

# COST action TU1404 WG2 Doctoral Course on MODELLING OF CEMENT-BASED MATERIALS AND STRUCTURES AT EARLY AGE

Gliwice, Poland, 9-13 October 2017

## Organisers:

A. Knoppik (local), F. Benboudjema, M. Wyrzykowski

## Teachers:

A. Knoppik (PL), F. Benboudjema (FR), M. Wyrzykowski (CH), G. Ye (NL) and D. Schlicke (AT)

## Sponsored by:

COST action TU1404, RILEM EAC and Silesian University of Technology

### Aim and scope of the course

COST Action TU1404 will host a doctoral course on “Modelling of cement-based materials and structures at early age”. This course offers an opportunity that is mainly targeted to young researchers and allowing them to have a deep contact with several subjects related to modelling of cement-based materials at different levels (from micro to macroscopic modelling).

### Venue and time

The course will be held during the week of **9-13 October 2017** at the Faculty of Civil Engineering of the Silesian University of Technology in Gliwice, Poland.

### Participants

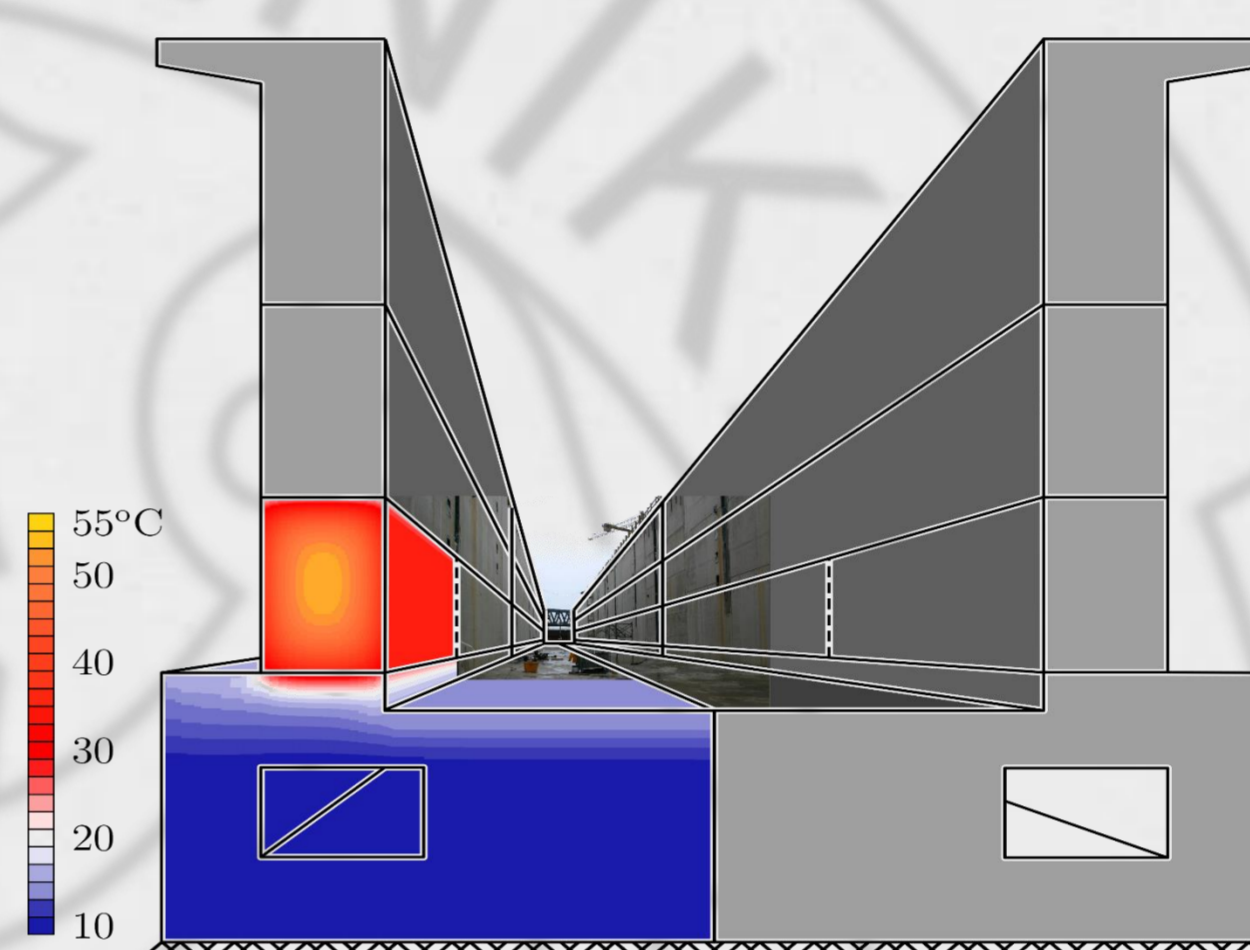
The course is dedicated to your researchers: PhD students, Master students, researchers and practicing engineers with a background in civil engineering, materials science, architectural engineering or similar. All lectures will be given in English.

### Course program

The course will cover topics related to modelling of cement-based materials and structures with a special focus on the aspects of service life:

- Modelling of hydration and temperature evolution (focus on massive structures)
- Modelling of microstructure evolution
- Modelling of shrinkage and creep
- Modelling of cracking
- Numerical methods & conclusions for design
- Modelling of real-life cases and benchmarking

The course will consist of lectures and practical sessions with numerical exercises.



### Work load, evaluation and certificates

The total work load is approximately 140 hours corresponding to 5 ECTS points, including the period at STU, preparatory study of readings given before the course and preparation of a scientific poster which will be exhibited during the course. The posters will be evaluated and the best poster will be awarded. Certificates will be issued based on active participation in the entire course. **Thanks to scientific sponsorship of RILEM, participants will be granted free 3-year RILEM membership.**

### Registration, price and accommodation

The deadline for registration is **15th June 2017** through the course website. Participants will be responsible for travel, meals and accommodation. COST Action TU1404 will predictably support **26 grants of 500€** each (to cover all relevant expenses). The awarded grants will be paid in the form of ‘reimbursement’ after the complete attendance to the course. Applicants will be informed on **30th June 2017** about the acceptance and grants award.

### Further information

Information can be found on the event websites:

[COST action TU1404 Doctoral School 2017 page](#)

[Research Gate Doctoral School 2017 page](#)

[RILEM EAC page](#) and [RILEM calendar](#)

or you may contact the local organiser:

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