

Tuesday, 07th October 2014

10:30 **Arrival / Registration**

11:00 **Opening**

11:15 Andreas Seupel
Phenomenological Modeling of TRIP-Steel and TRIP-Matrix-Composites

12:15 Andreas Burgold
Modeling of the cyclic deformation behavior of austenitic TRIP-steels

13:15 **Lunch**

time for
individual discussions and
leisure activities
(Hiking, Swimming, Bicycling...)

16:15 **Coffee Break**

16:30 Sergii Kozinov
Analytical solution for periodic set of the semi-permeable cracks at the interface of two piezoelectric materials OR
Computational modeling of crack initiation and development in multilayer actuators

17:30 Thomas Hensl
An eigenstrain approach to predict phase transformation and self-accommodation in partially stabilized zirconia

18:30 Uwe Mühlich
Influence of the randomness in topology, geometry and material properties on the mechanical response of elastic networks

19:30 **Dinner**

Wednesday, 08th October 2014

07:30 **Breakfast**

08:30 Dongshuang Zhang
The comparison of different failure criterion for Kelvin cell

09:30 Johannes Storm
Determine homogenised, anisotropic yield surfaces of RVEs from six FE-simulations

10:30 **Coffee Break**

10:45 Martin Abendroth
Fracture mechanical assessment of ceramic foams under multi axial loading

11:45 Stefan Soltysiak
Determination of creep parameters of Al₂O₃-C using miniaturized and standard sized specimen

12:45 **Lunch**

time for
individual discussions and
leisure activities
(Hiking, Swimming, Bicycling...)

16:45 **Coffee Break**

17:00 Frank Rabold
Everything You Always Wanted to Know About ProCrack*
(*But Were Afraid to Ask)

18:00 Christian Ludwig
Electrical analysis in Abaqus

19:00 **Dinner**

Thursday, 09th October 2014

07:30 **Breakfast**

08:30 Marcel Selent
HT-SPT and C(W)-Specimen-Concept for mechanical investigation of a HVOF sprayed nickel-base superalloy coating and coating-substrate bond

09:30 Lutz Zybell
Overload effects during fatigue crack growth in nodular cast iron – simulation with an extended strip-yield model

10:30 **Coffee Break**

10:45 Daniel Gloger
Error analysis of the submodeling technique for static and dynamic crack analysis

11:45 Jarno Hein
Thermoelastic J-integral for functionally graded and temperature dependent material

12:45 **Lunch**

13:45 Open discussion: Challenges for our institute

14:45 **Closing**

15:00 **Departure**