UK Neutron and Muon Science and User Meeting 2022 – Warwick

	Monday 25 April - Student Day (for UK PhD students using neutrons or muons in their research)	Neutron and Muon Science and User Meeting arrivals
12:00	Lunch – Radcliffe Restaurant Registration - reception area at Radcliffe	
13:00	Welcome and overview – Dr Philip King	
	Meeting Space 2 – Radcliffe	-
13:10	Session 1: Group Talks Chair: Mingrui Liao	
	Crystallography — Silvia Capelli	
	Spectroscopy — Svemir Rudic	
	Excitations and polarisation — Aleksandra Krajewska	
	Muon Spectroscopy — Adam Berlie	
14:10	Short Break	
14:20	Session 2: Student Talks Chair: Sarah Dugmore	
	High Ammonia Adsorption in MFM-300 Materials – Wanpeng Lu, University of Manchester	
	Negative muon spin rotation analysis techniques – George Gill, University of Oxford	
	Inelastic neutron scattering study of endofullerenes: CH4@C60 – Mohamed Aouane, ILL	
	The Magnetic Structure of V _{1/3} NbS ₂ – Amelia Hall, University of Warwick	
15:20	Group photograph	
15:30 - 16:00	Coffee — Coffee Lounge	
16:00	Session 3: Group Talks Chair: Zac Amato	
	Small angle neutron scattering — Olga Matsarskaia	
	Disordered materials — Esther Girón Lange	
	ISIS support laboratories — Daniel Nye	
	How to write a successful proposal – Adrian Hillier	
17:00	Short Break	
17:15	Session 4: Student Talks Chair: Samuel Sneddon	
	Adsorption at the Calcite-Oil Interface as seen with Neutron Reflection – Lana Farren, University of Cambridge	
	Mimetic bacterial membranes challenged by multivalent cations and quadruply charged peptides– Xuying Guo, Bristol	
	e-learning at ISIS – Rhina Houinato and Madeleine McRoberts, ISIS	
	Synthesis of deuterated materials for neutron studies – Rebecca Asquith and Shaun Olok-Jacobs, ISIS	
18:30	Free time	18:00 Registration open – reception area at Scarman House
19:00 -	Student Dinner - Lakeview Restaurant section 1	19:30 – 21:00 Buffet Dinner - Lakeview Restaurant section 2
21:00		

08:30	Registration and coffee – The Slate					
	•	Plenai	ry session – Slate 1 Chair: Donna Arn			
09:00	Welcome					
09:05	Plenary: Tom Lancaster (Durham) "Using muons to explore low-dimensional and topological magnetism"					
09:35		berdeen) "Ionic Conduction in He				
10:05	Plenary: Peter Moody (Leicester) "Neutrons to find deuterons in enzyme crystals > Heme Peroxidase mechanisms"					
10:35		•	Coffee – Slate 2			
	I.	Para	Illel Sessions (individual breakout ro	ooms)		
11:00 -	Energy & Functional Materials	Magnetism & Superconductivity	Biosciences & Soft Matter	Molecular Systems and Catalysis	Engineering	
13:00	Scarman Space 41	Scarman Space 42	Scarman Space 29	Scarman Space 24	Scarman Space 25	
	Chair: Eddie Cussen, Emma McCabe	Chair: Lucy Clark, Sean Giblin	Chair: Jian Lu	Chair: Gosia Swadzba-Krasny	Chair: Richard Moat	
	 11.00 Jan-Willem Bos (Heriot-Watt) "In-situ neutron powder diffraction investigations of thermoelectric and electrode materials" 12.30 Nicolás Flores-González (Glasgow) "Understanding the effect of lattice polarisability on the electrochemical properties of lithium haloaluminates, LiAlX4 (X = Cl, Br, I)" 11.30 Stephen Skinner 	 11.00 Thomas Hicken (Royal Holloway) "Muons, solitons, and skyrmions: muSR studies of Cr1/3MS2 and GaV4S8" 11.30 Otto Mustonen (Brimingham) "Tuning magnetism in oxides using diamagnetic d10 and d0 cations" 12.00 Viviane Pecanha-Antonio (Oxford) "f-d electron hybridisation in iron garnets" 12.30 Geetha Balakrishnan 	 11.00 Delaram Ahmadi (Manchester) "At last, some hard truths about soft stuff" 11.30 Tom Arnold (ESS) "LOKI & FREIA: The UK Instruments at ESS" 12.00 Zongyi Li (Manchester) "SANS study of Lipid Nanoparticles (LNPs) for Plasmid-DNA Delivery" 12.30 Olga Matsarskaia (ILL) "Towards a microscopic picture of coacervation in elastin-like peptides" 	 11.00 Alan Drew (Queen Mary) "Recent results on dynamics in small molecular semiconductors, probed by MuSR" 11.30 Camilla Di Mino (UCL) "Cooperative O-H…π and C-H…O Hydrogen Bonding in the Liquid State" 12.00 Zac Amato (Open University) "Exploiting Neutrons to Unveil Star- Formation: Exploring Dynamical Amorphous Ice Systems" 	 11.00 Catrin Davies (Imperial) "Residual stresses in Laser powder bed fusion components" 11.30 Alexander Korsunsky (Oxford) "Diffraction studies of deformation and transformation in shape memory nitinol samples" 12.00 Dong Liu (Bristol) "In situ high-temperature neutron diffraction on unirradiated and irradiated nuclear graphite materials" 	
	 (Imperial) "Using in-situ neutron scattering to develop electrode materials for solid oxide cell applications" 12.00 Silvia Ramos Perez (Kent) "X-ray spectroscopy techniques in the development of new materials for energy applications" 	(Warwick) "Investigations of skyrmion materials"		12.30 Terri-Louise Hughes (ISIS) "Combined Total Neutron Scattering and NMR Studies of Confined Hydrocarbons"	12.30 Matthew Roy (Manchester) "EASI-STRESS benchmarks: preliminary results from neutron diffraction measurements"	

14:15 -	Chair: Eddie Cussen, Emma	Chair: Lucy Clark, Sean Giblin	Chair: Wuge Briscoe	Chair: Sanghamitra Mukhopadhyay	Chair: Hongbiao Dong
15:45	McCabe				
		14.15 Nicola Kelly (Cambridge)	14.15 Kirill Nemkovskiy (ISIS)	14.15 Mi Tian (Exeter) "Dynamics	14.15 Christopher Lawson (ISIS)
	14.15 Rob House (Oxford)	"Magnetism on the stretched	"Dynamics in liquids and soft	of H2 in different pore geometries	"Neutron Imaging of an
	"Detection of trapped	diamond lattice in lanthanide	matter studied by polarized QENS	via QENS"	Operational Dilution Refrigerator"
	molecular O2 in a charged Li-	orthotantalates"	on the LET spectrometer"		
	rich cathode by Neutron PDF"	14.45 Sudoon Kumor Choch	14 45 Naami Eletana (Vark)	14.45 Adam Jackson (ISIS) "Simulation of inelastic neutron	14:45 Alan Williams (Wallace
	14.45 Shriparna Mukherjee	14.45 Sudeep Kumar Ghosh (Kent) "Spin-triplet	14.45 Naomi Elstone (York) "Determination of bulk and	scattering with AbINS"	Collection) "Shah Jahan and Mughal steel"
	(Reading) "Effect of Copper	superconductivity in Weyl nodal-	interfacial properties and structure		Nughai steel
	diffusion in low thermal	line semimetals"	of IL mixtures"	15.15 George Bacanu	15.15 Adrian Hillier (ISIS)
	conductivity of thermoelectric			(Southampton) "Inelastic neutron	"Elemental analysis using muons"
	Tetrahedrites"	15.15 David Jonas (Warwick) "A	15.15 Alexander Armstrong (ISIS)	scattering of noble gas	
		muon-spin relaxation study of	"Probing the Adsorption of the	endofullerenes"	
	15.15 Andy Sode Anker	type-I rhenium investigating	Organic Friction Modifier glycerol		
	(Copenhagen) "Using	time-reversal symmetry breaking	monooleate (GMO) at the iron		
	Generative Adversarial	in the superconducting state"	oxide-dodecane Interface with		
	Networks to match		Neutron Reflectometry"		
	experimental and simulated				
	inelastic neutron scattering				
45.45	data"		Coffee convedentials and breakent		
15:45 16:10 –	Chair: Eddie Cussen, Emma		Coffee – served outside each breakout Chair: Jian Lu, Wuge Briscoe		Chairy Disbard Maat Hanghiaa
17:00	McCabe	Chair: Lucy Clark, Sean Giblin	Chair. Jan Lu, Wuge Briscoe	Chair: Sanghamitra Mukhopadhyay, Gosia Swadzba-	Chair: Richard Moat, Hongbiao Dong
17.00	Miccabe	16:10 Deniza Chekrygina (STFC)	16.10 Adam Squires (Bath) "From	Krasny	Dong
	16.10 Dave Growney (Lubrizol)	"Parameter estimation for	fibrils to membranes: new	in a siny	16.10 None
	"Neutralising Acid in Engine Oil	Inelastic Neutron Scattering	techniques to study self-	16.10 Sihai Yang (Manchester)	
	– How Stopped-Flow Neutron	using Machine Learning."	organisation using deuterated	"Confined Catalysis of Small	16.40 Discussion
	Scattering Transformed our		biomolecules"	Molecules in Porous Materials"	
	Perspective"	16.40 Discussion			
				16.40 Discussion	
	16.40 Discussion		16.40 Discussion		
		14.00 – 17.00 LENS Council Meeting	: (for those who are members of the L	ENS Council) Scarman Space 23	
		-	and Coffee will be available at 15:00		
			Plenary Session – The Slate		
17:15	Willis Prize for neutron scatte	ring: award and talk			
-	2022 Willis Prize Winner				
10.00					
18:00 -	Poster session with drinks - Lakeview Restaurant – Scarman House				
19:00 19:30					
	Conference dinner – The Slate				

Wednes	day 27 th April – User Meeting			
	onna Arnold (Kent)			
The Slate				
09:00	Welcome: Donna Arnold			
09.10	Plenary: ISIS Impact awards			
10:10	Update from STFC and UKRI – Alan Partridge (STFC Executive Director for Large Scale Facilities)			
10:30	STFC Panels: Kathi Edkins (Manchester, member of STFC's Life Sciences and Soft Matter Advisory Panel)			
10:35	Update from facilities – ESS – Helmut Schober (ESS Director General)			
10:55	Coffee - Slate 2			
11:15	Update from facilities – ILL – Paul Langan (ILL Director)			
11:35	Update from facilities – ISIS – Roger Eccleston (ISIS Director)			
11:55	Update from facilities – Diamond – tbd			
12:15	Table discussions			
12:20	Panel Q&A			
12:40	Poster Prize award and talks			
13:00	Closing remarks			
13:15	Lunch – The Slate			