

RSC Physical Organic Chemistry Group



Problem Solving in Design, Synthesis & Process

Burlington House, London, September 25th 2009

The RSC Physical Organic Chemistry Group serves chemists interested in research and development in the fields of mechanism, reactivity, chemical process, structure and molecular interactions in organic systems, especially in relation to studies leading to a quantitative understanding of molecular properties and behaviour and their relationships with chemical structure.

The group's mission is to foster links between researchers, to provide platforms for presenting and discussing work, to represent the interests of our members and to promote the application of Physical Organic Chemistry methodology to extending the body of academic knowledge and to better practice in industrial R&D and manufacturing.

AstraZeneca 

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10:00 am	Arrival & Registration
10:30 am	Welcome & Housekeeping
10:40 am	Prof Guy Lloyd-Jones, University of Bristol Physical Organic Chemistry in Transition Metals Catalysis: Towards Informed Development and Applications
11:30 am	Dr Ian Houson, Britest Ltd Equipment Selection for Chemists
12:20 pm	Suppliers & Capabilities
12:30 pm	(Net)Working Lunch & Poster Session
2:00 pm	Dr Robert Ashe, AM Technology Handling slurries in plug flow reactors
2:25 pm	Dr Matthew Sterling, IPOS Ltd Understanding Kinetics in Multiphase Systems: Air oxidation of a reduced heteropoly acid for application in a Pt-free Fuel Cell Cathode.
2:50 pm	Dr Nabil Asaad, Chemagination Ltd Kinetic Studies in Defence of Intellectual Property
3:20 pm	Tea & Coffee
3:40 pm	Dr Brian Cox, AstraZeneca PLC Process Improvement through Mechanistic Understanding
4:30 pm	Prof Martyn Poliakoff, University of Nottingham Continuous Reactions in Supercritical Fluids
5:20 pm	Close
5:30 pm	RSC Physical Organic Chemistry Group Reception



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Capabilities Presentations

Quantifying Aggregation Behaviour by Calorimetry
Dr Niklaas Buurma, Cardiff University

Solution-state 'Crystallography' by NMR
Dr Craig Butts, University of Bristol

Measuring Kinetics in Liquid Ammonia
Pengju Ji, University of Huddersfield

Croft Group Research Capabilities
Dr Anna Croft, Bangor University

Main Sponsor

AstraZeneca PLC
<http://www.astrazeneca.com/>

Partners

AM Technology
<http://www.amtechuk.com/>

Cambridge Reactor Design Ltd
<http://www.crduk.com/>

Chemagination Ltd
<http://www.chemagination.co.uk/>

IPOS – University of Huddersfield
<http://www.hud.ac.uk/ipos/>

iPRD – University of Leeds
<http://www.iprd.leeds.ac.uk/>



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Mr Firdous Ahangar University of Teeside	Mr Pengju Ji Huddersfield University
Dr Nabil Asaad Chemagination Ltd	Dr Athan Karas Material Harvest Ltd
Mr Robert Ashe AM Technology	Professor Guy Lloyd Jones Bristol University
Dr Ian Ashworth AstraZeneca	Mr Matthew Lui Imperial College London
Professor John Blacker iPRD University of Leeds	Dr Paul Mwashimba Consultant
Dr Martin Bowden Syngenta	Mr Mazin Othman Cardiff University
Dr Craig Butts Bristol University	Professor Martyn Poliakoff Nottingham University
Mrs Shanaz Butts Cambridge Reactor Design	Dr Nick Powles IPOS Ltd
Dr Niek Buurma Cardiff University	Mrs Katerina Ridge Surrey University
Dr Brian Cox AstraZeneca	Mrs Gill Smith Cambridge Reactor Design
Dr Anna Croft Bangor University	Dr Doug Spencer Fujifilm Imaging Colorants
Dr Lorna Crowhurst Imperial College London	Dr Matthew Stirling IPOS Ltd
Miss Mihaela Dorin Cardiff University	Kinaan Tawfiq MMU
Dr David Fox University of Warwick	Dr Annette Taylor iPRD University of Leeds
Dr Gilda Gasparini AM Technology	Manisha Varia Bangor University
Dr George Hodges Syngenta	Dr Matt Wood AstraZeneca
Mr Gregory Horne AstraZeneca	Honman Yau Bangor University
Dr Ian Houson Britest Ltd	Dr Rui Zhang Material Harvest Ltd