

Thursday, 20th April 2017



13:00	Registration	
13:25	Opening	
Session 1 – Life Sciences		
13:30	Dietmar Pum (BOKU, Wien)	S-layer proteins (invited)
14:00	FEI: Ben Lich 	Cryo EM workflows for Single Particle Analysis and Tomography of hydrated, intact cells
14:15	Philipp Steiner (Univ. Salzburg)	Stress induced fusion of mitochondria visualized by electron tomography in plants
14:30	Sabrina Oberwegser (Univ. Innsbruck)	Tsunami transpacific – TEM investigations in a newly-discovered red algal genus colonizing Japanese tsunami debris
14:45	Margret Eckhard (Univ. Wien)	How to preserve a moss for element analysis? Different ways of preparation for electron microscopy
15:00	Daniel Serwas (Univ. Wien)	How Cells Build Their Antenna: Centrioles Initiate Cilia Assembly, But Are Dispensable for Cilia Maturation and Maintenance
15:15	David Kleindienst (IST Austria)	Compartment-specific association of GABAB receptors and their effector ion channels in cerebellar Purkinje cells
15:30	Gatan: A. Kastenmüller 	Recent technology improvements for Electron Microscopy
15:45	Coffee break and Poster	
Session 2 – Materials Sciences		
16:15	Fritz-Grasnik Preisvortrag: Markus Herbst (Univ. Salzburg)	Characterization of the Vasa vasorum in the human great saphenous vein by SEM and 3D-morphometry of vascular corrosion casts
16:45	Tia Truglas (CEST, Wiener Neustadt)	The effects of double annealing on medium manganese steel
17:00	Tomasz Wojcik (TU Wien)	Phase characterization in Ni-base superalloy Rene 65
17:15	Christian Ebner (Univ. Wien)	Viscoelastic stress relaxation of TlAl thin film under tension measured by selected area electron diffraction
17:30	JEOL: Georg Raggel 	The JIB-4700F - JEOLs new high performance FIB multi-beam system
17:45	Ulrich Haselmann (ESI Leoben)	HRTEM study of Ca doped Bismuth Ferrite
18:00	Bernhard Bayer (Univ. Wien)	Introducing overlapping grain boundaries in chemical vapor deposited hexagonal boron nitride monolayer films
18:15	Stefan Pfeiffer (TU Wien)	Combined analytical TEM and magnetic investigation of the effects of neutron irradiation on Nb ₃ Sn superconductors
18:30	Poster	
19:30	Workshop dinner	
22:00		

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Session 3 – Life Sciences		
08:30	Zaoli Zhang (ESI Leoben)	Advanced characterization of materials using atomic resolution TEM
09:00	Mariella Sele (MedUni Graz)	High Resolution Visualisation of Iron Deposits in the Human Brain in Health and Disease
09:15	Christooph Dibiasi (MedUni Wien)	Impact of fibrinogen concentration on blood clot formation
09:30	Leica: Robert Ranner 	Optimized sample preparation by using a correct workflow
09:45	Virginie Hubert (MedUni Wien)	Using electron microscopy as a method to monitor autophagy
10:00	Stefan Schulz (MedUni Wien)	Serum derived exosomes as a putative diagnostic tool for ANCA associated vasculitis
10:15	Carolina Borges-Merjane (IST Austria)	Flash and Freeze: combining high-pressure freezing and optogenetics to evaluate synaptic transmission
10:30	Jacek Plewka (BOKU Wien)	SEM on agarose-based chromatographic beads – how to recalculate a reference SAXS scattering signal from an image
10:45	Coffee break and Poster	
Session 4 – Materials Sciences		
11:15	Michal Horak (TU Brünn)	Babinet principle for plasmonic antennas: complementarity and differences
11:30	Franz-Philipp Schmidt (Uni Graz)	Hybrid plasmonics: From plasmon-plasmon to plasmon-exciton coupling
11:45	Wolfgang Wallisch (TU Wien)	Influences of the CMR effect on dielectric properties
12:00	Semir Tulic (Uni Wien)	Reaction of Ni and C thin films studied by TEM and SEM
12:15	ZEISS: Wolfgang Schwinger 	Analytical FIB-SEM Tomography without Compromises
12:30	Robert Srimitzer (TU Graz)	Dealing with light refraction in 3D mapping in combined Raman/SEM
12:45	Philipp Siedlacek (BOKU Wien)	SEM Characterization of functionalized Carbon Nanotubes
13:00	Robert Winkler (TU Graz)	FEBID Based Direct-Write of 3D Plasmonic Gold Structures
13:15	Jürgen Sattelkow (TU Graz)	Direct-Write Fabrication of Electric and Thermal High-Resolution Nanoprobes on Self-Sensing AFM Cantilever
13:30	Snacks and Farewell	

Posters:

Martin Meischel (BOKU Wien)	Nanoscale studies of mechanical properties of rat bones around biodegradable implants
Stefan Löffler (TU Wien)	Convergent-Beam EMCD: Efficient Magnetic Measurements on the Nanoscale
Thomas Schachinger (TU Wien)	Vortex Filter EMCD: Towards an Alternative EMCD Approach
Christoffer Müller (Univ. Wien)	Flash-annealed CuZr based bulk metallic glass studied by electron microscopy methods
Harald Fitzek (TU Graz)	Understanding surface enhanced Raman spectroscopy using accurate simulations of electric nearfields
Cornelia Trummer (TU Graz)	Preparation of Transmission Electron Microscopy Samples by Mechanical Techniques in Combination with Low-Voltage Ion Milling
Daniel Knez (TU Graz)	In situ studies of high-purity mono- and bimetallic nanostructures in experiment and simulation
Manfred Nachtnebel (TU Graz)	Polymer fracture – What can the 3D reconstruction of the crack region tell us about the microscopic fracture mechanisms
Martina Dienstleder (TU Graz)	Challenges in sample preparation for HRSTEM analysis
Angelina Orthacker (TU Graz)	Investigation of the non-equilibrium formation of stoichiometric precipitates in multi-component aluminium alloys
Stefan Geyer (MedUni Wien)	High resolution episcopic microscopy (HREM): a tool for 3D imaging of organic materials
Thomas Götsch (Univ. Innsbruck)	The Electronic Phase Diagram of YSZ
Stefan Noisternig (Univ. Wien)	Lamellae in FeAl deformed under hydrostatic pressure
Katharina Keuenhof (IMBA Wien)	Preparation Methods of Biological Samples: a Comparison of Chemical Fixation and High-Pressure Freezing (HPF)
Eveline Fisselthaler (TU Graz)	Quantitative Analysis of Internal Interfaces: Structural and quantitative analysis via High resolution STEM
Walid Hetaba (HMI Berlin)	t.b.a.