Exploiting coherent X-rays at ESRF: robust tools for imaging and dynamics

Wednesday, 6th February 2019 - Microsymposium UDM3 Venue: ESRF Auditorium		
08:15 – 08:45	Registration in the Entrance Hall of the ESRF Central Building	
08:45	Introduction	
	Session I: Chair: Beatrice Ruta	
08:50 – 09:30	**Keynote talk**: Measuring protein dynamics with XPCS - first results and outlook for ESRF EBS	**Christian Gutt**, *Universität Siegen, Germany*
09:30 – 09:50	Structural relaxation, softness and fragility of IPN microgels	**Valentina Nigro,** *University La Spienza, Italy*
09:50 – 10:10	*In situ* Ptychography in 2D and 3D for Catalysis and Materials Research	**Thomas L. Sheppard** *KIT, Germany*
10:10 – 10:30	Improved illumination forming methods for high-resolution X-ray ptychography	**Michal Odstrcil**, *Paul Scherrer Institut, Switzerland*
10:30 – 11:00	*Coffee break*	
	Session II: Chair: Yuriy Chushkin	
11:00 – 11:40	**Keynote talk:** Peering into delicate mineral architectures by X-ray tomography	**Alain Gibaud**, *Université du Maine, France*
11:40 – 12:00	Characterization of alloys for a new generation of metals for additive manufacturing by Near-Field Ptychographic Tomography	**Julio C. Da Silva**, *ESRF, France*
12:00 – 12:20	Studying Beam-induced Dynamics in Amorphous Ionic Conductors	**Katharina Holzweber**, *University of Vienna, Austria*
12:20 – 12:40	Spectacular inhibition of interdiffusion in Ge-Core/ Si-Shell Nanowires evidenced by Tomographic coherent X-ray imaging	**Jérome Carnis**, *Université Aix-Marseille, France*
12:40 – 14:00	*Lunch at the epn campus restaurant*	
	Session III: Chair: Steven Leake & Vincent Favre-Nicolin	
14:00 – 14:40	**Keynote talk:** Coherent diffraction for a look inside nanostructures: catalysis and interface	**Marie-Ingrid Richard**, *Université Aix-Marseille, France*
14:40 – 15:00	Three-dimensional visualization of phase-ordering in an Fe-Al alloy by coherent X-ray Bragg ptychography	**Chan Kim,** *European XFEL, Germany*
15:00 – 15:20	Microscopic pathways for stress relaxation in repulsive colloidal glasses	**Francesco Dallari,** *University of Trento, Italy*
15:20 – 15:40	*Coffee break*	
15:40 – 16:00	A Nanorheology Study On The Viscoelastic Properties Of Photorheological Liquids By XPCS	**Mario Reiser**, *European XFEL/Uni. Siegen, Germany*
16:00 – 16:20	In-situ and Operando Studies on Bragg Coherent X-ray Diffraction Imaging at Current and Next Generation Light Sources	**Wonsuk Cha,** *Argonne National Laboratory, USA*
16:20 – 16:40	X-Ray Fourier Ptychography	**Klaus Wakonig,** *Paul Scherrer Institut, Switzerland*
16:40 – 17:00	Plasticity in Au crystals studied by in-situ nano-indentation coupled with BCDI	**Florian Lauraux**, *Université Aix-Marseille, France*
17:00	Closing remarks and farewell	