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Announcements:

Februar 14, 2020
3rd RTG Seminar, Seminar room 00.044, LTM

March 12 and 13, 2020
2nd Visitors Workshop, Schloss Atzelsberg
Online registration:

www.frascal.research.fau.eu/events-2/events/2nd-visitors-workshop/

FRIEDRICH-ALEXANDER UNIVERSITÄT ERLANGEN-NÜRNBERG

Research Training Group
GRK 2423

Fracture across Scales

2nd RTG SEMINAR

Friday, December 13, 2019

Seminar Room 00.044, LTM
Egerlandstraße 5, 91058 Erlangen

ZISC Zentralinstitut SCIENTIFIC COMPUTING

FRASCAL GRK 2423

PROGRAMME

09:50 - 10:00 WELCOME & INTRODUCTION
Prof. Erik Bitzek (co-spokesperson)

10:00 - 10:20 Christian Wick (P12)
Breaking Bonds in Epoxy Networks

10:20 - 10:40 Sukhminder Singh (P11)
Gradient-Based Material Optimization for Fracture Control

10:40 - 11:00 Elmira Birang (P10)
Atomistic Configurational Forces: An Analysis Tool for Crack Propagation in Molecular Dynamics

11:00 - 11:20 COFFE BREAK

11:20 - 11:40 Ina Schmidt (P10)
Computational Bone Remodeling Dependent on Biological Availability

11:40 - 12:00 Dimosthenis Floros (P10)
On Configurational Forces for Gradient-Enhanced Inelasticity

12:00 - 12:20 Julian Konrad (P3)
Development of a Dissociative Force Field for Fracture Mechanics of Epoxy Resins

12:20 - 13:20 LUNCH BREAK

PROGRAMME

13:20 - 13:40 Achraf Atila (P2)
Atomistic Study of Mechanical and Structural Anisotropy of Metaphosphate Glasses

13:40 - 14:00 Tarakeshwar Lakshmipathy (P2)
Influence of Crack Tip Radius on Fracture Behaviour: An Atomistic Study

14:00 - 14:20 Tobias Müller (P1)
Chemistry at the Crack Tip

14:20 - 14:40 Florian Wullschläger (P1)
Mechanical and Chemical Properties of 2D Materials

15:00 - 20:00 One Year GRK 2423 FRASCAL
- A Review -