

PARTEC 2023

International Congress on Particle Technology

September 26–28, 2023, Nuremberg, Germany

PARTICLE TECHNOLOGY FOR SUSTAINABLE PRODUCTS



CALL FOR PAPERS

www.partec.info
Submission Deadline
January 15, 2023

Together with

POWTECH 2023

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PURPOSE

Today particle technology not only plays an important role in classical industries like chemical, pharmaceutical, food and minerals industry, but also in in dynamically developing industries for products related to energy transition like battery and fuel cells as well as for advanced production technologies like additive manufacturing.

Consequently, besides the classical fields the PARTEC 2023, as one of the largest international particle and powder technology conferences, addresses both, the classical and the emerging fields of research and applications of particle technology. Especially, due to climate change, sustainability and circular economy are becoming increasingly important. PARTEC 2023 wants to take this change into account with the overarching theme "Particle Technology for Sustainable Products". Thus, special focus will lay not only on highest product quality, but on maximizing material utilization and energy efficiency of the processes.

The PARTEC brings together a wide mix of attendees, from both academia and industry, in a very communicative place. A highlight, especially regarding transfer of research to application, is the connection to the POWTECH, the world's leading exhibition for the processing, analysis and handling of powder and bulk solids, promoting intensive discussion between academic and industrial attendees.

I would be very happy to welcome you as many other academic and industrial particle experts from all over the world in Nuremberg at PARTEC 2023.

Prof. Dr.-Ing. Arno Kwade

TU Braunschweig, Head of Institute of Particle Technology Chairman for PARTEC 2023

SCIENTIFIC COMMITTEE

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Teipel, U. – TH Nürnberg, Germany

Tsotsas, E. – OvGU Magdeburg, Germany

van Ommen, R. – TU Delft, Netherlands

Weber, A.D. – TU Clausthal, Germany

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Weinekötter, R. - Gericke AG, Switzerland

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TOPICS AND SUBJECTS

PARTEC welcomes contributions from researchers in universities, industrial companies and other research organizations. Industry specific and also joined research proposals between industry and research organizations are appreciated. Contributions covering all aspects of particle science and applications are welcome.

Subjects of interest can include:

- Bulk powder technologies, gas-solid-multiphase flow
- Comminution, breakage, agglomeration and granulation
- Separation, fractionation and sorting
- Mixing and Dispersing, Liquid-Solid-Multiphase flow
- Wet synthesis and formation of particles

- Product formulation, particle interactions, interfaces and stabilization
- Innovative analytical methods for lab and production
- Nano and aerosol particle technology
- Particle technologies for sustainable products
- Innovation in modelling and simulation



GENERAL INFORMATION

The congress will last three days, comprising keynote addresses and presentations in a series of plenary and parallel sessions. The official language of the congress will be English. No simultaneous translation will be provided. The congress programme will be available in April 2023. Travel expenses will not be paid.

Conference Venue: Exhibition Centre Nuremberg, Messezentrum, 90471 Nuremberg, Germany

Cooperation Partner - Abstract Management: VDI Wissensforum GmbH, VDI-Platz 1, 40468 Dusseldorf, Germany

Organizer: NürnbergMesse GmbH, Messezentrum, 90471 Nuremberg, Germany

CALL FOR SUBMISSION OF CONTRIBUTIONS

Are you an expert on one of the areas of our topics? Then we call on you to make an active contribution to the success of the congress with a presentation.

Please submit a brief abstract of max. one A4 page by January 15, 2023, summarizing your presentation. You can submit your paper at www.partec.info

Types of contribution

Your contribution can take the form of:

- 1. a full presentation:
 - If your paper is accepted you will be allowed to speak 15 minutes, with additional 5 minutes for discussion
- 2. a poster presentation:
 - The posters will be presented in a relaxed atmosphere on September 26, 2023.

Submission of abstracts

- · Title of the paper and/or poster
- An abstract summarizing your paper
- Information about the lecturer and co-authors: name, title(s), company address, department, affiliation, e-mail, telephone and fax number
- In which topic area(s) your presentation should be listed
- How you would like to present your paper upon acceptance (full or poster presentation)

Please note that abstracts and final papers will be only accepted if they are uploaded to the congress website: www.partec.info

All submissions must be either Microsoft WORD (DOC or DOCX) or Portable Document Format (PDF) files. Your abstract must be received by January 15, 2023. Based on the abstract, the programme committee will decide on the acceptance, type of presentation (oral or poster) and order of presentation in the congress programme.

Submission of the final extended abstract

If your paper is accepted you will be invited to submit the final extended abstract, which must be received by July 1, 2023 the latest. If you receive notification of acceptance, you will also receive instructions concerning the extended abstract and a question form to be returned to the VDI Wissensforum. The accepted papers (full papers and posters) will be published in the congress proceedings provided to the congress participants.

SCHEDULE

- Deadline for submission of abstracts: January 15, 2023
- Notification of acceptance: March 2023
- Final programme available in April 2023
- Deadline for submission of extended abstracts: July 1, 2023

Possibility to publish research results in a scientific journal

The scientific journal "Forschung im Ingenieurwesen" (Research in Engineering) gives you the opportunity to publish an extended version of your conference publications. Expand your conference contribution by going into more detail about the underlying theories, methodology used and the results of your study. You can then submit your manuscript via the following link, www.editorialmanager.com/fiin (online submission) taking the formal submission requirements into account. If your contribution passes the initial publisher's review, it will be further reviewed by independent experts in a double-blind process (peer review). www.springer.com/journal/10010

SUPPORTING ORGANISATIONS



International Association for Pharmaceutical Technology (APV), Germany



AlChE's Particle Technology Forum (AlChE's PTF), USA



DECHEMA, Gesellschaft für Chemische Technik und Biotechnologie e.V. (Society for Chemical Engineering and Biotechnology), Germany



German Association of Biotechnology Industries (DIB), Germany



Deutsche Keramische Gesellschaft (German Ceramic Society) (DKG), Germany



Deutscher Schüttgut-Industrie Verband (The German Powder and Bulk Association) (DSIV), Germany



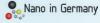
The Research Association of the German Food Industry (FEI), Germany



The Chemical Industry and Engineering Society of China



Association for Aerosol Research (GAeF), Germany



Nano in Germany, Germany



IChemE PTSIG, UK



The Society of Powder Technology, Japan

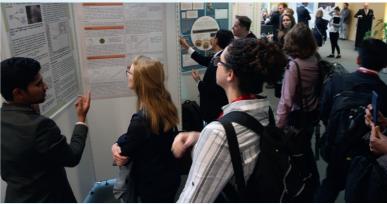


VDI Society Chemical and Process Engineering (VDI-GVC), Germany

SPONSORS









PLENARIES (AS CONFIRMED BY AUGUST, 2022)



Solid-State Batteries – a Future Application of Advanced Particle Technology

Janek, J.; Physical Chemistry of Solids – JLU Gießen,



Industrial Digitalisation
Ooi, J.; Particulate Solid Mechanics – The University
of Edinburgh, UK

Simulation of Particulate Processes – towards



BASF's Pathways to Sustainability and Circular Economy

Maas-Brunner, M.; CTO – BASF, Germany



Particle Technology Enabling the Transition to a Regenerative Food System Palzer, S.; CTO – Nestlé, Switzerland



Advanced Manufacturing of Powder-Based Pharmaceutical Products

Muzzio, F.; Chemical Engineering – Rutgers University,

KEYNOTES (AS CONFIRMED BY AUGUST, 2022)



Inhibition of Calcium Carbonate Precipitation on Cooling Surfaces: from Laboratory Scale to Industrial Pilot Plant





Predicting the Breakage, Mixing and Stress of Aspherical Particles Using the Discrete Element Method

Sinclair Curtis, J. – University of California, USA



Virus Aerosol Filtration: Infectivity vs Physical Penetration, Real-Time Low-Cost Bioaerosol Sensor, Virus Droplets Evaporation and Transport

Pui, D.Y.H. - University of Minnesota, USA



Gas Phase Coating of Particles: Towards Ton-Scale Production with Nano-Precision van Ommen, R. – TU Delft, Netherlands



Physical Inspired Data-Driven Modelling of Particulate Processes

Schilde, C. – TU Braunschweig, Germany



Supraparticles – Controlling Confined Self-Assembly Processes to Design Functional Materials

Vogel, N. – FAU Erlangen, Germany



Advances in Automated High Throughput Workflows for Catalysts and Battery Materials R&D

Schulz-Dobrick, M. – BASF, Germany



New Synchrotron Tomography-Assisted Insights into Mixing and Structure Formation of Liquid-Solid-Multiphase Systems Windhab, E. – Swiss Federal Institute of Technology Zürich, Switzerland

FURTHER INFORMATION

For additional information and registration, please visit https://www.partec.info/ or scan the QR Code on the right-hand side.

WE'RE LOOKING FORWARD TO SEEING YOU AT PARTEC 2023 IN NUREMBERG!

