

ISIS Student Meeting 2024

Rutherford Appleton Laboratory visitor centre, R112

	Thursday 7 November
11:30	Optional facility tour (see attendee list below)
12:15	Registration and lunch
13:00	Welcome
13:10	<u>Science session Chair: Edward Stuckey</u> Emily Heppell, University of Oxford, Probing interfacial magnetism and magnetic coupling phenomena in topological insulator heterostructures Fiamma Berardi, University of Cambridge, Magnetic properties of frustrated fcc oxides for cryogenic refrigeration Victoria Pomijan-Przedpelska and Natasha Goudarzi, ISIS, Muon e-learning tools
14:10	Short poster introduction presentations
15:10	Poster session
16:25	Group photo
16:30	<u>Careers panel</u> Sylvia Britto, IMAT beamline scientist, ISIS Anthony Reid, Sustainability consultant at Frazer Nash Consultancy Josh Makepeace, Associate Professor in materials chemistry at the University of Birmingham
18:00	End of Day 1 programme
18:30	Dinner at DiSH
21:00	Travel to The Cosener's House (provided)
	Friday 8 November
09:00	Travel from The Cosener's House (provided)
09:45	<u>Science session Chair: Licheng Zhang</u> Anna Stephens, University of Manchester, Selective disruption of novel Serine-rich antimicrobial peptides Henry Bichard, ISIS, Development of high rate and high position resolution neutron detectors Phoebe Meadows, Royal Holloway University, London, Disorder induced quantum spin liquids
10:45	Coffee break
11:20	<u>Science session Chair: Katie Steele</u> Daniel Bradley, University of Nottingham, One potential set to rule them all: multi-composition EPSR simulations of the structure of strontium doped bioactive phosphate glasses. Xiang Xu, King's College London, Self-assembled (pseudo)polyrotaxanes hydrogels based on dynamic disulfide bonds Ben Bradley, ISIS, Science communication at ISIS Maddie Wildridge, ISIS, Public engagement at ISIS
12:30	Lunch
13:15	Proposal writing session (attendee list below)

Tour attendees (20):

Nasir	Alzzahrani
Elizabeth	Arnold
Fiamma	Berardi
Jun	Chen
Eugene	Chen
Louis	Hatton
Md Ariful	Islam
Heledd	Jones
Imani	Kelly
Thomas	Lindsay
Kinga	Molnar
Scott	Rait
Alex	Sampson
Weixin	Song
Mueen	Taj
Anand Kumar	Tiwari
Elisavet	Tsakelidou
Pema	Tsering
Xiang	Xu
Kai Ham	Yu

Proposal writing session attendees (24):

Nasir	Alzzahrani
Isabel	Antony
Elizabeth	Arnold
Jack	Avery
Fiamma	Berardi
Eugene	Chen
Rakin	Gilani
Natasha	Goudarzi
Louis	Hatton
Md Ariful	Islam
Heledd	Jones
Imani	Kelly
Thomas	Lindsay
Kinga	Molnar
Joanna	Panchadcharam
Victoria	Pomijan-Przedpelska
Scott	Rait
Gregory	Strangward-Pryce
Anand Kumar	Tiwari
Elisavet	Tsakelidou
Pema	Tsering
Xiang	Xu
Kai Ham	Yu
Alina	Zakrjevsky

Posters:

1	Kate	Alston	The University of Manchester	
2	Nasir	Alzahrani	University of Reading	
3	Isabel	Antony	UCL	Neutron Imaging to Study Electrolyte Dynamics in Lithium-Ion Batteries
4	Elizabeth	Arnold	University of Warwick	Probing the Local Structure of Functional Materials under High Pressure
5	Jack	Avery	University of Cambridge	
6	Jun	Chen	University of Oxford	Atomic structure study on LiNiO ₂ redox mechanisms in high-voltage Li-ion batteries
7	Eugene	Chen	ISIS Neutron and Muon Source	
8	Rob	Clarke	University of Southampton/ Diamond /ISIS	2D-Layered Conductive Metal-Organic Frameworks for Flexible Thermoelectric Applications
9	James	Crake-Merani	ISIS Neutron and Muon Source	
10	Rakin	Gilani	UCL and ISIS Neutron and Muon Source	In-situ neutron scattering to identify confined liquid structures in novel supercapacitor energy storage devices
11	Louis	Hatton	Oxford	Cerium Oxychalcogenides
12	Md Ariful	Islam	University of Manchester	Synthesis and Characterization of Spinel High Entropy Sulfides Nanostructured by a Single Source Precursor Approach
13	Heledd	Jones	University of Cambridge	
14	Imani	Kelly	ISIS Neutron and Muon Source	
15	Thomas	Lindsay	University of Aberdeen	Investigating the Influence of Ti Doping on the Dual-Ion Conductivity of Ba ₇ Nb ₄ MoO ₂
16	Kinga	Molnar	ISIS Neutron and Muon Source	Ferromagnetic Resonance of Rare Earth Metal Multilayer Thin Films and Their Temperature Dependence
17	Lauren	Palmer	ISIS Neutron and Muon Source	
18	Joanna	Panchadcharam	University of Birmingham	The characterisation of zeolites for an investigation into the catalytic partial oxidation of methane to methanol
19	Scott	Rait	University of Aberdeen	
20	Alex	Sampson	ISIS Neutron and Muon Source	Using Statistical Methods to Optimise Muon Experiments

21	Weixin	Song	University of Oxford	Tetrahedral Li at the alkali layers of Li-rich cathode materials for batteries
22	Katie	Steele	University of Oxford	Intercalation Chemistry of Niobium Selenide
23	Gregory	Strangward-Pryce	Cambridge University	Electrifying commercial aviation; neutron total scattering studies of short-range order in FeCo-2V magnets
24	Edward	Stuckey	Royal Holloway, University of London	Applying neutron reflectometry measurements of organic films at buried interfaces to climate models
25	Mueen	Taj	University College London	Machine Learning Accelerated Analysis of Neutron Spectroscopy
26	Anand Kumar	Tiwari	Institut Laue-Langevin	Role of hydrogen bonding in dynamics of alcohols
27	Elisavet	Tsakelidou	Queen Mary University of London	
28	Pema	Tsering	ISIS Neutron and Muon Source	ISIS Neutron and Muon online scientific training
29	Kai Ham	Yu	University of Birmingham	Magnetism of Sr_2RuO_4 under uniaxial stress
30	Alina	Zakrjevsky	Queen Mary University of London	Optimising Mechanical Properties in Alloys: A Synergy Between Experiment and Computational Modelling
31	Licheng	Zhang	Queen Mary University of London	Muon spectroscopy in N containing organic materials