

**“SAXS on Nanosystems: current trends and perspectives” - 20 years of the Austrian SAXS Beamline  
10 - 12/10/2016 – ICTP - Budinich Lecture Hall - Strada Costiera 11, Trieste, Italy  
Symposium program**

Monday 10 <sup>th</sup>					
Time		Topic	Name	Title	Chair: Heinz Amenitsch
<b>13:00</b>	14:00	<b>REGISTRATION</b>			
14:00	14:40	opening remarks	<b>Alfonso Franciosi (President &amp; CEO, ELETTRA-Sincrotrone Trieste)</b> <b>Horst Bischof (Vice Rector Research, TU Graz)</b> <b>Frank Uhlig (Dean TCVB &amp; Head of Institute for Inorganic Chemistry, TU Graz)</b> <b>Heinz Amenitsch (Institute for Inorganic Chemistry, TU Graz)</b>		
14:40	15:20	<b>Plenary lecture</b>	Peter Fratzl	SAXS and complex biomaterials - Perspectives for synchrotron-based multiprobe imaging	
15:20	15:50	<b>Invited lecture</b>	Peter Laggner	Structure and Change. A Personal Recollection of 50 Years with Bio-SAXS	
15:50	16:10	BREAK			
				<b>Chair: Peter Laggner</b>	
16:10	16:25	NFFA	Giorgio Rossi	NFFA-EUROPE: An open access resource for experimental & theoretical science	
16:25	16:40	CERIC	Jana Kolar	CERIC-ERIC: Future perspectives	
16:40	17:10	<b>Invited lecture SAXS</b>	Jan Skov Pedersen	The new laboratory SAXS instrument at Aarhus University: Optimization, implementation and application to studies of low density lipoprotein (LDL) particles including a newly developed model	
17:10	17:30	SAXS	Herwig Peterlik	In-situ X-ray scattering of single carbon fibers	
17:30	17:50	SAXS	Michael Rappolt	The Art of Filling Space: Towards Understanding of Lipid Polymorphism	
17:50	18:10	SAXS	Aldo Craievich	Size dependent melting and freezing temperatures and other properties of Bi nanoparticles confined in a glass matrix. Study by combined use of SAXS and WAXS	
<b>18:10</b>	<b>21:00</b>	<b>POSTER SESSION</b>			

Tuesday 11<sup>th</sup>

## MORNING SESSION

Time		Topic	Speaker	Title	Chair: Benedetta Marmioli	
9:00	9:40	<b>Plenary lecture</b> μfluidics	Jean-Baptiste Salmon	Pervaporation at the nanoliter scale: Microfluidic tools to investigate complex fluids and engineer micro-materials		
9:40	10:10	<b>Invited lecture</b> μfluidics	Stephan Förster	Flow induced assembly processes in microchannels and microjets		
10:10	10:30	μfluidics	Jens Meissner	Eutectic Crystallization of Salt Solutions in Nanopores: Accessing the Properties of the Crystallites by in-situ SAXS/WAXS		
10:30	10:50	BREAK				
					<b>Chair: Manfred Kriechbaum</b>	
10:50	11:20	<b>Invited lecture</b> GISAXS	Pavo Dubcek	Annealing Induced Evolution of Germanium Quantum Dots		
11:20	11:40	chemistry	Christian Doonan	MOFs at the Biointerface		
11:40	12:00	chemistry	Paolo Falcaro	Metal-Organic Frameworks from ceramics		
12:00	12:20	chemistry	Ana Torvisco	From Aryltin Trihydrides to Nanosized Polymers- Solvent and Residue Effects on Material Morphology		
12:20	12:40	chemistry	Attilio Cesaro	Nanoscale fractal aggregates of caffeine in hot-coffee conditions		
12:40	13:00	pharmacy	Alexander Pichler	Structure Analysis of Drug Delivery Systems with SAXS in the Laboratory		
13:00	14:00	LUNCH				

**Tuesday 11<sup>th</sup> AFTERNOON SESSION**

Time		Topic	Speaker	Title	Chair: Marcell Wolf
14:00	14:30	<b>Invited lecture</b> chemistry	Oskar Paris	In-operando SAXS for Energy Applications	
14:30	14:50	bioSAXS	Tobias Madl	Structural Characterization of Challenging Biomolecular Complexes by Integration of SAXS with Complementary Techniques	
14:50	15:10	bioSAXS	Maria Grazia Ortore	From protein-protein interactions to amyloid aggregation: SAXS plays as an outsider	
15:10	15:30	BREAK			
15:30	16:00	<b>Invited lecture</b> bioSAXS	Javier Perez	Synchrotron SEC – SAXS data as EXPERIMENTAL CONSTRAINTS to model the detergent corona around a membrane protein	
16:00	19:00	VISIT AT THE AUSTROSAXS BEAMLINE AT ELETTRA-SINCROTRONE TRIESTE			
20:00	open	SYMPOSIUM DINNER, Antica Trattoria Menarosti, Via del Toro 12, 34125 Trieste			

**Wednesday 12<sup>th</sup> MORNING SESSION**

Time		Topic	Speaker	Title	Chair: Sigrid Bernstorff
9:00	9:40	<b>plenary lecture</b> GISAXS	Stephan Roth	Investigating rapid technological coating processes in real-time and in situ	
9:40	10:00	GISAXS	Fernando Cacho-Nerin	$\mu$ GISAXS on curved fluid-fluid interfaces: Following particle rearrangement and ejection upon surface compression	
10:10	10:40	<b>Invited lecture</b> GISAXS	Maja Buljan	Application of GISAXS on study of three-dimensional quantum dot lattices	
10:40	11:00	BREAK			

				Title	Chair: Michael Rappolt
11:00	11:20	SAXS	Milos Steinhart	The performance of the High Pressure SWAXS System designed for the Austro-SAXS Beamline	
11:20	11:40	bioSAXS	Michal Belička	Biomembrane Complexity at the Sub-Nanometer Level	
11:40	12:00	bioSAXS	Domenico Lombardo	Interaction of Charged Dendrimers with Model Lipid Membrane: a SAXS Study	
12:00	12:20	bioSAXS	Stefan Salentinig	In-situ small angle X-ray scattering reveals formation of highly organised nanostructures during digestion of milk fat	
12:20	12:50	<b>Invited lecture</b> μfluidics	Gianluca Greci	Easy and fast fabrication of a free-jet micromixer for SAXS	
12:50	13:00	concluding remarks	Heinz Amenitsch		