



1st FRASCAL Virtual Colloquium

**Recent Advances in Computational
Modeling of Fracture at Various Length
and Time Scales**

Weekly **zoom** lectures

Thursdays, April 22nd - July 22nd, 2021

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April

- 22.04.** **Alexander Hartmaier**, Ruhr-Universität Bochum, Germany
14:00 *Bridging the scales in fracture and damage mechanics*
- 29.04.** **Haim Waisman**, Columbia University, USA
14:00 *Computational modeling and design optimization of structures using the phase field fracture method*

May

- 06.05.** **Soumyajyoti Biswas**, SRM University, India
14:00 *Predictability of failure in disordered solids using fiber bundle modelers*
- 20.05.** **José-Daniel Muñoz**, National University of Colombia, Colombia
14:00 *How disorder affects the failure: Fractures on models inspired by bamboo *Guadua angustifolia**
- 27.05.** **Johan Gaume**, EPFL, Switzerland
14:00 *From sub-Rayleigh anticrack to supershear crack propagation in snow slab avalanche release*

June

- 10.06.** **Anna Pandolfi**, Politecnico di Milano, Italy
14:00 *Modelling fracture with eigenerosion versus phase-field*
- 17.06.** **Lars Pastewka**, Albert-Ludwigs-Universität Freiburg, Germany
14:00 *Fracture of random media from atoms to the continuum*
- 24.06.** **René de Borst**, University of Sheffield, United Kingdom
14:00 *Discrete and smeared approaches in computational fracture mechanics*

July

- 01.07.** **Kerstin Weinberg**, Universität Siegen, Germany
14:00 *Phase-field fracture models for linearized and finite elasticity*
- 08.07.** **Nikhil Chandra Admal**, University of Illinois Urbana-Champaign, USA
15:00 *Continuum modeling of grain boundary plasticity using dislocations and disconnections*
- 15.07.** **Ahmad Moghimikheirabadi**, ETH Zürich, Switzerland
14:00 *Ionic polymer nanocomposites under deformation*
- 22.07.** **Robert Meißner**, Technische Universität Hamburg and Helmholtz-Zentrum Geesthacht, Germany
14:00 *A molecular simulation approach of epoxy resins: From curing to deformation and fracture*

