Thursday, August 27

08:30 – 09:10 — Audimax

V-PL-06
Philippe Martin — M. Denecke
Application of HERFD and in situ XAS to the investigation of oxide nuclear fuel and fission product behavior

09:10 – 09:50 — Audimax

I-PL-07
Peter Blaha — P. Glatzel
Electron-hole interactions in theoretical XAFS calculations

09:50 – 10:00 — Audimax

General announcements

10:00 – 10:20

Coffee break

10:20 – 12:30

Audimax A	Audimax B	Neue Chemie	Criegee	Chemie HS I
Actinides & Radionuclides II S. Conradson, T. Vitova	L-edge theory F. de Groot, P. Blaha	Devices and applications D. Haskel	Advanced in situ C. Chantler, C. Lamberti	Industrial symposium I A.I. Frenkel, K. Kvashnina, M. Casapu
	I-KN-11 M. Haverkort Ab initio methods for core level spectroscopy - excitons, resonances and band excitations in time and frequency domain			IS-Introduction A.I. Frenkel
V-O-22 S.M. Butorin Ground state character in high-resolution x-ray absorption at M, N and O edges of actinides		**VI-O-24 M. Matsuura** Structure analyses of Cu clusters and precipitated a-Fe during nanocrystallization of soft magnetic Fe85.2Si1B9P4Cu0.8 alloys by XAFS	**III-O-13 S. Baier** Lithographically fabricated silicon microreactor for in situ characterization of heterogeneous catalysts	**IS-O-01 T. Hyde** Study of Industrial Catalysts by X-Ray Adsorption Spectroscopy
V-O-23 D. Prieur Electronic and structural changes induced by the incorporation of aliovalent cation in UO2	**I-O-12 H. Ikeno** Development of the Ab-Initio Multiplet Approach for K pre-edge and L2,3-edge RIXS in Transition Metal Compounds	**VI-O-25 S. Lafuerza** LuFe2O4: a potential charge-ordering driven multiferroic studied by XAS at the Fe and O K-edges	**III-O-14 O. Hirsch** Atomic and electronic structure of La2O2CO3 on the basis of X-ray absorption and emission spectroscopy and the reactivity of La2O2CO3 films towards CO2	**IS-O-02 P. Albers** Applications of synchrotron radiation and neutron scattering in industrial catalyst research
V-O-24 N. Finck EXAFS signatures of trivalent actinides uptake by green rust and magnetite	**I-O-13 I. Josefsson** Modeling x-ray spectra of metal complexes from first principles	**VI-O-26 R. Schepper** High energy resolution X-ray absorption and emission spectroscopy for the investigation of spin crossover processes	**III-O-15 V. Briois** Study of SnO2 nanoparticles genesis using combined time-resolved Raman and Quick-XAS spectroscopies	**IS-O-03 C. Tyrsted** The nitrate-nitrite equilibrium: a key step in the NH3-SCR mechanism over Cu-CHA type catalysts
V-O-25 G. Creff Actinides interaction with human bone: speciation and accumulation mechanisms	**I-O-14 M. Guo** Simulations of iron K pre-edge X-ray absorption spectra using the core restricted active space method	**VI-O-27 D. Grandjean** Structural characterization of highly luminescent molecular silver clusters embedded in LTA zeolites using combined Ag K-edge XEOL and transmission-detected EXAFS	**III-O-16 E.K. Gibson** A combined XAFS/DRIFTS study of AuPd nanoparticle restructuring	
V-O-26 I. Pidchenko U Redox State and Speciation of U In Contact with Magnetite Nanoparticles: High Resolution XANES, EXAFS, XPS and TEM Study	**I-O-15 M. Hunault** Tracking the signature of low symmetry environments in the XAS K pre-edge	**VI-KN-28 T. Miyanaga** XAFS study on luminescent Ag zeolites	**III-KN-17 S. Best** X-ray Spectroelectrochemistry – Valuable use of sample?	**IS-O-04 Y. Nagai** Study of automotive catalysts for emission control by X-ray absorption spectrometry

12:30 – 13:40

Lunch break

13:40 – 15:10

Audimax A	Audimax B	Neue Chemie	Criegee	Chemie HS I
Nanostructures A. Soldatov, M. Giorgetti	Applied theory J. Rehr, M. Haverkort	Atoms and solvation A. Goldbach, M. Ronning	Microscopy application C.G. Schroer, U. Boesenberg	Industrial symposium II A.I. Frenkel, K. Kvashnina, M. Casapu
VII-KN-10 S. Price In situ XAS of electrochemical systems	**I-KN-16 P. D'Angelo** The structure of liquids: an insight from XAFS and Molecular Dynamics	**IV-O-29 S.-Y. Chang** Evidence for a Strongly Bound Solvent Molecules: XANES and EXAFS of Aqueous Au(III) Cyanide	**IX-KN-06 K. Janssens** XAFS and species-specific imaging: new and old combinations for elucidating natural alteration reactions in pigmented materials	**IS-O-05 A. Kroner** Industrial Research on Catalysis at Diamond Light Source
VII-O-11 M. Katsikini Simulation of the EXAFS and Raman spectra of InxGa1-xN enabling the equation of motion routine of FEFF8	**I-O-17 R. Nemausat** Experimental and ab initio study of phonon effects in X-ray Absorption Near-Edge Structure spectroscopy	**IV-O-30 J. Szlachetko** Two-photon absorption using off-resonant excitation with ultrashort X-ray pulses	**IX-O-07 R. Gordon** A microchannel confocal examination of arsenic speciation and distribution in Bufo americanu	**IS-O-06 J. Wang** XAFS characterization of Industrial catalysts for metal-containing molecular sieves
VII-O-12 H. Kim X-ray absorption study of the newly observed reaction mechanism of mesoporous SnO2 electrode for the next generation Li-ion battery	**I-O-18 P. Krüger** Calculation of L23-edge spectra of K, Ca and Ti compounds with multichannel multiple scattering theory	**IV-O-31 S.A. Thomas** An X-ray absorption spectroscopy study of the molecular structure of aqueous Hg(II)-EDTA	**IX-O-08 F. Mosselmans** Micro X-ray imaging of single catalyst particles under operating conditions	**IS-O-07 C. Tardivat** In-situ XAFS studies of Pt/CeO2 oxidation catalysts
VII-O-13 N. Lock Copper doped TiO2 characterized by X-ray absorption spectroscopy, total scattering and powder diffraction	**I-O-19 I.E. Brumboui** The influence of oxygen adsorption on the O1s XPS and NEXAFS spectra of the C60 derivative PC60BM	**IV-O-32 S. Bartlett** Stopped-Flow Freeze-Quench EXAFS: A New Method to Investigate In-Situ Homogeneous Catalysis	**IX-O-09 J. Hormes** Synchrotron radiation based X-ray absorption and X-ray fluorescence for art and cultural heritage: opportunities and pitfalls	

15:10 – 15:30

Coffee break

	RIXS and gas release E. Umbach, L. Weinhardt	Advanced XAS Technics II E. Aziz, T. Kroll	Phase transitions and theory H. Ebert, C. Schmitz-Antoniak	Microscopy instrumentation G. Falkenberg, A. Rosenhahn	Industrial symposium III A.I. Frenkel, K. Kvashnina, M. Casapu	
15:30					**IS-O-08 T. Honma**	15:30
15:40	**VII-O-14 L. Amidani** Probing with RIXS plasmonic-generated charges in TiO2/Au for photocatalysis	**III-O-18 C. Jansing** Investigation of the Natural X-Ray Birefringence of Graphene by Polarization Spectroscopy	**VI-O-29 F. Goillou** XANES/XMCD study at K-edges of the ferromagnetic transition of MnFe(P,Si,B) magnetocaloric materials	**IX-O-10 P. Tack** A novel approach towards full-field emission mode micro-XANES spectroscopy	Current status of Industrial Utilization of XAFS at SPring-8	15:40
16:00	**VII-O-15 C. Sternemann** Thermally induced hydrogen desorption in magnesium and calcium borohydrides	**III-O-19 K.A. Lomachenko** HERFD XANES and RIXS spectroscopies: probing the electronic structure of osmium complexes	**VI-O-30 N.M. Souza-Neto** Probing 5f-6d electronic hybridization in Uranium compounds with L2,3 edge x-ray magnetic circular dichroism	**IX-O-11 S. Mangold** Newest advances with radiography at the ANKA-XAS using the example of insect mandibles	**IS-O-09 Y. Takeda** XAFS beam lines at Aichi SR Center dedicated to industrial use	16:00
16:20	**VII-O-16 M. Nishibori**	**III-O-20 R. Boada**	**VI-O-31 O. Sipr**	**IX-O-12 L. Lühl**		16:20
16:30	Relationship between O2 desorption property and bulk/local structure of La-Sr-Co-Fe perovskite-type oxide in atmospheres with varying oxygen partial pressure	X-ray spectroscopy study of gas adsorption in metal organic frameworks	Intuitive view on the magnetic dipole term Tz occurring in the XMCD sum rules	The Confocal XRF Setup for Chemical Speciation: Reconstruction Procedure for Confocal XANES and Three-Dimensional Chemical Mapping	**IS-O-10 A.I. Frenkel, K. Kvashnina**	16:30
16:40	**VII-O-17 I. Pankin** Phase transition in Mn(BH4)2 upon heating: combined XAS, XRD and DFT study	**III-O-21 S. Zhao** Correlative use of operando XAS and operando TEM for studies of structural dynamics of catalyst	**VI-O-32 N. Mas** Ab-initio calculation of K-edge XMCD and XNCD spectra	**IX-O-13 O. Sekizawa** SPring-8 BL36XU: Catalytic Reaction Dynamics for Fuel Cells	Roundtable discussion	16:40
17:00						17:00

Audimax A | Audimax B | Neue Chemie | Criegee | Chemie HS I

Individual transfer to Center for Art and Media (ZKM)

18:00	18:00
Center for Art and Media (ZKM) tour	
19:00	19:00
Dinner	
Poster awards	
Official end 23:00	
23:00	23:00

Topic color code

General
I. Theory and Modelling, Data analysis
III. Advanced Methods
IV. Chemistry, catalysis, operando and time-resolved studies
V. Radionuclides, actinides, earth and environmental
VI. Materials Science
VII. Energy-related materials
IX. Microscopy, beamlines, applications, cultural heritage
XFEL, Industrial Symposia