Characterization of micro- and nano-materials, Key aspect: "Sensors and sensor materials"

11th – 15th September 2023, Cottbus, Main Campus, Building LG 1A, Room 304

Summer School 2023 / Compact Course
(LV: 130760, Module: 13016; CP: 6)
Language: English

	Monday,11/09/2023 **Growth, Characterization**	Tuesday, 12/09/2023 **Characterization**	Wednesday, 13/09/2023 **Application**	Thursday, 14/09/2023 **Practical Training**	Friday, 15/09/2023 **Practical Training**
09:00-10:30	**Artur Wiatrowski / Jarek Domaradzki** Wrocław University of Science and Technology *Physical Vapor Deposition*	**Małgorzata Kot** BTU Cottbus-Senftenberg *Atomic Layer Deposition*	**Harald Schenk** Fraunhofer-Institute for Photonic Microsystems, Dresden *Microsensors*	*Low-Energy Electron Diffraction (LEED)* *Atomic Layer Deposition (ALD),* *X-ray Photoelectron Spectroscopy (XPS),* *Photoemission Electron Microscopy (PEEM), and* Gas sensing experiments. Exact time schedule to be announced during the lectures.	*Low-Energy Electron Diffraction (LEED)* *Atomic Layer Deposition (ALD),* *X-ray Photoelectron Spectroscopy (XPS),* *Photoemission Electron Microscopy (PEEM), and* Gas sensing experiments. Exact time schedule to be announced during the lectures.
10:30-11:00	**Coffee Break**				
11:00-12:30	**Moritz Ewert** BTU Cottbus-Senftenberg *Materials' Characterization*	**Thomas Schmidt** University of Bremen *Dynamical X-ray Diffraction and X-ray Standing Waves*	**Carlo Tiebe** Bundesanstalt für Material-forschung und –prüfung, Berlin *H_2 – Sensing*		
12:30-14:00	**Lunch Break**				
14:00-15:30	**Andreas Popp** Institut für Kristallzüchtung, Berlin *Chemical Vapor Deposition and Metal Organic Vapor Phase Epitaxy*	**Joint session, Part 1:** Leibniz Institute for High Performance Microelectronics, Frankfurt/O. *Towards Neuromorphic and Quantum Computing: Device Development and its Characterization*	**Michał Mazur** Wrocław University of Science and Technology *Gas – Sensing*		
15:30-16:00	**Coffee Break**				
16:00-17:30	**Ehrenfried Zschech** deepXscan GmbH, Dresden *X-ray microscopy*	**Joint session, Part 2:** Leibniz Institute for High Performance Microelectronics, Frankfurt/O. *Towards Neuromorphic and Quantum Computing: Device Development and its Characterization*	**Lion Augel** Fraunhofer-Institute for Photonic Microsystems, Dresden *Photonic/Plasmonic Sensors*		
17:30-…		**BBQ**			