

ISIS Student Meeting 2021, R112 Visitor Centre, Rutherford Appleton Laboratory

Thursday 28 October — Day 1	
	Zoom meeting ID 990 4783 4883 for those joining remotely (further details on final page)
11:00	Optional tour of ISIS
12:00	Registration and lunch
13:00	Welcome — Dr Philip King
13:10	<p><u>Science session I: Chair: Sara Zandomeneghi</u></p> <p>Innes McClelland, University of Sheffield, Operando Muons To Study Lithium Diffusion</p> <p>Rebecca Shutt, University College London, How accessible are hard carbon electrodes for Li-ions in Li-ion batteries?</p> <p>Yixuan Yan, University of Manchester, Self-assembly of beta blockers: Their structure revealed using SANS and MD simulations</p> <p>Bernet Meijer, Queen Mary University of London, Pressure dependence of rotations in barocaloric ammonium sulfate</p>
14:30	Gong show and poster session 1 <i>Posters 1 to 25 inclusive</i>
16:30	<p><u>Science session II: Chair: Armando Ibraliu</u></p> <p>Bor Arah, University of Aberdeen, Magnetic phases of $\text{Sr}_2\text{Cr}_2\text{MnAs}_2\text{O}_2$</p> <p>Sarah Dugmore, Keele University, Development of simultaneous Raman scattering and neutron diffraction on SXD using photochromic and thermochromic materials</p> <p>Edward Jones, Loughborough University, Characterising ethylene adsorption on skeletal cobalt using inelastic neutron scattering</p> <p>Anne McGrogan, Queen's University Belfast, The structure of protic ionic liquids based on sulfuric acid, doped with excess of sulfuric acid or with water</p>
	Dinner and Quiz
Friday 29 October — Day 2	
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9:00	<p><u>Science session III: Chair: Zheyang Xu</u></p> <p>Subhadip Mallick, University of Oxford, Influence of the 6s² configuration of Bi³⁺ cation on the structures of A'BiNb₂O₇ (A' = Rb, Li, Na, K) layered perovskite oxides</p> <p>Alice Piccinini, Keele University and ILL, Interaction of Prohibitin with the inner of mitochondrial membrane</p> <p>Alexander Porter, University of Bath, Local and Nanoscale Methanol Dynamics in Different H-FER Catalysts</p> <p>Zac Amato, The Open University, Exploiting Neutrons to Unveil Star Formation: Exploring Dynamical Amorphous Ice Systems</p>
10:20	Gong show and poster session 2 <i>Posters 26 to 47 inclusive</i>
11:45	<p>Careers Panel</p> <p>Lucy Clark, University of Birmingham</p> <p>Alex O'Malley, University of Bath</p> <p>Greg Smith, ISIS</p> <p>Steph Chapman, LENS</p>
13:00	Lunch, Prizes and close

Poster session	Poster number	First Name	Family Name	Organisation	Poster Title
1	1	Andy Sode	Anker	Rutherford Appleton Laboratory	Using Generative Adversarial Networks to match experimental and simulated inelastic neutron scattering data
1	2	Rebecca	Asquith	ISIS	Catalytic reduction of fatty acids to their corresponding alkanes
1	3	Ludmila	Babicova	University of Oxford	Controlling the properties of Fe-based superconductors
1	4	Beatrice Anna Maria	Boggio-Robutti	University of Cambridge, BP Institute	Amphiphilic surfactants as model additives for engine friction reduction
1	5	Matteo	Cataldo	ISIS - University of Milano Bicocca	Muonic Atom X-ray spectroscopy: implementation and benchmark of Monte Carlo simulation codes for non-destructive measurements
1	6	Aimee	Coleman	University of Bristol	MAX-Phases; Layered Ceramic Materials with Novel Properties for Nuclear Application
1	7	Leo	Collins	ISIS	Modelling and optimisation of muon spectrometers
1	8	Glenn	Coope	University of Manchester	New information about the structure and dynamic composition of lipid reservoirs mediated by lung surfactant protein B at low surface tension
1	9	Tristan	Dolling	University of Birmingham	Metal Organic Frustration (MOFr)
1	10	Sofia	Erikson	ILL & Imperial College	SANS and rheology study of HPMC-surfactant solutions
1	11	Ben	Gade	University of St Andrews	Structure-property relationships in quantum and functional materials through neutron diffraction and inelastic scattering
1	12	Souvik	Giri	University of Oxford	Structure and magnetism of soft chemically synthesized Sr ₂ MnO ₂ Li ₂ Se ₂
1	13	Alberto	Hernandez-Melian	Durham University	Muon stopping states and internal field distributions in a chiral spin chain
1	14	Thomas	Hitchings	University of Kent	Re-examination of the polar transition in (N ₂ H ₅)Mg(HCO ₂) ₃
1	15	Shi	Huang	University of Hull	TBC
1	16	Evangelin	Hutamaningtyas	Queen Mary University of London	SANS Investigations of N ₂ and CO ₂ Adsorption in Soft Templating Porous Carbon

1	17	Armando	Ibraliu	The University of Manchester/ ISIS/ Diamond Light Source	Electrochemical Redox Couples: A Combined XAS and Modulation Excitation study
1	18	Manisha	Islam	University of Warwick	Magnetic structure and In-Field Behaviour of D-Er ₂ Si ₂ O ₇
1	19	Niamh	Leaman	University of Bath	Bio-based formulation ingredients
1	20	Sarah	Mann	ISIS	Scintillation Properties of Nanoparticle ZnS:Ag for High Count Rate Neutron Detectors
1	21	Matthew	Littlehales	Durham University	Strain and Surface States in Chiral Helimagnets
1	22	Elly	Bathke	University of Bath	The structure of tartaric acid based chiral DES
1	23	Sandra	McHugh	University of Bath	The effect of framework structure and composition on controlled drug release by zeolites
1	24	Holly	McPhillips	University of Kent	Probing local magnetic order in the frustrated bow-tie lattice of layered oxide, Ca ₂ Mn ₃ O ₈
1	48	Evan	Jones	ISIS	Science Communication at ISIS
2	25	Nicole	Melzack	University of Southampton	TBC
2	26	Hesameddin	Mohammadi	University of Bath	Study of Oxide Glasses by Neutron Diffraction with Isotopic Substitution (NDIS)
2	27	Katie	Morton	University of Bath	Probing the behaviour of lignin derived model molecules within acidic zeolites
2	28	Liam	Nagle-Cocco	Cavendish Laboratory, University of Cambridge	Neutron study of NaNiO ₂ using PDF and variable-pressure diffraction
2	30	Shaun	Olok-Jacobs	ISIS Neutron and Muon Source	Synthesis of deuterated organic carbonates as electrolytes for Li-ion batteries
2	31	Charlotte	Pughe	University of Sheffield	Site-selective d ₁₀ /d ₀ effect in a hexagonal perovskite: Ba ₂ CuTe _{1-x} W _x O ₆
2	32	Daniel	Roe	University of Leeds/ISIS	Migration of B from a magnetic thin film into a molecular layer
2	33	Andreas	Santamaria	Institut Laue-Langevin - Universidad Complutense de Madrid	Structure and Function Investigation on Membrane-Binding Proteins: a Neutron Reflectometry Study

2	34	Lara	Seemungal	Queen Mary, University of London	TBC
2	35	Struan	Simpson	University of Aberdeen	Electronic phase segregation in the 6H-perovskite Ba ₃ SrMo ₂ O ₉
2	36	Daniel	Snook	ISIS	Peak Fitting of Muon Spectra to Determine Elemental Composition
2	37	Camilla	Tacconis	University of Cambridge	TBC
2	38	Rachel	Tang	Diamond Light Source	Using Pair Distribution Function to study nanostructured materials for applications in a sodium-ion battery
2	39	Dylan	Tawse	University of Aberdeen	Investigation of the Crystal Structure and Ionic Pathways of the Hexagonal Perovskite Derivative Ba _{3-x} VMoO _{8.5-x}
2	40	Siobhan	Tobin	University of Oxford	Magnetic excitations and structure of the topological semimetal YbMnSb ₂
2	41	Shroya	Vaidya	University of Warwick	Unusual Ni(II) Coordination Polymer Structures
2	42	Samuel	Winnall	University of Manchester, Institut Laue Langevin	Interaction of intelligent drug delivery vehicles with model biomembranes
2	43	George	Wood	University of Warwick	Tuning magnetism in the 2D van der Waals magnet Fe ₃ GeTe ₂ by Co-substitution
2	44	Kang	Xiang	University of Hull	TBC
2	45	Zheyang	Xu	University of Oxford	Hole/Electron doping of Topochemically Reduced n = 1 Ruddlesden-Popper Rhodium-Containing Oxide
2	46	Philip	Yang	University of Bath	Using Small Angle Neutron Scattering to probe the physical conformations of novel cyclic polymers
2	47	Sara	Zandomeneghi	University of Nottingham	Bacterial back-talk: Structural stability, unfolding and molecular interaction studies on Staphylococcal proteins

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