

Venue

Naturhotel Lindenhof
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TECHNISCHE UNIVERSITÄT
BERGAKADEMIE FREIBERG
Die Ressourcenuniversität. Seit 1765.



Spring Retreat in Holzgau

from 11th to 13th March 2015

Institute of Mechanics and Fluid
Dynamics

Applied Mechanics
Solid Mechanics

Prof. Dr. rer. nat. habil.
Meinhard Kuna

Wednesday, 11th March 2015

08:30 **Arrival / Registration**
 09:00 **Opening**
 09:15 Sergii Kozinov
 Numerical analysis of ferroelectric actuator fracture taking into account cohesive zone for damage accumulation
 10:15 **Coffee Break**
 10:30 Marcel Selent
 Experimental and numerical investigations on the creep behaviour of heat-resisting chromium steel X10CrMoVNb9-1 by means of Small Punch Test
 11:30 Stefan Soltysiak
 Determination of creep parameters of Al₂O₃-C using miniaturized and standard sized specimen
 12:30 **Lunch**
 time for individual discussions and leisure activities
 (Hiking, Swimming, Bicycling...)
 16:00 **Coffee Break**
 16:15 Christian Ludwig
 Coupled thermal mechanical analysis
 17:15 Thomas Liedke
 The SPH method and its coupling to polyhedral discrete elements
 18:15 Meinhard Kuna
 40 Jahre Finite Elemente in der Bruchmechanik – historische Rückblicke und Einsichten
 19:15 **Dinner**

Thursday, 12th March 2015

07:30 **Breakfast**
 08:30 Dongshuang Zhang
 Failure limit surface of ceramic foams based on Kelvin cell models under complex global loading
 09:30 Johannes Storm
 Impact of foam morphology and topology on effective behaviour
 10:30 **Coffee Break**
 10:45 Martin Abendroth
 Damage Modelling in Open-Cell Foams
 11:45 Jarno Hein
 Thermally shocked layered ceramic with cohesive zones
 12:45 **Lunch**
 time for individual discussions and leisure activities
 (Hiking, Swimming, Bicycling...)
 16:00 **Coffee Break**
 16:15 Lutz Zybell
 A master curve concept for retardation effects after overloads
 17:15 Daniel Gloger
 Stoßbiegeversuch von Großproben
 18:15 Frank Rabold
 A basic concept for finite element simulation of fatigue crack growth with ProCrack considering elastic-plastic material behavior.
 19:15 **Dinner**
 20:00 **Bowling**

Friday, 13th March 2015

07:30 **Breakfast**
 08:30 Michael Budnitzki
 The phase field method
 09:30 Geralf Hütter
 Micromorphic Homogenisation of Porous Media: Application to Size Effects of Foams under Bending and Torsion
 10:30 **Coffee Break**
 10:45 Thomas Hensl
 Homogenization: From the Eshelby-solution to a polycrystal
 11:45 Andreas Seupel
 A model for ductile damage of TRIP-Steel
 12:45 **Lunch**
 14:00 Andreas Burgold
 Influence of martensite formation on fracture processes in TRIP-steels
 15:00 **Closing**
 15:15 **Departure**