

LOCATION

Fraunhofer-Forschungscampus

Fraunhofer-Platz 1
91344 Waischenfeld

For the transfer to and from Waischenfeld there is a rented coach for registered participants:

Departure on **September 14 at 8:30 a.m.**
at Cauerstraße, Erlangen

Departure on **September 15, 2020 at 5:30 p.m.**
at Fraunhofer-Forschungscampus, Waischenfeld

Otherwise:

By car:

Coming from the A73 take the exit in Forchheim and follow the B470 in eastern direction until Muggendorf. Turn left at the entrance to the village, then right and in the village left up over the Dooser Berg straight on over the crossroads down to Doos in the Wiesental. Turn left towards Waischenfeld. There in the centre of the village turn right over the Wiesent, then right again and straight on for 200 m. The Forschungscampus is located on the left side. Coming from the A9, take the exit Trockau and follow the St2184 towards Ahorntal. In Freiahorn turn left and drive via Kirchahorn to Waischenfeld. The Forschungscampus is located 50 m after entering the town on the right hand side.

By public transport:

Waischenfeld can be reached with the VGN bus lines 233 (from Ebermannstadt), 343 (from Neuhaus/Peg.), 375 and 396 (from Bayreuth). Depending on the bus stop, it is 100 - 500 m on foot to the campus. More detailed information on stops and travel times can be found on the pages of the Nuremberg metropolitan area transport association.

CONTACT

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Research Training Group
GRK 2423

Fracture across Scales

1st RTG RETREAT & 4th RTG SEMINAR

September 14-15, 2020

Forschungscampus Waischenfeld
Fraunhofer-Platz 1, Waischenfeld



PROGRAMME

Monday, September 14

09:45 - 10:15 Check In & Coffee

10:15 - 10:30 Welcome & Introduction
Prof. Paul Steinmann (spokesperson)

10:30 - 11:00 Ali Mauricio Velasco Sabogal (P4)
Multi-Scale Fractures on Granular Materials

11:00 - 11:30 Jonas Ritter (P5)
Validation of a Peridynamic Model for Simulating Porous Materials

11:30 - 11:45 Coffee Break

11:45 - 12:15 Christof Bauer (P6)
Multiple Particle-Based Regions within a Continuum: Substituting FE with MD

12:15 - 12:45 Nosaibeh Esfandiary (P7)
Failure and Crack Localization in Hierarchical Materials Adhesion

12:45 - 14:15 Lunch Break

14:15 - 15:15 Suddenly PhD, now what?
After the doctorate: academic career or in industry? CVs and experiences of Ralf Meske, Bernd Meyer, Dirk Zahn, Thorsten Pöschel

15:30 - 19:00 Hiking

from 19:00 Barbecue

PROGRAMME

Tuesday, September 15

08:00 - 09:00 Breakfast

09:10 - 09:40 Paras Kumar (P8)
Size-Effects in Nano-Composites: IECH vs. GICH

09:40 - 10:10 Elmira Birang (P10)
Configurational Mechanics of Crack Growth in Crystalline Lattice Structures

10:10 - 10:40 As there's no cash to splash, where should the funding come from?
What possibilities are there for acquiring funding directly after the doctoral thesis? Paul Steinmann

10:40 - 11:00 Coffee Break

11:00 - 12:00 User Groups / Data Management
Presentation of the results of the user group meetings with subsequent discussion Paras Kumar, Sebastian Pfaller, Stefan Hiemer

12:00 - 13:30 Lunch Break

13:30 - 14:00 Sukhminder Singh (P11)
Material Optimization for Controlling Interfacial Damage in Composite Structures

14:00 - 14:30 Christian Wick (P12)
Computational Modeling of Epoxy Networks

14:30 - 15:00 Tobias Müller (P1)
The Quest for the Correct Boundary Conditions

15:00 - 15:30 Coffee Break

15:30 - 16:00 Tarakeshwar Lakshmipathy (P2)
Influence of Crack Tip Radius on Fracture Toughness: An Atomistic Study

16:00 - 16:30 Julian Konrad (P3)
Polymer Fracture Mechanics Based on Dissociative Force Field

16:30 - 17:10 Outlook & Closing