

ECF23, European Conference on Fracture

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

ESIS TC2 “Micromechanisms”

Symposium “**Micromechanisms of fracture and fatigue**” will be organised by Technical Committee 2 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/>).

The Symposium will bring together researchers developing experimental and modelling approaches to understand and simulate the micromechanisms involved in materials degradation and failure. The main topics will be as follows:

- Experimental and modelling approaches at the atomic scale
- Single crystal defects behaviour during deformation
- Modelling deformation and fracture of polycrystalline materials
- Micromechanisms-informed continuum models for fatigue and fracture
- Methods for bridging between lengths (size) scales
- Experimental and theoretical methods for microstructure analysis
- Quasi-brittle materials – microstructure, properties and modelling
- Bio-materials – microstructure, properties and modelling
- Nano-materials – structure, properties and modelling
- Advances in computational methods across length scales

All contributions in the form of extended abstracts will be peer reviewed by the members of TC2 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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