



DECHEMA

VDI

INVITATION & CALL FOR PAPERS

21 – 23 March 2022

Congress Center Würzburg · Germany

Annual Meeting on Reaction Engineering and ProcessNet Subject Division Heat and Mass Transfer 2022

www.processnet.org/react_hmt_2022

INVITATION

The meeting in 2022 is jointly organized by the ProcessNet Subject Divisions Reaction Engineering and Heat and Mass Transfer. The conference offers scientists from industry, research institutions and universities the opportunity to discuss their work in person, learn about the latest developments and expand their network.

Heat and mass transfer, together with chemical conversion processes have to be understood in detail to be able to design efficient and commercially viable reactor concepts and heat and mass transfer equipment.

One focus of the upcoming meeting will be laid on new insights into the complex interplay of heat and mass transport as well as reaction kinetics in chemical reactors.

This is closely related to the second focus, which will be on reactor as well as heat exchanger diagnostics. Time- and spatially-resolved analysis of flow, temperature and concentration fields, supported by increasingly detailed multi-scale modeling, has made amazing progress in recent years.

The third focus is on the electrification of chemical processes, which will become an increasingly important contribution to the goal of a climate-neutral society in Germany by 2045.

Four plenary lectures given by renowned scientists, a poster party and a conference dinner will provide the framework for stimulating discussions and talks. We are looking forward to welcoming you in Würzburg.

PLENARY LECTURES

VDI WärmAtlas – a success story for transfer from science to practice

Prof. Peter Stephan, TU Darmstadt/D

Radiotracer Methods, CFD and Scale-Up: Current Status and Future Trends

Prof. Shantanu Roy, Indian Institute of Technology - Delhi, New Delhi/IND

Electrifying Organic Synthesis

Prof. Siegfried Waldvogel, Johannes Gutenberg University Mainz/D

Reactor Technologies for Sustainable Chemical Production with Renewable Electricity and CO₂, N₂, O₂, and H₂O

Prof. Elias Klemm, University of Stuttgart/D

CALL FOR PAPERS

We kindly invite you to submit an abstract (1-2 pages). The paper submission is possible until **12 November 2021**.

The conference particularly aims to motivate young academics and young professionals from industry to contribute to this event. The programme will favour their engagement and give space for new and innovative topics.

ORGANISER AND CONTACT

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