



## Flow Chemistry Highlights

### A CHIMIA Column

Review of recent literature on flow chemistry.

Selected topic: Symposium on Flow Chemistry & Artificial Intelligence: 'Towards the closed Loop'

The two SCS networks on Flow Chemistry and Artificial Intelligence look forward to welcoming you to the ILMAC Symposium 2022 on Flow Chemistry & Artificial Intelligence: 'Towards the closed Loop'.

With the advent of machine learning and artificial intelligence methods, the vision of autonomous labs seems closer than ever. As flow chemistry is intrinsically simple to automate, merger of the two technologies holds promise of an operator-free chemical lab. Join us for a day of exciting lectures and discussions from both academic and industrial guests to find out what is the state-of-the-art on this exciting topic.

The symposium is aimed at colleagues from industry and academia who are interested in sustainable processes using flow technology and computer-aided self-learning systems.

15.30

**Bernhard Gutmann**, Lonza

«Continuous Flow Techniques for Fine Chemical Manufacturing»

16.00

**Richard Bourne**, University of Leeds (UK)

«Self Optimisation in Flow Chemistry»

16.45

Closing remarks

17.00

Aperitif

### Registration and Fees

Registration is mandatory but free of charge with the SCS promo code that is published on the SCS website. Please register *via* the [ilmac.ch](http://ilmac.ch) website.

**Website:** [ilmac.ch](http://ilmac.ch)

### Program Overview

Wednesday, 28. September 2022, Expo Beaulieu, Lausanne

09.15 Symposium opening, incl. a short introduction of the two SCS Networks involved  
Torsten Luksch, Claudio Battilocchio

**Session 1**  
09.30 Chair: Jacques Membrez, Givaudan  
**Timothy Noël**, University of Amsterdam (NL)  
«Applications of continuous-flow photochemistry in organic synthesis»

10.15 **Arndt Finkelmann**, Syngenta Crop Protection AG  
«Digital Chemistry at Syngenta: From academic labs to industrial applications»

10.45 **Francesca Paradisi**, University of Bern  
«Challenges in Flow-Biocatalysis»

11.15 Short Break

11.30 **Loïc Roch**, Atinary Technologies  
«Atinary SDLabs: ML software solutions and self-driving labs to accelerate R&D today»

12.00 **Andrew deMello**, ETH Zurich  
«Droplet-Based Microfluidics for Efficient Materials Discovery»

12.30 Lunch Break

**Session 2**  
13.45 Chair: Torsten Luksch, Syngenta Crop Protection  
**Amol Thakkar**, IBM Research  
«Accelerating Chemistry with Cloud-based AI Driven Autonomous Labs»

14.15 **Hansjoerg Lehmann**, Novartis Pharma AG  
«Flow Chemistry at Novartis R&D: The Impact of Automated Platforms and Self-Optimizing Systems in Modern Synthesis»

14.45 Short Break

15.00 **Markus Lill group**, University of Basel  
«Title tbd»

**Would you like to propose a Flow Chemistry Highlight topic here?**

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