



GRK 2012–Winter Workshop • Venue: Hotel Acarte Weimar • Date : 30th Nov to 1st Dec, 2012

Programme

Friday, 30.11.2012

06:50 Meeting at the main entrance of Magdeburg main train station

07:07 09:36 Travel from Magdeburg to Weimar

09:55 10:25 Mini breakfast

Session Chair : Dr. Vincent Ssemaganda

10:25	10:45	Jan Kalisch	Description, influence and evolution of the crystallographic texture in terms of harmonic tensors
10:45	11:00	Srihari Dodla	Compression tests of lamellar copper silver composites
11:00	11:15	Shyamal Roy	A theoretical approach to modelling the multiple deformation twinning
11:15	11:35	Sebastian Borsch	Two-scale modeling of a polymeric composite
11:35	11:50	Esmael Tohidlou	Grain refinement of a metal single crystal by ECAP processing
11:50	12:05	Martin Weber	Material plasticity using the example of fiber-reinforced materials
12:05	12:25	Pavan K. Penumakala	Modeling thermal stresses in continuous casting of steel

12:25 13:20 Lunch break

Session Chair : Robin Gröpler

13:20	13:35	Stephan Baer	Spray characterisation of intermittent spray and inverse heat conduction problem
13:35	13:55	Florian Schulz	Investigation of fuel wall films using Laser-induced-fluorescence
13:55	14:10	Sandaka Gourisankar	Experiments and modeling of Lime calcination process
14:10	14:40	Mubashir Hussain	Modeling the micro-macro transition in spray fluid bed granulation

14:40 17:00 City tour

17:00 17:30 Afternoon coffee break

Session Chair : Kristin Held

17:30	17:45	Maryam S. Dadkhah	Morphological characterization of agglomerates by X-ray tomography
17:45	18:10	Dr. Abdolreza Kharaghani	Modeling droplet evolution on a porous particle as micro-scale process in fluidized bed spray
18:10	18:25	Yujing Wang	Understanding film effect
18:25	18:40	Zinaida Kutelova	Effect of the surface modification on the physical and mechanical properties of micro glass particles
18:40	18:55	Olakunle N. Olatunji	Dynamics of Steric-stabilized Nanoparticles' Sediments

19:30 Dinner at Gaststätte Schwaneseeschlößchen

Saturday, 01.12.2012

Session Chair : Esmael Tohidlou

08:00	08:20	Klim Kovalev	Boundary element method for accelerating free surface shape computations
08:20	08:35	Kristin Held	Unique solvability of the time dependent and the stationary form of a coupled bulk surface equation
08:35	08:50	Robin Gröpler	Simulation of lime calcination in normal and mixed-feed shaft kilns
08:50	09:15	Ee Han	Modelling phase transition for compressible two phase flows
09:15	09:35	Dr. Vincent Ssemaganda	Mixture balance laws for fluid flows with phase transition
09:35	10:00	Andreas Kutschke	Material Models for polymers - discrepancies and similarities to material models for metals

10:00 10:30 **Morning coffee break**

Session Chair : Stephan Baer

10:30	10:45	Oleksandr Prygorniev	Statistical analysis of models based on Voronoi tessellation
10:45	11:05	Anna Girchenko	Instability of a piezoelectric helical shell under electrical field
11:05	11:20	Ivan Lvov	Micro-mechanical analysis of creep behaviour in a multipass welds
11:20	11:40	Oksana Ozhoga-Maslovskaja	Creep rupture tests under polycrystalline high purity Copper at high temperature
11:40	11:55	Mykola Ievdokymov	Investigation of the strain localization behavior with application of the phase field approach
11:55	12:10	Adil Mamat	Creep model of two phase polycrystalline material

12:10 13:00 **Lunch break**

13:00 13:45 **Meeting for Professors / Coffee for others**
13:45 16:00 **Visit to the Buchenwald concentration camp**
16:55 19:40 **Train to Magdeburg**
