User-Dedicated Microsymposium 2 (UDM2) ESRF user meeting 2017

Quantitative coherent X-ray diffraction imaging

Wednesday, 8th February – 8:45 → 16:00 – Venue: IBS Seminar Room		
08:45 – 08:50	Introduction by the organizers	
	Session I – Chair: Steven Leake	
08:50 – 09:30	**Keynote:** MAUI: Modeling, Analysis and Ultrafast Imaging at Argonne National Laboratory	**Ross Harder** Argonne National Laboratory, USA
09:30 – 09:50	Bragg coherent diffraction imaging for a look inside nanostructures: catalysis and interface.	**M.-I. Richard** Univ. de Toulon, IM2NP, France & ESRF, France
09:50 – 10:10	High-resolution three-dimensional crystalline microscopy by single angle Bragg ptychography	**M. Allain** Institute Fresnel, France
10:10 – 10:30	Characterization of single nanowires with Bragg coherent imaging and ptychography	**I. Vartaniants** DESY, Germany & MEPhI, Russia
10:30 – 11:00	*Coffee/Tea break*	
	Session II – Chair: Julio da Silva	
11:00 – 11:40	**Keynote:** X-ray Ptychography	**Pierre Thibault** University of Southampton, UK
11:40 – 12:00	Multiple coherent X-ray imaging techniques complemented by X-ray fluorescence for nanoscale 3D quantification of mineralized tissue	**A. Pacureanu** ESRF, France
12:00 – 12:20	Multiscale X-ray imaging using ptychography	**S. Sala** University College London, University of Southampton, Diamond Light Source, UK
12:20 – 12:40	High throughput three-dimensional imaging of myelin fibers in the whole mouse brain	**F. Chauveau** University of Lyon, France
12:40 – 14:00	*Lunch*	
	Session III – Chair: Marie-Ingrid Richard	
14:00 – 14:40	**Keynote:** In situ 3D X-ray nanoscopy of mesostructured soft materials	**Dag Breiby** Norwegian University of Science and Technology, Norway
14:40 – 15:00	Microstructure optimization of titanium alloys produced by additive manufacturing	**P. Barriobero-Vila** Vienna University of Technology, Austria
15:00 – 15:20	Multi-Scale Imaging and Simulation of Exhaust Gas Catalysis	**J. Beil** University of Copenhagen, Denmark
15:20 – 15:40	Deactivation of Fluid Catalytic Cracking Catalysts, a Three-Dimensional View of Structural Changes	**J. Ihli** Paul Scherrer Institute, Switzerland
15:40 – 16:00	Combined use of X-Ray Fluorescence Microscopy, Phase Contrast Imaging Nanotomography and Near-Field Ptychography for high resolution quantitative Fe mapping in inflamed cells	**C. Gramaccioni** University of Consenza, Italy & Univ. Sapienza, Italy
16:00 – 16:05	Closing	