Thursday 6 May		
09:00 - 09:15	Welcome and introduction to EBS	Harald Reichert Director of research, ESRF
09:15 - 09:30	Scopes and objectives of the workshop	Carsten Detlefs ESRF
Session 1 - Ferroelectrics and Functional Materials (Chair : Carsten Detlefs)		
09:30 - 10:10	Progress and perspectives on imaging ferroic domain structures with dark-field x-ray microscopy	Hugh Simons Technical University of Denmark
10:10 - 10:30	Quantitative mapping of nanotwin variants and elastic energy in the bulk	Jan Schultheiβ NTNU Trondheim
10:30 - 10:50	Recognition of ferroelastic domain patterns using high-resolution single crystal X-ray diffraction: potential for DFXM	Semen Gorfman Tel Aviv University
Coffee Break Session 2 - Metallurgy I (Chair: Henning F. Poulsen)		
		lazaf Kaskas
11:10 - 11:40	DFXM Mapping of Strain and Mosaicity in TiN and Cu Grains: Resolving Annealing-Induced Intergranular Changes in Ceramics and Metals	Jozef Keckes University of Leoben
11:40 - 12:10	Local residual stresses in steels Lunch Break	Yubin Zhang Technical University of Denmark
Session 3 - Ceramics and Biominerals (Chair Hugh Simons)		
13:30 - 14:10	Dislocations in ceramics: Opportunities and challenges in quantitative 3D imaging	Lukas Porz Technical University of Darmstadt
14:10 - 14:30	Combining raster-scanning XRF and XRD with DFXM for the study of biominerals	Philip Cook ESRF
14:30 - 15:10	Residual stresses and crystal orientation in biominerals revealed by Dark Field X-ray Microscopy	Vanessa Schoeppler University of California, Berkeley
Coffee Break		
15:30 - 16:10	Session 4 - Metallurgy II (Chair Can Yildirim) Quantifying microscale drivers for fatigue failure via coupled synchrotron X-ray characterization and simulations	Sven Gustafson Purdue University
16:10 - 16:30	Three-dimensional mapping of local elastic strain	Peter Reischig Sci-Tech Daresbury
	Friday 7 May	
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Session 5 - X-ray Diffraction Imaging I (Chair Tobias Schulli)		
09:10 - 09:30	Fourier ptychographic DF-XRM	Mads Carlsen Technical University of Denmark
09:30 - 09:50	X-Ray Orientation Microscopy using Topo-tomography and multi-mode Diffraction Contrast Tomography	Nicola Vigano ESRF
09:50 - 10:10	Evidence of Charge Density Wave transverse pinning by x-ray microdiffraction	Ewen Bellec ESRF
	Coffee Break	
Session 6 - Structural Defects and Phase Transformations (Chair Wolfgang Ludwig)		
10:50 - 11:30	A multi-scale study of the interaction of Sn solutes with dislocations during recovery in Fe-Si alloys	Nikolas Mavrikakis OCAS NV Gent
11:30 - 11:50	Toward In Situ Mapping of Crystal Selection during OFZ Crystal Growth	Peter G. Khalifah Stony Brook University
11:50 - 12:30	Studying Thermomechanical Phase Transformations and Twinning in Metals with Dark-Field X-ray Microscopy	Ashley Bucsek University of Michigan
Lunch Break Session 7 - Time Resolved DFXM (Chair Alexander Rack)		
13:50 - 14:30	Visualizing the Dynamics of Subsurface Defects with Time-Resolved Dark-Field X-ray Microscopy	Leora Eve Dresselhaus-Marais Lawrence Livermore National Lab
14:30 - 14:50	In-situ DFXM	Tobias Schulli ESRF
	Coffee Break	
	Session 8 - X-ray Diffraction Imaging II (Phil Cook)	
15:10 - 15:30	Development of large field-of-view high-resolution hard x-ray microscope using polymer optics at Advanced Photon Source	Zhi Qiao Advanced Photon Source
15:30 - 15:50	Darfix: A New DFXM Data Analyis Tool	Julia Garriga-Ferrer ESRF
15:50	Closing Remarks	C. Detlefs and H. Reichert, ESRF