



UK Catalysis Hub Summer Conference 17 – 18 June 2026

Harwell Campus, Pickavance Theatre, Rutherford Appleton Laboratory, Harwell Campus

Day One: 17/6/26

11:15	<u>Registration Opens</u>	<u>Rutherford Appleton Laboratory Reception (Building R75)</u>
11:45 -12:30	BUFFET LUNCH – RESEARCH COMPLEX AT HARWELL FOYER (Building R92)	
Session 1	<u>Sustainability</u>	Pickavance Lecture Theatre (R22)
Chair:	Prof. Charlotte Williams, <i>University of Oxford</i>	
12.30 -12.35	Welcome - Introduction	Prof Charlotte Williams, <i>Oxford</i>
12.35 -13.15	Prof. Audrey Moores, McGill University	Mechanochemistry and Aging: Using Mechanical Force to Catalyze Biomass Transformations
13.15 -13:55	Prof. Paula Diaconescu, University of California, Los Angeles	Redox switchable polymerization
13.55 -14:35	Prof. Frank Leibfarth, University of North Carolina	Different Ways to Generate Stereodefined Polymers
14:35 -14:55	Dr Clare Megarity, University of Manchester	Electrified Enzymes: Interactive Electrochemical Control of Multi-Enzyme Cascades
14:55 -15:20	COFFEE BREAK - RESEARCH COMPLEX AT HARWELL FOYER (Building R92)	
Session 2	<u>Advanced Characterization</u>	Pickavance Lecture Theatre (R22) –
Chair:		
15:20-16:00	Dr. Céline Chizallet, IFP Energies Nouvelles	Modelling reaction mechanisms at the atomic scale in industrial Brønsted acidic zeolite catalysts: balancing accuracy with real-world representativity
16:00-16:40	Prof. Xuning Li, Dalian Institute of Chemical Physics (DICP)	The Unique Role of Mössbauer Spectroscopy in Probing Single-Atom Catalysts
16:40- 17:20	Assoc. Prof. Rebecca Ingle, University College London	Automated Kinetic Model Identification in Ultrafast Spectroscopy
17:20-17:40	Dr. Charlotte Vogt, Technion - Israel Institute of Technology	Seeing the unseen: unlocking the hidden forces of catalysis for a sustainable future
17:40 -18.20	Drinks & Posters, Diamond Light Source Atrium	
18:20	Coach to The Crown & Thistle	
19.30	Dinner by invitation: The Crown & Thistle, Abingdon	



Day Two: 18/6/26

8:30 -9:00	Tea and Coffee	Visitor Centre (building R112)
Session 3	<u>Digital Chemistry</u>	Pickavance Lecture Theatre (R22)
Chair:		
9:10-09:15	Introduction	
9.15 -9.55	Dr. James Gebbie, UKRI STFC	UK National Data Storage for Catalysis - Catalyst Hub & PSDI, A Partnership in the Making
9.55 -10.35	Dr. Arunabhiram Chutia, University of Lincoln	Probing surface interactions: From π -metal coupling to metal-oxide interfaces
10.35 -10.55	Dr. Florence Hardy, University of Manchester	De novo photoenzymes with mirror image catalytic sites
10.55 -11.15	Dr. Bastian Skjelstad, University of Oxford	Mechanistic insights into Wacker oxidation from density-functional theory and machine-learned interatomic potentials
11.15 -11.35	Break: Tea and Coffee, Visitor Centre (building R112)	
Session 4	<u>Net Zero</u>	Pickavance Lecture Theatre (R22)
Chair:	<i>Dr. Christopher Partlett, Manchester</i>	
11.35 -11.40	Introduction	
11.40 -12.20	Prof. James Durrant, University of Oxford	Operando optical spectroelectrochemical analyses of water oxidation photo- and electro-catalysis
12:20 -12:40	Dr. Giuseppe Bagnato, Lancaster University	Reaction Engineering for Net Zero
12.40 -13.20	Prof. Alice Larkin, University of Manchester	An interdisciplinary perspective on the climate mitigation challenge
13.20 -13.40	Dr. Richard Lewis, Cardiff University	Hydro-Oxy: Sustainable Routes to Global Chemicals Through In-Situ H ₂ O ₂ Synthesis
13:40-13.45	<i>Closing Remarks</i>	
14:00 -14:45	Buffet Lunch, Visitor Centre (building R112)	
15:30	Close	