

Conference Programme

Wednesday 28 January

- 17:30 - 19:30** **Organic Chemistry**
- 17:30** **Opening Remarks**
- 17:45** **Mats Larhed**
Palladium(II)-Catalyzed Coupling Reactions Under Microwave Radiation
- 18:30** **Bert Maes**
Efficient Synthesis of Substituted α -Carbolines based on Microwave-Assisted Pd-Catalyzed Intramolecular Direct Arylation Reactions
- 19:00** **Erik Van der Eycken**
Application of Microwave Irradiation for the Synthesis of Natural Product Analogues
- 19:30** **Group dinner reception**
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Thursday 29 January

- 08:30 - 10:35** **Organic & Medicinal Chemistry**
- 08:30** **Scott Wolkenberg**
Application of Microwave-Assisted Organic Synthesis in Medicinal Chemistry
- 09:15** **Scott Schaus**
Catalytic Chiral Heterocycle Synthesis
- 09:45** **Daryl Sauer**
Recent Developments in High-Throughput Synthesis Utilizing Microwave Heating, Polymer Supported Reagents and Flow Chemistry
- 10:15** **Romano Orru**
A Novel MW-assisted Tandem Multicomponent/[2+3]-Cycloaddition Reaction
- 10:35 - 11:00** **Informal discussion and refreshments**
- 11:00 - 12:30** **Polymers & Materials**
- 11:00** **Helmut Ritter**
The Use of Microwaves in Polymer Chemistry: Recent Examples and Developments
- 11:30** **Geoffrey Strouse**
Why does Microwave chemistry provide exquisite control over the growth of semiconductor nanocrystals?
- 12:00** **Rajender Varma**
Microwave-assisted eco-friendly synthesis of organics and nanomaterials
- 12:30 - 13:30** **Group lunch**

- 15:30 - 16:55** **Microwave Effects**
- 15:30** **Oliver Kappe**
Non-thermal Microwave Effects - Myth or Reality
- 16:15** **Urban Bren**
The Photoluminescence Lifetime of Negatively Charged CdSe/CdS/ZnS Nanocrystals in Air and Nitrogen
- 16:35** **John Robinson**
Light-Induced Ultrafast Structural Dynamics and Fluorescence Blinking of Nanomaterials
- 16:55 - 17:20** **Informal discussion and refreshments**
- 17:20 - 19:05** **Biosciences**
- 17:20** **Chris Geddes**
Microwave-Accelerated Plasmonics: Ultrafast and Ultrasensitive Diagnostics
- 18:05** **Bernadett Bacsa**
Microwave-assisted Solid-Phase Peptide Synthesis
- 18:35** **Asier Unciti-Broceta**
Advanced Microwave-Assisted Synthesis of Biological Probes
- 19:05 - 20:00** **17 short contributed talks**
- 20:00** **Dine-around (choice of hotel restaurant)**
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Friday 30 January

- 08:30 - 10:05** **Flow Chemistry**
- 08:30** **Ian Baxendale**
Facilitating Synthesis using Flow Techniques
- 09:15** **Andreas Kirschning**
New enabling technologies for organic synthesis: From flow reactors to novel heating concepts
- 09:45** **Toma Glasnov**
Pd/C as a Precatalyst for Ligandless Mizoroki-Heck Reactions. A Critical Comparison of Batch/Microwave and Continuous Flow Processing Techniques
- 10:05 - 10:30** **Informal discussion and refreshments**
- 10:25** **Michael Organ**
Flow Chemistry and Its Impact on Synthesis
- 11:10** **Mauricio Angeles-Hernandez**
- 11:30 - 13:00** **Poster session & refreshments**

- 13:00 - 14:00** **Group lunch**
- 16:00 - 19:10** **Microreactors**
- 16:00** **Paul Watts**
 Enhanced Chemical Synthesis Using Flow Reactors
- 16:45** **Yasuhiro Uozumi**
 Development of Micro-Flow Reaction Devices Bearing Polymeric Catalyst Membranes
- 17:15** **Takahide Fukuyama**
 Microflow Magic to Make Homogeneous Catalysis to Mimic Heterogeneous Catalysis
- 17:45 - 18:05** **Informal discussion and refreshments**
- 18:05** **Peter Seeberger**
 Microreactors in the Hands of Synthetic Chemists S
- 18:50** **Nicholas Cosford**
 Microreactor-based Rapid Synthesis of Drug-like Heterocyclic Scaffolds
- 19:10 - 20:00** **Panel Discussion**
- 20:00** **Group dinner**
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Saturday 31 January

08:30 - 10:15 **Scale-Up**

08:30 **Jonathan Moseley**

Further Investigations into the Scale-Up of Microwave Synthesis

09:15 **Bert Hulshof**

Explorations of Microwave-assisted Chemistry in Process Scale-up

09:45 **Jayne Muir**

TBC

10:05 - 10:30 **Informal discussion and refreshments**

10:30 - 12:30 **Industrial Applications**

10:30 **Sam Kingman**

Taking Microwaves from the Lab to the Plant: New Routes to Scale Up

11:00 **Ulf Roland**

Utilization of selective dielectric heating for off-gas treatment

11:20 **Hideoki Fukushima**

Hydrogen Production from Ethanol by Microwave Reforming

11:40 **Closing Coments**

12:30 **Group lunch and departure**
