

Welcome to the RILEM/COST conference EAC2

We are honored to organize the annual scientific meeting of the European COST Action TU1404 (www.tu1404.eu) in 2017 in conjunction with the **2nd International RILEM/COST Conference on Early Age Cracking and Serviceability in Cement-based Materials and Structures EAC-02** from **12 to 14 September, 2017**, in **Brussels, Belgium**. This International RILEM/COST Conference follows the **RILEM International Conference on Early Age Cracking in Cementitious Systems (EAC'01)** organized in March, 2001, in Haifa, Israel, by Prof. Konstantin Kovler. The EAC'01 conference was dedicated to early age cracking in cementitious systems, one of the most prominent topics tackled by COST Action TU1404. Indeed, these contains three work packages: Testing of CBM, Modeling of CBM and behavior of structures and development of products and recommendations. It is the reason why the idea came naturally to organize 'EAC-02' in conjunction with the annual event of the COST Action TU1404. Therefore, we cordially invite colleagues concerned about early age cracking, serviceability and related durability aspects in cement-based materials and structures, to join us on September 12-14, 2017 at Université Libre de Bruxelles (ULB) in Brussels, the capital of the European Union, having a long history of hosting the institutions of the European Union, a place with a rich history and vibrant activities situated in the heart of Europe.

OBJECTIVES

The objective of the conference is to bring together researchers from academia and industry for exchanging ideas, latest achievements and for establishing new collaborations in the field of concrete technology and knowledge to control early age cracking and cement hydration effects, and thus improve structures serviceability and durability.



CALL FOR ABSTRACTS

The conference welcomes both experimental and numerical studies relevant to the whole life time of the cement-based material in the wide field of monitoring of early age chemical and mechanical properties, modeling of the microstructure development, cracking mechanisms. The topics include but are not limited to the following list of topics.

WG 1 -Testing of CBM

- **Fresh properties and setting**
- **Non-destructive monitoring of hydration and cracking**
- **Chemical and microstructural characterization**
- **Transport properties and boundary effects**
- **Mechanical properties and creep**
- **Volume stability (autogenous shrinkage, drying shrinkage, restrained shrinkage)**
- **Fracture properties and cracking**
- **Advanced experimental techniques**
- **Experiences gained so far in the extended Round Robin Testing programme (RRT+)**

WG 2 -Modeling of CBM and behavior of structures

- **Microstructural modelling**
- **Multiscale modelling**
- **Macroscopic modelling**
- **Probabilistic modelling**
- **Durability and Transport modelling**
- **Benchmarking calculations**
- **Experience gained so far in the benchmarking activities**

WG 3 -Development of products and recommendations

- **Qualification and development of devices for testing and monitoring concrete at early age**
- **Development and qualification of software and design methodologies for concrete at early age**
- **Development and revision of recommendations and standard to prevent/control early age cracking and related durability issues**

COMMITTEE

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- Stéphanie STAQUET (ULB, Belgium)
- Dimitrios AGGELIS (VUB, Belgium)

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- Miguel AZENHA (UMinho, Portugal)
- Farid BENOUDJEMA (ENS Cachan, France)
- Violeta BOKAN-BOSILJKOV (University of Ljubljana, Slovenia)
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- Terje KANDSTAD (NTNU Trondheim, Norway)
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- Marijana SERDAR (University of Zagreb, Croatia)
- Mateusz WYRZYKOWSKI (EMPA, Switzerland)

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- Jérôme CARETTE (ULB, Belgium)
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- Danny VAN HEMELRIJCK (VUB, Belgium)

Scientific Committee

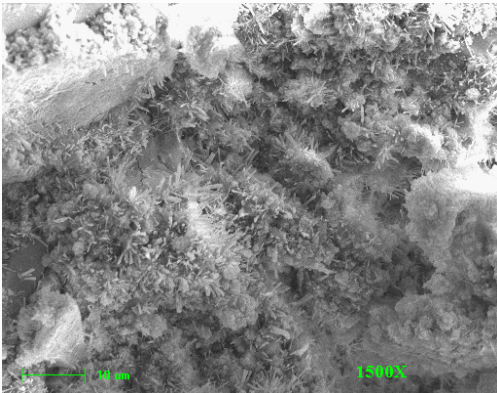
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- Markus KÖNIGSBERGER (ULB, Belgium)
- Konstantin KOVLER (Israel Institute of Technology, Israel)
- David LANGE (University of Illinois, Urbana-Champaign, USA)

EAC⁰₂

12th - 14th of September 2017
Brussel - Bruxelles - Brussels



The 2nd International RILEM/COST Conference on Early Age Cracking and Serviceability in Cement-Based Materials and Structures



www.eac2.be – info@eac2.be



Venue - Building R42

Avenue Franklin D. Roosevelt 50
B-1050 Brussels

@contact: info@eac2.be

REGISTRATION

Participants Categories	Early Bird <31/05/2017	Final <22/07/2017
Regular	€500,-	€550,-
Rilem	€400,-	€450,-
TU 404 COST*	Fully subsidies €300,- in option	Fully subsidies €350,- in option
Phd Student**	€250,-	€250,-

*upgrade to regular participant: €300 (early bird) - €350

** proof of Phd student enrollment should be provided



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Scientific Committee (Continued)

- Pietro LURA (EMPA, ETH Zurich, Switzerland)
- Sreejith NANUKUTTAN (Queen's University Belfast, UK)
- Masayasu Ohtsu (Kyoto University, Japan)
- John Popovics (University of Illinois, Urbana-Champaign, USA)
- Emmanuel ROZIERE (ECNantes, France)
- Dirk SCHLICKE (TU Graz, Austria)
- Marijana SERDAR (University of Zagreb, Croatia)
- Eleni TSANGOURI (VUB, Belgium)
- Svetlana VERBRUGGEN (VUB, Belgium)
- Mateusz WYRZYKOWSKI (EMPA, Switzerland)

INVITED PLENARY SPEAKERS

- **Hans BEUSHAUSEN** (University of Cape Town, South Africa)
- **David LANGE** (University of Illinois, Urbana-Champaign, USA)
- **Pietro LURA** (EMPA, ETH Zurich, Switzerland)
"3D imaging of moisture distribution and transport in early-age cementitious materials"
- **John POPOVICS** (University of Illinois, Urbana-Champaign, USA)
"New ultrasonic approaches to monitor microstructure development and cracking in concrete"

IMPORTANT DATES

- 15/03/2017:** Abstract submission deadline
- 01/04/2017:** Notification of acceptance of abstract
- 31/05/2017:** Submission of full paper and early bird registration deadline
- 07/07/2017:** Review notification
- 22/07/2017:** Final registration deadline
- 21/08/2017:** Submission of revised full paper.