



Daily Program

Monday, July 21st, 2008

09:00 - 09:25		Opening address Christoph Quitmann (conference chair) <i>Paul Scherrer Institut, Switzerland</i> Alan Michette (IPAC chair) <i>King's College London, UK</i>
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Session: Methods 1

09:25 - 10:00	Mo_Met1_1 invited	The hard X-ray nanoprobe at the Advanced Photon Source: capabilities, applications and novel X-ray optics Joerg Maser <i>APS, Argonne National Laboratory, USA</i>
10:00 - 10:30		Break
10:30 - 11:05	Mo_Met1_2 invited	Fluorescence X-ray micro-spectroscopy activities at ESRF Murielle Salome <i>European Synchrotron Radiation Facility, France</i>
11:05 - 11:30	Mo_Met1_3	TwinMic: the European twin X-ray spectromicroscopy station at Elettra Burkhard Kaulich <i>Sincrotrone Trieste, Elettra, Italy</i>
11:30 - 11:55	Mo_Met1_4	Phase contrast imaging: Pushing fluorescence microscopy Christian Holzner <i>Suny at Stony Brook, Physics Dept., USA</i>
11:55 - 12:20	Mo_Met1_5	Rapid-scan X-ray fluorescence imaging - the Archimedes project and beyond Uwe Bergmann <i>SSRL, Univ. Stanford, USA</i>
12:20 - 14:00		Lunch

Session: Methods 2

14:00 - 14:45	Mo_Met2_1 complementary	Scanning tunneling microscopy investigations on the self-assembly of bioinspired molecular nanostructures Roberto Otero <i>Universidad Autónoma de Madrid, Spain</i>
14:45 - 15:10	Mo_Met2_2	Nanoscale elemental analysis by SR-based scanning tunneling microscope at 27m long undulator of SPring-8 Akira Saito <i>Osaka Univ., Japan</i>
15:10 - 15:35	Mo_Met2_3	X-ray nanospectroscopic characterization of a single molecular transition metal oxide nanosheets Kanta Ono <i>Institute of Materials Structure Science, High Energy Accelerator Research Organization (KEK), Japan</i>

Session: Poster 1

15:35 - 18:05	P1	Poster Session
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Tuesday, July 22nd, 2008

Session: Coherence 1		
08:30 - 09:05	Tu_Coh1_1 invited	Coherent imaging at FLASH Henry Chapman <i>DESY, Hamburg, Germany</i>
09:05 - 09:30	Tu_Coh1_2	Spatially multiplexed Fourier transform holography for single shot compatible imaging on the nanoscale William F Schlotter <i>Univ. Hamburg, Inst. f. Experimentalphysik, Germany</i>
09:30 - 09:55	Tu_Coh1_3	Progress in coherent X-ray diffraction imaging on whole cells Johanna Nelson <i>Suny at Stony Brook, Physics Dept., USA</i>
09:55 - 10:30		Break
Session: Coherence 2		
10:30 - 11:15	Tu_Coh2_1 complementary	Prospects for ptychographical imaging with X-rays and electrons John Rodenburg <i>Univ. of Sheffield, UK</i>
11:15 - 11:50	Tu_Coh2_2 invited	High resolution scanning X-ray diffraction microscopy Pierre Thibault <i>SLS - Paul Scherrer Institut, Switzerland</i>
11:50 - 12:15	Tu_Coh2_3	X-ray imaging with nanoscale beams: phase contrast, fluorescence and diffraction Tim Salditt <i>Univ. Goettingen, Germany</i>
12:15 - 13:30		Lunch
Session: Coherence 3		
13:30 - 14:05	Tu_Coh3_1 invited	Divergent beam coherent diffractive imaging Garth J Williams <i>Univ. of Melbourne, Australia</i>
14:05 - 14:40	Tu_Coh3_2 invited	Phase singularities and orbital angular momentum in X-ray microscopy Ian McNulty <i>Advanced Photon Source, Argonne Natl. Lab, USA</i>
14:40 - 15:05	Tu_Coh3_3	Hard X-ray scanning microscope based on refractive X-ray lenses: fluorescence imaging and coherent diffraction imaging Christian G Schroer <i>Technische Univ. Dresden, Germany</i>
Conference Excursion and Dinner		
15:05 - 23:00		Conference Excursion and Dinner 15:30 Departure of the boat from Zürich Bürkliplatz: <i>be on time, please !</i>



Wednesday, July 23rd, 2008

Session: Werner Meyer-Ilse Memorial Award (WMI)

09:00 - 09:35	We_WMI_1 invited	The history and future of X-ray microscopy Janos Kirz <i>ALS, Lawrence Berkeley National Lab, USA</i>
09:35 - 09:45		Werner Meyer-Ilse ceremony C. Jacobsen <i>SUNY at Stony Brook, Physics Dept.,</i>
09:45 - 09:55		Werner Meyer-Ilse lecture
09:55 - 10:30		Break

Session: Biology Microscopy 1

10:30 - 11:15	We_Bio1_1 complementary	Imaging the hidden lives of stretched proteins Viola Vogel <i>Department of Materials, ETH Zürich, Switzerland</i>
11:15 - 11:40	We_Bio1_2	Dynamical single molecular observations of functional membrane proteins using diffracted X-ray tracking (DXT) Yuji C Sasaki <i>SPring-8, Japan Synchrotron Radiation Research Inst., Japan</i>
11:40 - 12:05	We_Bio1_3	Tracking endogenous metals in life and disease with X-ray fluorescence microscopy Stefan Vogt <i>Argonne National Lab., X-ray Science Division, USA</i>
12:05 - 12:30	We_Bio1_4	X-ray imaging of various biological samples using a phase-contrast hard X-ray microscope Sang Joon Lee <i>Pohang Accelerator Lab., POSTECH, PAL, South Korea</i>
12:30 - 14:00		Lunch

Session: Laboratory Microscopy

14:00 - 14:35	We_Lab_1 invited	Laboratory X-ray micro imaging: sources, optics, systems and applications Hans M Hertz <i>Royal Inst. of Technology KTH, Sweden</i>
14:35 - 15:00	We_Lab_2	High power soft X-ray source based on a discharge plasma Markus Benk <i>Fraunhofer Institut fuer Lasertechnik, Aachen, Germany</i>
15:00 - 15:25	We_Lab_3	Tabletop soft X-ray diffractive imaging with 70 nm resolution Richard L Sandberg <i>Univ. of Colorado and National Institute of Standards and Technology, Department of Physics and JILA, USA</i>
15:25 - 16:00		Presentation XRM2011: candidates and vote

Session: Poster 2

16:00 - 18:30	P2_	Poster Session
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Thursday, July 24th, 2008

Session: Biology Microscopy 2

08:30 - 09:05	Th_Bio2_1 invited	Observation of bio-fibers with a hard X-ray microscope Hwa Shik Youn <i>Pohang Accelerator Lab., POSTECH, PAL, South Korea</i>
09:05 - 09:30	Th_Bio2_2	Nanostructure analysis by coherent hard X-ray diffraction Yoshinori Nishino <i>RIKEN Harima Inst., Japan</i>
09:30 - 09:55	Th_Bio2_3	Quantitative 3D imaging of eukaryotic cells using soft X-ray tomography Carolyn A Larabell <i>Lawrence Berkeley National Lab, Life Sciences, USA</i>
09:55 - 10:30		Break

Session: Methods 3

10:30 - 11:15	Th_Met3_1 complementary	Breaking Abbe's barrier: fluorescence microscopy with diffraction-unlimited resolution Stefan W Hell <i>Max Planck Inst. for Biophysical Chemistry, Göttingen, Germany</i>
11:15 - 11:50	Th_Met3_2 invited	Status and future of commercial X-ray microscopes Michael Feser <i>Xradia Inc., USA</i>
11:50 - 12:05	Th_Met3_3	Advanced X-ray diffractive optics Joan Vila-Comamala <i>LMN - Paul Scherrer Institut, Switzerland</i>
12:15 - 14:00		Lunch

Session: Methods 4

14:00 - 14:35	Th_Met4_1 invited	Cryo-tomography and spectromicroscopy with the energy-tunable BESSY - TXM Stefan Heim <i>BESSY, Germany</i>
14:35 - 15:10	Th_Met4_2 invited	Recent developments of Zernike phase contrast X-ray microscopy and microtomography Sadao Aoki <i>University of Tsukuba, Japan</i>
15:10 - 15:35	Th_Met4_3	Specialized diffractive optics for contrast and resolution enhancement Anne Sakdinawat <i>CXRO, Lawrence Berkeley National Lab., USA</i>
15:35 - 16:00		Break

Session: Magnetic Materials

16:00 - 16:35	Th_Mag_1 invited	Magnetization dynamics in nanostructures Hermann Stoll <i>Max Plank Institut für Metallforschung, Stuttgart, Germany</i>
16:35 - 17:00	Th_Mag_2	Time resolved soft X-ray microscopy of current-induced resonant magnetic vortex core motion in a ferromagnetic disk Peter Fischer <i>CXRO, Lawrence Berkeley National Lab., USA</i>
17:00 - 17:25	Th_Mag_3	Nanoscale magnetic gradient materials studied by STXM Thomas Eimüller <i>Ruhr-Univ. Bochum, Germany</i>



Friday, July 25th, 2008

Session: Tomography 1

08:30 - 09:05	Fr_Tom1_1 invited	Toward X-ray nanotomography Peter Cloetens <i>European Synchrotron Radiation Facility, France</i>
09:05 - 09:30	Fr_Tom1_2	3D characterization of polycrystalline materials by synchrotron radiation X-ray diffraction contrast tomography Wolfgang Ludwig <i>INSA Lyon, Lab. MATEIS, France</i>
09:30 - 09:55	Fr_Tom1_3	Nano-tomography of Comet 81-P/Wild2 terminal particles captured in aerogel Sean Brennan <i>Univ. Stanford, Stanford Linear Accelerator Center, USA</i>
09:55 - 10:30		Break

Session: Tomography 2

10:30 - 11:05	Fr_Tom2_1 invited	Hard X-ray imaging holography and tomography Yoshio Suzuki <i>SPring-8, Japan Synchrotron Radiation Research Inst. JASRI, Japan</i>
11:05 - 11:30	Fr_Tom2_2	3-d chemical imaging with STXM tomography Adam P Hitchcock <i>McMaster Univ., Brockhouse Inst. for Mat. Research, Canada</i>
11:30 - 12:05	Fr_Tom2_3 invited	Microscopy of polymers: from science to applied applications Harald Ade <i>North Carolina State Univ., Dept. of Physics, USA</i>

Session: Closing

12:05 - 12:20		Closing address Christoph Quitmann (conference chair) <i>Paul Scherrer Institut, Switzerland</i> Alan Michette (IPAC chair) <i>King's College London, UK</i>
12:20 - 12:35		XRM 2011 Announcement

Visit to PSI and SLS

13:00 - ca 18:00		Visit to PSI and SLS
	13:00	Departure from ETHZ by bus
		Lunch
		Visit
	ca 18:00	Return to Zürich