

Programme

Floor plan

Conference Information

International Conference on X-ray Optics and Microanalysis 2-6. September 2013

Monday, 2. September 2013

End of Day 1

19:00

ivionday,	2. September 2013		
08:30	Registration and Refreshments		
10:00	Welcome (Hörsaal B) K. Janssens (Uni Antwerpen); H. Franz (DESY); G. Falkenberg (DESY); Chr. Schroer (TU Dresden)		
10:30	Keynote talk (Hörsaal B) Nutrients and contaminats in plants: state of the art and artefacts E. Lombi (Univ. South Australia)		
11:30	Plenary talk (Hörsaal B) X-ray nano-diffraction from individual nanowires R. Feidenhans'l (Univ. Copenhagen)		
12:10	Lunch break		
13:30	Parallel session I "Tomography" (Hörsaal B)	Parallel session II "(GI-)diffraction" (Hörsaal M)	
	Invited talk Recent Developments in X-ray Grating Interferometry A. Momose (Tohoku University)	Invited talk Grazing Incidence X-ray Scattering Techniques for the Investigation of Organic Solar Cells P. Müller-Buschbaum (TU München)	
14:10	Edge Illumination X-ray Phase-Contrast Imaging: Nanoradian Sensitivity at Synchrotrons and Translation to Conventional Sources P.C. Diemoz (University College London)	Real-time and in situ μ GISAXS and x-ray growth oscillations during multi-layer growth of the fullerene C60 S. Bommel (DESY)	
14:30	X-ray Microlaminography with Polycapillary Optics P. Korecki (Institute of Physics, Jagiellonian University)	Microfluidics at high-intensity X-ray sources: from microflow chips to microfluidic liquid jet systems M. Trebbin (University of Bayreuth)	
14:50	Ageing Effects on Exhaust Gas Catalyst: Microscopic changes captured by X-Ray Tomography G. Hofmann (ITCP KIT)	Colloidal Self-assembly during Fast Solvent Evaporation Based on Combination of Spray Deposition and µGISAXS <i>P. Zhang (DESY)</i>	
15:00	Coffee break		
15:30	Parallel session III "Spectroscopy" (Hörsaal B)	Parallel session IV "Detector developement I" (Hörsaal M)	
	Invited talk Micro beam absorption spectroscopy for the investigation of fluid inclusions J. Cauzid (University Lorraine)	Invited talk Full-field versus scanning Micro-XRF Imaging using Synchrotron radiation L. Vincze (University Ghent)	
16:10	Environmental and Biological Applications of X-ray Spectromicroscopy from 2-5 keV S. Webb (SLAC)	A new methodology towards 3D micro-XRF imaging using a novel energy-dispersive CCD detector J. Garrevoet (Ghent University)	
16:30	Micro-XANES analysis of metal accumulation in plants on sub-cellular level I. Arcon (University of Nova Gorica)	A compact, spatially highly resolving X-ray pnCCD camera S. Ihle (PNSensor GmbH)	
16:50	Quick XAFS: New Possibilities for Microanalysis	Performance and capabilities of DEPFET based SDD detectors	
	R. Frahm (Bergische Universität Wuppertal)	J. Treis (PNDetector GmbH)	
17:15	Poster session I		

Tuesday, 3. September 2013

Hörsaal B

	HUISadi D		
08:30	Keynote talk Planetary und Extraterrestrial Processes at the Nanoscale F.E. Brenker (Univ. Frankfurt)		
09:30	Plenary session "Detector developement II"		
	Plenary talk MAIA X-ray microprobe detector array system P. Siddons (Brookhaven National Lab)		
10:10	Coffee break		
10:40	Plenary talk Imaging systems developed and being developed at PSI B. Schmitt (PSI)		
11:20	LAMBDA pixel detector with silicon and high-Z sensors D. Pennicard (DESY)		
11:40	Advances in Hybrid Pixel Detectors T. Donath (Dectris Ltd.)		
12:00	Lunch break		
13:30	Parallel session V "Bioimaging I" (Hörsaal B)	Parallel session VI "ML-optics" (Hörsaal M)	
	Invited talk Combined full-field and hard X-ray microscopy approach for the investigation of Malaria S. Kapishnikov (Weizmann Institute of Science)	Invited talk Development of linear and circular type MoSi2/Si multilayer Laue lenses T. Koyama (Spring-8)	
14:10	Differential accumulation of S, Ca, Fe and Zn in human osteosarcoma tissue C. Streli (ATI, TU Wien)	Two-dimensional X-ray Focusing with Large Aperture Multilayer Laue Lenses A. Kubec (TU Dresden, Fraunhofer IWS Dresden)	
14:30	Ptychography of frozen-hydrated biological cells K. Giewekemeyer (European X-FEL)	The development of multilayer-Laue-Lens based scanning microscope for hard x-ray nanoprobe at NSLS-II H. Yan (Brookhaven National Laboratory)	
14:50	Exploring the activity of anti-cancer metallodrugs in cells using a synchrotron microprobe K. Geraki (Diamond Light Source)	Sub-5nm hard X-ray point focusing by Kirkpatrick-Baez mirrors and a multilayer zone plate M. Osterhoff	
15:10	Coffee break		
15:40	Parallel session VII	Parallel session VIII	
	"Fullfield-imaging" (Hörsaal B)	"Lab source applications"(Hörsaal M)	
	Invited talk Three-dimensional imaging of chemical phase transformations at the nanoscale with full-field transmission X-ray microscopy F. Meirer (Fondatione Bruno Kessler)	Invited talk MAIA driven X-ray fluorescence imaging C. Ryan (CSIRO)	
16:20	X-ray Full Field Microscopy at 30 keV F. Marschall (KIT)	A Laser-Produced Plasma Source for soft X-ray applications I. Mantouvalou (TU Berlin)	
16:40	High Energy Full-field Zernike Phase Microscopy R. Mokso (PSI)	NEXAFS Spectrometer based on a Lab-scale Soft X-ray Source K. Mann (Laser-Laboratorium Göttingen)	
17:00	Chemical imaging applied to artistic materials using full-field X-ray spectroscopy E. Pouyet (ESRF)	New approaches for hard x-ray phase contrast with laboratory sources D. Pelliccia (Monash University)	
17:20	Poster session II		

Wednesday, 4. September 2013

н	Ä	rsa	ы	P
п	U	Sa	aı	

08:30	Keynote talk Introduction to DESY Photon Science E. Weckert (DESY)
09:30	Keynote talk Structural imaging at x-ray free-electron lasers H. Chapman (DESY-CFEL)
10:30	Transfer to DESY
11:00	DESY and Eurpean XFEL guided tours and lunch buffet at CFEL
14:30	Keynote talk (Auditorium DESY) Micro- and nanoanalysis at SPring-8 and SACLA T. Ishikawa (RIKEN Spring-8)
15:30	Keynote talk (Auditorium DESY) Micro- and nanoanalysis at the Advanced Photon Source J. Maser (ANL/APS)
16:30	Coffee break
17:00	Keynote talk (Auditorium DESY) Micro- and nanoanalysis at ESRF including future upgrade P. Cloetens (ESRF)
19:00	Conference dinner at Sagebiehl's Fährhaus (Hamburg-Blankenese)

Thursday, 5. September 2013

,	Hörsaal B	
08:30	Keynote talk Atomic-resolution environmental transmission electron microscopy for quantitative in-situ microscopy in catalyst chemistry S. Takeda (University Osaka)	
09:30	Plenary talk Making use of dynamical scattering of fast electrons in the TEM for retrieving 3D atom positions in nanoparticles Chr. Koch (University Ulm)	
10:10	Coffee break	
10:50	Plenary talk Recent Results in Ptychographic Coherent diffractive imaging M. Dierolf (TU Munich)	
11:30	In situ Materials Science Studies with X-ray Ptychography J. BØ FLØYSTAD (Norwegian University of Science and Technology)	
11:50	High-resolution dose-efficient in-line holography of biological samples using x-ray waveguides M. Bartels (University of Göttingen)	
12:10	Lunch break	
13:30	Parallel session VIII "Spectroscopy" (Hörsaal B)	Parallel session IX "Coherence II" (Hörsaal M)

13:30	Parallel session VIII "Spectroscopy" (Hörsaal B)	Parallel session IX "Coherence II" (Hörsaal M)
	Invited talk Hard X-ray full-field μ-spectroscopy and μ-XRF imaging applications to Earth and Planetary Sciences V. De Andrade (Brookhaven National Lab)	Invited talk High-resolution ptychographic imaging Y. Takahashi (University Osaka)
14:10	Study of Sr incorporation in aragonite in archaeological otoliths with micro-X-ray fluorescence and absorption spectroscopies P. Cook (IPANEMA / Synchrotron SOLEIL)	Cellular Imaging with phase-diverse Fresnel Coherent Diffraction M. Jones (La Trobe University, ARC Centre of Excellence for Coherent X-ray Science)

inve expe	croscopic X-ray fluorescence and diffraction estigation of clay-rich rock thin sections after sorption eriment san (Hungarian Academy of Sciences)	High-Resolution Imaging with Chemical Contrast Using Hard X-Ray Ptychography J. Reinhardt (DESY)	
copp usin	derstanding the toxicity of arsenic, cadmium and per in the model plant Ceratophyllum demersum ng μΧRF tomography and μ-ΧΑΝΕS (üpper (University Konstanz)	Imaging of Nano- and Mesoscale Objects with Coherent X-rays I. Vartaniants (DESY)	
15:10 <i>Coff</i>	fee break		
15:30	Parallel session X "Nanodiffraction" (Hörsaal B)	Parallel session XI "Instrumentation" (Hörsaal M)	
App	ed talk olications of X-ray nanodiffraction Burghammer (ESRF)	Invited talk Towards Picometry ? - Achievements and Future Requirements on Reflective X-Ray Optics, Metrology and Deterministic Surface Finishing F. Siewert (Helmholtz Zentrum Berlin)	
sepa	ualize defects ordering and nanoscale phase aration by scanning nano X-ray diffraction	X-ray Refractive Optics: present status and new developments A. Snigirev (ESRF)	
	nodiffraction on Softwood Cells at MiNaXS torm (Helmholz Zentrum Geesthacht)	Nanofabrication of diffractive elements for EUV and soft xray applications using ion beam lithography J. Overbuschbaum (Forschungszentrum caesar)	
of N	ss-Sectional X-ray Nanodiffraction Reveals Gradients Microstructure, Stresses and Phases in Thin Films odt (Montanuniversität Leoben)	Recent Developments in Parallel X-Ray Spectroscopy at HZB H. Löchel (Helmholtz Zentrum Berlin)	
	Poster session III		

6. September 2013

09:00	Keynote talk (Hörsaal B) X-ray Micro- and nanoprobe for the Characterization of Artists' Pigments and Paintings K. Janssens (University Antwerpen)
10:00	Plenary talk (Hörsaal B) Transmission X-ray microscopy for full-field spectro-microscopy at the nanoscale J.C. Andrews (SLAC)

10:40 Coffee break

11:10	Plenary session XII "Bio-Imaging II" (Hörsaal B)	Plenary session XIII "Cultural heritage" (Hörsaal M)
	Study of Inhibitory Influence of Copper on Biofilm Clusters with Full-field Transmission Hard X-ray Microscopy Y. Yang (Karlsruhe Institute of Technology)	Van Gogh and alteration of chrome yellow pigments: new Crspeciation studies by using the Maia X-ray detector L. Monico(Perugia University)
11:30	Tissue contamination with implant components after metal-on-metal hip resurfacing arthroplasty. G. Buzanich (Federal Institute for Materials Research and Testing BAM)	The processing of large, heterogeneous data sets acquired for XRF imaging M. Alfeld(Univ. Antwerp, now DESY)
11:50	X-ray fluorescence imaging of biological model organisms trapped by laser-based optical tweezers E. Vergucht (Univ. Ghent)	Characterization of the new confocal micro X-ray fluorescence (CXRF) system for non-destructive cultural heritage analysis at the CNA: µXRF-CONCHA K. Laclavetine (University of Seville)
12:10	Life Science Applications of the TwinMic soft X-ray spectromicroscopy station at Elettra A. Gianoncelli (ELETTRA)	Non destructive synchrotron radiation based investigation of Neolithic and Early Bronze Age axes <i>L. Glaser (DESY)</i>
12:30	Close out	

Conference Information:

WLAN:

There is a special W-LAN for this conference. You will receive your key at the registration desk.

Conference Dinner:

The conference dinner will take place on 4.9. 2013 at 19.00h at Sagebiehls Fährhaus. There will be a shuttle from DESY premises at 18:00h. A shuttle back will be provided at 22.00h

Address: Blankeneser Hauptstraße 107, 22587 Hamburg



DESY excursions:

DESY excursion will take place on 4.9. 2013. There will be a shuttle from the University to DESY at 10:30h.

Food/Beverages:

In the surrounding of the conference venue there are a lot of restaurants/bars/cafes. For example you will find restaurants at Grindelallee.

In addition you may have lunch at the MENSA at the University.

Conference Phone:

You might reach the conference team at +49 40 8998 9 4130

