

Program

Kobayashi Hall, Kenkyu Honkan Bldg., KEK

December 8 (Thu), 2011

8:30 – 9:00	Opening	Page
8:30-8:45	Introduction to the Workshop and Presentation of IUCr SR and XAFS Commissions Strategies toward Standardization - S. Wakatsuki (Photon Factory) 15 min.	1
8:45-9:00	IXAS Strategy toward Standardization -H. Oyanagi (AIST) 15 min.	2
9:00-11:45	S1: Chair: K. Asakura (Hokkaido University) To Establish Standardization of XAFS Set-ups Including Bio-XAFS, Similar to Crystallography I (Standardization of Experimental Methods and Data Formats for Higher-throughput of XAFS experiments).	
9:00-9:30	Toward the Standardization of XAFS, Transmission mode XAFS Setup - M. Nomura (Photon Factory) 30 min.	3
9:30-10:00	Toward the standardization of BioXAS -I. Ascone (CNRS) 30 min.	6
10:00-10:30	A Step toward Standardization: Development of Accurate Measurements of X-ray Absorption - C. T. Chantler (Melbourne University) 30 min.	7
10:30-10:45	Coffee break 15 min.	
10:45-11:45	Open Discussion 60 min. Discussion Leader: K. Asakura (Hokkaido University)	
11:45-12:15	S2 Chair: H. Oyanagi (AIST) To Establish Experimental Protocols for Measurements (e.g. Energy Calibration, Beam Stability, Polarization etc.) to Obtain High Quality Data in Physics, Chemistry and Materials Sciences.	
11:45-12:15	XAFS Data Collection: an Integrated Approach to Delivering Good Data - S. Diaz-Moreno (Diamond) 30 min.	8
12:15-13:00	Lunch 45 min.	
13:00 – 16:00	S2 Chair: H. Oyanagi (AIST) (continue) To Establish Experimental Protocols for Measurements (e.g. Energy Calibration, Beam Stability, Polarization etc.) to Obtain High Quality Data in Physics, Chemistry and Materials Sciences.	
13:00-13:20	A Data Interchange Standard for XAS and Related Spectroscopies - B. Ravel (NSLS) 20 min.	9
13:20-13:50	HDF5, NeXus and Beyond – Approach to a Standard Data Format - V. A. Sole (ESRF) 30 min.	10
13:50-14:20	XAFS Data Library for Standard Data on Model Compounds - M. Newville (University of Chicago) 30 min.	11
(14:20-14:30)	(Short break 10 min.)	
14:30-15:00	Imagining a CIF-based XAFS Data Exchange Framework -J. Hester (ANSTO) 30 min.	12
15:00-16:00	Open Discussion 60 min. Discussion Leader: A. Sole (ESRF) and M. Newville (Univ. of Chicago)	
16:00 - 16:15	Coffee break 15 min.	
16:15-19:00	S3-I Chair : K. Hodgson (SSRL) Advanced Techniques and Newly Developed XAFS Beamlines with Advance Specifications I : New Development for Existing or New Beamlines: Combining XAFS and Other Techniques (XES etc.).	

16:15-16:45	Structural Molecular Biology/XAS Beamline: Experiences at SSRL – B. Hedman (SSRL) 30 min.	13
16:45-17:15	The BioXAS beamlines at the Canadian Light Source - G. N. George (University of Saskatchewan) 30 min.	14
17:15- 17:30	Coffee break 15 min.	
17:30-18:00	Metal Speciation in Biological Systems with XANES and XAFS – P. A. Lay (University of Sydney) 30 min.	15
18:00-18:30	Energy Dispersive XAS: Worldwide Context - S. Pascarelli (ESRF) 30 min.	16
18:30-19:00	Quick XAFS Techniques - Current status and New Challenges at PETRA III - R. Frahm (Bergische Universität Wuppertal) 30 min.	17
19:30-21:30	Banquet at the foyer	

December 9 (Fri), 2011

9:00-10:30	S3-II Chair: M. Newville (Univ. of Chicago) Advanced Techniques and Newly Developed XAFS Beamlines with Advance Specifications II.	
9:00-9:30	An Advanced Beamline for XAS and IR Simultaneous Time Resolved experiments. A new Approach to Characterize Non Equilibrium Phenomena. -A. Marcelli (INFN) 30 min.	18
9:30-10:00	Opportunities and Traps of Hard X-ray Photon-in/Photon-out Spectroscopy - P. Glatzel (ESRF) 30 min.	19
10:00-10:30	Ideas for Assuring Data Quality and Comparability at The New PETRA III EXAFS Beamlines - E. Welter (DESY) 30 min.	20
10:30-10:45	Coffee break 15 min.	
10:45-11:45	Brief Summary Report I – K. Asakura (Hokkaido University) 20 min. Discussion 40 min.	
11:45-13:00	Lunch 75 min.	
13:00-13:30	S4 Chair: S. Pascarelli (ESRF) XAFS in Green Technology (Science and Technology Related to Environments and Energy Generations/Savings): Requirements for Industrial Use.	
13:00-13:30	Insight through in situ XAS studies of Catalytic materials - G. Sankar (University college London) 30 min.	21
CANCELLED	<i>In situ</i> structural studies of catalysts under high gas pressure environment - O. V. Safonova (PSI) 30 min.	22
13:30-14:35	S5 Selected Poster Talks Coordinator: H. Abe 65 min.	
	Single Crystal XAS Studies on Metalloprotein Intermediates -R. Sarangi (Stanford University)	23
	T-REX for advanced QEXAFS data analysis -J. Stötzl (Bergische Universität Wuppertal)	24
	In situ Time-resolved XAFS Study of the Formation Mechanism of Rh NPs in the Presence of Quaternary Ammonium Bromide - H. Asakura (Kyoto University)	25
14:35-14:50	Short break 15 min.	
14:50-15:50	Brief Summary Report II – I. Ascone (CNRS) 20 min. Open Discussion 40 min.	
15:50-16:10	Coffee break 20 min.	
16:10-17:50	S6 Chair: H. Abe	

New Challenges in XAFS Research and Requirements on Light Sources and Beamlines		
16:10-16:50	Recent Developments with the LCLS X-ray FEL at SLAC and Prospects for Future Science - K. O. Hodgson (SSRL) 40 min.	26
16:50-17:50	Panel Discussion 60 min. Future prospects and demands on XAFS beamlines Discussion leaders: Moderator: P. Lay (from Asia-Oceania) Panellist: S. Pascarelli, P. Glatzel (from EU), M. Nomura, B. Hedman, G. George (from North America)	
18:00-20:15	Poster session with a buffet-style dinner at the foyer	
20:15-20:30	Poster Awards Ceremony 15 min.	
	Presenter: I. Ascone (CNRS), Support presenter: H. Abe (KEK)	
20:30-20:45	Summary Report & Closing 15 min.	
21:00-23:00	Closed Night Session for Summary Report Preparation	

Poster Presentation

Poster #	Title/Presenter	Page
P-01	<i>In situ</i> Observation of Reduction Reactions of Iron Oxides by XAFS [1]. - T. Takayama (Nippon Steel Corp.)	27
P-02	Understanding the Nature of the Kinetic Process in a VO ₂ Metal-Insulator Transition - Q. Liu (University of Science and Technology of China)	28
P-03	Single Crystal XAS Studies on Metalloprotein Intermediates - R. Sarangi (Stanford University)	23
P-04	New Development of 1W1B-XAFS Station in Beijing Synchrotron Radiation Facility - Z. Jing (Institute of High Energy Physics)	29
P-05	Time-resolved XAS beamline at SLRI - P. Chirawatkul (Synchrotron Light Research Institute)	30
P-06	XANES Database in the CK, NK, and OK Regions of Standard Organic Compounds and Metal Compounds for Chemical Analysis - Y. Nakayasu (University of Hyogo)	31
P-07	Total-Electron-Yield (TEY) Soft X-Ray Absorption Spectroscopy of the sp ² /sp ³ -Carbon Mixtures; Relationship between the TEY Efficiency and Electrical Conductivity - Y. Muramatsu (University of Hyogo)	32
P-08	<i>In situ</i> Time-resolved XAFS Study of the Formation Mechanism of Rh NPs in the Presence of Quaternary Ammonium Bromide - H. Asakura (Kyoto University)	25
P-09	Continuous Observation by Dispersive XAFS Technique for Catalytic Reaction - D. Matsumura (Japan Atomic Energy Agency)	33
P-10	XAFS measurements from Mg to Zn K-edges at Beamline 8 of Siam Photon Laboratory - W. Klysubun (Synchrotron Light Research Institute)	34
P-11	Time-resolved <i>In situ</i> XAFS Studies on Formation and Oxidation of Pd-Zn nanoparticles on ZnO - Y. Uemura (KEK-PF)	35
P-12	Determination of Electronic and Geometric Structure of Molybdenum in Molybdenum-based Catalysts using L-edge X-ray Absorption Spectroscopy - C. Kongmark (Synchrotron Light Research Institute)	36
P-13	Week Interaction Effect Study of Blue Copper Protein with XAS - T. Yamaguchi (Ibaraki University)	37
P-14	XAS Studies on Electronic Structure of Metal Sites in a Blue Copper Protein, Plastocyanin form Fern <i>Dryopteris crassirhizoma</i>	38

	- <i>H. Togashi (Ibaraki University)</i>	
P-15	Status of the Toyota Beamline at the SPring-8 - <i>Y. Nishimura (Toyota Central R&D Laboratories, Inc.)</i>	39
P-16	T-REX for advanced QEXAFS data analysis - <i>J. Stötzel (Bergische Universität Wuppertal)</i>	24
P-17	Dynamic Investigation of Photoinduced Phase Transition by Picosecond Time-resolved XAFS - <i>S. Nozawa (KEK-PF)</i>	40
P-18	Observation of the ³ MLCT state of [Ru ^{II} (bpy) ₃] ²⁺ by picosecond Time-resolved Ru K-edge XAFS - <i>T. Sato (KEK-PF)</i>	41
P-19	Upgrade of the ESRF X-ray Absorption Spectroscopy Beamlines: The general purpose EXAFS beamline BM23 <i>O. Mathon (ESRF)</i>	42
P-20	Upgrade of the ESRF X-ray Absorption Spectroscopy Beamlines: The Energy Dispersive EXAFS Beamline ID24 <i>O. Mathon (ESRF)</i>	42
P-21	Upgrade of the ESRF X-ray Absorption Spectroscopy Beamlines: The scientific case <i>S. Pascarelli (ESRF)</i>	43
P-22	High-accuracy Measurements of the X-ray Mass-attenuation Coefficient of Copper - <i>C. T. Chantler (Melbourne University)</i>	44
P-23	XAFS and XANES Analysis: A study in errors - <i>C. T. Chantler (Melbourne University)</i>	45

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