

SATELLITE WORKSHOP - Photon Science

Helmholtz-Zentrum Geesthacht GEMS Outstation: Materials Research and High Resolution Imaging

Thursday, 30 January 2020

DESY Auditorium, Bldg. 5

Helmholtz-Zentrum Geesthacht operates the research platform GEMS with an outstation at DESY, running beamlines and instruments with a focus on engineering materials research and high resolution imaging techniques. On the 2020 satellite meeting, the status of the HZG beamlines and future perspectives are reported and users will present recent research highlights.

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PROGRAMME

Session 1: Imaging			
14:00	Imaging instruments at IBL, HEMS and MINAXS	Christina Krywka	Chair: C. Krywka Helmholtz-Zentrum Geesthacht
14:15	Multimodal assessment of biodegradable Magnesium-based implants in bone	Berit Zeller-Plumhoff	Helmholtz-Zentrum Geesthacht
14:40	X-ray phase contrast Tomography for studying the Central Nervous System	Michela Fratini	CNR-Nanotec, La Sapienza University
15:05	Combined Diffraction Tomography and Fluorescence Tomography for spatially mapping elements in biological fiber reinforced nanocomposites	Paul Zaslansky	Charité - Universitätsmedizin Berlin Department for Operative and Preventive Dentistry
15:30 Coffee break			
Session 2: Diffraction			
16:00	Status of the diffraction beamlines	Norbert Schell	Chair: L. Lottermoser Helmholtz-Zentrum Geesthacht
16:15	FlexiDS – In-situ studies of directional solidification	Camelia Gombola	KIT, Inst. f. Angewandte Materialien
16:40	Hot forging wire and arc additive manufacturing	Joao Pedro Oliveira	NOVA University of Lisbon, Dep. Mech. & Industr. Eng.
17:05	Residual stresses in friction surfacing of Ti and Al alloys	Gleb Dovzhenko	Helmholtz-Zentrum Geesthacht
17:30 Final discussion			