Workshop

Micro-Macro-Interactions in Structured Media and Particle Systems November 8-9, 2013 in the Hotel "Weißer Hirsch" in Wernigerode

Small travel guide

Meeting:	Friday at 07:50 in the central hall of	f the central station Magdeburg
Journey:	the train leaves central station	at 08:10 from platform 5a
	we have to change trains in Halbers	tadt
	we'll arrive in Wernigerode	at 09:17
Return Journey:	the train leaves Wernigerode	at 13:38
	and arrives in Magdeburg Hbf	at 14:44

<u>Program</u>

<u>Friday</u>

09:40 Welcome Coffee

10:00 Opening

	Chair: D. Zöllner	
10:05	N. Vorhauer	Capillary film flow in 2D SiO2 pore networks - influence on phase distributions and drying rates
10:25	K. Held	Iterative solution of a coupled bulk-surface convention-diffusion problem
10:45	Y. Sun	Pore-scale simulation and experiment of liquid imbibition in etched-glass micromodel
11:00	V. Ssemaganda	The Riemann problem for a model of disperse vapor bubbles in a liquid

11:20 Short Break

Chair: V. Ssemaganda

11:35 A. Kutschke	9%-12% chromium steels micro structural observations and modeling consequences
11:50 D. Zöllner	Grain boundary migration in polycrystalline graphene
12:10 A. Maimaiti	Simulation of polycrystalline material at creep conditions
12:30 J.C. Reiher	Introduction

12:40 Lunch

13:40 Excursions through the City

Chair: K. Held

16:00 Board Meeting & Presentation of Posters (2-3 minutes each)

S. Dodla	Finite element simulations of lamellae Cu-Ag composites
R. Gröpler	Numerical simulation of lime calcination in normal shaft kilns
M. Hussain	Modeling effect of process parameters on spray fluidized bed aggregation kinetics

M. Ievdokymov	tba
K. Kavaliou	Relaxation of mesh assumptions for P^1 discretization of the Convective-Diffusive problem with Neumann boundary conditions
K. Mader-Arndt	Direct measurement and model-based back-calculation of micromechanical material properties of glass particles
O. Olatunji	Stability determination of surface modified Al2O3 and TiO2 suspensions
O. Ozhoga-Maslovskaja Creep damage evolution under non-proportional loading	
P. Penumakala	Thermomechnical simulation of continuous casting in mold
O. Prygorniev	Statistical research of polycrystalline model
E. Tohidlou	Hardening parameters identification for a Nickel single crystal with crystal plasticity

16:30 Poster session with coffee and cake

18:45 Meeting for Dinner → 19:00 Dinner @ Brauhaus

<u>Saturday</u>

Chair: O. Olatunji

08:30	I. Lvov	Micro-macro analysis of creep behaviour in a multipass weld
08:45	A. Girchenko	Modeling of micro- and nanostructures made of films and crystals/fibers arrays
09:05	M. Dadkhah	Morphological characterization of agglomerates produced in a spray fluidized bed by X-ray tomography
09:20	R. Pashminehazar	Microstructure of particles produced by fluidized bed agglomeration of soft materials
09:30	G.S. Sandaka	Decompositon behavior of lumpy limestones from different Origins
09:50	J. Köppel	Introduction

10:00 Coffee Break

Chair: S. Roy	
10:50 P.G. Thiem	Plasma sprayed iron aluminide coatings on aluminum alloy Substrates
11:05 P. Dragomirov	Mikro-Makro-Spraycharakterisierung alternativer Dieselkraftstoffe
11:15 M. Weber	Material plasticity
11:35 S. Roy	A microscale modelling approach to deformation twinning – limitations and potentials
11:55 J. Kalisch	Non-negative approximations of the crystallographic texture and the convergence of solutions
12:15 H. Chowdhury	Introduction
12:25 Closing Remarks	

12:30 Lunch