



Conference Day 1 – Thursday, 6 November 2025

08:30 Conference Registration, Materials Pick-Up, Coffee, Tea, Snacks and Networking

Conference Opening Session—Day 1 of the Conference

Venue: Brooklyn & Longwood, Level 7

09:00 Welcome by Conference Co-Chairperson

Paul Watts, Distinguished Professor and Research Chair, Nelson Mandela University, South Africa

09:10 Welcome by Conference Co-Chairperson

Guangsheng Luo, Professor, Tsinghua University, China

09:20 Keynote Presentation

Autonomous Continuous Processing using Real-Time Process Analytics for Data-Rich Experimentation

C. Oliver Kappe, Professor, University of Graz, Scientific Director, Center for Continuous Flow Synthesis and Processing, Austria

10:00 Innovations in Peptide Synthesis Driven by Microflow Synthesis

Shinichiro Fuse, Professor, Nagoya University, Japan

10:30 Mid-Morning Coffee, Tea, Snacks and Networking with the Exhibitors in the Exhibit Foyer

11:00 Various Types of Uniformly Dispersed Nanoparticle Production Using an Inkjet Mixing System

Yosuke Muranaka, Assistant Professor, Kyoto University, Japan

11:30 Flow Chemistry - Exploiting Reactive Intermediates and Discovering New Reactions

Marcus Baumann, Associate Professor – School of Chemistry, University College Dublin, Republic of Ireland

**12:00 Networking Lunch – Network and Engage with Colleagues
Together & Co Restaurant**

**13:30 Live Instrument Demo by Ou Shisheng (Beijing) Technology
Co., Ltd., China – Exhibit Foyer**



Session Title: Flow Chemistry Technologies and Applications
Venue: Brooklyn & Longwood, Level 7

14:00 Chemical Catalysis in Flow Using Novel Photo, Electro and Plasma Activation
Thomas M. Kohl, Senior Experimental Scientist, Team Leader CSIRO, Australia

**14:30 Continuous Flow Synthesis and Advanced Technologies Redefine Chemical
Production**
Christophe Len, Université de Technologie de Compiègne, Chimie ParisTech, PSL
University, CNRS, France

15:00 Technology Spotlight Presentation
Closed-Loop Process of AI-Landing in Flow Chemistry
Di Sha, Chief Scientist, Ou Shisheng (Beijing) Technology Co.,
Ltd., China



15:30 Mid-Afternoon Coffee Break and Networking with the Exhibitors

16:00 Technology Spotlight Presentation
**Scalability Parameters in Synthesis Using Bead Mills in Flow
Chemistry**
Philippe M. C. Roth, Willy A. Bachofen AG, Switzerland



16:30 Keynote Presentation
**Development of an Integrated Continuous-Flow Photobromination Platform with
High-Precision Thermal Monitoring**
Shengyang Tao, Dean and Professor, School of Chemistry, Dalian University of
Technology, China

17:00 Keynote Presentation
Microreaction Zones without Microchannels, In-Situ Created by Plasma
Volker Hessel, Professor, Adelaide University, Australia

17:30 Technology Spotlight Presentation
**Cutting-Edge Flow Chemistry: Recent Developments
and Notable Published Research**
Duncan Guthrie, CEO of Vapourtec Ltd., United Kingdom



18:00 Technology Spotlight Presentation
Tiny Tools, Big Data: Mid-IR for Automated Inline Flow Chemistry Intelligence

Liangfeng Guo, Chemometrics Lead Scientist, Paeonia Innovations, Singapore



18:30 Evening Networking Reception

19:30 Close of Day 1 Main Conference Programming

19:30 Short Course Entitled “Recent Applications of Continuous Flow Chemistry for Photochemistry, Electrochemistry and Scaled API Synthesis”

Presented by Professor Marcus Baumann, Associate Professor – School of Chemistry, University College Dublin, Republic of Ireland

****Short Course Duration from 19:30 – 22:00****

****Separate Registration for this Short Course****

08:30 Coffee, Tea, Snacks and Networking with the Exhibitors

Day 2 Programming of Flow Chemistry Asia 2025

Venue: Brooklyn & Longwood, Level 7

09:00 Keynote Presentation

Continuous Flow Synthesis Towards Local API Manufacturing

Paul Watts, Research Chair in Microfluidic Bio/Chemical Processing, Nelson Mandela University, South Africa

09:30 **Co(II) Mediated Electro-Oxidation of Toluene and p-Xylene with Microchannel Flow Cell Reactor**

Kai Wang, Associate Professor, Department of Chemical Engineering, Tsinghua University, China

10:00 Keynote Presentation

Mechanistic Insights and Process Intensification of Aromatic Nitration Based on Flow Chemistry

Guangsheng Luo, Professor, Department of Chemical Engineering, State Key Laboratory of Chemical Engineering, Tsinghua University, China

10:30 Mid-Morning Coffee and Tea Break and Networking with the Exhibitors

11:00 Keynote Presentation

New Tools to Navigate Through the Upgrading of Biobased Building Blocks

Jean-Christophe Monbaliu, Center for Integrated Technology and Organic Synthesis (CiTOS), MolSys Research Unit, University of Liège; WEL Research Institute, Belgium

11:30 **From Biomass to E-Waste Recovery of Critical Minerals: Holistic LCA and TEA Centred Around Flow Chemistry Leaching**

Philip Kwong, Associate Professor, School of Chemical Engineering, Adelaide University, Australia

**12:00 Networking Lunch – Network and Engage with Colleagues
Together & Co Restaurant**

13:00 **Bridging Batch and Flow: A Universal, Scalable Platform for Automated Multistep Synthesis Employing High-Speed Circulating Flow Reactors**

Yangbo Chen, Research Fellow, National University of Singapore

13:30 **Photochemical Flow Synthesis of Cyclobutane Amino Acids from 2-Pyrones and 2-Pyridones**

Ang Hwee Ting, Postdoctoral Fellow, National University of Singapore

14:00 From Reaction Design to Reactor Choice in Industrial Flow Process Development

Diana Silva, Scientific Manager, FloW4all (University of Liège), Belgium



14:30 Advancing Flow Photocatalysis and Biocatalysis via Dynamic Kinetics Modelling and Flow Reactor Design Optimization

Nopphon Weeranoppanant, Department of Chemical Engineering, Chulalongkorn University, Thailand

15:00 Sustainable Continuous-Flow Recycling of Critical Metals from Discarded Lithium-Ion Batteries

Mozammel Hoque, Australia-India Strategic Research Fund: Collaborative Research Projects, Adelaide University, Australia

15:30 Mid-Morning Coffee and Tea Break and Networking with the Exhibitors

16:00 Bisphenol-A Polycarbonate Depolymerization in a Coiled Flow Inverter Reactor

Evgeny Rebrov, Professor, University of Warwick, United Kingdom; Eindhoven University of Technology, The Netherlands

16:30 Macro-microreactor Design and Application

Ning Zhu, Professor, College of Biotechnology and Pharmaceutical Engineering, Nanjing Tech University, China

17:00 Development of a RuO₂/W-Co₃O₄ Composite Electrocatalyst Guided by Bayesian Optimization for pH-Universal OER

Weijie Liu, Predoctoral Student, State Key Laboratory of Chemical Engineering and Low-Carbon Technology, Department of Chemical Engineering, Tsinghua University, China

Session Title: Activities in Space -- Emerging Themes Chaired by Professor Volker Hessel, Adelaide University

****As Flow Chemistry and Space Chemistry Are Gaining Momentum, this Session Chaired by Professor Hessel Seeks to Frame Some Key Elements in the Space and LEO Arena****

17:30 Introduction to Efforts in Space: Research & Commercialization

Volker Hessel, Professor, Adelaide University, Australia -- Session Chairperson

18:00 Digital Twin of Lettuce "Artificially Grown" in Six Climate Zones – Via a 'Physical-Twin Couple' for Earth- and Space Extreme Conditions

Shu Liang, ARC Centre of Excellence in Plants for Space, Adelaide University, Australia

18:30 From Moon Dust to Moon Crops: Nutrient Recovery from Lunar Regolith

Orla Williams, Department of Mechanical Engineering, Faculty of Engineering, University of Nottingham, United Kingdom