

ISIS Student Meeting 2019

28th & 29th October 2018 / Milton Hill House

Programme – Monday, October 28th

11:00	Registration Opens @ Cosener's House	
12:00	Lunch	
13:00	Introduction	
13:00	Welcome and Opening Remarks	<i>Philip King</i>
13.15	Student Engagement at ISIS	<i>Rosie Davies</i>
13:20	Gong Show 1	
	<i>Presentation numbers 01 through 19 inclusive</i>	
14:00	Poster Session 1	
	<i>Poster numbers 01 through 19 inclusive</i>	
14:45	Group Photograph	
15:00	Science Session 1	
15:00	"Interaction of Nonionic Surfactants and Pesticides with Plant Waxes"	<i>Xuzhi Hu (Manchester)</i>
15:20	"Local structure analysis of $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_{3-x}\text{PbTiO}_3$ using atomic pair distribution function"	<i>Yang Li (Leeds)</i>
15:40	"Muon Spin Decoherence in F- μ -F States"	<i>John Wilkinson (Oxford)</i>
16:00	Coffee Break	
16:30	"Gas analysis of $^3\text{He}/^4\text{He}$ mixture in dilution refrigerators"	<i>Ross Price (ISIS)</i>
16:50	"In Situ Development of Ferromagnetic Resonance"	<i>Loren Temple (ISIS)</i>
17:10	"Response Measurement and Optimisation of the ISIS Injector"	<i>Emily Brookes (ISIS)</i>
17:30	Session Ends	
18:00	Dinner	

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Programme - Tuesday, October 29th

08:45	Gong Show 2 <i>Presentation numbers 20 through 37 inclusive</i>	
09:30	Poster Session 2 <i>Poster numbers 20 through 37 inclusive</i>	
10:30	Science Session 2	
10:30	“Elucidating guest@metal-organic framework interactions for sensing devices via inelastic neutron scattering and nanoFTIR”	<i>Annika Möslein (Oxford)</i>
10:50	“In Situ Diffusion Measurements of an All Solid State Battery”	<i>Innes McClelland (Sheffield)</i>
11:10	“Amorphous Solid Water particle production for collision experiments”	<i>Vincent Deguin (Open University)</i>
11:30	Coffee Break	
11:45	“Toward In-situ Neutron Scattering of Battery Electrodes”	<i>Rebecca Shutt (UCL)</i>
12:05	“Synthesis and Structural Characterisation of the Inverse Spinels, $\text{Li}_{2+x}\text{Ni}_{2-2x}\text{Cr}_x\text{V}_2\text{O}_8$, by Combined X-ray and Neutron Refinements”	<i>Daniel Martin (Sheffield)</i>
12:25	“Neutron and X-Ray Powder Diffraction Study on the Filling of the Interstitial Site in Half-Heusler Thermoelectrics”	<i>Robert Quinn (Heriot-Watt)</i>
12:45	Closing Remarks <i>Prize awards, Q & A, feedback</i>	
13:00	Lunch	
14:00	Meeting End	

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Poster/Gong Session 1 (Afternoon, Monday 28th October)

01	The adsorption of therapeutic antibodies at the stainless steel water interface	Peter Hollowell
02	Zr-based metal-organic frameworks as carbon-free energy carriers: a study of the interactions between stored ammonia and the host structure	Tatchmampan Yoskamtorn
03	TBC	Chenghao Yue
04	TBC	Aimee Coleman
05	Magnetic Properties of Rare Earth Calcium Oxyborates	Nicola Ede
06	Bio-mechanical Properties of Collagen-Elastin Composites for Heart Valve Tissue Engineering	Sonia Iftehar
07	TBC	Narles Rashidi
08	Probing beneath the surface with negative muons	Beth Hampshire
09	Structural studies of ferroelectric $\text{La}_2\text{Ti}_2\text{O}_7$ and related compounds	Ben Tragheim
10	Deep Eutectic Solvents - Greener Media for Controlled Radical Polymerisation	Jake Hooton
11	Bacterial back-talk: Unfolding and molecular interaction studies in Staphylococcal proteins	Sara Zandomeneghi
12	Lead niobate ($\text{Pb}_2\text{Nb}_2\text{O}_7$) pyrochlore: a cryogenic phase transition puzzle	Rebecca Smith
13	Structure of oxide glasses by neutron diffraction	Hesameddin Mohammadi
14	Density-driven structural transformations on $\text{B}_2\text{O}_3\text{GeO}_2$ glass	Rita Mendes da Silva
15	TBC	Daniel Telford
16	Magneto-structural correlations and the role of disorder in frustrated magnets	Jennifer Graham
17	Exploring symmetry and dimensionality in low dimensional Metal-Organic Frameworks frustrated magnets	Mario Falsaperna
18	A Density-Functional Theory Investigation into the Homonuclear Cr-Based Molecular Rings	Joseph Blake
19	Structure-rheology relationships of complex fluids containing alkyl benzene sulfonate surfactants to form a viscosity correlation model	Lisa Morrison

Poster/Gong Session 2 (Morning, Tuesday 29th October)

20	Magnetically frustrated MOFs	Zöe Jones
21	The future of cooling: barocalorics	Bernet Meijer
22	Investigating Coordination Framework Analogues of Quantum Materials: A Study of the Two Ti(III) Oxalate Framework Polymorphs, α -, β - $\text{KTi}(\text{C}_2\text{O}_4)_2$	Aly Abdeldaim
23	TBC	Emily Meekel
24	High pressure local structure techniques	Anna Herlihy
25	Exchange Constants derived from Density Functional Theory	Yusuf Aziz
26	TBC	Elly Kim Bathke
27	TBC	Armando Ibraliu

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28	TBC	Jack Brierley
29	TBC	Lewis Edwards
30	Surfactant membrane interaction and their scope as novel anti-microbials	Harvey Boughey
31	Deuterated Phytantriol	Douglas Robinson
32	Exploring a new family of quantum kagome antiferromagnets	Kate Tunstain
33	When like-charged ions attract: How OH-defects influence the size and distribution of cationic clusters in ionic liquids	Johanna Busch
34	TBC	Mara Capone
35	Proposal for an upgrade of the SXD beamline at ISIS	Isobel Adamyk
36	TBC	Khalil Abdul Razak
37	TBC	Jasmin Clough