



Day 1 Wednesday 30 March Partners' Room, 8 th Floor, Newcastle University Business School	
12:30	<u>Registration and light lunch</u>
13:15	<u>Welcome</u> Dr. Tom Penfold, Newcastle University Dr. Sofia Diaz-Moreno, Diamond Light Source
13:30	<u>Keynote 1</u> Prof. Christopher Chantler, University of Melbourne "New Opportunities in X-ray Spectroscopy, including exciting development in RIXS/ HERFD: Discovery of new satellites using extended range HERFD XAS/XES"
14:15	<u>Presentations</u> Antonia Freibert, University of Hamburg "Simulating time-resolved X-ray absorption spectroscopy of pyrazine at the nitrogen K-edge with a full time-domain approach" Matthijs van Spronsen, Diamond Light Source "Interface Sensitivity in soft X-ray absorption spectroscopy via electron/ion yield: The TiO ₂ -H ₂ O interface"
15:05	<u>Coffee Break</u>
15:20	<u>Keynote 2</u> Dr. Marcella Iannuzzi, University of Zurich "Absorption spectroscopy and charge transfer process tackled by means of Real-time Time-Dependent Density Functional Theory"
16:05	<u>Keynote 3</u> Dr. Reinhard Maurer, University of Warwick "Simulation of X-ray photoemission and absorption of metal-organic interfaces: Spectroscopic signatures of chemical bonding and dynamics"
16:50	<u>Walk/Taxis to Wylam Brewery</u>
17:00	<u>Poster Session, Drinks and Street Food</u>

Day 2

Thursday 31 March

Partners' Room, 8th Floor, Newcastle University Business School

09:30	<u>Coffees and Networking</u>
10:00	<p style="text-align: center;"><u>Keynote 4</u> Prof. Andrea Russell, University of Southampton “Resolving oxidation and spin states of electrocatalysts and battery materials using HERFD-XANES and XES”</p>
10:45	<p style="text-align: center;"><u>Presentations</u> Martina Fracchia, University of Pavia “Lithiation mechanism in high entropy oxides (HEOs) as anode materials for Li-ion batteries: an operando XAS study”</p>
11:10	<u>Coffee Break</u>
11:25	<p style="text-align: center;"><u>Keynote 5</u> Dr. Robert House, University of Oxford “Revealing Redox Reactions in Battery Cathodes with XAS and RIXS Spectroscopy”</p>
12:10	<p style="text-align: center;"><u>Presentations</u> Ashok Menon, University of Warwick “Oxygen-redox activity in non-Li-excess W-doped LiNiO₂ cathode materials”</p> <p style="text-align: center;">Jennifer Hartley, University of Leicester “Iodine speciation in deep eutectic solvents”</p>
13:00	<u>Lunch</u>
14:00	<p style="text-align: center;"><u>Keynote 6</u> Dr. Simon Beaumont, Durham University “Deploying X-ray Absorption Spectroscopy to catch catalysts in the act”</p>
14:45	<p style="text-align: center;"><u>Keynote 7</u> Dr. Elisa Borfecchia, University of Turin "Local structure and reactivity of metal ions in nanoporous catalysts investigated by in situ/operando X-ray spectroscopy and advanced data analysis methods"</p>
15:30	<u>Coffee Break</u>
15:45	<p style="text-align: center;"><u>Keynote 8</u> Prof. Anatoly Frenkel, Stony Brook University “Predicting Structures from X-ray Spectra: from Nanoparticles to “Single-Atom” Catalysts”</p>
16:30	<p style="text-align: center;"><u>Keynote 9</u> Prof. Joshua Kas, University of Washington Theory and Calculation Core-level Spectroscopies: Green's Function Approaches</p>
17:15	<p style="text-align: center;"><u>Presentations</u> Dr. Joshua Elliot, Diamond Light Source Introduction to the CONEXS Web Portal</p>
17:30	<u>Walk/Taxis to Zarabanda Bing Bing</u>
17:45	<u>Conference drinks and dinner</u>

Day 3
Friday 1 April

Partners' Room, 8th Floor, Newcastle University Business School

09:30	<u>Coffees and Networking</u>
10:00	<u>Keynote 10</u> Dr. María Ángeles Laguna Marco, University of Zaragoza "XAS studies on IrO ₂ and related oxides"
10:45	<u>Keynote 11</u> Dr. Susie Speller, University of Oxford "Understanding radiation damage in high temperature superconductors using x-ray absorption spectroscopy"
11:30	<u>Coffee Break</u>
11:45	<u>Keynote 12</u> Dr. Beth Willneff, University of Leeds "Core level X-ray spectroscopy for applied and industrial research"
12:30	<u>Lunch</u>
13:15	<u>Closing remarks and poster prizes</u>
13:30	<u>Close</u>