

Die Forschungsinitiative für nachhaltige Verfahrenstechnik und Kreislaufwirtschaft in der chemischen Industrie an der Schnittstelle von Ingenieur-, Natur- und Geisteswissenschaften!



The research initiative for sustainable process engineering and circular economy in the chemical industry at the interface of engineering, natural sciences and humanities!

## Einladung

# zum virtuellen Forschungskolloquium WiSe 2022/2023

Invitation to the Virtual Research Colloquium Summer Semester 2022/2023

Donnerstags | Thursdays, 08:00 – 09:00

### 2022

**10. Nov | DECHEMA-Regionalkolloquium:**

*Smart Process Systems: Nachhaltige Produktion von Chemikalien und Materialien*

(hybrid event, 10:00 – 17:30, in German)

**17. Nov | Dr.-Ing. Tanja Vidakovic-Koch:**

*Electrochemical process engineering in the energy transition and circular economy*

**24. Nov | Hon.-Prof. Dr. Matthias Stein:**

*Catalysis Inspired by Nature*

**01. Dez | Dr.-Ing. Nicole Vorhauer-Huget:**

*CO<sub>2</sub>-free heat supply for chemical production processes*

**08. Dez | Prof. Dr.-Ing Przemyslaw Komarnicki:**

*Development of an intelligent digital twin for the prediction and control of the process flow using the example of fluidized bed spray granulation*

**15. Dez | Prof. Dr. Nora Kulak:**

*Oxidation catalysis in a (bio)inorganic laboratory*

### 2023

**12. Jan | Prof. Dr. Julian Thiele:**

*Polymer microgels as platform for chemical-biological synthesis and building blocks in integrated material design*

**19. Jan | Prof. Dr. Christof Hamel:**

*Renewables resource and unused side-products to chemicals by smart reactors and processes*

**26. Jan | Prof. Dr. Jan von Langermann:**

*Integrated use of selective separation processes in biocatalytic reactions*

**02. Feb | Prof. Dr.-Ing. Sanaz Mostaghim:**

*Multi-Objective Optimisation and Learning for Autonomous Systems: From individual to collective decision-making algorithms*

**09. Feb | Dr. Techn. Liisa Rihko-Struckmann:**

*LCA as Tool to Assess Sustainability in Chemical Processes- Case Biorefinery*

Mehr Informationen finden Sie auf unserer Webseite | You can find more information on our website:  
<https://www.smartprosys.ovgu.de/colloquia.html>

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