UK Catalysis Hub Hydrogen Workshop

12 December 2025

University of Manchester, Oxford Road, Manchester, M13 9PL

Session 1		**Engineering B Building, 2B.025**
Chair:	Prof. Christopher Hardace, Manchester	
9.00 -9.05	**Welcome & Introduction**	Chris or Andy (or Mg member
9.05 -9.30	Prof. Sonya Calnan, Loughborough	Electro-catalyst stability for hydrogen generation under intermittent power conditions
9.30 – 09.55	Prof. Laurie King, Manchester Metropolitan University	Rational Design of Oxygen Evolution Catalysts for Electrochemical Hydrogen Production
09.55 -10:20	Dr. Lizzie Ashton, Loughborough	Low cost green hydrogen generation using battery electrolysers
10.20 -10:45	Prof. Shanwen Tao, Warwick	Development of robust high temperature mixed OH-/H+ conducting membranes for fuel cells and electrolysers
Session 2		
Chair:	Dr. Josie Goodall, UK Catalysis Hub	
10:45-11:15	**BREAK – Engineering B Building, 2B.025 Foyer**	
11:15-11:40	Dr. Abolfazl Ghaderian, UCL	Ruthenium-Catalysed Water Oxidation for H2 Generation: From Intermediates to Design Principles
11:40-12:05	Prof. Mi Tian, Bath	Neutron Scattering for Hydrogen Storage Materials from Fundamentals to Manufacture
12:05-12:30	Prof. Laura Torrente, Cambridge	Green ammonia as long-term energy and H2 storage
12:30 -13:30	**LUNCH**	**MOVE ROOMS**
Session 3		
Chair:	Prof. Andrew Beale, UCL/Finden Ltd	**Nancy Rothwell Building, Blended Lecture Theatre GA.056 (Ground Floor)**
13:30-13:55	Prof. Jin Xuan, University of Surrey	Using green hydrogen for net zero chemicals manufacturing
13:55-14:20	Asst. Prof. Nathan Skillen, Heriot Watt	Grey, Blue, Green or even Gold Hydrogen…*why do we have so many colours for a colourless gas?*
14:20-14:45	Dr. Sam Cobb, University of Manchester	Multiscale understanding of electrochemical systems: The case of integrated carbon capture and utilisation

Session 4

Chair:	Dr. Josie Goodall, UK Catalysis Hub	
14:45-15:15	**BREAK – Lecture theatre foyer**	
15:15-15:40	Prof. Magda Titirici, Imperial College London	High-Throughput Electrocatalysis for a Circular Hydrogen Economy: From OER to Waste Valorisation
15:40-16:05	Dr. Lan Lan, Manchester	Enhancing Hydrogen Production from Bioenergy Crops via Photoreforming
16:05-16:30	Aranzazu Carmona Orbezo, Parallel Carbon	Turning Air Into Opportunity: Our Path to Dual-Molecule Production
16:30-17:00	Discussion	
17:00	Close	