

General Information

SYMPOSIUM ORGANIZERS

Prof. Erik Bitzek

Department of Materials Science & Engineering, Institute I,
Friedrich-Alexander-Universität Erlangen-Nürnberg FAU

Prof. Sandra Korte-Kertzel

Institute of Physical Metallurgy and Metal Physics,
RWTH Aachen University

Prof. Peter Gumbsch

Fraunhofer-Institut für Werkstoffmechanik IWM, Freiburg

FURTHER INFORMATION

www.eam.fau.de/fundfracture

Twitter: @fundfracture

Email: fundfracture@www.uni-erlangen.de

HOST



Deutsche Physikalische Gesellschaft

www.dpg-physik.de/veranstaltungen/tagungen/index.html



European Research Council
Established by the European Commission

This Symposium is supported by the European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme through the project «microKIC – Microscopic Origins of Fracture Toughness» (grant agreement No 725483).

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FRIEDRICH-ALEXANDER
UNIVERSITÄT
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DPG and EPS Spring Meeting 2018

SYMPOSIUM

Fundamentals of Fracture

11 – 13 March 2018 · Berlin

SAVE THE DATE!



www.eam.fau.de/fundfracture



Joint meeting of the German and the European Physical Societies

Fundamentals of Fracture

This symposium is intended as an international forum for the presentation and discussion of the latest scientific developments regarding the physics and mechanics of fracture.

Rather than addressing specific engineering problems and approaches, this symposium will cover fracture of brittle and semi-brittle materials at a fundamental level, with a focus on crack nucleation and crack-microstructure interactions. We aim at bringing together specialists from the fields of solid state physics, materials science, continuum mechanics, statistical physics and mathematics to cover theory, multi-scale modeling and experiments related to

- Initiation of fracture and crack nucleation
- Grain boundary/fracture and interface cracks
- Crack – obstacle interactions
- Interplay of fracture and plasticity
- Fracture of nanostructures and disordered materials
- Fracture of composites
- Statistical aspects of fracture
- Micromechanical and local approaches to fracture

A special joint session on advanced micro- and nanomechanical fracture testing methods is envisaged with the planned EPS mini-colloquium »Mechanical properties at small scales« organized by Gerhard Dehm, Olivier Thomas and Laurent Pizzagalli.

Invited speakers

Laurent Penson Université Pierre et Marie Curie, Paris, France
James Kermode University of Warwick, UK

David Armstrong Department of Materials, University of Oxford, UK

For an updated list of speakers see
www.eam.fau.de/fundfracture

Important dates

01.12.2017 Deadline for abstract submission

Conference fee estimated · early bird/regular

Students: 100/130 €

Regular Participant: 220/250 €

Reductions for DPG-Members

About the meeting

The Spring Meeting of the German Physical Society DPG is one of the largest Physics congresses in Europe with over 10,000 international participants. The meeting in Berlin is focused on condensed matter physics. The meeting will be held together with the Condensed Matter Division of the European Physical Society EPS, marking the 50th anniversary of the EPS.

Conference venue

Berlin, the capital of Germany, is a vibrant cosmopolitan city, full of history, renowned for its flourishing cultural scene and relaxed way of life. As continental hub for air and rail traffic, Berlin is easily reachable and its public transportation system allows for quick access to the conference venue and tourist attractions.

The conference will take place at the
Technische Universität Berlin
Straße des 17. Juni 135 · 10623 Berlin

