



Science and
Technology
Facilities Council



MANCHESTER
1824

The University of Manchester

ISIS Neutron and
Muon Source

ISIS 40th Science Roadshow: Manchester

10-11 SEPTEMBER 2024

Alan Turing Building, University of Manchester. Upper Brook Street, Manchester, M13 9SR.

As part of a year of celebration for the 40th anniversary of neutrons at ISIS, we have put together a programme of roadshow events across the UK throughout 2024. Welcome to the Manchester Stop!

On the 10th and 11th of September we will host a science roadshow at the University of Manchester. Our aim for the meeting is to bring together experienced and early career researchers to discuss their science across the full range of research that ISIS supports. The oral programme covers a broad range of scientific interests and neutron (and muon) techniques.



Science Roadshows 2024

BELFAST
27th March

EDINBURGH
27th June

LONDON
24th September

CARDIFF
9-10th May

MANCHESTER
10-11th September



UKRI Science and
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DAY 1, Tuesday, 10 th of September 2024			
09:00	Registration, morning coffee		
10:25	Welcome	Roger Eccleston ISIS, STFC	Welcome
10:30	Plenary	Chris Hardacre University of Manchester	Understanding complex fluids and catalysis using Total Neutron Scattering (TNS)
11:30	Invited talk	Bana Shriky University of Bradford	FlowSANS and RheoSANS to investigate soft matter structure
12:00	Invited talk	Yujie Ma University of Manchester	Defective MOF materials for clean air and sustainable energy
12:30	Lunch break		
13:30	Invited talk	Jordan Petkov Arxada	How neutron based methods have augmented the ability to develop new applications/formulations
14:00	Invited talk	John Francis University of Manchester	Solid-state phase transformations in steels and their effects on weld residual stresses and distortion
14:30	Invited talk	Paul Bingham Sheffield Hallam University	Unravelling the structure of glass with neutrons
15:00	Coffee/Tea Break		
15:30	Invited talk	Tom Lancaster Durham University	A perfect spy: how muons reveal the secrets of topological magnets
16:00	Invited talk	Matthew Rosseinsky University of Liverpool	Neutron Scattering in materials design and discovery
16:30	Invited talk	Nicola Morley University of Sheffield	Using muon spectroscopy to probe solar cell materials
17:00	Poster presentations and reception. Sponsored by UoM@H		
19:00	Close of day 1		

DAY 2, Wednesday, 11 th of September 2024			
09:00	Registration, morning coffee		
10:00	Plenary	Jayne Lawrence University of Manchester	A journey through space and time
11:00	Invited talk	Kelly Morrison Loughborough University	From thin films to polycrystals: using neutrons to probe magnetic structure in functional materials
11:30	Invited talk	David Growney Lubrizol	The impact of neutron scattering in understanding and improving engine lubricants
12:00	Invited talk	Jeremy Lakey Newcastle University	Using neutron scattering to see biology other techniques cannot reach
12:30	Closing remarks	Roger Eccleston ISIS, STFC	The Development Road Map for the ISIS Pulsed Neutron and Muon Source
13:00	Lunch break		
14:00	Close of day 2 for Roadshow and start of Fender Symposium		

