



SCAN ME

Call for Abstracts



Local hosting and organization by

Helmholtz-Zentrum Dresden-Rossendorf and Technische Universität Dresden

Important dates:

Abstracts due	30 th November 2023
Notification of abstract acceptance	31 st January 2024
Special Issue full manuscript due date	30 th April 2024
Registration open	1 st January 2024
Early bird registration until	31 st August 2024
Conference	2 nd to 5 th September 2024

Background, Scope and Objectives of the Conference:

GLS-16 continues a sequence of bi-annual conferences with latest events in Brussels (GLS-13, 2017), Guilin (GLS-14, 2019) and Ottawa (GLS-15, 2022). It gathers specialists from academia and industry discuss recent advances in the field of multiphase reactors and processes. Thereby we explore the full width of multiphase processes and applications in chemical, biochemical, pharmaceutical, metallurgical and environmental engineering. Recent developments in the design and application of multiphase reactors in industry and research are as welcome as theoretical studies, new reactor designs, fundamental experimental and numerical analyses as well as development of tools for the simulation and measurement of multiphase processes at multiple scales. The conference theme of GLS-16 is „Multiscale Simulations and Experimental Studies for an Advanced Understanding of Multiphase Reactors“.

Topics for contributions are (not exclusively):

- Transport Phenomena in Multiphase Systems
- Multi-scale Modelling of Multiphase Chemical Reactors
- Reaction Mechanisms and Kinetics of Multiphase Reactions
- Multiphase Computational Fluid Dynamics
- Measurement Techniques for Multiphase Systems
- Reactor Dynamics and Control
- Scale-up of Multiphase Chemical Reactors
- Non-conventional Multiphase Reactors
- Process Intensification in Multiphase Chemical Reactors
- Microfluidic Reactors and Microsystems
- Fluidized Bed Reactors

With respect to applications we invite contributions in the fields of chemical, electrochemical and biochemical processes, power engineering (e.g. power-to-X conversion), wastewater treatment, froth flotation as well as absorption and extraction processes.

Conference Chairs:

- Prof. Uwe Hampel, Helmholtz-Zentrum Dresden-Rossendorf and Technische Universität Dresden
- Prof. Markus Schubert, Technische Universität Dresden
- Prof. Martin Sommerfeld, Martin-Luther-Universität Halle-Wittenberg
- Liang-Shih Fan, The Ohio State University, USA (Honorary Chair)

Scientific Committee:

- Muthanna Al-Dahhan, Missouri University of Science and Technology, USA
- Jiri Drahos, Institute of Chemical Process Fundamentals, Czech Republic
- Geoffrey Evans, University of Newcastle, Australia
- Liang-Shih Fan, The Ohio State University, USA
- Uwe Hampel, Helmholtz-Zentrum Dresden-Rossendorf, Germany
- Benoit Haut, Université libre de Bruxelles, Belgium
- Hans Kuipers, Technische Universiteit Eindhoven, The Netherlands
- Faical Larachi, Université Laval, Canada
- Jinghai Li, Chinese Academy of Sciences, China
- Alain Liné, Institut National des Sciences Appliquées de Toulouse, France
- Arturo Macchi, University of Ottawa, Canada
- Alissa Park, Columbia University, USA
- Vivek V. Ranade, Queen's University Belfast, UK
- Shantanu Roy, Indian Institute of Technology Delhi, India
- Jose Teixeira, Universidade do Minho, Portugal
- Sankaran Sundaresan, Princeton University, USA
- Madhava Syamlal, National Energy Technology Laboratory, USA
- Atsushi Tsutsumi, University of Tokyo, Japan
- Ning Yang, Institute of Process Engineering, CAS, China

Website and Contact:

<https://www.gls16.org/>

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