

**EBS workshop on  
X-ray Raman Scattering spectroscopy  
ESRF auditorium**

**Wednesday 3rd April 2019**

11:00	Registration with welcome coffee in the ESRF Central Building entrance hall	
12:00	Lunch at the EPN campus restaurant	
13:30	Welcome/Introduction by <b>H. Reichert</b>	
13:45	<b>Session Instrumentation</b> Chair: C. Sternemann	Considerations on the capabilities of ID20 X-ray Raman spectrometer <b>S. Huotari</b>
14:15		XRS at the GALAXIES beamline, SOLEIL Synchrotron <b>J.-P. Rueff</b>
14:45		Inelastic X-ray scattering at P01, DESY <b>M. Sundermann</b>
15:00	Coffee	
15:30	<b>Session Instrumentation</b> Chair: C. Sternemann	X-ray Raman Spectroscopy using the LERIX facility at the APS <b>M. Balasubramanian</b>
16:00		High energy resolution fourteen-crystal spectrometer for high quality fluorescence and absorption measurements on an X-ray Absorption Spectroscopy beamline <b>O. Proux</b>
16:20		Discussions on Instruments
16:40	<b>Session Imaging</b> Chair: S. Huotari	Carbon speciation in ancient and historical systems using X-ray Raman spectroscopy and imaging <b>L. Bertrand</b>
17:20	Visit ID20 (1h)	
19:00	Dinner onsite	

**Thursday 4th April 2019**

9:00	<b>Session Theory</b> Chair: G. van der Laan	Modeling X-ray Raman scattering with Xspectra <b>G. Radtke</b>
9:20		X-ray Raman scattering calculations with the OCEAN code <b>K. Gilmore</b>
9:50		Momentum transfer dependence in X-ray Raman scattering <b>Y. Joly</b>
10:10	Discussions on Calculs	
10:30	Coffee	
11:00	<b>Session Liquids</b> Chair: G. Lelong	Statistical view on core-level spectra of liquids <b>J. Niskanen</b>
11:30		X-ray Raman scattering study of hydrothermal fluids: The case of aqueous sodium chloride solutions <b>M. Elbers</b>
11:50		X-ray Raman scattering for the study of hydrothermal carbon materials <b>L. Higgins</b>
12:10		Discussions on Liquids
12:30	Lunch at the EPN campus restaurant	
14:00	<b>Session Correlated Electron Systems</b> Chair: K. Gilmore	Core-level non-resonant inelastic X-ray scattering (NIXS): Beyond the dipole limit <b>H. Tjeng, A. Severing, A. Amorese, M. Sundermann</b>
15:00		Electronic excitations and momentum densities in oxides studied by inelastic X-ray scattering <b>K. Ruotsalainen</b>
15:30		Discussions on Correlated Electron Systems
15:45	Coffee	
16:15	<b>Session High Pressure</b> Chair: M. Wilke	Polyamorphism in oxyde glasses <b>G. Lelong</b>
16:45		Magma properties at deep earth's conditions from electronic structure of silica measured using X-ray Raman Spectroscopy <b>S. Petitgirard</b>
17:15		Pressure-driven changes in XRS spectra of compressed amorphous MgSiO <sub>3</sub> glass <b>G. Spiekermann</b>
17:35	Discussions on High Pressure	
20:00	Workshop dinner at the restaurant L'Epicurien	

**Friday 5th April 2019**

9:00	<b>Session Energy Materials</b> Chair: J.-P. Rueff	Fingerprinting reaction pathways of lightweight compounds by X-ray Raman scattering Spectroscopy: Application to hydrogen storage <b>C. Sternemann</b>
9:30		The effect of Ni doping on the performance and electronic structure of LSCF cathodes used for IT-SOFCs <b>A. Longo</b>
9:50		Bulk sensitive soft X-ray edges probing in electrodes for battery application <b>M. Fehse</b>
10:10	Coffee	
10:40	<b>Session Energy Materials</b> Chair: M. Balasubramanian	XRS study of medium range order in crystalline alkali borates <b>E. de Clermont</b>
11:00		X-ray Raman scattering study of Li-based compounds at high temperature <b>M.R. Cicconi</b>
11:20		XRS study of metal hydride nanocomposites for energy storage applications <b>P. Ngene</b>
11:40		X-ray Raman scattering of photocharged BiVO <sub>4</sub> reveals beneficial effect on the space charge region <b>N. Firet</b>
12:00	Discussions on Energy Materials	
12:15	Future of XRS / XRS workshop 2	
12:35	Lunch at the EPN campus restaurant	
14:00	End of workshop	