

08:30	<b>II-PL-02</b> <b>Anders Nilsson</b> Ultrafast X-ray Spectroscopic Probing of Catalytic Surface Chemical Reactions using LCLS	F. de Groot					08:30
09:10	<b>V-PL-03</b> <b>Alain Manceau</b> Emerging applications of high-resolution XANES spectroscopy in environmental science	A. Vögelin					09:10
09:50	Conference picture and general announcements						09:50
10:10	Coffee break						10:10
10:30	Environmental II A. Manceau, J. Göttlicher	Operando and time-resolved G. Aquilanti, J. Purans	Advanced XAS Technics I P. Glatzel, S. Huotari	Surfaces and interfaces D. Lützenkirchen-Hecht, H. Abe	Soft X-Ray XAFS A. Nilsson		10:30
10:40	<b>V-KN-10</b> <b>A. Voegelin</b> Exploring the formation and structural diversity of Fe(III)-precipitates in aquatic systems using XAS	<b>VI-O-11</b> <b>A.D. Winter</b> Thermo-mechanical behaviour of EVA/CNT composites studied through in situ NEXAFS spectroscopy	<b>III-KN-05</b> <b>M. Nachttegaal</b> Time-resolved x-ray absorption and emission spectroscopies to determine the structure of the catalytic active site	<b>IV-KN-15</b> <b>K. Asakura</b> Polarization dependent total reflection fluorescence XAFS and the control of metal structures on oxide surfaces	<b>XFEL-Spectroscopies at XFELs: a Short Introduction</b> C. Bressler		10:40
10:50					<b>XFEL-01</b> <b>S. Schreck</b> Implications of adding the dimension of time to science with X-rays		10:50
11:10	<b>V-O-11</b> <b>D. Cabaret</b> Probing the 3d states of Fe in goethite using Al K-edge XANES spectroscopy	<b>VI-O-12</b> <b>T. Yao</b> Time-resolved XAFS in kinetic formation and transition mechanism of nanoclusters and nanocrystals	<b>III-O-06</b> <b>J.-C. Gasse</b> Yoneda-XAFS experiments with X-ray area detectors	<b>IV-O-16</b> <b>H.L. Meyerheim</b> XAFS study of the local structure of iron on the (0001) surface of the topological insulator Bi <sub>2</sub> Se <sub>3</sub>	<b>XFEL-02</b> <b>P. Wernet</b> Orbital-specific mapping of chemical dynamics		11:10
11:30	<b>V-O-12</b> <b>F. Pinakidou</b> Metal (Hydro)oxides for the removal of Cr(VI) from drinking water: a XAFS study	<b>VI-O-13</b> <b>D. Degler</b> Operando X-ray absorption spectroscopy: A key technique to understand the structure-function-relationship of noble metal doped gas sensing materials	<b>III-O-07</b> <b>G. van der Laan</b> Probing the magnetization dynamics of spin valve systems using x-detected ferromagnetic resonance	<b>IV-O-17</b> <b>N.I. Verbitskiy</b> Atomically precise semiconductor-graphene interfaces by Ge intercalation	<b>XFEL-03</b> <b>R. Carley</b> Ultrafast generation of magnetic ordering in a first order phase transition in FeRh		11:30
11:50	<b>V-O-13</b> <b>R. Dähn</b> X-ray microspectroscopic investigations of heavy metal uptake by argillaceous rocks	<b>VI-O-14</b> <b>T. Asanova</b> Energy-dispersive XAFS and PXRD study of (NH <sub>4</sub> ) <sub>2</sub> [OsCl <sub>6</sub> ] thermolysis	<b>III-O-08</b> <b>C.T. Chantler</b> The quality of X-ray Absorption Fine Structure measurements by Transmission for dilute systems, using the Hybrid Technique	<b>IV-O-18</b> <b>F. d'Acapito</b> The Role Of Ag and Sb Ions In The Resistive Switching Mechanism Of Conductive Bridging Random Access Memories	<b>XFEL-04</b> <b>M. Beye</b> Stimulating soft X-ray emission from condensed matter		11:50
12:10	Lunch break						12:10

	Earth and extreme conditions A. Vögelin, R. Dähn	In situ and operando studies A. Leon, F. Scheiba	XES + RIXS H. Carvalho, M. Nachttegaal	Surfaces and electrocatalysis K. Asakura, S.L. Schroeder	Hard X-Ray XAFS C. Bressler		
13:30	<b>V-KN-14</b> <b>Y. Ping</b> XAFS in high-energy-density matter: solid iron up to 560GPa	<b>VII-KN-01</b> <b>D. Asakura</b> Electrochemical operando soft x-ray emission spectroscopy for Li-ion-battery electrodes	<b>III-KN-09</b> <b>M. Bauer</b> Homogeneous catalysis and high resolution hard X-ray absorption and emission spectroscopy	<b>IV-O-19</b> <b>D. Lützenkirchen-Hecht</b> Ex-situ and in-situ investigations of thermal anti-oxidation treatments of Cr-Ni steels by reflection mode EXAFS	<b>XFEL-05</b> <b>K. Gaffney</b> Probing chemical reaction dynamics with atomic resolution and specificity using ultrafast x-ray spectroscopy		13:30
13:40							13:40
14:00	<b>V-O-15</b> <b>J. Pohlenz</b> Structural Properties of Sodium-Rich Carbonate-Silicate Melts: An In-situ High-Pressure EXAFS Study on Y and Sr	<b>VII-O-02</b> <b>M. Tromp</b> Operando XAS Characterization of LIS Batteries	<b>III-O-10</b> <b>S. Mebs</b> Abrupt vs. gradual spin-cross-over in classic Fe(II) and Fe(III) compounds analyzed by high-resolution XAS/XES and DFT	<b>IV-O-20</b> <b>M.-H. Chu</b> In situ X-ray absorption spectroscopy characterization of the incipient growth of ZnO thin films by atomic layer deposition	<b>XFEL-06</b> <b>G. Vankó</b> Tracking light-induced ultrafast transformations of transition metal complexes		14:00
14:20	<b>V-O-16</b> <b>M.J. Ward</b> Large area – high spatial resolution iron XANES mapping of impact melt-bearing breccias	<b>VII-O-03</b> <b>Z. Arthur</b> In situ XAS/XRD Study of Li <sub>2</sub> FeSiO <sub>4</sub> as LIB Cathode Material	<b>III-O-11</b> <b>A. Bordage</b> In situ site-selective K-edge XAS: A powerful probe of the transformation of mixed-valence compounds	<b>IV-O-21</b> <b>K.K. Bando</b> In situ XAFS and XRD observation during a preparation process of an electroluminescent Tb doped alumina film	<b>XFEL-07</b> <b>T. Katayama</b> Developments for time-resolved X-ray spectroscopies using X-ray Free Electron Lasers at SACLA		14:20
14:40	<b>V-O-17</b> <b>N. Thammajak</b> Discovering effect of radiation interaction on color of freshwater cultured pearls	<b>VII-O-04</b> <b>K. Aziz-Lange</b> In-situ techniques for soft X-ray spectroscopy on catalytic and electrochemical systems	<b>III-O-12</b> <b>M. al Samarai</b> Redox sensitivity of cobalt in the CoMoS and CoNiMoS HDS catalyst: a Resonant Inelastic X-ray Scattering study	<b>IV-O-22</b> <b>L.A. Bugaev</b> Atomic structure of PtCu nanoparticles in PtCu/C catalysts prepared by simultaneous and sequential deposition of components on carbon support	<b>XFEL-08</b> <b>Y. Uemura</b> Femto to Picosecond Transient States of a Photoexcited WO <sub>3</sub> Photocatalyst		14:40
15:00		<b>VII-O-05</b> <b>G. Aquilanti</b> Operando XAS study of Li-S batteries		<b>IV-O-23</b> <b>L. Zhang</b> EXAFS-A Powerful Tool to Determine the Structure of Active Species in Single-atom Catalysts	<b>XFEL-09</b> <b>D. Zhu</b> Development in Ultrafast X-ray Spectroscopy at the X-ray Pump Probe Instrument of the LCLS		15:00
15:20	Coffee break						15:20

					XFEL XAFS Applications W. Gawelda	
15:40	Earth & Radionuclides T. Reich, M. Boyanov	Nanostructures & Coordination chemistry C. Roth, Y.-L. Soo	Implanted atoms and particles F. Boscherini	Session reserved for special topics	<b>XFEL-10 T. Kroll</b>	15:40
15:50	<b>V-O-18 K. Kvashnina</b> Recent progress in high energy resolution X-ray spectroscopy of actinides	<b>VII-O-06 M. Marcus</b> Asymmetric pathways in the electrochemical conversion reaction of NiO as battery electrode with high storage capacity	<b>VI-O-15 A. Figueroa</b> Local structure and bonding of magnetic dopants in Bi <sub>2</sub> Se <sub>3</sub> and Bi <sub>2</sub> Te <sub>3</sub> topological insulator thin films	To be announced on short notice	X-Ray Spectroscopy at XFELs – Present and Future	15:50
16:10	<b>V-O-19 B. Mishra</b> Using X-ray Raman to Study Soil Carbon Biogeochemistry	<b>VII-O-07 A. Zitolo</b> XAS spectroscopic fingerprint of the active site in non-precious metal electrocatalysts for PEM fuel cells	<b>VI-O-16 R. Feng</b> EXAFS study on the structural properties of In and In + C implanted Ge		<b>XFEL-11 C. Milne</b> Revealing Charge Carrier Trapping in ZnO nanoparticles with Femtosecond time-resolved X-ray Spectroscopy	16:10
16:30	<b>V-O-20 A. Gaur</b> XAFS study of copper(II) diethylenetriamine complexes having different coordination geometries	<b>VII-O-08 E. Borfecchia</b> A XAS study of the local environment and reactivity of Pt-sites in functionalized UiO-67 MOFs	<b>VI-O-17 M.A. Sahiner</b> Subtle local structural variations in oxygen deficient niobium germanate thin film glasses as revealed by x-ray absorption spectroscopy		<b>XFEL-12 Y. Kayser</b> RIXS spectroscopy at hard XFELs using non-monochromatized SASE pulses	16:30
16:50	<b>V-O-21 M. Vespa</b> X-Ray Absorption Spectroscopic analyses of stable Fe-phases in aged cements	<b>VII-O-09 W. Szczerba</b> On the electronic structure and coordination geometry of iron based metallo-supramolecular coordination polyelectrolytes in working electrochromic devices	<b>VI-O-18 I.A. Kowalik</b> Soft x-ray absorption spectroscopy on Atomic Layer Deposition grown ZnO films		<b>XFEL-13 M. Harmand</b> Matter under extreme conditions probed with ultrafast XANES on FEL facilities	16:50
17:10						<b>XFEL-close out</b> C. Bressler/W. Gawelda
17:20						17:20

Evening break, transition to poster session

18:00	Poster session II					18:00
19:30						19:30

#### Topic color code

General
III. Advanced Methods
IV. Chemistry, catalysis, operando and time-resolved studies
V. Radionuclides, actinides, earth and environmental
VI. Materials Science
VII. Energy-related materials
XFEL, Industrial Symposia