Science & Technology Facilities Council
ISIS Neutron and Muon Source

High-resolution Neutron Diffraction: Current and Future Perspectives

7th-8th January 2020, The Cosener's House, Abingdon

Tuesday 7th January

8:30-9:30 Arrival / Registration

09.30-09.40 Welcome & Introduction - Robert McGreevy (Director, ISIS)

Session 1. Chair: Alex Gibbs

09.40-10.10 Dominic Fortes (ISIS), "*HRPD at ISIS; past, present and future*"

10:10-10:40 Pascal Manuel (ISIS), *"High resolution neutron diffraction for magnetic materials on WISH"*

10:40-11:10 Takashi Kamiyama (J-PARC), "*High Resolution Neutron Powder Diffraction at J-PARC – what we did and what is still not achieved*"

11:10-11:40 Tea and coffee break

Session 2. Chair: Stephen Hull

11:40-12:10 Vladimir Pomjakushin (PSI), *"Powder neutron diffraction at continuous spallation source SINQ"*

12:10-12:40 Matt Tucker (SNS, ORNL), "*Current and Future Neutron Diffraction Capabilities at ORNL*"

12:40-13:10 Robert Von Dreele (Argonne National Laboratory), "*Rietveld refinement with GSAS-II: what's under the bonnet (hood)*"

13:10-14:10 Lunch

Session 3. Chair: Fabio Orlandi

14:10-14:40 Tomohiro Takayama (University of Stuttgart/MPI-FKF), *"High-resolution neutron diffraction study on correlated quantum materials"*

14:40-15:10 Amber Thompson (University of Oxford), "*High Resolution Neutron Diffraction: A Molecular Perspective*"

15:10-15:40 Emma McCabe (University of Kent), "*Structural chemistry and physical properties of corundum-derived oxides*"

15:40-16:10 Tea and coffee break

Session 4. Chair: Emma McCabe

16:10-16:40 Mike Hayward (University of Oxford), "*Investigating the structural phase transitions of polar Dion-Jacobson oxides*"

16:40-17:10 Richard Jones (Keele University), *"Studying weak intermolecular interactions by High-Resolution Neutron Diffraction"*

17:10-17:40 Paul Attfield (The University of Edinburgh), "*High resolution PND studies of electronic materials*"

17:40–19:30 Poster session

19:30 Dinner

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Session 5. Chair: Dominic Fortes

09:00–09:30 Gøran Nilsen (ISIS), *"Magneto-structural transitions in spinel oxides"*

09:30-10:00 Silvia Capelli (ISIS), *"H/D isotope effect in molecular organic materials"*

10:00-10:30 Isaac Abrahams (Queen Mary University of London), *"Subtle phase transitions in materials for high energy storage applications"*

10:30–11:00 Tea and coffee break

Session 6. Chair: Amber Thompson

11:00–11:30 John Evans (Durham University), "*High Resolution Neutron Diffraction: Current and Future Perspectives"*

11:30-12:00 Jason McNulty (University of St Andrews), *"Structural characterisation of hexagonal tungsten bronzes using high-resolution neutron diffraction"*

12:00–12:45 Bill David (University of Oxford / ISIS), *"Back to the future: a retrospective look at the next decade of high resolution neutron powder diffraction*"

12:45 Meeting closes with lunch followed by coffee/tea