

Materials Day 2009

Program

Thursday, October 1 st : HS 224, Stremayrgasse 16	
09:00	Franziska Mendez-Martin: "Microstructure stability of 12%Cr Steel for Fossil Power Plants: Experimental Research and Simulations"
09:20	Roman Pschera: "Problems in modelling the damage behaviour of steel during hot forming with a special focus on the rolling of seamless pipes"
09:40	Pavel Sherstnev: "Physical based microstructure modelling during the hot rolling of aluminium alloys"
10:00	Florian Mittermayr: "Micro-Structural Damage of Concrete Material by Chemical Alteration"
10:20	Barbara Rupp: "Photochemical cross-linking for tailoring mechanical properties of polymers"
10:40	Coffee Break
11:00	Toni Uusimäki: "Electron tomography"
11:20	Herbert Reingruber: "The ESEM and Water - Prospects and Limits"
11:40	Thomas Rath: Nanocomposit Solar Cells
1200	Wernfried Haas: "Electron microscopy as a tool for morphology control in nanocomposite solar cells"
1220	Lunch Break
1330	Manfred Gruber: "A Drift-Diffusion Model for Simulating Morphology Effects in Organic and Hybrid Solar Cells"
1350	Peter Lichtenberger: "Graphene, a Candidate for Future Nano-Electronics: Kinetic Simulation of the Charge Carrier Transport"
1410	Johanna Stettner: Preparation and Characterization of Self Assembled Monolayers
1430	Heinz-Georg Flesch: Structure and morphology of quinquethiophene based self assembled monolayers
1450	Oliver Hofmann: Interfaces between metal surfaces and strong donors and acceptors
1510	Coffee Break
1530	Anna Fulterer: Fascinating Physics of High Temperature Superconductors (Arrigoni)
1550	Werner Krauss: Piezoelectric properties and phase transition temperature of the lead-free ceramic system $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3 - \text{SrTiO}_3$
1610	Denis Schütz: Phase relations and chemical modification of bismuth based ferroelectrics in contact with Ag/Pd electrodes
1630	Open Discussion
1700	<p style="text-align: center;">Invited Lecture Prof. Jürgen Rödel, TU Darmstadt: Development of new lead-free piezoceramics</p>
1830	Post-Lecture Meeting