

## **TC16: Finite Fracture Mechanics**

### **Aims and scopes:**

During the past decade a number of approaches have emerged to allow the prediction of failure initiation at crack and V-notch tips. These methods have in common an intrinsic finite length parameter and are aimed at generalizing the concept of fracture to domains with V-notch corners of any given opening angle and to more general stress concentration points. Three of these approaches are known as the coupled Finite Fracture Mechanics (FFM) approach, the averaged strain energy approach and the theory of critical distances. This symposium is aimed at presenting recent investigations of these topics and strengthen the collaboration between researchers working on the three different approaches.

The main topics will be as follows:

- ❖ New insights on coupled FFM
- ❖ Connection of FFM to other failure criteria
- ❖ Phase field model and FFM
- ❖ Application of FFM in practical engineering problems
- ❖ 3D fracture and connection to FFM

All contributions in the form of extended abstracts will be peer reviewed by the members of TC16 Scientific Committee. Full papers will be published in a special issue of the ESIS scientific journals (Elsevier) upon peer review and acceptance.

### **Organizers:**

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