Friday, April 14, 2023

TIME	PROGRAMME
09:00	**Kolb, D.** / Core Facility Ultrastructure Analysis, Graz, Austria; Gottfried Schatz Research Center for Cell Signaling, Metabolism and Aging, Division of Cell Biology, Histology and Embryology, Medical University of Graz, Graz, Austria. *"The deadly kiss" - An Ultrastructural investigation of stressed beta cells within the endocrine pancreas using Correlative Electron Microscopy - From STEM to TEM*
09:25	**Mairhofer, T.** / Institute of Electron Microscopy and Nanoanalysis, TU Graz, Graz, Austria *Differential phase contrast (DPC) STEM – From imaging magnetic domains to ferroelectric domain walls and oxygen vacancies.*
09:37	**Brozyniak, A.** / Christian Doppler Laboratory for Nanoscale Phase Transformations, Center for Surface and Nanoanalytics, Johannes Kepler University Linz, Linz, Austria *Improving the quality of TEM-Diffraction Patterns using Precession Electron Diffraction and Energy Filtering*
09:49	**Koppensteiner, P.** / Institute of Science and Technology Austria (ISTA) *"Flash and Freeze-fracture": A method for the direct visualization of activity-dependent structural and molecular processes on millisecond and nanometer scales*
10:01	**Raggl, G.** / JEOL (Germany) GmbH *JEOL's new high-end focused ion beam system JIB-PS500i for safe and smooth preparation of lamella for high-end TEM imaging*
10:15	**Coffee break**
10:45	**Schmidt, T.** / Hitachi High-Tech Europe GmbH, Krefeld, Germany *From Skin to Virus: New Life- and Material-Science Application Data on 120kV TEM*
10:57	**Ražnjević, S.** / Erich Schmid Institute of Materials Science, Leoben, Austria *Electron beam induced Brownmillerite – Perovskite phase transition in La0.6Sr0.4CoO3-*
11:09	**Steiner, P.** / Institute of Pharmacology, JKU Linz, Austria *Ultrastructural insights after novel pharmacological impairment of endolysosomal Ca2+ channels*
11:21	**Summerauer, S.** / Medical University of Graz, Department of Cell Biology, Histology and Embryology, Graz, Austria *The effects of autolysis on human brain tissue and iron storage in ferritin, based on immunogold labeling and analytical electron microscopy*
11:33	**Martínez, K.** / Christian Doppler Laboratory for Nanoscale Phase Transformations, Center for Surface and Nanoanalytics, Johannes Kepler University Linz, Linz, Austria. *Influence of preparation for in situ TEM heating experiments on the thermal stability of MBE and CVD GeSn epilayers*
11:45	**Schwinger, W.** / Carl Zeiss GmbH, Vienna, Austria *New Methods for 3D Characterization in Material and Life Science*
12:00	**Lunch break**

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13:00	**Reipert, S.** / CIUS, University of Vienna, Austria *Lichens - a challenge in cryopreparation for TEM*
13:12	**Fellner, S.** / Erich Schmidt Institut für Materialwissenschaft - Österreichische Akademie der Wissenschaften, Leoben, AUSTRIA *Tracking the evolution of local elastic strain fields in tailored metallic glass composites during in-situ deformation in the TEM*
13:24	**Seewald, L.** / CDL DEFINE, FELMI, TU Graz, Graz, Austria *3D Nanoprinting of All-Metal Nano-Probes for Electric AFM Modes*
13:36	**Brugger-Hatzl, M.** / Graz Centre for Electron Microscopy, Graz, Austria *FEBID-Based 3D Nanoprobes for Magnetic Force Microscopy*
13:48	**Kastenmüller, A.** / Ametek GmbH BU Gatan / EDAX *Latest camera technology for TEM and latest camera technology for EBSD*
14:00	**General assembly**
14:45	**Coffee break**
15:15	**Kornmüller, K.** / Medical University of Graz, Graz, Austria *Structural dynamics in low density lipoprotein (LDL) targeted by cryo-EM and HS-AFM*
15:27	**Ederer, M.** / University Service Centre for Transmission Electron Microscopy, TU Wien, Austria *Energy-filtered STEM imaging of the TiO2 – LAO interface: Mapping a 2D Electron Gas*
15:39	**Waitz, T.** / University of Vienna, Vienna, Austria *In-situ TEM study of stress-induced martensitic phase transformations in NiTi nanocrystals*
15:55	**Closing**
16:30	**Lab tour 1**
17:30	**Lab tour 2**