

Advanced Material Network: Multiscale Tuning of Interfaces and Surfaces for Energy Applications (MISE)
“Energy Materials Interfacing.” 21 – 22 June 2021. Gather town

Day 1: Monday 21 June 2021

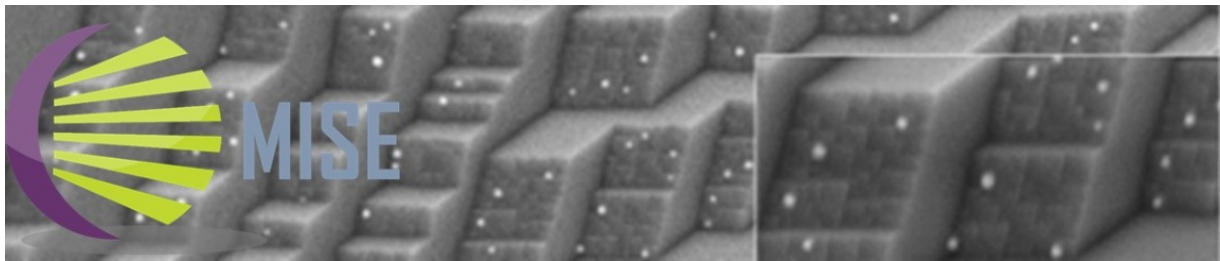
0955 - 1000 Introduction and Welcome
John Irvine

Session 1 – Chair John T S Irvine

- 1000 – 1045 “Exploiting Interfaces to Enhance the Performance of Thermoelectrics.”
Bob Freer, University of Manchester
- 1045 - 1110 “Structure Property Relationships in Ionic Conducting Hexagonal Perovskite Derivatives.”
Abbie McLaughlin, University of Aberdeen
- 1110 – 1140 Break and discussion
- 1140 - 1205 “Bismuth based materials for supercapacitors and batteries.”
Neil Robertson, University of Edinburgh
- 1205 - 1230 “Fully printed organic-inorganic nanocomposites for flexible thermoelectric applications.”
Sohini Kar-Narayan, University of Cambridge
- 1230 – 1330 Lunch and discussion

Session 2 – Chair Jon Binner

- 1330 - 1355 “The art of breaking symmetry, new applications of ferroelectric materials to capture and convert energy.”
Steve Dunn, London Southbank University
- 1355 - 1420 “Understanding the thermal transport in Sn(S,Se) alloys for thermoelectric applications.”
Jonathan Skelton, University of Manchester
- 1420 – 1445 “Structural Studies of Energy Materials: From Photovoltaics to Operando Studies.”
Julia Payne, University of St Andrews
- 1445 – 1545 Poster Session
- 1545 – 16.10 “Predicting grain boundary segregation in oxides using atomistic simulation.”
Tom Underwood, University of Bath
- 16.10-16.35 “An overview on electrode design for high-performance Sodium ion batteries.”
Nuria Tapia Ruiz, University of Lancaster
- 1635 Close



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Day 2 – Tuesday 22 June 2021

0900 – 0945 Advisory Board Meeting (TBC)

Session 3 – Chair Steve Parker

1000 – 1045 “Digital Routes to Functional Materials”
Matt Rosseinsky, University of Liverpool

1045 - 1110 “Doping strategies to improve the Li-solid electrolyte interface for garnet solid state Li ion batteries.”
Peter Slater, University of Birmingham

1110 - 1140 Break and discussion

1140 - 1205 “Soft templates with designed microstructure for energy storage devices.”
David French, University of Edinburgh

12.05 - 12.30 “Understanding Charging Mechanisms in Supercapacitors.”
Alexander Forse, University of Cambridge

12.30 – 13.30 Lunch and discussion

Session 4 – Chair Job Thijssen

13.30 – 13.55 “The Fabrication of KNN-based Multifunctional Materials for a Hybrid Energy Harvester.”
Victoria Ye, University of Birmingham

13.55 – 14.20 “Engineering Sustainable Materials for Energy Applications.”
Ana Jorge Sobrido, Queen Mary University London

14.20 – 15.20 Poster Session

15.20 – 15.55 “Non precious metal catalysts for air breathing electrochemical devices: Assessing performance and surface density of active sites.”
Anthony Kurcenak, Imperial College London

15.55 – 16.20 “Processing of garnet LLZO material for solid state battery”
Mihkel Vestli, University of St Andrews

16.20 – 16.25 Thank you and Departure.