

# Nanoscience: X-ray diffraction and coherence

## Programme

<b>Wednesday 10<sup>th</sup> February 2016 ESRF Auditorium</b>		
08:30 -09:00	Registration	
09:00-09:10	Introduction to the Microsymposium by <b>Julio Cesar da Silva and Tobias Schulli</b>	
<b>Session 1 – Chair: Marco Saluzzo</b>		
09:10-09:50	<b>Keynote presentation:</b> Quantitative high-resolution X-ray imaging with ptychography	<b>Ana Diaz</b> PSI, Switzerland
09:50-10:10	X-ray phase contrast nanotomography of porous altered easel oil paintings	<b>Anaïs Genty</b> C2RMF, France
10:10-10:30	Role of coherence in microradian x-ray diffraction in colloidal crystals	<b>Andrei Petukhov</b> Utrecht university, the Netherlands
10:30-11:00	<b>Coffee break</b>	
<b>Session 2 – Chair: Julio Cesar da Silva</b>		
11:00-11:20	Coherent Diffraction Imaging of biomimetic CaCO <sub>3</sub> materials	<b>Thomas Beuvier</b> ESRF, France
11:20-11:40	Wave Front Metrology for Coherent X-ray Diffractive Imaging	<b>Eirik Torbjørn Bakken Skjønsvell</b> Norwegian University of Science and Technology
11:40-11:55	Presentation of the Nanoscience Foundries and Fine Analysis (NFFA) project	
12:00-13:45	<b>Lunch at the ESRF/ILL restaurant</b>	
<b>Session 3 – Chair: Tobias Schulli</b>		
13:45-14:20	<b>Keynote presentation:</b> In-Situ and Operando Coherent X-ray Diffractive Imaging of Materials and Devices	<b>Oleg Shpyrko</b> University of California San Diego, USA
14:20-14:40	Bragg coherent X-Ray diffraction from single core-multishell wires	<b>Arman Davtyan</b> University of Siegen, Germany
14:40-15:00	3D X-ray Bragg ptychography from methodological developments to applications	<b>Virginie Chamard</b> Aix-Marseille Université, France
15:00-15:20	Coherent Bragg Imaging of crystal defects during nanoindentation	<b>Guillaume Beutier</b> SIMaP, Univ Grenoble Alpes, France
15:20	Closing of the symposium with final discussions	