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: ***Dr 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-Quiñones,** Crystallise! AG, Switzerland *Non-Standard Crystallization Methods: Crystallization of APIs Which Were Not Possible to Crystallize Before*
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**
18.00 – 20.00	**Poster and Exhibition Networking Reception – Exhibition area**

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Wednesday 12 December 2018

Morning Session Chairman: *Dr Ian Grayson*, *Formerly of Evonik Nutrition & Care GmbH*

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	**Dr 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 *Process Development towards Manufacture of High Purity Thiophosgene*
13.00	**Buffet Lunch and Exhibition**
	Afternoon Session Chairman: Dr John Studley, *Scientific Update Ltd*
14.00	**Dr Robert McElroy**, University of York, UK *Intelligent Solvent Selection to Maximise Efficiency and Sustainability*
14.45	**Dr Bertrand Cottineau,** Novasep, France *ADC process Development: Payload and Bioconjugation*
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 Philip J. Parsons** | Imperial College London, London *An Introduction to Pharmaceutically Important Molecules -A Retrosynthetic Approach*
18.00	**End of Session**
18.00 – 19.30	**Gin Tasting and Pre-Dinner Drinks**
19.30 – 22.00	**Conference Dinner**

Thursday 13 December 2018

Morning Session Chairman: ***Dr Will Watson,*** *Scientific Update Ltd*

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 with Lunch**
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 nitrone and nitrile oxide cycloadditions, the Diels Alder reaction in its various forms and it's 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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