activities in the field of both conferences as well as on the organization of RILEM as an organization (More information is given elsewhere in this newsletter). A whole-hearted thank you is expressed to all those who helped in the organization of the RILEM Week, and of course to all attendees, members and non-members.

### **Transformation of MAC to DAC**

On a proposal by the BUREAU, the General Council approved the transformation of MAC (Management Advisory Committee) to DAC (Development Advisory Committee). MAC is one of the Standing Committees of RILEM and has as mission to monitor the most relevant indicators and to make proposals to the Bureau in matters related to management and promotion of RILEM activities. Its role is now somewhat redefined, in order to better deal with the international development of the organization.



**General Council, Paris 2013**

During the last four years, in close cooperation with the Director of Development, particular attention was given within MAC to worldwide growth of RILEM, aiming to enhance the participation of some regions in RILEM activities and to strengthen contacts with other organizations. As a consequence, the LAT-RILEM regional group, which comprises countries from South and Central America, was created, and the CIS-RILEM, which encompasses countries from the former USSR, is likely to become a reality in the very short-term. Furthermore, the formation of a National group in

China is well advanced, and partnership agreements have been established with major international and national organisations (ACI, IBRACON, ISAP, JCI ...).

With the position of the Director of Development coming to an end in January 2014, and in order not to lose the momentum created by the world-wide developments of recent years, a redefinition of MAC mission was considered of strategic importance, by focusing its activities on management of RILEM and its development, with special emphasis on international relations. To achieve this goal, the new MAC, will adopt a structure parallel to that of TAC, with the appointment of Regional Convenors.

Similarly to what happens with Cluster Convenors in TAC, which take care of a cluster of technical activities, Regional Convenors will have to promote RILEM and monitor its development in the assigned region. This will include the follow-up of Regional RILEM Groups, National RILEM Groups and International Organizations. Within MAC, a total of eight different regions (e.g., North-America, Eastern-Europe, and Pacific) are foreseen.

This new mission of MAC, which will adopt the designation of DAC – Development Advisory Committee, responds to the current challenges that RILEM presently faces, allowing to consolidate its evolvement and to secure its actual status of global organization. The transformation of MAC to DAC was approved by the RILEM General Council during the RILEM week in Paris.

Roberto Torrent is assigned as the first chairman of DAC, for a mandate of two years. The current MAC-experts, except Roberto Torrent who will become chair, have been named DAC-experts: Doug Hooton, Birgit Meng, Changwen Miao, and Shiro Nakajima. Furthermore, the following Regional Convenors have been assigned:

- Africa: Hans Beushausen,
- Latin-America: Arlindo Gonçalves,
- Middle-East / India: Manu Santhanam,
- Asia / China: Geert De Schutter,
- Eastern Europe: Vyatcheslav Falikman,
- Western Europ: Manfred Partl.

For the time being, no Regional Convenors have been assigned for North-America and Pacific.

### **New cluster definition within TAC**

Technical Committees are traditionally grouped within clusters, as defined within TAC, the Technical Activities Committee. As the ‘non-cementitious’ construction materials are becoming more important and increasingly visible in the RILEM Technical activities, the clusters have been somewhat redefined, introducing an extra cluster. The following list of clusters has now been defined (with assigned Cluster Convenor):

- Cluster A) Material Processing and Characterization (Nicolas Roussel)
- Cluster B) Transport and Deterioration Mechanisms (Nele De Belie)
- Cluster C) Structural Performance and Design (Takafumi Noguchi)

- Cluster D) Service Life and Environmental Impact Assessment (Kefei Li)
- Cluster E) Masonry and Timber (Paulo Lourenço)
- Cluster F) Bituminous Materials and Polymers (Hervé Di Benedetto)

### New Technical Committees

Several new technical committees were created during the RILEM Annual Week in Paris:

- TC FRS on *Fire resistance of concrete structures repaired with polymer cement mortar*, chaired by Takafumi Noguchi, new cluster B.
- TC MCI on *Microorganisms-cementitious materials interactions* chaired by Alexandra Bertron, new cluster B.
- TC SIF on *Surface delamination of concrete industrial floors* chaired by Valérie Pollet, new cluster C.
- TC SPF on *Spalling of concrete due to fire: testing and modelling*, chaired by Pierre Pimienta, new cluster C.

All RILEM members interested to actively contribute to the work of these newly created committees are requested to contact the RILEM secretariat. Further, any RILEM member may propose the formation of a new technical committee, on the required Form (TAC-N10 Proposal for a new RILEM Technical Committee). A complete list of all active RILEM technical committees can be found on the RILEM website: [www.rilem.net](http://www.rilem.net)

### Educational events

An updated list of Educational Activities can be found on the RILEM Website ([www.rilem.net](http://www.rilem.net) => Events => Educational Courses).

### John Provis, Robert L'Hermite Medallist 2013



Prof Ravindra Gettu, TAC chair, handing out the RILEM

During the RILEM Annual Week in Paris, the RILEM L'Hermite Medal was awarded to Prof John Provis of the Department of Materials Science and Engineering, University of Sheffield, UK, 'in recognition of his outstanding contributions to the research and development of geopolymers and other construction materials.' The high-level research results and the appealing vision of John Provis were excellently illustrated during his medal lecture, entitled "Geopolymers and other alkali-activated materials: Why, how and what?" After the lecture, the medal was presented by Prof Ravindra Gettu, TAC chair.

**L'Hermite Medal to Prof John Provis.**

John Provis joined the Department of Materials Science and Engineering, University of Sheffield in 2012 with a Chair in Cement Materials Science and Engineering. He took a combined BE(Hons)/BSc in Chemical Engineering and Applied Mathematics from the University of Melbourne, Australia, in 2002, followed by a PhD in Chemical Engineering from the University of Melbourne in 2006. From 2006 to May 2012 he was research fellow then senior research fellow, manager (2006-8) and leader (2009-12) of the Geopolymer and Minerals Processing Group and holder of APD and DORA fellowships, in the Department of Chemical & Biomolecular Engineering at the University of Melbourne, before joining the University of Sheffield. His research centres on the development, characterisation and exploitation of advanced and non-traditional cement and concrete technology. Many projects involve alkali-activated and geopolymer binders, for use in infrastructure and waste immobilisation applications.

**Arlindo Gonçalves RILEM Fellow**

**handed out by Mark Alexander, RILEM President**

During the RILEM Banquet, Dr. Arlindo Gonçalves was named RILEM Fellow, in recognition of his exceptional scientific and organizational contribution to RILEM's work. The fellowship diploma was handed out by Mark Alexander, RILEM President. Arlindo Gonçalves has served as MAC chair for the last five years, and will now start as Outgoing Chair and Regional Convenor for Latin-America in the renewed DAC committee.

**Arlindo Gonçalves receiving the Fellow Diploma,**

**Strategic workshop Brussels Spring 2014**

In 2014, the RILEM Spring Meetings will be organised in Brussels, March 10-11. The meetings of three standing committees (TAC, DAC and Bureau) will be combined with a strategic workshop. The way forward within RILEM will be discussed in an open way, considering many aspects, such as membership, communication, international development, publications, ... The revised RILEM Road Map, drafted at the end of the mandate of the Director of Development, will serve as a starting document for the discussions. All RILEM members are duly invited to actively contribute to these brainstorm sessions. We are particularly encouraging younger RILEM members to join this workshop to help position RILEM for the future. Please check further mailings on this issue, or contact the RILEM Secretariat for more details.

**Upcoming RILEM Weeks**

A high-level RILEM Annual Week takes a lot of effort and time to organize. Several teams worldwide are already working on the successful organisation of RILEM Weeks in the coming years. The following list of Annual Weeks has been confirmed:

- 68<sup>th</sup> RILEM Annual Week, **2014, SAO PAULO, Brazil**, 31 August-5 September, in conjunction with the 13<sup>th</sup> International Conference on Durability of Building Materials and Components, DBMC13.
- 69<sup>th</sup> RILEM Annual Week, **2015, MELBOURNE, Australia**, 30 August-2 September, in conjunction with the Biannual Conference of the Australian Concrete Institute.
- 70<sup>th</sup> RILEM Annual Week, **2016, LYNGBY (COPENHAGEN), Denmark**, 15-24 August, in conjunction with numerous doctoral courses and conferences related to Materials, Systems and Structures in Civil Engineering.
- 71<sup>st</sup> RILEM Annual Week, **2017, CHENNAI, India**, September, in conjunction with a RILEM International Conference on Advances in Construction Materials and Systems.
- 72<sup>nd</sup> RILEM Annual Week, **2018, DELFT, The Netherlands**, in conjunction with a RILEM International Conference on Service Life / Durability / Ageing / Self-Healing / Modelling of Building Materials.

This list of upcoming RILEM Annual Weeks illustrates the growing impact of RILEM on a truly international scale, worldwide. Mark your agendas, in order not to miss these exciting RILEM events!

It was the intention of RILEM to launch a new call for bids for upcoming RILEM Weeks by the end of 2013. However, as we are fully booked now until 2018, and considering the possible extended delay between bid and real event, RILEM Bureau decided to postpone the next call until end of 2014.

#### **Call for candidates Robert L’Hermite Medal 2014**

It is a RILEM objective to gather together the most eminent specialists throughout the world in the fields of building materials and structures. Aiming for excellence in all its activities, RILEM awards this recognized distinction annually. Each year, the Robert L’Hermite Medal is awarded to an author of less than 40 years age - not necessarily a member of the Association – who has performed high level scientific research in the field of ‘Building Materials and Structures’. The research results have to be published in at least one original scientific article in an international scientific journal, preferably (but not exclusively) the RILEM journal Materials & Structures, in one of the official languages of RILEM (English or French). **Candidates should submit their file at the latest by 31 December 2013.** For more information on the required format and documents, please contact the RILEM Secretariat (sg@rilem.org). If you are not a candidate yourself, but you know of excellent candidates in your team or research community, please inform them about this call!

#### **Paying RILEM dues online**

RILEM members can renew their membership by paying the annual RILEM dues (membership fees) online through the RILEM website. To do so, please login to the RILEM website, and go to your private area. There, within the area “My access”, you will find the option “Pay my dues”. If you need

more information on this option, please contact the RILEM Secretariat. They will be happy to help you.

### **RILEM TC 228-MPS**

The technical and scientific work in the RILEM Technical Committees is the real backbone of our organisation. Every year, several Recommendations and State-of-the-art Reports are published. RILEM TCs have a limited service life, typically about 5 years, with clearly defined goals and deliverables. This makes our TCs very active, and enables RILEM to produce relevant and updated documents in a relatively short time.

As an example of the TC activities, we are pleased to announce that the State-of-the-Art Report on the Mechanical Properties of Self-Compacting Concrete (SCC) is now in print, and will be available before the end of the year. Given the fast growth of research output in the field of SCC and the growing acceptance of this high-performance material around the world in both precast and cast-in-place applications, the members of the RILEM Technical Committee TC 228-MPS “Mechanical Properties of SCC” have worked diligently to provide a concise summary of key topics pertaining to the mechanical properties of SCC.



**Members of RILEM TC 228-MPS, chaired by Prof Kamal Khayat, after their final meeting, organized in Paris, September 2013.**

The report comprises eight chapters covering various topics pertaining to mechanical properties of SCC. This includes compressive, tensile, flexural, and shear strengths and elastic modulus, stress-strain behaviour, and mechanical properties at elevated temperatures. The report also discusses creep, drying and autogenous shrinkage behaviours of SCC and the applicability of various models to SCC. Bond strength to reinforcement, existing concrete, and freshly cast SCC are discussed. A review of the main structural behaviour characteristics of SCC used in various structural elements is provided. A comprehensive review of the behaviour of fibre-reinforced SCC (FR-SCC) is provided.



Finally, the report discusses the properties of specialty SCC including lightweight and heavyweight SCC, preplaced aggregate SCC, underwater concrete, self-levelling concrete, and self-compacting repair mortar and concrete.

### **Frank E. Richart Award for Doug Hooton**

Prof Doug Hooton, tenured professor in the Department of Civil Engineering at the University of Toronto, Ontario, has received the Frank E. Richart Award for his meritorious contributions to ASTM International Committee C09 on Concrete and Concrete Aggregates. Doug Hooton is RILEM member and Expert Member of the Development Activities Committee (DAC).

### **New RILEM Members**

RILEM is very happy to see a growing membership. In 2013, up to 5 September, **57 NEW RILEM MEMBERS** were welcomed! We wish them all a long and fruitful active career in RILEM.

#### **1 CORPORATE Member:**

Dr. Semyon KAPRILOV, Master Beton, RUSSIAN FEDERATION

#### **18 SENIOR Members:**

Dr. Maria Chiara BIGNOZZI, University of Bologna, ITALY

Elena CANDIGLIOTA, ENEA Brindisi, ITALY

Dr. Francesco COLANGELO, University of Naples Parthenope, ITALY

Dr. Yogarajah ELAKNESWARAN, The University of Tokyo, JAPAN

Prof. Claudio FERONE, University of Naples "Parthenope", ITALY

Dr. Elisa FRANZONI, DICAM - Dipartimento di Ingegneria Civile, ITALY

Dr. Oguz GUNES, Istanbul Technical University, TURKEY

Dr. Assem HASSAN, Memorial University of Newfoundland, CANADA

Dr. Yoshikazu KOBAYASHI, Nihon University, JAPAN

Mr. Jean-Lou LEBRUN, ESTP-IRC, FRANCE

Dr. Silvina A. MARFIL, FUNS (Fundación de la Universidad Nacional del Sur), ARGENTINA

Mr. Benoît MASSON, EDF - Division Ingénierie Nucléaire, FRANCE

Dr. Florian MITTERMAYER, Graz University of Technology, AUSTRIA

Mr. Kolawole OLONADE, Obafemi Awolowo University, FEDERAL REPUBLIC OF NIGERIA

Mr. Salah SAADI, Dar Al-Handasah, LEBANON

Dr. Cesare SANGIORGI, Università di Bologna-Facoltà di Ingegneria, ITALY

Dr. Asia SHVARZMAN, Antex Western, CANADA

Dr. Marija VAICIENE, Vilnius Gediminas Technical University, LITHUANIA

#### **2 AFFILIATE Members:**

Mr. Mukul DEHADRAI, JW Consultants LLP, INDIA

Dr. Claire WHITE, Princeton University, UNITED STATES

#### **2 STUDENT Members:**

Mr. Francesco MESSINA, University of Naples "Parthenope", ITALY

Mr. Seyyed Moien REZVANI DIVKOLAIE, Technische Universität Darmstadt, GERMANY

**34 STAFF Members:**

Mr. Ricardo AMATO, National Direction of Roads, ARGENTINA  
 Eleni ARVANITI, Ghent University, BELGIUM  
 Mme Hela BESSAIES, IFSTTAR, FRANCE  
 Dr. Ramon BOTELLA NIETO, Technical University of Catalonia, SPAIN  
 Dr. Franck CASSAGNABERE, LMDC Toulouse, FRANCE  
 Olivier CHUPIN, IFSTTAR, FRANCE  
 Mr. Philippe COUSSOT, IFSTTAR, FRANCE  
 Dr. Marie COUTAND, LMDC, FRANCE  
 Dr.-Ing. Philipp DIETSCH, Technische Universität München, GERMANY  
 Dr. Lixin DONG, Zijingang Campus of Zhejiang University, PEOPLE'S REPUBLIC OF CHINA  
 Dr. Salomé DOS SANTOS, EMPA, SWITZERLAND  
 Frédéric DUBOIS, UNIVERSITÉ DE LIMOGES, FRANCE  
 Mr. Victor FARIÑA, National Direction of Roads, ARGENTINA  
 Fazia FOUCHAL, UNIVERSITÉ DE LIMOGES, FRANCE  
 Dr. Alvaro GARCIA, EMPA, SWITZERLAND  
 Mr. Jorge GARRIDO, National Direction of Roads, ARGENTINA  
 Bahman GHIASSI, University of Minho, PORTUGAL  
 Mr. Carlos GIL, Chalmers University of Technology, SWEDEN  
 Johannes HAUFE, IBAC der RWTH Aachen, GERMANY  
 Dr. Klaus LIPUS, VDZ gGmbH, GERMANY  
 Dr. Francisco MOREA, LEMIT, ARGENTINA  
 Mr. Viet Duc NGUYEN, IETcc (CSIC), SPAIN  
 Mr. Guillaume OVARLEZ, IFSTTAR, FRANCE  
 Mr. Olivier PITOIS, IFSTTAR, FRANCE  
 Antonio PRINCIGALLO, CTG Italcementi Group, ITALY  
 Dr. Assia Djerbi TEGGUER, IFSTAR, FRANCE  
 Mr. Farid VAN DER VURST, Ghent University, BELGIUM  
 Dr. Virginie WIKTOR, Delft University of Technology, THE NETHERLANDS  
 Bei WU Delft University of Technology, THE NETHERLANDS  
 Yao WU, Zhejiang University, PEOPLE'S REPUBLIC OF CHINA  
 Mme Sylvie YOTTE, UNIVERSITÉ DE LIMOGES, FRANCE  
 Dr. Claudio ZEGA, LEMIT, ARGENTINA  
 Mr. Wenjun ZHU, LMDC, FRANCE  
 Dr. Adam ZOFKA, Road and Bridge Research Inst. (IBDIM,) POLAND

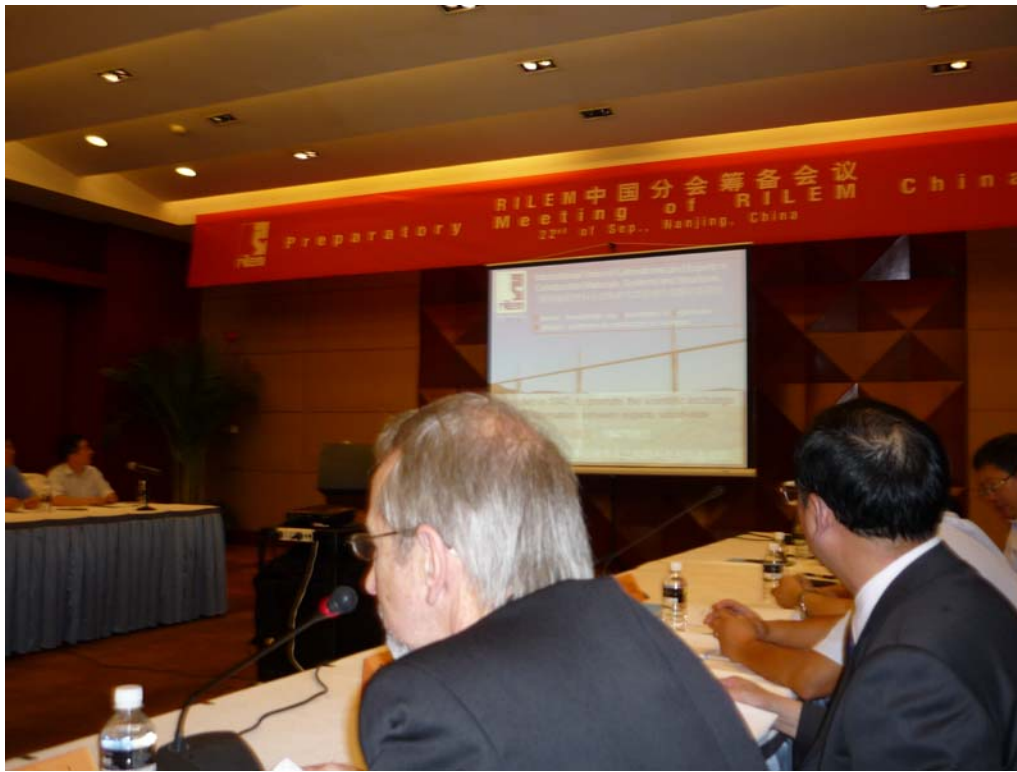
**RILEM Week 2014 Sao Paulo**

The 2014 Annual RILEM Week will be organized in Sao Paulo, Brazil, 31 August to 5 September, in conjunction with the XIII DBMC Conference on 'Durability of Building Materials and Components'. Please mark your agenda, and prepare your technical contributions to this event, as well as your practical travel arrangements. Check the RILEM website for practical details. See you in Sao Paulo!

**Breaking News: Chinese National RILEM Group**

On 22 September 2013, a preparatory meeting of the Chinese National RILEM Groups was organized in Nanjing. The meeting was chaired by Prof Changwen Miao, and attended by more than 100 Chinese colleagues. RILEM was represented by Mark Alexander (RILEM President), Geert De Schutter

(RILEM Director of Development) and Roberto Torrent (RILEM DAC Chair). The statutes and activities of the Chinese National RILEM Group have been discussed. A formal inauguration of the Chinese National Group, to be chaired by Prof Changwen Miao, will be organized in Hong Kong, August 2014.



Mark Alexander and Changwen Miao at the preparatory Meeting of the Chinese RILEM Group

For all questions concerning RILEM publications and activities, please contact:



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