

Agenda

Day 1: Welcome and registration		
Session 1: Chair – Alexander O'Malley		
Start time	End time	
09:30	09:50	Registration and pastries, tea and coffee
09:50	10:00	Welcome: Chris Bowen and Alexander O'Malley
10:00	10:30	Keynote: Professor Sir Richard Catlow , <i>University College London and Cardiff University</i> Modelling Microporous Materials at the Molecular Level: Perspectives and Challenges
10:30	10:50	Darren Bradshaw <i>University of Southampton</i> Genetically Engineered Peptides for MOFs
10:50	11:10	Ryutaro Sato <i>Johnson Matthey Technology Centre</i> Application of CFD Technology to Industrial Porous Products
11:10	11:30	Shiqi Huang <i>University of Bath</i> Engineering Nanopores in Ultrathin Carbon Membranes for H ₂ Purification and Carbon Capture
11:30	11:50	Matthew Potter <i>University of Bath</i> Neutron Imaging for Catalysis and Gas Separations
Lunch and posters 11:50 – 12:50		
Session 2: Chair - Shiqi Huang		
12:50	13:20	Keynote: Maciej Slotwinski , <i>Porex Technologies Ltd.</i> Porous Sintered PTFE Membranes
13:20	13:40	Matthew Wadge <i>Manchester Metropolitan University, University of Nottingham</i> Architecting with Bubbles: Exploring Chemical, Mechanical, and Structural Modification in Self-Assembled Hierarchically Porous Titanate Scaffolds
13:40	14:00	Dinga Wonanke <i>Nottingham Trent University, Technische Universität Dresden, Karlsruhe Institute of Technology</i> FAIR-MOFs: Structure-centred synthesis inference from three-dimensional structures of metal-organic frameworks
14:00	14:20	Keerthi Sekuru <i>University of Manchester</i> Probing Complex Local Environments in Zeolite Catalysts Using Solid-State NMR Spectroscopy
14:20	14:40	Ben Thornley <i>University of Cambridge</i> Quantifying and Mitigating the Pore Back Effect in Focused Ion Beam Tomography of Porous GaN

Coffee, Networking and Posters 14:40 – 15:20		
Session 3 Chair – Matthew Potter		
15:20	15:50	Keynote: Professor Petra Agota Szilagyi, University of Oslo MOF-Guest Interfaces and Examples of their Relevance for Sustainability
15:50	16:10	Vladimir Zholobenko Keele University De-Activation of CsNaY Zeolite Catalysts in Aniline Alkylation with Methanol
16:10	16:30	Abhijith Prasad University of Bath Innovative Clathrate Based Storage of Hydrogen and CO ₂ in Porous Frameworks
16:30	16:50	Ioannis Mylonas Margaritis University of Southampton Electron Diffraction: Enabling the Discovery of Sustainable CPs and MOFs
16:50	17:45	Posters, Networking and Drinks
18:45	19:55	Drinks Reception at The Roman Baths (Entrance via Stall Street opp. Primark)
20:05	22:00	Conference Dinner at The Double Tree by Hilton, Bath

Day 2: Welcome and registration		
Session 4 Chair: Chris Bowen		
Start time	End time	
09:00	09:30	Pastries, tea and coffee
09:30	10:00	Keynote: Professor Carmen Torres-Sánchez, Loughborough University See You on the Other Side: Slippery, Tortuous and Permeable Microporous Structures
10:00	10:20	Stephen Lyth University of Strathclyde Porous Materials in Gas Diffusion Layers for Electrochemical Energy Conversion - Umbrellas and Jigsaws
10:20	10:40	George Neville University of Bath Linking Pore Geometry to H ₂ Phase Behaviour and Dynamics in Nanoporous Carbons Approaching Non-Cryogenic Temperatures
10:40	11:00	Jerry Mintah University of Bristol Design and Optimisation of Cyclic Carbonate Formation from CO ₂ using Metal-Free Porous Polyimides
11:00	11:20	Cosmin Mudure University of Bath Less is More? The Complexity of Simulating Hydrogen Separation
Coffee, Networking and Posters 11:20 – 11:50		

Session 5 Chair: Mi Tian		
11:50	12:20	Keynote: Dr Jan Manuel Hinterstein , <i>Fraunhofer-Institut für Werkstoffmechanik</i> Multi-Hierarchical Porosity for Improved Efficiency in Energy Harvesting
12:20	12:40	Arun Sridhar <i>Heriot Watt University</i> A Multi-scale Computational Framework Linking Porous Microstructure to Macroscopic Acoustic Response
12:40	13:00	Fatiha Bouchelaghem <i>Sorbonne Université</i> 3D simulations of electro-osmosis in montmorillonite suspensions
13:00	13:20	Andrew Jennings <i>University of Bath</i> Freezing Rate for the 3D printing of Low Viscosity Ceramic Slurries
Lunch – 13.20-14:20		
Session 6 Chair: Rajan Jagpal		
14:20	14:27	UK-UK EPoMM Visit: Senuri Aluthwalage
14:27	14:34	UK-UK EPoMM Visit: Zihe Li
14:34	14:40	UK-UK EPoMM Visit: Keerthi Sekuru
14:40	15:00	Qian Yu <i>University of Bath</i> Design, Modification and Manufacturing of Mechanochemical MOFs for Hydrogen Storage
15:00	15:20	Christos Kalyvas <i>University of Hertfordshire</i> Measuring Effective Diffusion and Structural Properties in Porous SOFC Anodes
15:20	15:40	Closing remarks and prizes