



Flow Chemistry Highlights

Flow Chemistry Network

SCS Seminar on Flow Chemistry 2024

This SCS Seminar is a two-days educational event with a focus on topics relevant to the Swiss chemical and pharmaceutical industry but that are not necessarily part of the academic curricula.

This 2024 seminar will focus on relevant issues of process chemistry such as:

- Batch to flow
- Flow reaction optimization
- Safety issues
- Scaling up
- Reactors and reactor design

Target Audience

The event targets PhD students, Postdocs as well as junior scientists from industry. There will be a good mix between:

- theoretical lectures,
- reports of concrete projects from industry,
- interactive workshops/panel discussions and
- short presentations by participants

Program Overview

Day 1: June 13, 2024

- 10.00 Welcome and Opening of the Seminar
 10.30 **Dr. Dominique M. Roberge, Lonza AG**
'How to select a proper continuous-flow reactor for organic synthesis?'
 11.20 **Prof. Gianvito Vilé, Politecnico di Milano**
'Our Journey in the Use of Continuous Flow Methods for Sustainable Chemical Synthesis'
 12.15 Lunch Break
 13.30 **Dr. Marc-André Müller, Solvias AG**
 Workshop 1: Grignard Reaction – from Batch to Flow
 14.30 Coffee Break
 14.45 Supplier Talks: New Tools and Approaches from our Partners
Henry Rosier, HiTec Zang GmbH
'Self-Optimizing Process Control for the synthesis of fluorescent carbon quantum dots'
Harald Todt, Magritek
'Coupling of a benchtop NMR spectrometer to a flow reactor for a fast optimization of hydrogenation reactions'
David Trummer, Bruker
'Exploring the Bruker PAT Portfolio'

- 16.00 Visit HEIA-FR, School of Engineering and Architecture of Fribourg / ChemTech (pilot plant & flow lab)
 18.30 Poster Session & Aperitif, Supplier Booths
 20.00 Symposium Dinner

Day 2: June 14, 2024

- 08.00 **Dr. Duncan L. Browne, University College London**
'Reactive Extrusion: A Continuous Technique Where Solids are not the Arch-Nemesis'
 08.50 **Prof. Antimo Gioiello, Università degli Studi di Perugia**
'Flow-enhanced medicinal chemistry: Opportunities for accelerating drug discovery and development'
 09.45 Coffee Break
 10.15 **Prof. Roger Marti, HEIA-FR, Dr. Claudio Battilocchio, Syngenta and all lecturers**
 Workshop 2: Application of PAT in Flow Chemistry
 12.15 Lunch Break
 13.30 **Dr. Benjamin Martin, Novartis Pharma AG**
'Sustainable Pharmaceutical Process R&D Enabled by Continuous Manufacturing'
 14.30 **Dr. Jean-Philippe Krieger, Syngenta Crop Protection**
'Flow Chemistry & Automation – Scaling up processes'
 15.30 Closure and conclusion
 16.00 End of the seminar

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

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