

ESIS-Workshop on Computational and Experimental Failure Mechanics Joint meeting of TC1 & TC8

BAM Berlin, Germany
June 14-15, 2012

(First Announcement)

The Aim of the Workshop

The ESIS TC1: Fracture Mechanics and TC8: Numerical Methods will organize a joint workshop on materials and failure mechanics. The workshop is an annual meeting of ESIS TCs and serve as a forum for in-depth discussion among colleagues in small circle, who are interested in experimental techniques and computational modeling for materials and component failure. Major aims of the workshop are

- to strengthen the dialogue and improve mutual comprehension among different research groups
- to find out new research focuses in failure mechanics and
- to define future activities within TC1 and TC8.

Relevant new experimental/computational methods, new material failure models and methods for component assessment shall be dealt with in this workshop.

Specific Topics are:

- Micro/meso-scopic modeling of ductile material failure
- Multi-scale modeling of fracture and fatigue
- Fracture and damage mechanics for various applications including fatigue crack propagation and mixed mode cracking
- Concepts for fracture and fatigue assessment of components

Scientific Program

Prospective authors are invited to submit a one-page abstract of contributions for oral presentations **before March 10, 2012**.

The workshop language will be English. Participation of the workshop is free. Authors of accepted contributions will have the opportunity for oral presentations. There will be ample time for detailed discussions. To enhance discussion and informal exchange of ideas, attendance will be limited to about 50 persons. Selected papers will be published in an international journal after peer review.

Please send the confirmation of the participation with a title of your presentation as soon as possible to: blucha@uni-wuppertal.de.

Univ.-Prof. Dr.-Ing. H. Yuan
Department of Mechanical Engineering
Bergische Universität Wuppertal
D-42119 Wuppertal, Germany
Phone: +49-202-439-4724

Prof. Dr.-Ing. U. Zerbst
Bundesanstalt für Materialforschung und
-prüfung (BAM), Berlin
Unter den Eichen 87, 12205 Berlin
Phone: 030-81041531