



TECHNISCHE UNIVERSITÄT  
BERGAKADEMIE FREIBERG

Die Ressourcenuniversität. Seit 1765.



Centre for Innovation Competence:  
Virtual High Temperature Conversion

## Virtuhcon Status Seminar 2017

Date: **Thursday, May 11th, 2017**

Venue: **TU Bergakademie Freiberg, IEC, Fuchsmühlenweg 9, Room DBI 318**

### Agenda

- 10:30 – 11:00 am **Welcome by the Speaker of Virtuhcon** (Prof. B. Meyer)  
**Introductory remarks by Project Management Jülich** (Dr. T. Reimann)
- Presentations:
- 11:00 – 12:00 am **Research Group Multiphase Models** (Dr. S. Kriebitzsch)
- Evaluation and validation of VOF approaches in different CFD codes for the simulation of top submerged lance processes (D. Obiso)
  - Fully resolved simulation of the flow through packed beds (J. Bassen)
- 12:00 – 01:00 pm Lunch break
- 01:00 – 02:00 pm **Research Group Process Virtualization** (Dr. A. Richter)
- Rapidly accelerated CFD-based optimization of reactive flow systems (P. Rößger)
  - Model-based optimization of HP/HT experiments (F. An)
- 02:00 – 02:30 pm Coffee break
- 02:30 – 03:30 pm **Research Group Material and Process Analysis** (Dr. J. Kleeberg)
- Progress in experimental work regarding gasification reaction kinetics (K. Günther)
  - The COORVED gasifier in the field of carbon capture and utilization (M. Schurz)
- 03:30 – 04:30 pm **Internal discussion with Project Manager and Management Board**  
(Room 1-204)  
Dr. Reimann, Prof. Meyer, Prof. Stelter, Dr. Richter, Dr. Kriebitzsch, Dr. Kleeberg