

5th Winter Process Chemistry Conference



**SCIENTIFIC
UPDATE**

We've got chemistry

A 3-day Conference and Exhibition

Manchester Conference Centre, Manchester, UK

11 – 13 December 2018

PROGRAMME



Tuesday 11 December 2018

12.30 – 13.55 **Registration**
12.45 – 13.55 **Buffet Lunch & Exhibition**

Afternoon Session Chairman: Will Watson, Scientific Update Ltd

14.00 **Dr Ian Priestley**, Syngenta, UK
If we know the TMR we are Safe – Some Misconceptions in Chemical Reaction Hazards

14.45 **Dr Ian Grayson**, Formerly of Evonik Nutrition & Care GmbH, Germany
The Reluctant Process Chemist

15.30 **Coffee and Exhibition**

16.15 **Dr. Gustavo Santiso-Quñones**, Crystallise! AG, Switzerland
Non-Standard Crystallization Methods: Crystallization of APIs Which Were Not Possible to Crystallize Before

17.00 **KEYNOTE SPEAKER**
Professor Philip J. Parsons | Imperial College London
An Introduction to Pharmaceutically Important Molecules -A Retrosynthetic Approach

18.00 **End of Session**

18.00 – 20.00 **Poster and Exhibition Networking Reception – Exhibition area**

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Wednesday 12 December 2018

Morning Session Chairman: Name to be confirmed, Organisation, Country

- 8.25 **Opening remarks**
- 8.30 **Professor Xiong-Wei Ni**, NiTech Solutions Ltd, UK
Developments in Continuous Reactions & Crystallisation
- 9.15 **Professor Nik Kapur**, iPRD University of Leeds, UK
Multi-phasic Continuous Flow Reactors and Reactions
- 10.00 Coffee and Exhibition-
- 10.45 **Georg Wuitschik**, Roche, Switzerland
Using Data Analysis to Evaluate and Compare Chemical Syntheses
- 11.30 **Dr David Daniels**, Pfizer, UK
The JAK3 Inhibitor PF-06651600 – Commercial Route Identification
- 12.15 **Dr Robert Smith**, Sterling Pharma Solutions Ltd, UK
Use of Diazomethane in Industrial Scale Manufacture of an API
- 13.00 **Buffet Lunch and Exhibition**
- Afternoon Session Chairman: Name to be confirmed**, Organisation,
- 14.00 **Dr Robert McElroy**, University of York, UK
Intelligent Solvent Selection to Maximise Efficiency and Sustainability
- 14.45 **Name to be confirmed**, Novasep, France
Title to be confirmed
- 15.30 **Coffee and Exhibition**
- 16.15 **Dr Ricardo Mendonça**, Hovione, Portugal
Process Development and Scale-up of a Novel Aminoglycoside Antibiotic
- 17.00 **KEYNOTE SPEAKER**
Professor Nicholas Turner, University of Manchester, UK
Process Development of New Biocatalysts for Chiral Amine Synthesis
- 18.00 **End of Session**
- 19.30 – 22.00 **Conference Dinner**

Thursday 13 December 2018

Morning Session Chairman: Will Watson, Scientific Update

- 8.55 **Opening remarks**
- 9.00 **Keynote Speaker**
Professor Erick Carreira, ETH Zurich, Switzerland
New Reactivity Modes in Reaction Discovery
- 10.00 **Dr Graham Meek**, Dr Reddys, UK
Approaches Towards a Sub-Fragment of Eribulin
- 10.45 **Coffee and Exhibition**
- 11.30 **Dr Alan Steven**, AstraZeneca, UK
Tuning the Opening of 3-membered Rings for the Development Manufacture of 3 Non-Steroidal Selective Glucocorticoid Receptor Modulators
- 12.15 **Dr Freija Glansdorp**, Greaves Brewster, UK
Protecting Chemical Processes: To Patent or not to Patent?
- 13.00 **Conference Ends**
- 14.00 – 17.00 **OPTIONAL SHORT COURSE**
Synthesis of Pharmaceutically Important Molecules | A Retrosynthetic Analysis
Presented by Professor Philip J. Parsons | Imperial College London

The course will be involved with the strategic analysis of organic molecules in general and biologically active molecules in particular. The course will begin with a description and definition of the terms used in retrosynthetic analysis; specific chemical examples will be used in order to exemplify the definitions used during this short course. The course will aim to show how complexity in molecules can be reduced to avoid multistep sequences.

Methods for the control of stereochemistry will be discussed which will include nitron and nitrile oxide cycloadditions, the Diels Alder reaction in its various forms and its use to work forward in a synthesis in order to plan retrosynthesis of complex molecules. Retro synthetic analysis for cascade cyclisations and radical chemistry will also form a part of this course.

Selected examples from the presenters own research will be discussed in relation to cascade reactions for the rapid assembly of biologically important molecules.

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