

ECF23 - European Conference on Fracture

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

ESIS TC3 - “Fatigue of Engineering Materials and Structures”

The Symposium entitled “**Fracture and fatigue in presence of cracks or stress concentrators**” is organised by the Technical Committee 3 (TC3) of the European Structural Integrity Society (ESIS) within the framework of the 23rd European Conference on Fracture – ECF23, to be held in Funchal, Madeira, Portugal, 27 June – 3 July 2020 (<https://www.ecf23.eu/>).

Main topic

Fracture failure (any failure caused by crack propagation under static loading) and fatigue failure (gradual crack propagation under time-varying loading) are among the most catastrophic failures that structures may experience, since they occur without any warning. When a structural component contains a stress concentrator, failure may be due to growth of a crack starting from the root of such a concentrator.

Failure of structural components weakened by cracks and/or stress concentrators is a research topic examined by many experts, since it deals with a large number of applications in different engineering fields, and is becoming progressively more relevant for technological development of automobiles, aircrafts, pumps, turbines and so on.

Significant contributions from engineers, metallurgists, material scientists are expected, allowing an interesting multidisciplinary discussion.

Please submit your Abstract(s) to both ecf23@ecf23.eu and sabrina.vantadori@unipr.it by February 1, 2020.

All contributions in the form of extended Abstracts will be peer reviewed by the members of the Organising Committee. Further, Full Papers will be selected for a Special Issue of an indexed scientific journal.

Organising Committee

Andrea Carpinteri, University of Parma – Italy (andrea.carpinteri@unipr.it)

Sabrina Vantadori, University of Parma – Italy (sabrina.vantadori@unipr.it)