

Postdocs in Nuclear Energy meeting (PiNE) 2020

30th September 2020

Introduction

13:00 “Nuclear Futures at Bangor University”, **Bill Lee, Simon Middleburgh, Michael Rushton.**

Postdoc session

13:15 “Investigation of SiC/SiC composites by X-ray computed tomography and image-based modelling” – Yang Chen, University of Oxford

13:30 “Oxidation of high-density fuels investigated with hard X-ray photoelectron spectroscopy” – James Buckley, University of Manchester

13:45 “Evaluating pilot plant centrifugal contactors platform for radionuclide separation” – Alastair Baker, University of Leeds

14:00 “Decontamination and waste minimisation strategies for and using advanced molten salt nuclear technologies” – Tatiana Grebennikova, University of Manchester

14:15 “Utilising Atom Probe Tomography to characterise structural nuclear materials” – Benjamin Jenkins, University of Oxford

14:30 “Oxidation of U_3Si_2 : elevated and room temperature observations” – Robert Worth, University of Manchester

14:45 “Size effect and fracture behaviour in nuclear graphite for the next generation of prismatic nuclear power plant” – Antoine Cornet, University of Manchester at Harwell

Career development session: PhD to Postdoc to PI

15:00 **Joel Turner**, Dalton Fellow in Nuclear Fuel Technology, University of Manchester

15:30 **Alexander (Sandy) Knowles**, Royal Academy of Engineering Research Fellow, UKRI Future Leaders Fellow, University of Birmingham

Research grant session

16:00 **Edward Jones**, portfolio manager (End User Energy Demand & Carbon Capture and Storage);
Andrew Eustace, Nuclear Fission portfolio manager, EPSRC

Industry session: The National Nuclear User Facility (NNUF) representatives

16:30 “NNUF: opportunities to apply for funding to access facilities via a new user access scheme”

Chris Grovenor, PI of NNUF management group, University of Oxford;

Francesca McGowan, NNUF administrator, University of Oxford

Kevin Warren, director of operations and sustainability, Dalton Cumbrian Facility

Sabrina Shirazi, project manager, Hot Robotics Facility, University of Bristol

Postdoc session

17:00 “A novel generalized multifluid modelling approach for the simulation of multiscale flows” – Andrea De Santis, University of Leeds

17:15 “Radiation inspection of nuclear environments aided by robotics” – Ioannis Tsitsimpelis, Lancaster University

17:30 “Ion beam irradiation induced damage in Al/NbC coating layers” – Jamie Nanson, University of Liverpool

17:45 “Resilience assessment for severe accidents of safety-critical systems” – Hector Estrada-Lugo, University of Liverpool

18:00 “NPTTool simulations for the DESPEC γ -ray detection setup at FAIR/GSI” – Muhammad Majid Rauf Chishti, University of Surrey