



16th Annual Cardiff Chemistry Conference



15th and 16th May 2017

School of Chemistry – Large Chemistry Lecture Theatre

<http://www.cardiff.ac.uk/chemistry/events/cardiff-chemistry-conference>

 #CCC2017



Monday 15th May 2017

13:55 Welcome: Damien Murphy (Acting Head of School of Chemistry)

Lecture Session 1 Chair: Richard Catlow, FRS

14:00 Saiful Islam (University of Bath)

Atomic-scale insights into energy materials – batteries included

15:00 Lewis Wilkins (Cardiff University; Melen Research Group)

The softer side of boron: taming hard Lewis acids for soft-centred chemistry

15:15 Coffee / Poster Session (Viriamu Jones Gallery)

Lecture Session 2 Chair: Damien Murphy

15:45 David Klenerman, FRS (University of Cambridge)

Watching single molecules

16:45 Stefano Cattaneo (Cardiff University; Hutchings Research Group)

Towards the continuous production of supported monometallic and bimetallic nanoparticles for applications in catalysis

17:00 Robert Hughes (Cardiff University; Allemann Research Group)

A rapid analysis of conformational behaviour during enzyme catalysis

Poster Session Organizer: Rebecca Melen

17:15 – 19:00 Poster Session (Viriamu Jones Gallery)

Wine Reception (*Sponsored by South East Wales Local Section of the Royal Society of Chemistry*)

Dinner

19:00 BY INVITATION ONLY

Tuesday 16th May 2017

Lecture Session 3 Chair: Simon Pope

- 09:00 Annie Powell (Karlsruhe Institute of Technology, Germany)
Coordination compounds through the looking glass: how chirality in coordination clusters might help us understand our world
- 10:00 Matt Turner (Cardiff University; Platts Research Group)
Modelling platinum amyloid-beta interactions
- 10:15 Christiane Schotten (Cardiff University; Browne Research Group)
From explosives to drugs: the use of forbidden chemistry in multistep continuous flow processes
- 10:30 Coffee / Poster Session (Viriamu Jones Gallery)

Lecture Session 4 Chair: Kenneth Harris

- 11:00 Andrew de Mello (ETH Zürich, Switzerland)
Microfluidics for next generation chemistry and biology: droplets, particles and photons
- 12:00 Carlos Hernandez Tamargo (Cardiff University; de Leeuw Research Group)
Phenol and catechol tautomerization at the external surface of zeolite MFI
- 12:15 Wen Zhu (Cardiff University; Richards Research Group)
Application of membrane inlet mass spectrometry in the mechanistic study of LigW-catalyzed decarboxylation of 5-carboxyvanillate
- 12:30 Close of Session / Lunch

Lecture Session 5 Chair: Thomas Wirth

- 14:00 Yi Jin (Cardiff University)
What could F tell about H-bonds ? A biological case on small G protein RhoA
- 14:25 Qian He (Cardiff University)
Electron microscopy: from catalyst discovery to catalysts by design
- 14:50 Andrea Folli (Cardiff University; Murphy Research Group)
Spin manipulation in metal oxides: designing novel materials for energy and spintronic applications
- 15:05 Coffee / Poster Session (Viriamu Jones Gallery)

Lecture Session 6 Chair: Nigel Richards

- 15:35 Andrew Logsdail (Cardiff University)
Computational insights into heterogeneous catalysis
- 16:00 Emma Richards (Cardiff University)
Applications of EPR spectroscopy for the study of earth abundant transition metal catalysis
- 16:25 Closing Remarks: Kenneth Harris