

Monday 26th October — Day 1	
Zoom Meeting ID: 945 0130 1795, Passcode ISMDay1	
13:00	Welcome — Dr Philip King
13:20	<p><u>Science session I: Chair: John Wilkinson</u></p> <p>'Bacterial back-talk: Structural stability, unfolding and molecular interaction studies in Staphylococcal proteins' — <i>Sara Zandomeneghi, University of Nottingham</i></p> <p>'Template Polymerisation in MOFs, A Neutron Study' — <i>Nimai Mehta, University of Oxford</i></p> <p>'Local Disorder in Lanthanide Orthoborates' — <i>Nicola Kelly, University of Cambridge</i></p>
14:30	<p>Gong show and poster session 1</p> <p><i>Posters 1 to 24 inclusive</i></p>
16:00	<p><u>Science session II: Chair: Aly Abdeldaim</u></p> <p>'Online learning at ISIS' — <i>Amanda Martínez, ISIS</i></p> <p>'Effects of Terrestrial Neutrons on the operation of Safety-Critical Electronic Systems' — <i>Sujit Malde, ISIS</i></p> <p>'Magnetisation dynamics of thin films' — <i>Matilda Rhodes, ISIS</i></p>
17:00	<i>Close of day 1</i>

Tuesday 27th October — Day 2	
9:00	<p><u>Vitae training session: researcher skills and career choices</u> Meeting ID: 930 0386 3718, Passcode: 576176</p> <p>This webinar introduces participants to the concept of career and professional development planning and guides them through the process of identifying their strengths as a researcher and possible areas for development, with a view to next steps after their PhD. It will then look more closely at the career choices open to researchers both within and beyond academic roles, to encourage participants to be aware of the options they may want to explore, and how they can plan that exploration. By the end of the session, you will gain clarity on the developmental opportunities available to you within your reach, and learn how you can maximise them and tap into them.</p> <p>Further details below</p>
10:30	Zoom Meeting ID: 998 2567 9478, Passcode ISMDay2
10:45	<p>Gong show and poster session 2</p> <p><i>Posters 25 to 49 inclusive</i></p>
12:00	<p><u>Science session III: Chair: Thomas Hicken</u></p> <p>'Using Small-Angle Neutron Scattering to Elucidate the Assembly Mechanism in Supramolecular Hydrogels' — <i>Mary Jones, Heriot-Watt University</i></p> <p>'Depth selective magnetic phase coexistence in FeRh thin films' — <i>Will Griggs, The University of Manchester</i></p> <p>'Triplons, magnons and spinons in SeCuO₃' — <i>Luc Testa, EPFL</i></p>
13:00	<i>Short Break</i>

13:30	Science session IV: <i>Chair: Grant Howieson</i> 'Capture of air pollutants by porous MOF materials' — <i>Jiangnan Li, The University of Manchester</i> 'From the Deep Sea to Mars : A Structural and Dynamic Study of Extreme Aqueous Environments' — <i>Harrison Laurent, University of Leeds</i> 'Muon study of structurally disordered pure and Co-doped Bi ₂ Se ₃ nanoplates' — <i>Anu Gupta, Indian Institute of Technology Kharagpur</i>
14:30	<i>Meeting close</i>

Poster numbers and gong show running order

Poster session	Poster number	First Name	Family Name	Organisation	Presentation Title
1	1	Zac	Amato	The Open University	Exploiting Neutrons to Unveil Star-Formation: Exploring Dynamical Amorphous Ice Systems
1	2	Dashnor	Beqiri	University of Warwick	
1	3	Alberto	Hernández Melián	Durham University	Accounting for quantum effects in muon site DFT calculations
1	4	Son Gyo	Jung	University of Cambridge	Data-driven materials discovery for magnetic applications: quantum spin liquid
1	5	Iain	Lawson	University of Leeds	PCL Nanocapsules: Structure and Application
1	6	Katie	Morton	ISIS, University of Bath	Probing the Behaviour and Conversion of Biomass Molecules in Catalytic Zeolite Systems
1	7	Georgie	Robertson	Cambridge University	MOFs Under Pressure
1	8	Syariffah Nurathirah	Syed-Yaacob	Universiti Teknologi Malaysia	Complex Structural Topology of Alkali Borogermanate Glasses: Preliminary Study
1	9	Toluwalase	Agoro	ISIS Neutron and Muon Source	Elemental analysis using Muons
1	10	James	Durant	ISIS Neutron and Muon Source	Towards Automated Analysis for Neutron Reflectivity
1	11	Shikha	Gianchandani	ISIS Neutron and Muon Source	Introduction to Science Communication
1	12	Jasmine	Lawton	ISIS Neutron and Muon Source	The Development of Catalysts for Deuteration
1	13	Fahad	Alshammari	Sheffield University	Molecular
1	14	Elly	Bathke	University of Bath, ISIS	Synthesis in Deep Eutectic Solvents

1	15	Jennifer	Graham	University of Birmingham	Local nuclear and magnetic order in the two-dimensional spin glass, $Mn_{0.5}Fe_{0.5}PS_3$
1	16	Derick	Liew	University of Sheffield	
1	17	Innes	McClelland	University of Sheffield	In Situ Muon Spectroscopy Development: Study of a Garnet Solid-State Electrolyte
1	18	Raktim	Datta	Indian association for the cultivation of science	Study of Dielectric and Impedance spectroscopy of highly correlated system
1	19	Kartik	Panda	Ramakrishna Mission Vivekananda Educational and Research Institute	Evidence of a Nodal Line in the Superconducting Gap Symmetry of Noncentrosymmetric $ThCoC_2$
1	20	Aron	Summer	University of Warwick	The case of the mobile oxygen: modelling total scattering to solve the mystery of nano-crystalline ceria-zirconia.
1	21	Thomas	Hicken	Durham University	Megahertz dynamics in skyrmion systems probed with muon-spin relaxation
1	22	Grant	Howieson	University of St Andrews	Incommensurate Phase Transitions in Geometric Ferroelectric $LaTaO_4$
1	23	MdSalman	Khan	Indian Association for the Cultivation of Science	Magnetic ground state of the distorted 6H pervoskite $Ba_3CdIr_2O_9$
1	24	Calum	Green	ISIS Neutron and Muon Source	Structural analysis of liquid benzene using dissolve: next generation structure refinement for total scattering experiments
2	25	Mark	Crossman	University of Warwick	Developing a Solvothermal Reaction Cell for in-situ Neutron Scattering of Crystallisation
2	26	David	Jonas	University of Warwick	Quantum muon diffusion and the preservation of time-reversal symmetry in the superconducting state of type-I rhenium
2	27	Pankaj	Kumar	University of Cambridge	Auto-generating a database of stress-strain data for use in data-driven analysis for materials in engineering applications
2	28	Sarah	Mann	ISIS/Bristol	From bulk crystal powders to nanoparticle scintillators - the future of high rate neutron detectors?
2	29	Nicole	Melzack	University of Southampton	In-situ reaction mechanism and material speciation determination in operational batteries
2	30	Mazin	Nasralla	University of Leeds	The structure of water in extreme conditions and the boundaries of life

2	31	Joe	Orgill	University of Sheffield	SANS - SEMSANS for the study of hierarchical length scale materials systems
2	32	Daniel	Roe	University of Leeds/ISIS Neutron & Muon Source	Optoelectronic control of magnetism
2	33	Joshua	White	University of Southampton	Soft-templated electrodeposition of 3D nanostructured semiconductor materials
2	34	Matteo	Cataldo	Università degli studi Milano Bicocca	Muonic Atom X-ray Spectroscopy: implementation and benchmark of Monte Carlo simulation codes for non-destructive measurements.
2	35	Thomas	Ringrose	ISIS Neutron and Muon Source	Synthesis of deuterated natural products
2	36	Cameron	Twigg	ISIS Neutron and Muon Source	QENS and Phase Transitions
2	37	Arianna	Wintle	ISIS Neutron and Muon Source	Developing Neutron Detectors, from Monitoring to Time-of-flight Imaging
2	38	Carlos	Morante	San Jose State University	Maximum-Entropy Burg Algorithm applied to Fe ₃ O ₄ (LAMPF) and MgO (ISIS) μ SR data
2	39	George	Gill	University of Oxford/ISIS	Negative Muon Spin Rotation: DFT and MnO
2	40	Anna	Herlihy	University of Warwick	Pressure-induced phase transitions in functional materials
2	41	Armando	Ibraliu	ISIS Muon and Neutron Source	Combined Modulation Excitation, Neutron, and X-rays Methods to Understand Catalytic Systems
2	42	María Belén	López Sánchez	University of Almería	Neutron Scattering: a Valuable Procedure to study the interaction of water molecules with catalytic intermediates
2	43	Holly	Smith	University of Cambridge	
2	44	Maximilian	Sprengel	Bundesanstalt für Materialforschung und -prüfung (BAM)	The relaxation of residual stress in laser powder bed fused stainless steel 316L resulting from thermal post-processing
2	45	Aly	Abdeldaim	University of Birmingham	Realising square and diamond lattice S=1/2 Heisenberg antiferromagnet models in the α and β phases of the coordination framework, KTi(C ₂ O ₄) ₂ ·2H ₂ O
2	46	Zifan	Wang	University of Oxford	
2	47	John	Wilkinson	University of Oxford	Muon Spin Rotation: A Quantum Information Perspective
2	48	Sam	Holt	University of Warwick	Neutron diffraction studies of the magnetic structures in GaV ₄ S ₈
2	49	Matt	Hughes	University of Leeds	The Importance of Building Block Stability in Hierarchically Structured Protein Networks

Researcher skills and career choices

27 October 2020, 0900-1030

This webinar introduces participants to the concept of career and professional development planning and guides them through the process of identifying their strengths as a researcher and possible areas for development, with a view to next steps after their PhD. It will then look more closely at the career choices open to researchers both within and beyond academic roles, to encourage participants to be aware of the options they may want to explore, and how they can plan that exploration.

By the end of the session, you will gain clarity on the developmental opportunities available to you within your reach, and learn how you can maximise them and tap into them.

Daniela Bultoc, VRDSF, MBA, MA (Trainer)

A Times Higher Education Awards winner, Daniela is a national Senior Fellow Researcher Developer, a Vitae recognition of significant expertise and reputation within the researcher development profession. Until recently, Daniela worked at University College London where she initiated and led some of the largest development programmes for researchers in the UK, enhancing academic leadership competency, professional development and research excellence. In her role as Head of Communities of Practice at UCL – the project won the 2019 UHR

With over 12 years' experience in Higher Education, Daniela is an experienced research skills trainer, career development & emotional intelligence coach, and organisational development consultant who seeks to support and inspire researchers and academics to reach outstanding results. Alongside her freelance work, Daniela is currently finalising a Masters in Business Administration in Higher Education Management at UCL, and in her free time enjoys the outdoors, acting, playing music, traveling and doing voluntary work to support her community.

Tori Helmer (Vitae host)

Tori is Vitae's Learning and Development Manager, responsible for the delivery of Vitae's researcher development training programmes. She has over ten years of local, national and international experience in programme and project management, customer service, stakeholder relations and leadership in the education sector. Prior to this, Tori worked for the Foreign and Commonwealth Office where she managed complex training and delivery projects and delivered professional training to colleagues. Her portfolio of experience extends globally and includes projects with the Italian Ministry of Higher Education (MIUR), and universities such as the Universities of Oxford and Cambridge in the UK and California State and SUNY in the USA.

How to join

The webinar will take place on Zoom Pro: <https://zoom.us/j/93003863718?pwd=UFNvY0FWNGVjbm1iR2pGb1NNby9rdz09>

Meeting ID: 930 0386 3718, Passcode: 576176, Find your local number: <https://zoom.us/u/afu2qPgki>