


Characterization of micro- and nano-materials, Key aspect: Energy materials

 23rd – 27th September 2019, Cottbus, LG 1A, R. 304

Summer School 2019 / Compact Course

(LV: 150360, Module: 11767; CP: 6)

Language: English

	Monday, 23/09/2019 Synthesis and Spectroscopy	Tuesday, 24/09/2019 Spectroscopy and Microscopy	Wednesday, 25/09/2019 Diffraction and Microscopy	Thursday, 26/09/2019 Applications: Devices and Heterogeneous Catalysis	Friday, 27/09/2019 Applications in Chemistry and Photovoltaics
Time					
9:00-9:30	Coffee				
9:30-11:00	<i>GRS Tutorial</i> Johannes Heitmann TU Bergakademie Freiberg Materials Growth for Device Applications	<i>GRS Tutorial</i> Ehrenfried Zschech Fraunhofer IKTS X-ray Microscopy and Tomography: Technique & Applications	<i>GRS Tutorial</i> Joachim Wollschläger Uni Osnabrück X-ray and Electron Diffraction Techniques	<i>GRS Tutorial</i> Harald Schenk Fraunhofer IPMS Micro-Energy-Harvester: Device Concepts and Materials	<i>GRS Tutorial</i> Dieter Schmeißer BTU CS Chemistry and Spectroscopy: Oxygen Storage
11:00-11:30	Coffee Break				
11:30-12:15	<i>Specific Talk</i> Inga Fischer BTU CS Molecular Beam Epitaxy	<i>Specific Talk</i> David Starr Helmholtz-Zentrum Berlin XPS at Near Ambient Pressure	<i>GRS Tutorial</i> Thorsten Mehrstens Uni Bremen Transmission Electron Microscopy	<i>Specific Talk</i> Eduardo Perez IHP Frankfurt/Oder Memristive Devices	<i>GRS Tutorial</i> Małgorzata Kot BTU CS Atomic Layer Deposition and Perovskite Solar Cells
12:15-13:30	Lunch				
13:30-15:00	<i>GRS Tutorial</i> Christoph Janowitz BTU CS Photoelectron spectroscopy (XPS, UPS)	<i>GRS Tutorial</i> Thomas Seyller TU Chemnitz LEEM, PEEM, (μ-)ARPES	<i>GRS Tutorial</i> Michael Reichling Uni Osnabrück Scanning Probe Microscopy (STM, AFM)	<i>GRS Tutorial</i> Andreas Schaefer Chalmers UT, Göteborg Materials Characterization in Heterogeneous Catalysis	Concluding remarks End Lunch
15:00-15:15	Coffee Break				
15:15-18:00	<u>Practical Training</u> XPS, UPS	<u>Practical Training</u> XPS Depth profiling	<u>Practical Training</u> PEEM, AFM	<u>Practical Training</u> Capacitance-Voltage (CV)	Information at a glance: 
18:00-20:00	Come together	"After work beer"	"After work beer"	Barbecue	

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