

SCIENCE ROADSHOW – CARDIFF

9–10 MAY 2024

DAY 1, Thursday, 09 th of May, 2024	
11:30 - 12:40	Registration, lunch, and coffee – VJ Gallery
12:40 - 13:00	Intro – Dr Philip King – ISIS Neutron and Muon Source
13:00 - 13:20	Intro – Professor Roger Whitaker – Cardiff University Pro Vice Chancellor for Research, Innovation and Enterprise
Chaired by Dr Iva Manasi	
13:20 – 13:55	Professor Adrian Porch – Cardiff University Simultaneous microwave dielectric and structural studies of materials
13:55 – 14:10	Dr Michael Barter – Cardiff University Simultaneous microwave dielectric and structural studies of sulphur dioxide absorption in metal-organic frameworks
14:10 – 14:25	Miss Holly Stockdale – University of Bristol Self-assembly of novel catechol-containing copolymers in a nonpolar solvent
14:25 – 14:40	Mr Edward Stuckey – ISIS Neutron and Muon Source, Royal Holloway Using Neutron Reflectometry to determine how aerosols affect the temperature of our planet with time: combining experiments and modelling
14:40 – 14:55	Mr Zac Amato – The Open University / ISIS Neutron and Muon Source Exploiting Neutrons to Unveil Star-Formation: Exploring Dynamical Amorphous Ice Systems
14:55 – 15:25	Tea and coffee break
Chaired by Professor Sean Giblin	
15:25 – 16:00	Dr Shirin Alexander – Swansea University Neutron Scattering, a Powerful Tool to Study Green, Low-Surface Energy Materials
16:00 – 16:15	Mr Liam Nagle Cocco – University of Cambridge Displacive Jahn-Teller transition in NaNiO ₂
16:15 – 16:30	Dr Adam Squires – University of Bath Probing dynamic changes in soft matter self-assembly exploiting contrast-matching and small-angle neutron scattering
16:30 – 16:45	Professor Martin Owen Jones – ISIS Neutron and Muon Source Catalytic Systems at the Cutting Edge
16:45 – 17:00	Mr James Steele – University of Cambridge Bulk and Local Structural Evolution During Electrochemical Cycling in NaNiO ₂
17:00 – 17:30	Poster session at the VJ Gallery
19:30 – 21:00	Dinner at the Botanist Cardiff



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DAY 2, Friday, 10 th of May, 2024	
Chaired by Dr Alison Paul	
09:00 – 09:35	Sir Professor Richard Catlow – Cardiff University Neutron Scattering as a Tool in Catalytic Science
09:35 – 09:50	Dr Sanghamitra Mukhopadhyay - ISIS Neutron and Muon Source Structure and Dynamics of Organic Ferroelectrics using Neutron Scattering and First-principles Simulations
09:50 – 10:05	Dr Iva Manasi – University of Bath / University of Bristol Nanostructure in Amphiphile-Based Deep Eutectic Solvents
10:05 – 10:20	Mr Paul Davis – University of Oxford Crystal Structure Determination of Novel Topochemically Reduced Niobium and Tantalum Oxides Utilising Neutron and X-Ray Powder Diffraction
10:20 – 10:35	Alexander O'Malley – University of Bath The rise of QENS in catalytic science
10:35 – 11:05	
Tea and coffee break	
Chaired by Professor Martin Owen Jones	
11:05 – 11:40	Professor Stephen Hayden – University of Bristol ISIS and Spin fluctuations in Cuprate Superconductors
11:40 – 11:55	Dr Anthony Higgins - Swansea University Mixing and interfacial-width in thin-films of polymer and small-molecule organic electronic materials
11:55 – 12:10	Miss Jing Ming – Queen Mary University of London Dopant Clustering and Vacancy Ordering in Neodymium Doped Ceria
12:10 – 12:25	Mr Christopher Allen – University of Bristol Multiaxial strain measurements for multiscale modelling validation
12:25 -12:40	Dr Alison Paul – Cardiff University Polymer scattering across length scales: past successes and future challenges.
12:40-12:45	Professor Sean Langridge – ISIS Neutron and Muon Source Closing
12:40 – 13:30	
Lunch, tea and coffee	

