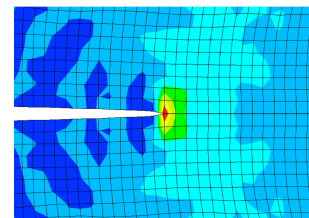


European Conference on Fracture 23 – ECF 23
June 27 – July 3, 2020. Funchal, Madeira, Portugal



TC-5 Dynamics of fracture and structural transformations

Dear Colleagues,

We kindly invite you to participate in the TC5 Minisymposium “Fracture and Structural Transformations under High Rate and Impact Loading” and to submit your abstracts. The Minisymposium is organized by ESIS Technical Committee 5 within the framework of the 23rd European Conference on Fracture – ECF23 to take place in Funchal, Madeira, Portugal June 27 – July 3, 2019 (<https://www.ecf23.eu>). The **NEW** deadline for the abstract submission is **February 28, 2020**.

The key objective of the Minisymposium is to prompt discussion and to enhance collaboration between researchers and specialists working in the area of dynamic fracture mechanics, high-rate and short-pulse loading with a special focus on behavior of materials under extreme loading conditions, experimental and numerical techniques and approaches, multiscale nature of the dynamic fracture processes.

The Minisymposium scope includes the following topics, however this list is not limiting:

- Experimental studies of dynamic fracture
- Approaches/criteria applied for prediction of fracture, irreversible deformations, and structural transformations under dynamic loading conditions
- Numerical simulations of dynamic fracture and structural transformations
- Hierarchy of scale levels and multiscale models of dynamic fracture
- Extreme states of materials and structures, seismic resistance
- Dynamics of fracture via atomistic simulations
- Fundamentals of new engineering standards for dynamic testing of materials
- Dynamic fracture of composites and heterogeneous materials
- Dynamics of fracture in crystals
- Dynamic fracture of discrete systems

A selection of papers presented at this Symposium will be published in a Special Issue of associated ESIS journals.

Important notes!

- When submitting your abstract to ECF23 please mention the name of the Minisymposium - “Fracture and Structural Transformations under High Rate and Impact Loading”.
- Please inform us about your submission/intention to submit so that we could properly plan and organize the Minisymposium’s sessions.

Organizing committee:

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