

Syner '18 Crete

International conference on

Interdisciplinary Approaches for Cement-based Materials and Structural Concrete: Synergizing Expertise and Bridging Scales of Space and Time

Funchal, Madeira Island, Portugal
October 24-26, 2018

Final Conference of COST Action TU1404 - "Towards the next generation of standards for service life of cement-based materials and structures"

www.synercrete.com





Motivation and scope

This conference aims at the exploration and establishment of interdisciplinary approaches in the field of concrete engineering as a whole. Focus is given to the optimization and synergy effects brought about by interdisciplinarity.

Interdisciplinarity is hereby understood in both following ways: (i) classical interaction between experts of typical fields within concrete engineering, such as materials science and structural design; (ii) but also the combination with experts from other fields, as robotics, programming/modelling and digital fabrication. On top of this, other specific up-to-date topics with significant interdisciplinarity will be discussed, including computational simulation and design, building information modelling, structural health monitoring and service life assessment, among others.

General topics

- Concrete technology and advanced material testing
- Multi-scale in time and space modelling and experiments
- Multi-physics simulation and structural design
- BIM and structural concrete
- Robotics and cement-based materials
- Digital fabrication
- On-site monitoring and structural condition assessment
- Scientific insights vs. standardization
- New materials: bio-based, geopolymers and alkali-activated materials
- Fibre-reinforced concrete and non-metallic reinforcement

Proceedings

- Full papers will be published in the RILEM Proceedings series
- Open access to the electronic version of the proceedings

Important dates

- Abstract due: **23rd March 2018**
- Acceptance of abstracts: **4th April 2018**
- Full manuscript due: **22nd May 2018**
- Acceptance of full manuscript: **29th June 2018**
- Early Bird registration: **12th July 2018**
- Final manuscript due: **12th July 2018**



Madeira Airport to be visited in the technical tour.



Conference Chairs

Miguel Azenha - University of Minho, Portugal

Dirk Schlicke - Graz Univ. of Technology, Austria

International Scientific Committee Chairs

Farid Benboudjema - ENS Cachan, France

Agnieszka Knoppik - Silesian Univ. of Technology,
Poland

(see the SynerCrete website for full Scientific
Committee)

Institutional support

SynerCrete18 is organized within COST Action
TU1404 (www.tu1404.eu) with support by COST –
European Cooperation in Science and Technology.

The conference is also supported by RILEM,
fib, JCI and ACI, as well as local institutions in
Portugal.



Highlights of the scientific programme

At least five keynote lecturers to be announced soon on the conference website. Besides, outstanding contributions in terms of interdisciplinary will be recognized by an *Interdisciplinarity Award*.

Sponsors

Sponsorship support is welcome and will be duly announced in relevant conference material, as well as exhibition space. For more information on current sponsors and sponsorship opportunities, visit our website.

Registration fees

Final values for registration fees are still under definition. The organization is making significant efforts towards minimizing the price and making this an economically attractive conference, without jeopardizing high quality in all processes. For reference it is announced that early bird registrations for the general public will be 500€ or less. FIB/ RILEM/JCI/ACI members will have a reduced registration fee of 450€ or less.

Members of COST Action TU1404 shall only be requested to support voluntary coffee/break, meals/ banquet and social program fees of 300€ or less.



Venue

Pestana Casino Park, Funchal, Madeira Island, Portugal - Ocean and Spa Hotel. Airport shuttle and other means of transportation regularly available from the airport to the conference venue and back. The conference venue is located at walking distance from the city centre of Funchal.

Technical tours and social programme

Conference dinner with local food and folk dance. Technical visit to Madeira Airport and island tour on 27th Oct 2018.

Secretariat and contacts

info@synercrete.com
Ms Sonia Esteves
+351 253 510 747

www.synercrete.com
twitter.com/synercrete18
facebook.com/synercrete18



ORDEN
DOS
ENGENHEIROS

