DECHEMA
Gesellschaft für Chemische Technik
und Biotechnologie e.V.

GeCatS
GERMAN
CATALYSIS
SOCIETY

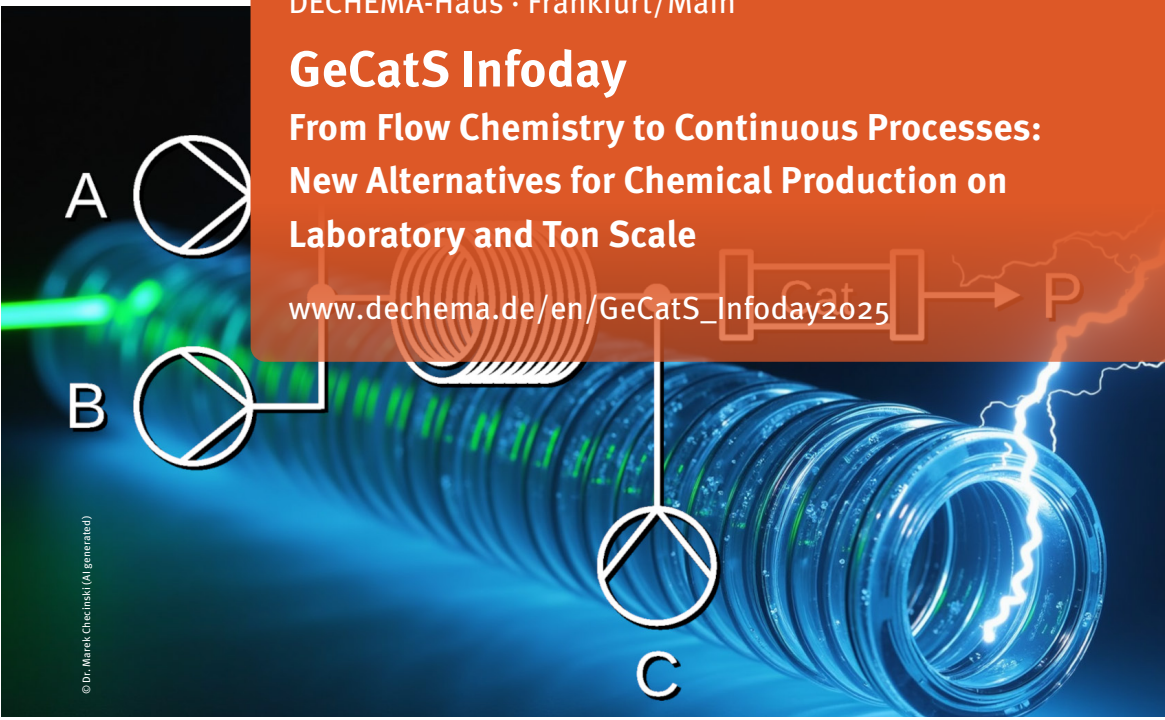
PROGRAMME

9 December 2025
DECHEMA-Haus · Frankfurt/Main

GeCatS Infoday

From Flow Chemistry to Continuous Processes: New Alternatives for Chemical Production on Laboratory and Ton Scale

www.dechema.de/en/GeCatS_Infoday2025



© Dr. Marek Checinski (AI generated)

DBG
DGMK
GDCh
VDI

SCIENTIFIC COMMITTEE / EXHIBITOR

SCIENTIFIC COMMITTEE

Dr. Marek Checinski	C1 Green Chemicals AG, Berlin/DE
Dr. Andreas Geisbauer	Clariant Produkte (Deutschland) GmbH, Bruckmühl/DE
Dr. Lilla Nikl	DECHEMA e.V., Frankfurt am Main/DE
Prof. Dr. Marcus Rose	TU Darmstadt/DE
Prof. Dr. Stephan Andreas Schunk	hte GmbH, Heidelberg/DE
Dr. Jan Schütz	dsm-firmenich, Kaiseraugst/CH
Prof. Dr. Dieter Vogt	TU Dortmund/DE

THANKS TO OUR EXHIBITORS:

magritek
www.magritek.com

THALESNano

LECTURE PROGRAMME

Monday, 9 December 2025

09:30	Registration
10:30	**Welcome and Introduction** S. A. Schunk, hte GmbH, Heidelberg/DE
	Chair: M. Rose, TU Darmstadt/DE
10:45	**Scale-up of modular microreactors - lessons learnt in Power-to-X applications and oligomerisation of sugars** R. Dittmeyer, Karlsruher Institut für Technologie, Karlsruhe/DE
11:15	**Flow chemistry under industrial aspects** R. Boehling, BASF, Ludwigshafen/DE
11:45	**Organometallics in Flow: Scalable, safer and more selective** G. Menges-Flanagan, Fraunhofer-Institut für Mikrotechnik und Mikrosysteme IMM, Mainz/DE
12:15	**Poster Introduction** J. Schütz, dsm-firmenich, Kaiseraugst/CH
12:30	Lunch
13:00	**Poster Session 1** (odd numbers)
	Chair: M. Checinski, C1 Green Chemicals AG, Berlin/DE
13:45	**Biocatalysis in flow - proven processes and new applications** U. Kragl, Universität Rostock/DE
14:15	**From Optimized to Adaptive - Multifunctional Catalytic Systems at a Dynamic and Variable Chemistry-Energy Nexus** A. Bordet, Max-Planck-Institut für Chemische Energiekonversion, Mühlheim/Ruhr/DE
14:45	Coffee Break
15:00	**Poster Session 2** (even numbers)
	Chair: D. Vogt, TU Dortmund/DE
15:45	**Supported ionic liquid phase (SILP) materials in continuous flow catalysis and separation applications** M. Haumann, Friedrich-Alexander-Universität Erlangen-Nürnberg/DE
16:15	**From Batch to Flow: Advancing Synthetic Organic Chemistry through Technological Innovation** T. Noël, Universiteit van Amsterdam/NL
16:45	**Closing Remarks** D. Vogt, TU Dortmund/DE

POSTER PROGRAMME

P 01 **Acetaldehyde Production via Oxidative Dehydrogenation of Bio-Ethanol: From Catalyst to Process Optimization**
V. Lang[1]
[1] Technische Universität Darmstadt, Darmstadt/DE

P 02 **Continuous Reductive Hydroformylation in a Segmented Slug Flow Reactor Using a Single Catalyst Enabled by CO-Degassing**
A. Windisch[1]; P. Pey[1]; D. Vogt[1]; T. Seidensticker[1]
[1] TU Dortmund University, Dortmund/DE

P 03 **Cascade Reactions in Continuous Flow: A Novel Process Window in Fine Chemicals Synthesis**
T. Rehm[1]; M. Müller[2]; G. Nölke[3]; B. Herbig[4]
[1] Fraunhofer IMM, Mainz/DE; [2] Fraunhofer IGB, Stuttgart/DE;
[3] Fraunhofer IME, Aachen/DE; [4] Fraunhofer ISC, Würzburg/DE

P 04 **Continuous Construction of Highly Complex Molecules: Conceptualization, Implementation, and Operation of a Multi Step Flow Setup for Organic Synthesis - Handling Reactive Intermediates**
J. Belting[1]
[1] TU Dortmund University, Dortmund/DE

P 05 **Integration of Gas Permeation with Gas-Consuming Reactions in a Slug Flow Capillary Reactor**
F. Lehmann[1]; N. von Vietinghoff[1]; T. Nakai[1]; P. Pey[1]; K. Wulle[1]; D. Vogt[1]; T. Seidensticker[1]
[1] TU Dortmund University, Dortmund/DE

P 06 **Intensified Primary Amine Synthesis Through Continuously Operated Alcohol Amination**
B. Rienhoff[1]
[1] TU Dortmund University, Dortmund/DE

P 07 **Effect of the Hydrothermal Treatment of Ni-LDH based catalysts on the Performance in the Ammonia Decomposition**
T. Wittmann[1]
[1] Technical University of Darmstadt, Darmstadt/DE

P 08 **A-priori estimation of axial dispersion and residence time distribution in laminar flow through helically coiled tubes**
M. Wörner[1]
[1] Karlsruhe Institute of Technology (KIT), Karlsruhe/DE

P 09 **Benchtop NMR spectroscopy for optimization and monitoring of flow reactors**
J. Wloka[1]; J. Kolz[1]; H. Todt[1]
[1] Magritek GmbH, Aachen/DE

POSTER PROGRAMME

P 10 **Hydroformylation of 1-Decene under Continuous Conditions: Reactor Operation and Catalyst Separation in a Miniplant Setup**
D. Fakesch[1]; A. Windisch[1]; T. Seidensticker[1]; D. Vogt[1]
[1] Technische Universität Dortmund, Dortmund/DE

P 11 **Influence of Reaction Parameters on the Activity of Supported Iron Nanoparticles for the Selective Acetylene Hydrogenation**
H. Lamers[1]; M. Lucas[1]; M. Rose[1]
[1] Technische Universität Darmstadt, Darmstadt/DE

P 12 **Continuous flow synthesis of atom-precise, noble metal clusters and nanoparticles**
N. Da Roit[1]; M. Müller[1]; S. Behrens[1]
[1] Karlsruhe Institute of Technology (KIT), Eggenstein-Leopoldshafen/DE

P 13 **Batch-to-Flow and Laboratory-to-Miniplant Transfer of the Acidic Electrosynthesis of FDCA**
S. Gutperl[1]; M. Gey[2]; M. Paschetag[1]; U. Schröder[2]; S. Scholl[1]
[1] TU Braunschweig, Braunschweig/DE; [2] University of Greifswald, Greifswald/DE

P 14 **Lab Automation Techniques for DNA encoded Chemistry**
M. Ben Moussa[1]
[1] TU Dortmund University, Dortmund/DE

P 15 **Transient State Simulation of an Isobaric Fixed Bed Reactor**
J. Hunsicker[1]; A. Fabricius[1]; N. Kockmann[2]; S. Schunk[3]; T. Röder[1]
[1] University of Applied Sciences, Mannheim/DE; [2] TU Dortmund University, Dortmund/DE;
[3] hte GmbH, Heidelberg/DE

P 16 **Evaluation of the mixing quality of active mixers using a competitive parallel reaction with mixing time calculation**
C. Gaa[1]; R. Lebl[2]; J. Sedelmeier[2]; T. Röder[1]
[1] Mannheim University of Applied Sciences, Mannheim/DE;
[2] Hoffmann-La Roche AG, Basel/CH

P 17 **Advantages of microreactors for the investigation of fast and exothermic esterification reactions**
P. Desel[1]; M. Ulbricht[2]; A. Roppertz[1]
[1] Hochschule Niederrhein - University of Applied Science, Krefeld/DE;
[2] University Duisburg-Essen, Essen/DE

NOTES

DECHEMA FORUM
Science and Industry in Dialogue

Defossilizing the Process Industry: Creating Competitive Solutions

15 – 17 SEPTEMBER 2026 DECHEMA-HAUS, FRANKFURT

» Discover innovative and applicable solutions straight from cutting-edge research and development

» Participate in interactive workshops, inspiring lectures, and lively discussions

» Shape the future of a defossilized process industry – contribute your ideas, gain insights, and build networks

Submit your paper until 15th February 2026

More information: www.dechema.de/DECHEMAFORUM2026

SCAN ME

ORGANISER

DECHEMA
Gesellschaft für Chemische Technik und Biotechnologie e.V.

WITH SUPPORT OF

VDI

ORGANISER AND CONTACT

DECHEMA e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt am Main
www.dechema.de

Simone Kinkel
+49 (0)69 7564-581
simone.kinkel@dechema.de