

Closed Loop Optimisation of Synthesis

16 April 2015

GSK Stevenage

09:00 Registration and coffee

09:30 Welcome and introduction

Dr Robin Attrill (GSK, Dial-a-Molecule)

09:45 Opportunities for closed loop optimisation with the pharmaceutical industry

Mr Andrew Richards (GSK)

10:05 Automated optimisation in continuous flow reactors

Dr Richard Bourne (University of Leeds)

10:50 Coffee and exhibition

11:10 Manufacturing the Future: Closed loop optimisation for sustainable chemical manufacture

Closed loop optimisation of continuous processes using HPLC monitoring – Prof Richard Whitby (University of Southampton)

Sequential optimisation of semi-batch reactions for discovery of process recipes – Prof Alexei Lapkin (University of Cambridge)

Multivariate analysis of reaction data – Dr Alison Nordon (University of Strathclyde)

Statistical challenges for automatic experimentation – Dr Dave Woods (University of Southampton)

12:15 Flash poster presentations

12:45 Lunch, exhibition and poster session

13:45 Self-optimising and other reactions

Prof Sir Martyn Poliakoff (University of Nottingham)

14:30 Closed loop optimisation using non-linear regression analysis

Mr Chris Selway (Cyclofluidic)

14:50 Control of novel continuous reactors in flexible manufacturing

Dr Ewan Mercer (Perceptive Engineering)

15:10 Afternoon refreshments and exhibition

15:30 Optimal control of chemical reactions with data-driven models

Dr Frank Langbein (Cardiff University)

15:50 Using configurable robotics, algorithms and randomness to discover and synthesise new molecules

Prof Lee Cronin (University of Glasgow)

16:35 Panel discussion

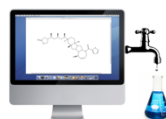
17:15 Poster session and wine reception

18:00 Meeting close

www.dial-a-molecule.org

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