

# SATELLITE WORKSHOP - Photon Science



## SAXS/WAXS/GISAXS user workshop@ DESY

Thursday, 26 January 2017

FLASH Seminar Room, Bldg. 28c

This workshop addresses current and potential users of small- and wide-angle X-ray scattering at PETRA III. It is intended to present and discuss the status and perspectives of the experimental facilities, especially the PETRA III micro- and nanofocus X-ray scattering beamline P03 (MiNaXS), and recent as well as planned user activities. It shall foster communication among the users and identify common interests.

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### PROGRAMME

	<b>Session 1: Welcome &amp; Status of SAXS/WAXS/GISAXS at DESY</b>		<i>Chair: Matthias Schwartzkopf</i>
13:00	Welcome	Stephan Roth	DESY/KTH
13:10	Progress at P03/MiNaXS	Stephan Roth	DESY/KTH
	<b>Session 2: In-situ investigation of fabrication processes: Vacuum deposition</b>		<i>Chair: Stephan V. Roth</i>
13:30	Flexible titania electrodes for lithium-ion batteries	Ezzeldin Metwalli	TUM
13:50	Real time investigation of optical properties and morphology during the co-sputter deposition of Au/Ag nanoparticles	Deniza Chekrygina	UHH
	<b>Session 3: Energy conversion and storage</b>		<i>Chair: Stephan V. Roth</i>
14:10	Water-processable hybrid solar cells - in situ studies of particular fabrication steps	Volker Körstgens	TUM
14:30	Synchrotron WAXS measurements on lithium intercalated carbon fibres for structural battery applications	Johan Hagberg	KTH
14:50	Morphological degradation in low bandgap polymer solar cells – an in operando study	Peter Müller-Buschbaum	TUM
<b>15:10</b>	<b>Coffee break</b>		
	<b>Session 4: <math>\mu</math>fluidics</b>		<i>Chair: Matthias Schwartzkopf</i>
15:50	$\mu$ fluidics and cellulose	Daniel Söderberg	KTH
16:10	Structured particles by means of fluidized bed technology	Stephan Heinrich	TUHH
16:30	Flow-assisted assembly of nanostructured protein microfibers	Christofer Lendel	KTH
16:50	Microfluidics at High Intensity X-Ray Sources - Latest Results	Martin Trebbin	UHH
	<b>Session 5: Soft matter - structure formation and deformation</b>		<i>Chair: Matthias Schwartzkopf</i>
17:10	Soft matter in Hard Confinement: Liquid condensation and liquid crystalline order in nanopores as explored by SAXS	Patrick Huber	TUHH
17:30	Melting and solidification of polyurethane. The influence of nucleating agents on morphology evolution.	Almut Stribeck	UHH
17:50	WAXS- and SAXS-measurements with high time resolution during quick deformation combined with thermography	Konrad Schneider	IPF
18:10	Free-flying nanoparticles inside magnetron-based gas aggregation source	Jaroslav Kousal	Charles-University Prague
<b>18:30</b>	<b>End of Satellite Meeting</b>		