

## Day 1 - Monday 19<sup>th</sup> June 2023

08:30	<b>Registration</b> <i>Richard Roberts Building, Brook Hill, Sheffield, S3 7HF</i>
09:30	Welcome <b>Rob Dawson</b> , <i>University of Sheffield</i>
	<b>Session 1</b> Chair: Lee Brammer, <i>University of Sheffield</i>
09:40	<b>Michael Mastalerz</b> , <i>Universität Heidelberg</i> Molecular Porous Crystals – Curiosity Driven Development of Efficient Materials
10:20	<b>Ju Huang</b> , <i>Imperial College London</i> Stacking disorder in layered covalent-organic frameworks
10:40	<b>Break</b>
	<b>Session 2</b> Chair: Tim Easun, <i>University of Birmingham</i>
11:20	<b>May-Yin (Ashlyn) Low</b> , <i>Imperial College London</i> Investigation of CO <sub>2</sub> adsorbents for direct air capture: Material, equilibrium, and kinetic data
11:40	<b>Robert Carroll</b> , <i>University of Southampton</i> Developing the Application of the Crystalline Sponge Method
12:00	<b>Luis León-Alcaide</b> , <i>Universidad de Valencia</i> A meltable iron zeolitic imidazolate framework
12:20	<b>Sean Collins</b> , <i>University of Leeds</i> Disordered and amorphous phases in Fe-BTC under the microscope: Nanobeam electron diffraction and pair distribution function analysis
12:40	<b>Lunch</b>
13:50	<b>Sponsor</b>
	<b>Session 3</b> Chair: Miguel Jorge, <i>University of Strathclyde</i>
14:00	<b>Tomislav Friščić</b> , <i>University of Birmingham</i> Polymorphism of Metal-Organic Frameworks (MOFs): from Discovery to Prediction
14:40	<b>Jack Turner</b> , <i>Promethean Particles</i> Cost-Effective Industrial Scale Manufacture of Shaped Metal-Organic Framework (MOF) Materials for Carbon Capture Utilisation and Storage Applications
15:00	<b>Break</b>
	<b>Session 4</b> Chair: Petra Szilagyi, <i>University of Oslo</i>
15:30	<b>Shaobo Du</b> , <i>University of Sheffield</i> Stimuli Responsive Dispersible Porous Polymer Particles
15:50	<b>Catherine Mollart</b> , <i>Lancaster University</i> Artificial Synthesis of Conjugated Microporous Polymers: How Solvent Influences Structure

<b>16:10</b>	<b>Xue Fang, University of Bristol</b> Quantitative solvent selection toolkits for CMP preparation
<b>16:30</b>	<b>Poster Session</b>
<b>18:10</b>	<i>Depart for Evening Event (20 min walk)</i>
<b>18:30</b>	<b>Evening Event</b> <i>Kelham Island Museum, Alma St, Sheffield S3 8SA</i>

## Day 2 - Tuesday 20<sup>th</sup> June 2023

	<b>Session 5</b> Chair: Jona Foster, <i>University of Sheffield</i>
09:00	<b>Monica Gimenez Marques</b> , <i>Universitat de València</i> Integrating compositional and architectural diversity into MOF-based nanohybrids
09:40	<b>Hanna Boström</b> , <i>Uppsala Universitet</i> How reproducible is the synthesis of Zr–porphyrin MOFs? A round robin study
10:00	<b>Sean McIntyre</b> , <i>Surface Measurement Systems</i> Making the most of modification: monolithic MIL-100 phosphonic acid modification for biomass conversion
10:20	<b>Break</b>
	<b>Session 6</b> Chair: Andrea Laybourn, <i>University of Nottingham</i>
10:50	<b>Sebastian Ehrling</b> , <i>3P Instruments</i> Investigation of an industrial adsorbent for Direct Air Capture by gas flow methods
11:10	<b>Stephen Lyth</b> , <i>University of Strathclyde</i> Hydrogen and Carbon Dioxide Uptake on Hierarchically Porous Carbon Foams
11:30	<b>Rama Oktavian</b> , <i>University of Sheffield</i> Computational Characterization of Zr-Oxide MOFs for Gas Adsorption Applications
11:50	<b>Dave Ashworth</b> , <i>University of Strathclyde</i> Dual-cell, high-pressure studies of porous, flexible frameworks from 20 to 30,000 bar
12:10	<b>Lunch</b>
13:20	<b>Sponsor + Poster Prizes</b>
	<b>Session 7</b> Chair: Ross Forgan, <i>University of Glasgow</i>
13:40	<b>Lauren Macreadie</b> , <i>University of New South Wales</i> Exploring the effect of bulky, polycyclic linkers on MOF host-guest interactions
14:20	<b>Jan Demel</b> , <i>Czech Academy of Sciences</i> Activated Borane as an Efficient Heterogeneous Lewis Acid-Based Catalyst
14:40	<b>Janne Gys</b> , <i>University of Antwerp</i> Monitoring and characterization of porous titanate layer formation on Ti microspheres and 3D porous substrates during alkaline treatment
15:00	<b>Break</b>
	<b>Session 8</b> Chair: Rob Dawson, <i>University of Sheffield</i>
15:30	<b>Tom Roseveare</b> , <i>University of Sheffield</i> Liquid-assisted grinding: A solvent screening tool for identifying porous molecular crystals
15:50	<b>Jiangtian Tan</b> , <i>University of Sheffield</i> Metal-organic nanosheet gel for differential cargo release
16:10	<u>Chemical Science Lecture</u> <b>Andy Cooper</b> , <i>University of Liverpool</i>

<b>16:50</b>	Closing remarks <b>Rob Dawson</b> , <i>University of Sheffield</i>
<b>17:00</b>	<b>Finish</b>