

Deuteration Facility Meeting

3rd – 4th June 2024, Cosener's House, Abingdon

Monday 3rd June	
10:00	Registration & Coffee
Session 1 - ISIS Deuteration Facility (Chair: Sarah Youngs)	
11:15	Prof Sean Langridge <i>Welcome & Introduction</i>
11:35	Dr June McCorquodale <i>ISIS Deuteration Facility 2024 Update</i>
11:55	Dr James Tellam <i>ISIS Deuteration Facility Access and Recent Developments</i>
12:15	Lunch
Session 2 - Disordered Materials (Chair: James Tellam)	
13:30	Prof Małgorzata Swadźba-Kwaśny <i>Deuteriation, Dissolve, Domains, 3D understanding of the structure of long-chained ionic liquids</i>
14:00	Dr Tom Headen <i>Understanding liquid and amorphous structures for electrical energy storage</i>
14:20	Dr Harrison Laurent <i>Empirical Potential Structure Refinement: Exploiting Isotopic Variation for Atomic Resolution</i>
14:30	Dr Andrew Seel <i>Amines, Deuteration, and Spectroscopy: From Contrast Measurements to Incoherent Deuterium</i>
15:00	Break
Session 3 - Polymers / Surfactants (Chair: Yao Chen)	
15:30	Dr Natasha Shirshova <i>Importance of deuterated ionic liquid for structural electrolytes</i>
16:00	Ms Karyn Wilde <i>ANSTO's National Deuteration Facility: isotopic labelling strategies enabling biomolecular investigations using neutrons and more</i>
16:20	Dr Alison Paul <i>Exploiting contrast in challenging materials - a cost effective deuterated future?</i>
16:40	Dr Kuno Schwärzer <i>JCNS Deuteration Lab</i>
17:00	Free Time
18:00	Poster Session
19:30	Dinner

ISIS Neutron and Muon Source

Neutrons and muons to advance knowledge and improve lives

Tuesday 4th June	
Session 4 - Pharmaceutical & Bio (Chair: Kun Ma)	
09:00	Prof Katharina Edkins <i>Deuteration in Pharmaceutical Materials</i>
09:30	Dr Xuzhi Hu <i>Understanding the irritancy potential of nonionic surfactants by neutron scattering and reflection</i>
09:50	Dr Mona Sarter <i>Protein ligand interactions analysis using QENS – How to take the D2O based buffer into account during data analysis</i>
10:10	Dr Zoë Fisher <i>DEMAX: The Deuteration and Macromolecular Crystallization Support labs for the European Spallation Source</i>
10:30	Break
Session 5 - Discussion (Chair: Marek Jura)	
11:00	Discussion
12:00	Wrap Up
12:15	Lunch
13:30	Transport to ISIS
14:15	Tour of ISIS & Deuteration Facility