

Chemical Synthesis in the 21st Century

Program Day 1

30 June 2015

10:00 – 10:30 **Registration with Tea/Coffee**

10:30 – 10:40 **Welcome address**

Prof Richard Whitby (University of Southampton, Dial-a-Molecule PI)

SESSION ONE: Chair: Prof Richard Whitby (University of Southampton)

10:40 – 11:25 **Keynote: From copper catalysis to metal-free cross coupling: New methods for target synthesis**

Prof David Procter (University of Manchester)

11:25 – 11:30 **Dial-a-Molecule supported Manufacturing the Future projects: An introduction**

Dr Gill Smith (Co-ordinator, Manufacturing the Future Projects)

11:30 – 11:50 **Sustainable manufacturing in multiphase continuous reactors**

Prof Asterios Gavriilidis (University College London)

11:50 – 12:10 **Factory in a fume cupboard: Reagentless flow reactors as enabling techniques for manufacture**

Prof Kevin Booker-Milburn (University of Bristol)

12:10 – 12:25 **A web-based system for the automated analysis and prediction of reaction outcomes**

Dr Mikhail Kabeshov (University of Cambridge)

12:25 – 13:30 **Lunch break**

SESSION TWO: Chair: Prof Steve Marsden (University of Leeds)

13:30 – 14:15 **Keynote: Marrying synthetic chemistry and synthetic biology to Dial-a-Molecule**

Dr Rebecca Goss (University of St Andrews)

14:15 – 14:30 **Carbon nanoreactor stabilised nanoparticle catalysts**

Dr Thomas Chamberlain (University of Leeds)

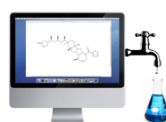
14:30 – 14:45 **Descriptor-led ligand screening in organometallic catalysis**

Dr Natalie Fey (University of Bristol)

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14:45 – 16:45 **Parallel breakout sessions** (*including a 20 min coffee break at 15:30*)

- Big Data and Predicting Reaction Outcomes
- Towards a National Catalyst Collection
- Using Biology and Synthetic Biology to Dial-a-Molecule

16:45 – 17:00 **Feedback from breakout sessions**

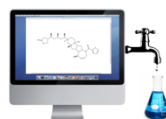
17:00 – 19:00 **Free time**

19:00 – 21:00 **Buffet Dinner** (*Rootes Building*)

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