

Chemistry Postgraduate Symposium, 29th & 30th June

All presentations in Haworth 101

Thursday 29th June

10:00 **Welcome**

10:15 – 11:15 **Solid State Chemistry**

Rebecca Bird Atomistic simulation of cerium brannerite – a candidate matrix for HLW
Ryan George Switching on ion exchange in metal germanates

11:45 – 13:00 **Physical & Theoretical Chemistry**

Heidar Hussein Computational investigations into the structures and physical properties of Au-Pd sub-nanometre clusters
Emma Thompson Magnetic resonance imaging of phase-separation in vesicle-polymer mixtures
Abhishek Rao Prediction of crystal structure polymorphism

14:00 – 15:25 **Solid State Chemistry**

Dean Fletcher Porous oxide ceramics
Kanika Gupta Functional materials derived from the schafarzikite mineral framework
Ivan Trussov Development of new materials for use in Li/Na ion batteries

Friday 30th June

09:50 – 10:50 **Physical & Theoretical Chemistry**

Phil Jemmett Structural investigations of glycolipids: how do chemically similar molecules perform so many different biological functions?
Marcus Taylor A direct dynamics approach to proton transfer in the GFP chromophore

11:20 – 13:00 **Molecular Synthesis**

Gary Peczkowski Asymmetric organocatalysis: aryl triketopiperazines
Giacomo Chiodarelli Development of new synthetic inhibitors of Mycobacterium tuberculosis DprE2
Elsa Martinez Novel gold catalysed formal [3+2]-dipolar cycloaddition to access highly functionalised imidazo heteroaryls

14:00 – 15:25 **Biomolecular, Supramolecular & Nanochemistry**

Francia Allabush Modifying DNA aptamers for sensing applications
Dennis Zhao Triphenylenes for use in nanofabrication and luminescent applications
Media Ismail Organometallic nucleoside analogues: overview, synthesis and cytotoxic activity

15:55 – 16:45 **Molecular Synthesis**

Xingjian Li Natural product isolation and derivatisation towards leukaemia therapeutics
Bogdan Duma Synthesis of active pharmaceutical ingredients