



SAXS

excites

APRIL 4 TO APRIL 5,
2023

INTERNATIONAL SAXS SYMPOSIUM 2023
GRAZ UNIVERSITY OF TECHNOLOGY | AUSTRIA

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TUESDAY, APRIL 4, 2023

09:00 a.m.	WELCOME	Frank Uhlig (TU Graz) Petra Kotnik (Anton Paar) Heiner Santner (Anton Paar)
Session 1		
09:20 a.m.	SILVIO HAAS: The SAXSMAT Beamline P62 at PETRA III: Opportunities for Imaging and Element-Sensitive Investigations	Chair: Jan Ilavsky
10:05 a.m.	WOLFGANG SCHMIDT: Structural Information from Bragg Reflections in SAXS	
10:25 a.m.	RAINER T. LECHNER: Colloidal Superstructure for Thermoelectric Application: Supercrystal Growth Studied in Real Time by SAXS	
10:45 a.m.	COFFEE BREAK	
Session 2		
11:10 a.m.	JAN ILAVSKY: Penetration and Speed: New Age of SAXS Applications in Metallurgy	Chair: Denise Erb
11:55 a.m.	PHILIPP ALDO WIESER: In Operando Monitoring Micelle-Assisted Electrosynthesis of Mesoporous PtNi by Grazing Incidence SWAXS	
12:15 p.m.	ANA PALACIOS SAURA: Does the Solvent Matter? – Influence of the Solvent in Hybrid Halide Perovskites Precursor Solution	
12:35 p.m.	LUNCH	
Session 3		
01:45 p.m.	DENISE ERB: GISAXS Observation of Spontaneous Nanopattern Formation on Crystal Surfaces under Extreme Conditions	Chair: Sylvio Haas
02:30 p.m.	RICHARD NEUBERT: Surface Bound Rhodium Coordination Polymers in the Light of GISAXS and GIWAXS	
02:50 p.m.	ARTURAS VAILIONIS: Non-Ambient X-Ray Diffraction Using Anton Paar XRK 900 and DCS 500 Sample Stages	
03:10 p.m.	SUMEA KLOKIC: ps-Pump Probe Station@AustroSAXS: Trigger, Modify, and Control a MOF Film Structure	
03:30 p.m.	COFFEE BREAK	
	SOCIAL PROGRAM	
03:50 p.m.	Optional Company Tour at Anton Paar GmbH (Bus transfer from the conference venue)	
06:30 p.m.	SYMPOSIUM DINNER AT SUDHAUS (Starting with an aperitive at 6:00 p.m.)	

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Session 4

09:00 a.m.	STEFAN SALENTINIG: SAXS-Guided Engineering of Antimicrobial Nanomaterials	Chair: Cy Jeffries
09:45 a.m.	OTTO GLATTER: Inverse Internally Self-Assembled Particles (ISAsomes)	
10:05 a.m.	JEROME DEUMER: Small-Angle X-Ray Scattering (SAXS): Characterization of Arbitrarily Shaped Nanoparticles Using Debye's Scattering Formula	
10:25 a.m.	G. POPOVSKI: Largely Model Free Indirect Fourier Transformation Including Interaction Effects	
10:45 a.m.	COFFEE BREAK	

Session 5

11:05 a.m.	KAREN EDLER: Exploring Sustainable Materials Using SAXS: From Nanocellulose to Deep Eutectic Solvents	Chair: Stefan Salentinig
11:50 a.m.	MILAN DOPITA: SAXS Studies of Morphology and Microstructure of Three-Dimensionally Ordered Microporous Carbon	
12:10 p.m.	MATIJA TOMŠIČ: SWAXS in Structural Studies of Nanoporous Powders: From Corncocks to Sodium-Ion Battery Electrodes	
12:30 p.m.	ANDREAS F. THÜNEMANN: SAXS for the Development of Reference Materials: Silver Nanoparticles, a Case Study	
12:50 p.m.	POSTER & LUNCH SESSION	

Session 6

02:50 p.m.	CY JEFFRIES: Perspective: Small Angle X-Ray Scattering and AlphaFold – Perhaps One of the Most Opportune Pairings in the History of Structural Biology?	Chair: Karen Edler
03:35 p.m.	BETTINA TRAN: SAXS Study of Colloidal Crystal Formation of Viruses in Presence of Polycationic Polymers for Water Purification Biomaterials	
03:55 p.m.	HEINZ AMENITSCH: Life Science at the Austrian SAXS Beamline: Interaction of Liposomes with Nanoparticles and Blood Serum Proteins	
04:15 p.m.	RAFAEL VASCONCELOS DE MELO FREIRE: Unraveling Nanostructure Formation in Functional Buriti Oil Emulsion during Simulated Digestion by In Situ Synchrotron SAXS	
04:40 p.m.	FAREWELL	