



1<sup>st</sup> RILEM Spring Convention, and Seminar on  
Advances in Durability and New Materials for Construction

19-21 March 2018

Barcelona, Spain



### Venue of the meetings

All meetings will be held the Campus Nord of Universitat Politècnica de Catalunya (Buildings C1 and C2 of the School of Civil Engineering).

Physical address and contact details:

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## Objective

The RILEM Spring Convention is a new important RILEM event which will be held for the first time in Barcelona this year and will subsequently be organised each year in the northern hemisphere 'Spring', normally in the month of March. It is the intention of RILEM to base as a rule the Spring Convention in Europe, while the Annual RILEM Week Event is generally organised outside of Europe. Yet of course exceptions will be possible.

The Convention combines RILEM standing committee meetings (TAC, DAC, Development Meeting, Bureau), and a number of RILEM technical committee meetings. One purpose of the Spring Convention is to offer the RILEM TCs an opportunity to meet at least annually for their scientific discussions at the occasion of a larger RILEM happening, promoting in this way the meetings in conjunction with other TCs and RILEM colleagues with whom mutual interchange might be possible. Also, the convention will be an ideal opportunity to meet with partner organizations and will be the occasion for handing out the prestigious Colonnetti awards.

As always, besides high quality technical content of the seminars and meetings, there will be opportunities for networking and public relations activities.

## 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 of research and its applications, promoting in this way excellence in construction worldwide.

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

## About UPC

Universitat Politècnica de Catalunya, UPC, is the largest engineering university in Catalonia, Spain. It also offers programs in other disciplines such as mathematics and architecture. The university was founded in March 1971 as the Universitat Politècnica de Barcelona through the merger of engineering and architecture schools founded during the 19<sup>th</sup> century.

UPC's objectives are based on internationalization, as it is one of Europe's technical universities with the most international PhD students and the university with the largest share of international master's degree students. UPC is a university aiming at achieving the highest degree of engineering/technical excellence and has bilateral agreements with several top-ranked European universities.

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## Seminar Scope

The seminar will feature on-going activities in RILEM TCs to present progress in two distinct fields, i.e. Durability and Use of New Materials.

- ### Durability

In the durability section an overview will be giving of work going on in the cluster B, Transport and Deterioration Mechanisms. This cluster is covering the Technical Committees that have as main objectives of their activities the analysis of parameters and the mechanism that are leading the durable behaviour of the construction materials and are working in avoid the durability problems and in extend the service life of structures using appropriated materials. In this part of the Seminar there are different presentations related with the some of the important issues analysed actually in the RILEM Technical Comments.

- ### New Materials

In the new materials section focus will be of work going on in the cluster A that is related with the Material Processing and Characterization. Under this cluster A is covered the Technical Committees of RILEM that have in their objectives the improvement the knowledge on new or actualized construction materials and the characteristics of them that provide better and/or new properties and functionalities at these materials. In the second part of the Seminar there are some presentations that are related with the development of new construction materials with new appropriated characteristics to be used in concrete elements or structures.

## Gustavo Colonnetti Award

Since 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. The Spring Convention is the opportunity for the awardees to present in a lecture their work and to receive their award.

The awardees and their lectures will be announced later in January.

## SPRINGER Workshop

The workshop “Publishing Scientific Research” proposed by Nathalie Jacobs, Executive Editor at Springer Nature who is publishing for RILEM our flagship Journal Materials & Structures, is open to all on Wednesday 21 March. The workshop will focus on good practice in publishing at large.



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## Programme

Date	Time	Meetings		
Monday 19/03/2018	09:00 -10:30	TAC	DAC	
	10:30-11:00	Coffee break		
	11:00 - 13:00	TAC	DAC	
	13:00 - 14:30	Lunch		
	14:30 - 16:00	TAC	DAC	
	16:00 – 16:30	Coffee break		
	16:30 - 18:00	Development meeting		
	20:00 - 22:00	RILEM Dinner		
Tuesday 20/03/2018	Seminar “Advances in Durability and New Materials for Construction”			
	09:00 - 9:15	Opening		Vice-rector Technology, UPC
	09:15 - 9:30	Opening Presentation		RILEM President Johan Vyncke
	09:30 - 10:00	Colonnetti lecture		
	10:00 - 10:30	Colonnetti lecture		
	10:30 - 10:45	Medals awarded by RILEM TAC Chair		Nicolas Roussel, IFSTTAR
	10:45 - 11:15	Keynote lectures: ACI’s ambassadors programme and <i>fib</i> on MC 2020		Doug Hooton <i>fib</i> representative (tbd)
	11:15 - 11:30	Coffee break		
	11:30 - 12:00	Durability	Evaluation of external sulphate attack on concrete	Esperanza Menéndez, (IETcc – Spain)
	12:00 - 12:30		Characteristics and durability of conductive cement-based multifunctional materials	Pedro Garcés, (UA – Spain)
	12:30 - 13:00		Fire resistance of polymer-modified cement mortar for RC structures	Takafumi Noguchi, (UT – Japan)
	13:00 - 13:30		3D imaging of moisture distribution and transport in early-age cementitious materials	Pietro Lura, (EMPA – Switzerland)
	13:30 – 14:30	Lunch		
	14:30 - 15:00	New Materials & Technologies	3D Printing with concrete: shaping the future	Nicolas Roussel, (IFSTTAR – France)
	15:00 -15:30		Materials with nanoparticles	Viktor Mechtcherine, (TU Dresden – Germany)
	15:30 -16:00		Biological Concrete	Ignacio Segura, (UPC – Spain)
	16:00 16:30		Concrete with limestone calcined clay cement and other admixtures	Ravindra Gettu, (IITM – India)
	16:30 - 16:45	Closure of the Seminar		Albert de la Fuente, UPC & Esperanza Menéndez, IETcc
	17:00 - 19:30	Bureau		
	20:00 - 22:00	Seminar Dinner		
Wednesday 21/03/2018	09:00 - 10:30	Bureau	SPRINGER Workshop	
	10:30 - 11:00	Coffee break		
	11:00 - 13:00	Bureau	SPRINGER Workshop	
	13:00 - 14:00	Lunch		
	14:00 - 16:30	Technical visit: Sagrada Familia		

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## Accommodation

Participants are kindly requested to make their own reservations.

A list of recommended hotels can be provided on demand. Information is also available on the website of UPC: [https://www.upc.edu/sri/en/congress/accomodation-upc-barcelonatech/hotels\\_in\\_barcelona](https://www.upc.edu/sri/en/congress/accomodation-upc-barcelonatech/hotels_in_barcelona)

## Meals, social events and technical visit to Sagrada Familia

Coffee and lunches will be provided to all the participants.

A RILEM Dinner is organized on Monday 19 March for all RILEM Members. The venue will be announced later.

A Seminar Dinner is organized on Tuesday 20 March on the campus for all participants.

For the visit on Wednesday afternoon transportation from UPC to the Sagrada Familia will be provided for the participants.

## Registration

Registration to the RILEM meetings, the seminar and the workshop is free of charge but mandatory for organizational reasons. The number of participants is limited and will be settled on a “First come first served” base. Participants will be informed out the status of their registration.

Attendance to the RILEM Standing Committee meetings (TAC, DAC, Development meeting & Bureau) are on invitation only.

TCs interested to meet are requested to contact the Secretariat General in Paris.

To be sure to be able to attend, please register as soon as possible at:

<https://goo.gl/forms/4VEtN0bbahgFyU0n2>

The deadline for registration is **31/01/2018** but if the maximum number of participants is reached before, registration will close earlier. So be quick to assure your place.

Looking forward to meet you in Barcelona!



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