

## Nanoscience@Surfaces Summer School

Monday 22 July	
11:00	Registration (Exhibition Centre)
12:00	Lunch (P/L/005)
	<b>Location: P/L/002</b>
13:00	<b>Welcome</b> Dr Andrew Pratt, University of York
13:10	<b>Structure and Bonding in Hydrogen Bonded Networks</b> George Darling, University of Liverpool
14:00	<b>Scanning Tunnelling Microscopy Studies of Metal Nanocrystals</b> Peiyu Chen, University of Cambridge
14:50	Refreshments and Posters (P/L005)
15:50 – 16:40	<b>Where do particle accelerators come from, and why is nanoscience critical for their operation?</b> Andrew Vick, ASTeC, STFC
18:30	Dinner (Roger Kirk Restaurant)
19:30	Reception / Icebreaker (Roger Kirk Restaurant)

Tuesday 23 July	
	<b>Location: P/L/002</b>
09:00	<b>Van der Waals Materials for Nanophotonics and Laser Devices</b> Yue (Christina) Wang, University of York
09:50	<b>Scanning Probes under the Microscope</b> Philip Moriarty, University of Nottingham
10:40	Coffee (P/L/005)
11:00	<b>Photoelectron and X-ray absorption spectroscopy at Synchrotrons</b> Georg Held, Diamond Light Source

11:50	<b>Theory of reactions at surfaces</b> Dave Willock, University of Cardiff
12:40	Lunch (P/L/005)
13:30	<b>Workshop I: XPS or STM analysis</b> (Comp Lab P/T/201) Dr. Ben Spencer and Liam Dwyer - XPS, University of Manchester and Dr. Joe Smerdon - STM, University of Central Lancashire
15:30	Coffee and Posters (P/L/005)
16:00 – 16:50	<b>Molecular beam epitaxy of novel materials</b> Gavin Bell, University of Warwick
18:30	Dinner (Roger Kirk Restaurant)

Wednesday 24 July	
	<b>Location P/L/002</b>
09:00	<b>An introduction to density functional theory</b> Phil Hasnip, University of York
09:50	<b>Organic spintronics</b> Oscar Cespedes, University of Leeds
10:40	Coffee (P/L/005)
11:00	<b>Surface properties of magnetic nanoparticles</b> Andrew Pratt, University of York
11:50	<b>Helium atom scattering</b> David Ward, University of Cambridge
12:40	Lunch (P/L/005)
13:30	<b>Workshop: Hands-on DFT</b> (Comp Lab P/T/201) Phil Hasnip, University of York
15:30	Coffee and Posters (P/L/005)
16:00 – 16:50	<b>Perspective: 45 years in surface science</b> Steve Tear, University of York
19:00	Conference Dinner (Quarks Restaurant, the National STEM Learning Centre)

Thursday 25 July	
	<b>Location: P/L/002</b>
09:20	<b>Beamline B07 at Diamond Light Source</b> Dave Grinter, Diamond Light Source
10:10	Coffee (P/L/005)
10:40	<b>Careers Workshop</b>
12:40	Lunch (P/L/005)
13:30	<b>Tools for In Operando Laboratory Astrophysics of Solids and Surfaces</b> Martin McCoustra, Heriot-Watt University
14:20	<b>Interfacial X-ray Analysis of Multicomponent Organic Materials: Towards a Rational Understanding of Particle Interactions in Formulated Products</b> Sven Schroeder, University of Leeds
15:10	<b>Closing Remarks</b> Andrew Pratt, University of York

Posters (P/L/005)	
P1	<b>Classical simulations of aqueous sodium citrate at the polarisable gold (111) interface</b> Elspeth Smith, Ruhr-Universität Bochum
P2	<b>P2: Characterisation of a novel detector and analyser of low-energy electrons for surface analysis</b> Yousef Alharbi, University of York