

Wednesday, 5th October 2011

9:00 **Arrival / Registration**

9:10 **Opening**

9:20 *A Novel Network Model for Fluid Flow in Porous Media*
Dongshuang Zhang

9:50 *Implementation of a continuum damage model within the framework of strain gradient elasticity*
Uwe Mühlich

10:30 **Coffee break**

10:50 *Introduction to 3D Dislocation Dynamics*
Tianxiang Liu

11:30 *Molecular dynamics study of crack/void interaction*
Abdolhamid Attaran

12:30 **Lunch**

Time for Individual Discussions and Leisure Activities

17:30 *Miscellaneous*
Michael Budnitzki

18:10 *Influence of material and interface properties on the phase transformation capabilities of TRIP-matrix composites*
Stefan Prüger

19:00 **Dinner**

Thursday, 6th October 2011

7:30 **Breakfast**

8:30 *Concepts to actuate self regulating multicomponent materials*
Marco Menzer

9:10 *Piezoelectric sensor for in-situ measurement of stress intensity factors*
Dennis Bäcker

9:50 *Inifinite submodels as reference for displacement based submodels with cracks*
Daniel Gloger

10:30 **Coffee break**

10:50 *Status of the project "AFP-Steels"*
Thomas Leibelt

11:30 *Modeling and finite element analysis on in-service welding of gas pipelines*
Felix Koch

12:30 **Lunch**

Time for Individual Discussions and Leisure Activities

17:30 *Simulation of Crack Propagation with Competing Brittle and Ductile Damage*
Geralf Hütter

18:10 *Cell model simulations of ductile materials including nonlocal softening due to second void population*
Lutz Zybll

19:00 **Dinner**

Friday, 7th October 2011

7:30 **Breakfast**

8:30 *Random tessellations - Models for cellular materials*
Tilo Sieber

9:10 *Modeling the mechanical properties of open-cell foams*
Thomas Liedke

9:50 *Modelling and meshing of foam structures*
Johannes Storm

10:30 **Coffee break**

10:50 *Design of CMP-Tools*
Christian Ludwig

11:30 *Thermal shock resistance optimization of layered refractory materials*
Jarno Hein

12:30 **Lunch**

13:30 *Determination of temperature dependent fracture toughness of ceramic filter materials*
Stefan Soltysiak

14:10 **Departure**