

ECF23, European Conference on Fracture 2020

June 27 – July 3, 2020. Funchal, Madeira, Portugal

TC09 Concrete

Thematic Symposium “**Concrete: innovative materials and strategies for structural integrity**” will be organized by Technical Committee 09 of the European Structural Integrity Society within the framework of the 23rd European Conference on Fracture – ECF23 to be held in Funchal, Madeira, Portugal, 27 June – 3 July 2020.

The TC-09 Concrete symposium aims at creating a focus on recent developments and new frontiers in the world of concrete and reinforced concrete buildings. Therefore, the themes will deal with the analysis of all new concrete-based materials and the innovative strategies for structural integrity, in order to provide a platform for knowledge exchange between scientists.

The main topics will be as follows:

- Fracture of Concrete-based Materials
- Fatigue of Concrete-based Materials
- Nano and Microstructure of Concrete-based Materials
- Experimental and Modelling Approaches at the Nanoscale
- Self-Healing Technologies and application
- 3D Printing Technologies for Concrete-based Materials
- Low Carbon Concretes
- Durability
- Structural Rehabilitation of Existing RC buildings
- Innovative Structural Health Monitoring of Concrete Structures
- Seismic Retrofit of Existing Concrete Structures
- Finite Element-based Framework and Civil Engineering Applications
- BIM and Big Data for Civil Engineering Applications

All contributions in the form of extended abstracts will be peer reviewed by the members of TC09 Scientific Committee. Full papers will be published in a special issue of the ESIS scientific journals (Elsevier) upon peer review and acceptance.

Organizing Committee

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Fracture Mechanics and Structural Integrity