



International Year of
CHEMISTRY
2011



better chemistry – faster

Conference Invitation

Flow and batch process development for hydrogenation and other catalytic processes

27th September 2011

Pfizer Lecture Theatre, Chemistry Department,
Cambridge University

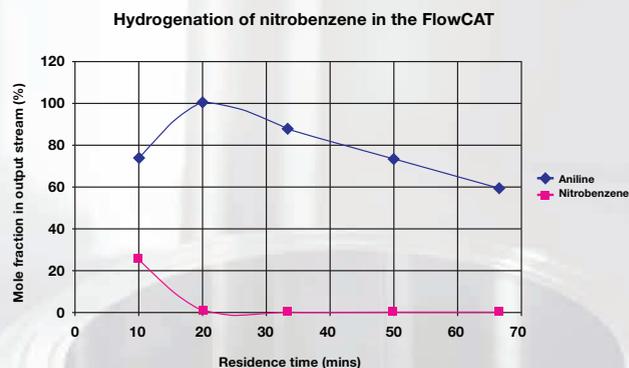
Chair: Dr Ian R. Baxendale, Royal Society University
Research Fellow, Cambridge University

Catalytic reactions, hydrogenation in particular, have seen a remarkable surge in interest over the last 10 years, most strikingly in the pharmaceutical and fine chemical industries. More recently, flow chemistry has begun to attract a similar level of interest for a wide range of chemistries, but especially involving heterogeneous catalysis.

To celebrate the International Year of Chemistry 2011, join us at Cambridge University for a day focused on the development tools and applications for both batch and flow reactions from a wide range of industries.

The conference promises to be a mixture of social events, a platform for exchanging views and research notes and of course a great opportunity to gather some market intelligence!

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Leading chemists will also be outlining their recent experiences on the following topics:

- ! Early Screening using manual and automated tools
- ! Development of pressure reactions using parallel synthesis
- ! Scale up of flow and batch catalytic reactions
- ! Supercritical and other “green” chemistries
- ! Large scale continuous hydrogenations

PRELIMINARY AGENDA

MONDAY 26TH SEPTEMBER

18:30 Drinks Reception and Social Gathering (details tba)

TUESDAY 27TH SEPTEMBER

08:30 Registration and Coffee

Introduction and Keynote Lecture

Dr Ian R. Baxendale

Royal Society University Research Fellow, Cambridge University (UK)

Flow Hydrogenation: Enhanced Diastereoselectivity, Purity Control, and Catalyst Activity relative to Batch operation

Dr Joel Hawkins

Pfizer (Groton, USA)

Development of catalytic oxidation flow process (tentative)

John Studley

Vertex Pharmaceuticals (UK)

Pd/diphosphane-catalyzed reductive carbonylation of nitrobenzene in methanol – some surprises

Dr T Mooibroek, Prof. E. Bouwman and Prof. E. Drent.

Leiden University (Netherlands)

Development of new oxidation catalysts (tentative)

Dr Mark J Muldoon

Queens University Belfast, (UK)

Reactive distillation in continuous mode

Prof Allen Wright

University of Newcastle (UK)

Hydrogenation and other Continuous Processes in supercritical fluids

Prof Martyn Poliakoff and Dr Richard Bourne

University of Nottingham (UK)

Engineering aspects of batch and flow heterogeneous reactors based on performance data

Dr Jasbir Singh

HEL Group (UK)

CALL FOR FURTHER PRESENTATIONS

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