

# RILEM SPRING CONVENTION and SUSTAINABLE MATERIALS, SYSTEMS AND STRUCTURES CONFERENCE

Rovinj, Croatia, 18 – 22 March 2019



**SMSS 2019**  
SUSTAINABLE MATERIALS,  
SYSTEMS AND STRUCTURES



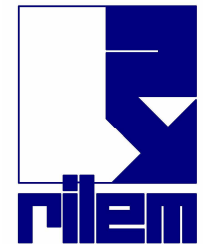
[www.grad.hr/rilem.smss](http://www.grad.hr/rilem.smss)

Organized by:



Sveučilište u Zagrebu  
Građevinski fakultet  
University of Zagreb  
Faculty of civil engineering

Under the auspice of:



Six segments (mini-symposiums):

- ✓ New Generation of Construction Materials
- ✓ **Energy Efficient Building Design and Legislation**
- ✓ Durability, Maintenance and Repair of Structures
- ✓ Challenges in Design and Management of Structures
- ✓ Novel Methods for Characterization of Materials and Structures
- ✓ PhD Symposium



## ENERGY EFFICIENT BUILDING DESIGN AND LEGISLATION

Organizing Committee:

Marina Bagarić, Prof.Dr. Ivana Banjad Pečur, Prof.Dr. Hartwig M. Künzel

### CONTRIBUTIONS TO THE CONFERENCE SEGMENT MAY BE WITHIN – but are not limited to – THE FOLLOWING TOPICS

- Heat, air and moisture transfer – Assessment of the hygrothermal performance of materials, systems and whole buildings
- Thermal energy storage capacity inclusion for building energy optimisation
- The next generation of high efficiency materials and components
- Advanced building envelope systems and construction technologies
- Low energy-, Nearly zero-, Plus-, and Clean-energy buildings
- Smart buildings: Interactive and adaptive built environment (intelligent monitoring and management systems)
- High energy performing renovation and conservation of buildings
- Indoor climate – Thermal comfort, Indoor air quality, Lightening concepts, Acoustics, Visual comfort, Mould growth risk, Human health
- Ventilation strategies, air movement, air-tightness of buildings
- Occupants behaviour and impact on building performance
- Calculated vs. real energy consumption – Causes of discrepancies, Bridging the gap
- Renewable energy sources and management of innovative energy and power generation
- Building Information Modelling (BIM) for enhancing energy performance of buildings
- Building Resilience: Adapting to urban climate and climate change
- Legal framework and policy instruments for implementation of energy directives

✓ **Thank you very much for your kind attention. The Organizing team of RILEM SMSS 2019 is looking forward to welcome you in Rovinj**

✓ **FINAL DEADLINE for submission of abstracts – 1 June 2018**

### HIGHLIGHTS OF THE SEGMENT

- **Scientific Committee** consisting of international renowned scientists and experts
- **confirmed invited speaker: Jens Laustsen**, *Coordinator of the Concerted Action on the Energy Performance of Buildings Directive (DEA)*
- authors of selected papers presented at conference will be invited for **post-conference publication** in **RILEM Technical Letters and Journal of Building Physics**
- supported by **Journal of Building Physics**

