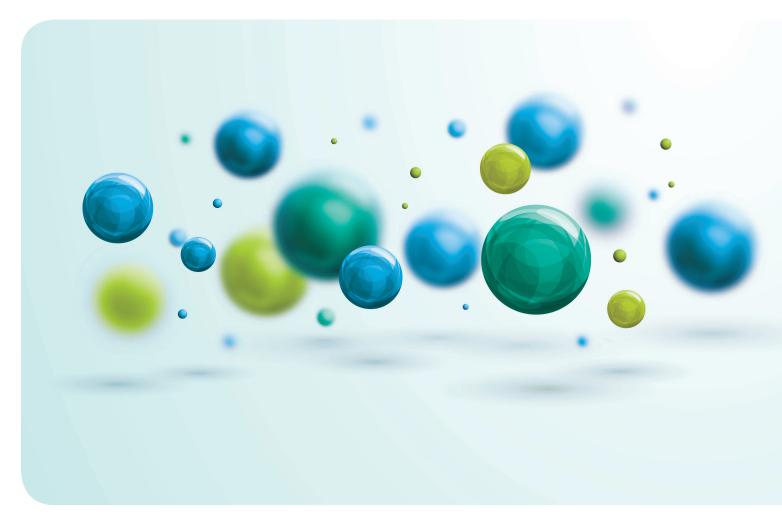


International Congress on Particle Technology

April 9–11, 2019 | Nürnberg, Germany



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Purpose

Modern production processes in chemical, pharmaceutical and biological industries are characterized by solids processes with complex process structures.

Grand challenges has been achieved to better understand and to adjust processes for particle product design and the corresponding and required product properties, which are of multiscale nature.

Besides this classical fields the PARTEC, as one of the largest international particle and powder technology conferences, wants to address also emerging fields of applications of particle technology in life sciences and medicine, environmental and energy technology, synthesis reactions, materials science, electronics, photonics and additive manufacturing, which influence our daily life.

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For this reasons the major topic of the next PARTEC in 2019 is "Particles for a better life". PARTEC attracts a very wide mix of attendees, from both academia and industry, all meeting together in the same place and surrounded by POWTECH, the world's leading exhibition for the processing, analysis and handling of powder and bulk solids.

I would therefore like to invite the academic world and the representatives from the industry to take part in this important event.

I look forward to meeting you at PARTEC 2019.

Prof. Dr.-Ing. Stefan Heinrich

Head of the Institute of Solids Process Engineering and Particle Technology of the Hamburg University of Technology (TUHH) Chairman of PARTEC 2019

Meesters, G.M.H. – TU Delft, Netherlands
Miller, R. – MPI of Collids and Interfaces, Germany
Mühlenweg, H. – Evonik, Germany
Muzzio, F. J. – SoE Rutgers, USA
Naito, M. – U. Osaka, Japan
0oi, J. – U. Edinbugh, UK
Palzer, S. – Nestlé S.A., Switzerland
Peglow, M. – IPT-Pergande GmbH, Germany
Pirker, S. – JKU Linz, Austria
Pratsinis, S. – ETH Zürich, Switzerland
Pui, D.Y.H. – U. Minnesota, USA
Riebel, U. – BTU Cottbus, Germany
Röthele, S. – Sympatec GmbH, Germany
Salman, A.D. – U. Sheffield, UK
Schmidt, E. – BUW, Germany
Schneider, H. – Zeppelin Systems GmbH, Germany
Schneider, G. – TU Hamburg, Germany
Seville, J.P.K. – U. Birmingham, UK
Sundaresan, S. – U. Princeton, USA
Teipel, U. – TH Nürnberg, Germany
Tsotsas, E. – OvGU Magdeburg, Germany
van Ommen, R. – TU Delft, Netherlands
Walker, G. – U. Limerick, Ireland
Watano, S – OPU, Japan
Weber, A.D. – TU Clausthal, Germany
Weimer, A.W. – U. Colorado, USA
Weinekötter, R. – Gericke AG, Switzerland
Witt, W. – Sympatec GmbH, Germany
Wollny, M. – Merck KGaA, Germany
Yu, A. – Monash University, Australia

Nirschl, H. – Karlsruhe Institute of Technology, Germany
Peuker, U. – TU Bergakademie Freiberg, Germany
Peukert, W. – FAU Erlangen-Nürnberg, Germany

Program overview

	09:00	Opening									
	09:10	Friedrich Löffler-Priz	e in Particle Technolog	у							
	09:20	Particle Functionaliz	ation by ALD: Fundan	nentals, Applications,	and Path Forward, Pr	of. Dr. Alan W. Weimer					
	10:00	Coffee Break									
2019	10:30	Modelling and Simulation	Characterization of Particles	Fluidization and Multiphase Flow	Handling and Flow of Particu- late Systems	Mechanics of Particulate Solids	Modelling and Simulation	DynSim SPP 1679			
ő.	12:10	Lunch Break & Exhib	ition Visit								
Apr	14:00	Dynamics of Cohesiv	ve Powder Flow, Prof.	Mojtaba Ghadiri							
Tuesday, April 9	14:40	Modelling and Simulation	Application of Particle Technology	Fluidization and Multiphase Flow	Mixing	Interface Properties	Particle and Bulk Powder Characterization	DynSim SPP 1679			
Ę	15:40	Coffee Break									
	16:10	Modelling and Simulation	Characterization of Particles	Fluidization and Multiphase Flow	Handling and Flow of Particu- late Systems	Interface Properties	Particle and Bulk Powder Characterization	Particle Technology for Pharmaceuticals			
	17:30	Poster Presentation \	Visit								
	19:00	Get-together									
	09:00	EFCE-MPS Award									
	09:10	Particle Technology	in Additive Manufactu	uring, Prof. Karen Hap	good						
ന	09:50	Coffee Break									
Wednesday, April 10, 2019	10:20	Modelling and Simulation	Particle Technology for Pharmaceuticals	Fluidization and Multiphase Flow	Agglomeration and Granulation	Particle Interactions and Interfaces	Particle and Bulk Powder Characterization	Particles for Additive Manufacturing			
oril	12:20	Lunch Break & Exhibition Visit									
, A	14:00	Model Driven Design of Particulate Processes and Products - Applications in Pharmaceutical Manufacture and Beyond, Prof. Jim Litster									
Inesday	14:40	Modelling and Simulation	Particle Technology for Pharmaceuticals	Application of Particle Technology	Agglomeration and Granulation	Characterization of Particles	Particle and Bulk Powder Characterization	Particle Design and Functional- ization			
Ved	16:00	Coffee Break									
	16:30	Modelling and Simulation	Particle Technology for Pharmaceuticals	Comminution	Particle Technology for Energy Systems	Particles for Additive Manufacturing	Life and Food Science	Particle Design and Functional- ization			
	18:00	POWTECH Exhibition Party									
	09:00	Elsevier/Powder Technology Poster-Award, PARTEC 2019									
с П	09:10	Engineering of particles by spray drying and spray fluidized bed processes, Prof. DrIng. Evangelos Tsotsas									
2010	09:50	Coffee Break									
Thursday, April 11, 2019	10:20	Modelling and Simulation	Agglomeration and Granulation	Comminution	Formation and Synthesis of Particles	Particle Interactions and Interfaces	Seperation	Nano Hybrids			
Ŋ, ∆	12:20	Lunch Break & Exhib	ition Visit								
sda	14:00	Contribution of Part	icle Technology Resea	arch on CO ₂ capture a	nd reduction, Prof. Ha	amid Arastoopour					
Thurs	14:40	Modelling and Simulation	Characterization of Particles	Application of Particle Technology	Formation and Synthesis of Particles	Particle Technology for Pharmaceuticals	Seperation	Handling and Flow of Particu- late Systems			
	16:00	Closing Ceremony									

Tuesday, April 9, 2019

9:10	Friedrich Löffler-Prize in Particle Teo	chnology				
09:20	Particle Functionalization by ALD: F Prof. Dr. Alan W. Weimer, University of		h Forward	Keynote		
0:00	Coffee Break					
	Modelling and Simulation	Characterization of Particles	Fluidization and Multiphase Flow	Handling and Flow of Particulate Systems		
10:30	Experimentally validated DEM characterization for a hydrody- namic granular model with application to hopper flow	On-line Particle Size Analysis by Laser Diffraction and Scattering for nanoscale Suspensions and Emulsions	Dr. Simon Schneiderbauer,	Characterisation of flow behaviour of metal powders for 3D printing application Mozhdeh Mehrabi.		
	Robert Hesse, Technical University of Kaisers- lautern, Germany	Dr. rer. nat. Thomas Stübinger, Sympatec GmbH, Germany	Linz, Austria	University of Leeds, UK		
10:50	Numerical simulations of dry granular avalanches flowing down a vibrated inclined plane	Online Structure Determination of Aerosol Particles Using Sequential Classification by	DEM-CFD simulation of the dispersion of particle agglomerates by cyclonic flows	Revealing Rheology of Dense Non-cohesive Granular Materials by DEM Simulation		
	Dr. Sébastien Kiesgen de Richter, University of Lorraine, France	Mobility Diameter and Vacuum Aerodynamic Diameter	Dr. Alberto Di Renzo, University of Calabria, Italy	Dr. Fenglei Qi, University of Luxembourg		
		Dennis Kiesler, University of Duisburg-Essen, Germany				
11:10	Discrete Element Method simulation of wet granulation	Sintering of Fe-Nanoparticles in a Well-defined Model Flow Reactor	A Simple Model to Account Particle Attrition in Pneumatic Conveying	 Influence of Fluid Pressure Gradient and Fluid Drag on Hopper Outflow Characteristics for Cohesive Powders Robert Hesse, Technical University of Kaisers- lautern, Germany 		
	PhD Mikio Yamanoi, Prometech Software, Japan	Thore Rosenberger, University of Duisburg-Essen, Germany	Dr. Dmitry Portnikov, Ben-Gurion University of the Negev, Israel			
11:30	An interface resolved immersed boundary method in XDEM for	Porosity determination techniques for spray dried particulate systems	A comprehensive review of current drag models and the	A New Method for Particle Dispersion by Induction Charging		
	particulate flow simulations Mingqiu Wu, University of Luxembourg	Nora Ruprecht, University of Hohenheim, Germany	physical limitations of their validation Dr. Casey LaMarche, Particulate Solid Research Inc, USA	Prof. Shuji Matsusaka Kyoto University, Japan		
1:50	Modelling deformable particles in complex fluid flow: A reduced- order modelling approach	Segmentation-Optimized Preparation Method for Particulate Samples in Micro-CT Analysis	Stability Analysis of Uniform Fluidization Dr. Chenxi Zhang,	Investigating the potential of size and density fractionation of micro particles through passive		
	A. N. Balachandran Nair M. Sc., Johannes Kepler University of Linz, Austria	Ralf Ditscherlein, Technical University Bergakademie Freiherg, Germany	Tsinghua University, China	MOFF, DLDF and serpentine micro channels using µPIV and high-speed PTV		
	Linz, Austria Freiberg, Germany			Sebastian Blahout, Ruhr-University of Bochum, Germany		

12:10 Lunch Break & Exhibition Visit

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International Association for Pharmaceutical Technology (APV), Germany



DKG

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IESC

Deutsche Keramische Gesellschaft (DKG), Germany

The Chemical Industry and Engineering Society of China



IChemE PTSIG, England

 Mechanics of Particulate Solids	Modelling and Simulation	DynSim SPP 1679
Contact behavior of wet cylindrical particles during compression and impact Philipp Grohn, Technical University of Kaisers- lautern, Germany	Modelling breakup of a suspen- sion droplet containing nano- particles during pulse combustion drying Daniel Pramudita, Otto Von Guericke University of Magdeburg, Germany	Model-based optimization of ripening processes with feedback Michele Spinola, Friedrich-Alexander-University of Erlangen-Nuremberg, Germany
Analysis of the Influence of Pro- tein Crystal Shape and Breakage on the Filtration Behaviour Using a Downscaled Filtration Cell Benjamin Radel, Karlsruhe Institute of Technology, Germany	Particle simulations: a story of scales and how to bridge them Dr. Thomas Lichtenegger, Johannes Kepler University of Linz, Austria	Dynamics and control of continuous fluidized bed layering granulation Christoph Neugebauer, Max Plank Institute for Dynamics of Complex Technical Systems Magdeburg, Germany
A numerical adhesive contact law for deformable particles Dr. Csaba Sinka, University of Leicester, UK	Numerical Investigation of Particle Transport in Human Respiratory System Dr. Shuji Ohsaki, Osaka Prefecture University, Japan	Dynamic Flowsheet Simulation of a Crystallization Reactor with Material Recovery via a Hydrocy- clone Simon Kulozik, M. Sc., Technical University of Munich, Germany
Stability analysis of stick-slip phenomena Karl Krueger, Technical University of Kaiser- slautern, Germany	Development of dust release functions validation methods for simulations Nadja Schwindt, University of Wuppertal, Germany	Dynamic flowsheet simulation of the mechanical fluid separation in solid bowl centrifuges Marco Gleiß, Karlsruhe Institute of Technology, Germany
Understanding the mechanics of particulate solids: From particles to continuum-theory and appli- cations Prof. Stefan Luding, University of Twente, The Netherlands	Predictive modelling and experi- mental evaluation of structured food powder dissolution Nora Ruprecht, M. Sc., University of Hohenheim, Germany	Interconnected multivariate population balances based on the Monte Carlo method Gregor Kotalczyk, University of Duisburg-Essen





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



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



Association for Aerosol Research (GAeF), Germany



The Society of Powder Technology, Japan



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



ProcessNet, Germany

Nano in Germany Nano in Germany, Germany

Tuesday, April 9, 2019

14:00	Dynamics of Cohesive Powder Flo Prof. Mojtaba Ghadiri, University of I			Keynote
	Modelling and Simulation	Application of Particle Technology	Fluidization and Multiphase Flow	Mixing
14:40	process of lithium-ion electrodes Software should provide to characteristics and agglomerate a via DEM simulations prepare the Way to Industry 4.0 formation during drying of	Validation of DEM simulations of a high intensity mixer and coater Tom Meaclem.		
	Clara Sangrós, Technical University of Braun-	Oliver Rutsch, Sympatec GmbH, Germany	nanosuspensions in a vacuum fluidized bed	University of Canterbury, UK
	schweig, Germany		Prof. DrIng. Andreas Bück, Friedrich-Alexander University of Erlangen-Nuremberg, Germany	
15:00	Coarse-grained DEM for granular shear flow and application to powder mixing process	Real time measurement of flocs produced during the water treat- ment process	Measurement of residence time distributions in a continuous spouted bed	Experimental study on shear induced percolation
	Hideya Nakamura, Osaka Prefecture University, Japan	Dr. Stephen Ward Smith, Malvern Panalytical, UK	Swantje Pietsch, Hamburg University of Technology, Germany	Dr. Silvia Volpato, University of Padova, Italy
15:20	DEM study of cohesive solid flow in screw feeder with asymmetrical screw designs	Adaptive feedback control of continuously operated convective dryers for particulate materials	Bubble Hydrodynamic Comparison for Geldart Group a and B Materials at Different Fluidization Regimes	Shaping Segregation: Multiscale modelling of industrial mixers Dr. Anthony Thornton,
	Xin Li, Monash University, Australia	Prof. DrIng. Andreas Bück, Friedrich-Alexander University of Erlangen-Nuremberg, Germany	Shyam Sundaram, Particulate Solid Research, Inc. USA	University of Twente, The Nether- lands

15:40	Coffee Break			
	Modelling and Simulation	Characterization of Particles	Fluidization and Multiphase Flow	Handling and Flow of Particulate Systems
16:10	Modelling of particle formation in spray-drying of multi-component mixtures	Formation and characterisation of inorganic particle residues from lube oil droplets	Reduction of metal powder in a fluidized bed reactor using a dielectric barrier discharge reactor	Online monitoring of particle dis- tribution in pneumatic conveying systems via electrical capacitance tomography
	Prof. DrIng. Andreas Bück, Friedrich-Alexander University of Erlangen-Nuremberg, Germany	Julia Thieringer, Karlsruhe Institute of Technology, Germany	Malte Bierwirth, M. Sc., TU Clausthal, Germany	Dr. Stefan Puttinger, Johannes Kepler University of Linz, Austria
16:30	Numerical simulations of melt pool dynamics in powder-bed additive manufacturing processes	Imaging of Particles for Size and Shape Analysis in Laboratory and Process Environments	Particle Attrition in cyclone Fabio Fulchini, University of Leeds, UK	Investigation of energy loss in horizontal bends in dilute phase pneumatic conveying
	Dr. Claas Bierwisch, Fraunhofer IWM, Germany	DrIng. Ulrich Köhler, Sympatec GmbH, Germany	University of Leeds, or	Prof. Haim Kalman, Ben Gurion University of the Negev, Israel
16:50	Modelling and Characterization of Aggregated Nanoparticle Films	Characterization of Particles needs International Standardization	Development of a Simple Approach for Quantifying the	Velocities and porosities in pneumatic conveying
	Prof. DrIng, Lutz Mädler, University of Bremen, Germany	Prof. DrIng. habil. Michael Stintz, Technical University of Dresden, Germany	Magnitude of Interparticle Forces in a High Temperature Gas-Solid Fluidized Bed	Philipp Schweda, Technical University of Munich, Germany
		Cernary	Jaber Shabanian, CanmetENERGY-Ottawa, Canada	ochiany
17:10	Numerical Simulation of the Frictional Behaviour of the Tire- Pavement System in Presence of Ice-Snow Interface	Comprehensive Characterization of Nano-Aerosols by Wide-Angle Light Scattering (WALS) and Laser-Induced Incandescence (LII)	Pulsierende Mehrphasen- strömungen – Untersuchung des Einflusses der Strömungsbedin- gungen und Partikeleigenschaften	Cohesive Powder Flow of Faceted Particles in Screw Feeders Dr. Alejandro Lopez, University of Leeds, UK
	Prof. Rimantas Kačianauskas, Vilnius Gediminas Technical University, Lithuania	Simon Aßmann, Friedrich-Alexander-University Erlangen-Nuremberg, Germany	auf den gekoppelten Wärme- und Stoffübergang in Gas-Feststoff- Strömungen	University of Leeus, of
	,-	······································	Arne Teiwes, Glatt Ingenieurtechnik GmbH, Germany	
17:30	Poster Presentation Visit			

19:00 Get together

sponsored by



Int	terface Properties	Particle and Bulk Powder Characterization	DynSim SPP 1679
Ha Pa Pro	rmulating with particles using insen Solubility/Similarity rameters of. Steven Abbott, even Abbott TCNF Ltd, Ipswich,	Significant advances in bulk solids handling and ultrafine grinding through the life's work of Prof. Jörg Schwedes (Ehrenvortrag anlässlich des Todes von Prof. Jörg Schwedes J	Simulation of Technical Precipitation Processes DYNSIM Hendrik Rehage, Karlsruher Institute of Technology, Germany
Pro	, of. Dietmar Lerche M GmbH, Berlin, Germany	Prof. DrIng. Arno Kwade, Technical University of Braun- schweig, Germany	
		Assessment of Triboelectric Charging Propensity of Powders by Aerodynamic Dispersion Umair Zafar, University of Leeds, UK	A software framework for dy- namic flowsheet simulation with advanced treatment of multidi- mensional distributed parameters Vasyl Skorych, Hamburg University of Technology, Germany
we Fir ma	the characterization of the ettability of microparticles using nite Dilution Inverse Gas Chro- atography – critical introduction d application in ultrafine	TiO2 Pigment Sizing: Constituents, Aggregates and Primary Particles Dr. Ralf Theissmann, KRONOS International Inc., Germany	Simulation of dynamic behaviour of fine grinding in stirred media mills Greta Fragnière,
pa Dr. He	-Ing. Martin Rudolph, -Ing. Martin Rudolph, Imholtz-Zentrum Dresden- ssendorf, Germany		Technical University of Braun- schweig, Germany
In	terface Properties	Particle and Bulk Powder Characterization	Particle Technology for Pharmaceuticals
Fu	e Effect of the Surface nctionalization of in Polymers nbedded Nanoparticles	Study on the influence of solids volume fraction on filter cake structures using micro tomography	Characterization of Liposomal Particles for Pharmaceutical Applications
Te	a Ditscherlein, chnical University Bergakademie eiberg, Germany		Kirsten Ullmann, Karlsruhe Institute of Technology, Germany
Fu	e Effect of the Surface nctionalization of in Polymers nbedded Nanoparticles	Characterization of precipitated Silica in terms of use in vacuum insulation panels (VIPs)	Process chain design as a tool to tailor the release kinetics of poorly soluble APIs
Te	za Saadat, chnical University Braun- hweig, Germany	Manuel Meier, Karlsruhe Institute of Technology, Germany	Sebastian Melzig, Technical University of Braun- schweig, Germany
we Im	uid – solid interaction during et extrusion/spheronization: pact of different solvents on	Predicting packing of pharma- ceutical powders and blends Dr. Rajesh Dave,	Characterization of primary lyo- philization using a coulometrically based humidity sensor
Vir He	llet characteristics ncent Lenhart, :inrich-Heine-University Dussel- rf, Germany	New Jersey Institute of Technology, USA	Nicole Vorhauer, Otto-von-Guericke Universität Magdeburg, Germany
Gr	lective Agglomeration of aphite in a Heterogeneous Ispension – Effect of Contact	Unifying size-topology relation- ship in random packings of poly- disperse adhesive spheres	Characterization of primary lyo- philization op frozen bulky solids
An Ju Tri	lia Schreier, M. Sc., er University of Applied Sciences, rmany	Dr. Wenwei Liu, University of Surrey, UK	Dr. Petra Först, Graz University of Technical University of Munich



Wednesday, April 10, 2019

00:00	EFCE-MPS Award					
9:10	Particle Technology in Additive Manufacturing Keynote Prof. Karen Hapgood, Deakin University, Australia Keynote					
9:50	Coffee Break					
	Modelling and Simulation	Particle Technology for Pharmaceuticals	Fluidization and Multiphase Flow	Agglomeration and Granulation		
0:20	Simulation of soot and ash dynamics in diesel particulate filters employing a hybrid subgrid/ resolved particle approach with a Lattice Boltzmann Method Nicolas Hafen, M. Sc., Karlsruhe Institute of Technology, Germany	Application of Physicochemical Characterization Techniques for Complex Generic Product In Vitro bioequivalence studies Deborah Huck-Jones, Malvern Panalytical, UK	Experimenatal model of a fluid- ized granular beds for biomass gasification Anna Prati, Free University of Bolzano – Bozen, Italy	Development of Dry Granulates: Comparability of Granulates Obtained by Tableting and Roller Compaction Dr. Barbara Fretter, Solids Development Consult GmbH, Germany		
0:40	Particle systems on the molecular scale: Multiscale modeling of bio- agglomerates Philipp Nicolas Depta, Determination of the solid (true) density of pharmaceutical pow- ders and the impact on tablet compression characterization Determination of the solid (true) Influence of Temperature on the Transition from Bubbling to Turbulent Fluidization for Geldart's Group B Particles	Experimental parameter study on Mn oxides agglomeration's key factors John-Lee Dubos,				
	Technical University of Hamburg,	Dr. Edgar John, Novartis Pharma AG, Switzerland	Tom Wytrwat, Hamburg University of Technology, Germany	ERAMET Research, France		
1:00	Potentials and Constraints for the application of CFD to dry powder inhalers: A Review	Energy State Quantification of Amorphous Systems using Differ- ential Scanning Calorimetry	Understanding calcium cooping activity of limestone for thermo- chemical energy storage of con-	Auto-Agglomeration of Cohesive Powders Due to Mechanical Vibration		
C	Prof. DrIng. Martin Sommerfeld, Otto-von-Guericke University of Magdeburg, Germany	Karsten Fluegel, Merck KGaA, Germany	centrated solar power Dr. Pablo Garcia Trinanes, University of Greenwich, UK	Umair Zafar, University of Leeds, UK		
1:20	Residence Time Distribution Pre- diction in Large-Scale Continuous Apparatuses using Recurrence	Particle Size Analysis for Medical Sprays and Inhalation Products Jana Krone,	reactors for chemical looping CO ₂ capture processes using two	Mechanistic modeling of spherical agglomeration process for pharmaceutical manufacturing		
	CFD Paul Kieckhefen, Technical University of Hamburg,	Sympatec GmbH, Germany		Dr. Omid Arjmandi-Tash, The University of Sheffield, UK		
	Germany		Shahriar Amini, SINTEF, Norway			
1:40	Simulation of a Fluidized Hot-Melt Coating Process Using CFD - DEM	impact on the pharmaceutical	Coupled VOF/CFD-DEM method for simulation of heat transfer in	Characterization of agglomerating wet fluidized particulate		
	Peter Böhling M. Sc., Research Center Pharmaceutical Engineering, Austria	development Frank Rüschhoff, Micropiciou pgs. Kaptor Oberret	dense particle-laden free surface flow Tim Nijssen,	Ziv Greidinger, Ben Gurion University of the Negev, Israel		
	спульстну, мозсна	Micronisierungs-Kontor Oberrot GmbH, Germany	Eindhoven University of Technology, The Netherlands	וייכצבי, וזו מכו		
2:00	Microscale CFD-DEM Simulation of the Carbon Black Aggregates Behavior in a Shear Flow	Calibration strategy for material parameters in DEM modelling of compaction	Drying of cohesive particles in vibrated fluidized beds Sören Lehmann M. Sc., Hamburg University of Technology, Germany	Experimental investigation of dynamic process stability of continuous fluidized bed spray agglomeration with internal classification		
	Ermek Asylbekov, Karlsruhe Instutute of Technology,	Dr. rer. nat. Jan Henrik Finke, Technical University of Braun-				
	Germany			Daniel Müller M. Sc., Otto von Guericke University Magdeburg, Germany		

Particle Interactions and Interfaces	Particle and Bulk Powder Characterization	Particles for Additive Manufacturing
Monitoring flocculation perfor- mance of designed polyelectro- lytes in an industrial effluent using	Single particle properties of elongated particles and their impact on bulk solid properties	Production of complex polymer particles for additive manufactur- ing by spray drying
Laser Diffraction Spectroscopy Prof. Maria Graca Rasteiro, University of Coimbra, Portugal	Steffen Beitz, Technical University of Braun- schweig, Germany	Dr. Jochen Schmidt, Friedrich-Alexander-Universität Erlangen-Nuremberg, Germany
Normal elastic impact of wet par- ticles: a DEM study Prof. Chuan-Yu Wu.	Understanding the nature of Active Pharmaceutical Ingredients during dry granulation	Effect of flowability on powder spreading process in Additive Manufacturing
University of Surrey, UK	James Clarke, University of Birmingham, UK	Vanessa Seyda, Hoedtke GmbH & Co. KG, Germany
Influence of the surface structure on the fluid displacement during fine particle collision: Experimen-	Magnetically assisted impaction coating (MAIC) for blending optimising	The effect of temperature on the flow properties of polymeric pow- ders for selective laser sintering
tal study and CFD-DEM simulation Fabian Krull, Technical University of Kaisers- lautern, Germany	Jamie Clayton, Freeman Technology Ltd. United Kingdom	Prof. Massimo Poletto, University of Salerno, Italy
Demonstrating Surface Structural Differences of Dry Powders: Processing and Powder Flow	Measuring powder flowability at low stresses: comparison of techniques	Polymer and metallic powders flowability & electrical charges characterization for additive manufacturing
Hector Lozano-Perez, Purdue University, USA	Azza Mahmoud, University of Surrey, UK	Dr. Quentin Ribeyre, GranuTools, Belgium
From elasticity to capillarity in soft contacts Dr. Michael Kappl,	Bag filling characteristics of starch related to the flow properties of different starches	Comparison of different flow assessments for Selective Laser Sintering powders
MPI for Polymer Research, Germany	Dr. Gabriel Meesters, Delft University of Technology, The Netherlands	Dr. rer. nat. Denis Schütz, Anton Paar GmbH, Austria
Exploring the Requirements of Pharmaceutical Powders for use in 3D Binder Jetting Printing Anthony Antic,	Die filling behavior of spray dried ceramic granules Dipl-Ing. Bianca Glöß, Fraunhofer IKTS, Germany	Advanced analytical insight for optimising metal powders for additive manufacture Dr. Cathryn Langley, Malvern Panalytical, UK



Wednesday, April 10, 2019

	Modelling and Simulation	Particle Technology for Pharmaceuticals	Comminution	Particle Technology for Energy Systems
16:30	Optimal Control and Optimization of Fluid Flows in Process	An attempt to mechanistically explain derived compression	A Hybrid Particle Breakage Model for Large scale DEM Simulations	Particle technology based design of lithium-ion battery electrodes
	Engineering Dr. Matthias J. Krause.	parameters of powders by acting micro-processes	micro-processes PhD Klas Jareteg,	Prof. DrIng. Arno Kwade, Hamburg University of Technology, Germany
	Dr. Matchias J. Krause, Karlsruhe Institute of Technology, Germany	lsabell Wünsch M. Sc., Technical University of Braunsch- weig, Germany	Fraunhofer Chalmers Research Centre Industrial Mathematics, Germany	
16:50	A Surrogate Based Modelling and Optimization Methodology for Calibration and Engineering	Development of a novel continu- ous production system of phar- maceuticals	Characterization of stressing conditions in jet mills by particle probes	Dry coating of active material with solid electrolyte for all-solid-state secondary battery
	Design using DEM		Alexander Strobel,	Hideya Nakamura,
	PhD Johannes Quist, Fraunhofer Chalmers Research Centre Industrial Mathematics, Germany	Osaka Prefecture University, Canada	Fraunhofer Institute for Chemical Technology ICT, Germany	Osaka Prefecture University, Kanada
17:10	Uncertainty propagation for pop- ulation balance model of a conical screen mill	tba.	Understanding the Fine Grinding of Calcium Carbonate in Stirred Media Mills	Powder pretreatment for a solvent free processing of lithium ion battery electrodes
	PhD Satyajeet Bhonsale, BioTeC+ KU Leuven, Belgium		Sophie Rimmer, University of Birmingham, UK	Gerrit Schälicke, Technische Universität Braun- schweig, Germany

	Characterization of Particles	Particle and Bulk Powder Characterization	Particle Design and Functionalization
	Performance test of a novel multi-parameter optical particle	Ultrasonic In-Die Measurement of Deformation Properties	Design of skeletal silica nanopar- ticles to improve optical property
counter for colloidal particles PD DrIng. habil. Frank Babick, Technical University of Dresden, Germany		Robert Frank Lammens, TU Bergakademie Freiberg, Germany	Dr. Chika Takai-Yamashita, Nagoya Institute of Technology, Japan
	Crunch it if you can – or why particle sizing can free up more than 50 % of energy use in the chocolate industry	The shear response of particles in the FT4 powder rheometer: a numerical and experimental investigation	Synthesis and Application of a Magnetised Ternary Core-Shell Catalyst for Biodiesel Production
	Dr. Stephen Ward Smith, Malvern Panalytical, UK	Marvellous J. Khala, University of Surrey, UK	Dr. Jabbar Gardy, University of Leeds, UK
	Enhanced spectral and size analysis of nanoparticles using analytical ultracentrifugation	Characterising Powder Flowability in the Intermediate Flow Regime Dr. Colin Hare.	Continuous manufacturing of coated powders by gas-phase deposition in a Pneumatic
	Simon Wawra, Friedrich-Alexander Universität Erlangen-Nürnberg, Germany	University of Surrey, UK	Transport Reactor J. Ruud van Ommen, Technical University of Delft., The Netherlands
	The Radial Centrifugal DMA – A Novel Method for Multidimen- sional Aerosol Characterization	Development of an Inline Measurement Tool for Particle Analysis during Spheronization	Morphology control in the aerosol synthesis of titania by vapor- liquid-solid reaction and hetero-
	David Rasche M. Sc., University of Paderborn, Germany	Maria Evers, Technical University of Dortmund, Germany	geneous nucleation Maximilian Domaschke, Institute of Particle Technlogy, Germany
	Particles for Additive Manufacturing	Life and Food Science	Particle Design and Functionalization
	Manufacturing and application of novel polymer particles for selec- tive laser sintering Maximilian A. Dechet	Improving the rehydration of granulated food powders Prof. Andrea C. Santomaso, University of Padoya Italy	Enhancing the Performance of Catalytic Oxidation of n-Butane in a Microwave-Heated Gas-Solid Fluidized Bed Reactor

Maximilian A. Dechet, University of Padova, Italy FAU Erlangen-Nuremberg, Discrete Particle Model of Sintering Capillary penetration into heterogeneous food powders

Mohamad Yousef Shaheen, University of Twente, The Netherlands

Germany

Characterization of powders for additive manufacturing

Dr. Jochen Schmidt, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

Adsorption and desorption behavior of protein particles at liquid-liquid interfaces under flow induced stresses

Jana Kammerhofer M. Sc.,

Germany

Hamburg University of Technology,

Tobias Wollborn M. Sc., Leibniz Institute for Materials Engineering - IWT, Germany

Numerical investigation of gas dynamics in a bubbling gas-solid fluidized bed in the presence of cohesive interparticle forces

Prof. Jamal Chaouki, Polytechnique de Montreal, Kanada

Dr. Sepehr Hamzehlouia,

Monika Goslinska,

Germany

Polytechnique Montréal, Canada

Strategy for coating of aerogels

using spouted bed technology

Hamburg University of Technology,

Thursday, April 11, 2019

9:00	Opening			
9:10	Engineering of particles by spray drying and spray fluidized bed processes Keynote Prof. DrIng. Evangelos Tsotsas, Otto-von-Guericke-Universität Magdeburg, Germany Keynote			
9:50	Coffee Break			
	Modelling and Simulation	Agglomeration and Granulation	Comminution	Formation and Synthesis of Particles
):20	Numerical study of grain shape effect on surface erosion using smoothed particle hydrodynamics Shoya Mohseni-Mofidi, Fraunhofer Institute for Mechanics of Materials IWM, Germany	Scale-up of tableting processes in different fields of application Daniel Puckhaber, Technical University of Braun- schweig, Germany	Fine grinding of inorganic material mixtures in stirred media mills Markus Nöske M. Sc., Technical University of Braun- schweig, Germany	Aerosol formation in the course of VOC-Degradation by means of Non-Thermal Pulsed Plasma Sadid Salajegheh, BTU Cottbus-Senftenberg, Germany
9:40	The Influence of Shape on the Settling of Particles Simulated with a Homogenised Lattice Boltzmann Approach Robin Trunk, Karlsruhe Institute of Technology, Germany	Roller compaction: Online moni- toring of powder feeding Mingzhe Yu, University of Sheffield, UK	Attrition methods and how to select a jet velocity in attrition test Ben Freireich, Particulate Solid Research Inc., USA	Optical investigation of particle characteristics produced by Spray Flame Synthesis using Wide-Angle Light-Scattering (WALS) Bettina Münsterjohann, University Erlangen-Nuremberg, Germany
1:00	Optimization of Pore Scale Conju- gate Heat Transfer using Lattice Boltzmann Simulations towards Lower Cost Vacuum Insulation Panels Jesse Ross-Jones, Mannheim University of Applied Sciences, Germany	High-Shear Granulation Process of Soft Porous Particles Dr. Shuji Ohsaki, Osaka Prefecture University, Japan	Comminution of wood – process parameters Moritz Eisenlauer, Technical Institute Georg-Simon- Ohm Nürnberg, Germany	Impact of atomization on particle formation in spray flames Ricardo Tischendorf M. Sc., University of Paderborn, Germany
:20	Fast, flexible particle simulations: An introduction to MercuryDPM Dr. Thomas Weinhart, University of Twente, Netherlands	Roller compaction: Effect of temperature during powder storage on final ribbon properties Dr. Omar Chalak, The University of Sheffield, UK	Dispersion and Rheology of multi- wall Carbon Nanotubes Alexander Dresel, Fraunhofer Institute for Chemical Technology ICT, Germany	Synthesis of nanoparticles out of silicon and germanium in a con- trolled nucleation aerosol reactor Lukas Wergen, Friedrich-Alexander-Universität Erlangen-Nuremberg, Germany

11:40	A thorough analysis of temporal plate erosion by particle impacts and validation of Lagrangian models Guilherme Antonio Novelletto Ricardo M. Sc., Otto-von-Guericke University Magdeburg, Germany	Liquid bridge interaction in funicu- lar regime: toward detailed simula- tion of wet particle agglomerates Dr. Alberto Di Renzo, University of Calabria, Italy	Breakage of Carbamazepine Dihydrate Crystals under Impact Wei Pin Goh, University of Leeds, UK	Automated High-throughput syn- thesis of colloidal semiconductor nanoparticles: A multi-dimen- sional parametric study on the influence of mixing Ahmed Mahmoud, Friedrich-Alexander-Universität Erlangen-Nuremberg, Germany
12:00	Mechanical behavior of particle aggregates during drying Son Thai Pham, Otto-von-Guericke-University Magdeburg, Germany	An investigation on the evolution of granule formation by in-pro- cess sampling of a high shear granulator Dr. Faiz Mahdi, University of Leeds, UK	Time-resolved characterization of customized aluminium-doped zinc oxide nanocrystals by means of Small-Angle X-ray Scattering (SAXS) Julian Ungerer, Karlsruher Institute of Technology, Germany	Continuous flow metal patch coating of flake-like particles Prof. Dr. Robin Klupp Taylor, FAU Erlangen Nuremberg, Germany

12:20 Lunch Break & Exhibition Visit

14:00	Contribution of Particle Technology Research on CO ₂ capture and reduction
	Prof. Hamid Arastoopour, Illinois Institute of Technology, USA



PARTEC 2019 - the international congress

Particle Interactions and Interfaces	Seperation	Nano Hybrids
Chemical and size-specific sepa- ration of fine particles at liquid- liquid interfaces: Challenges and system design Dr. rer. nat. Christian Weber, Technical University of Freiberg, Germany	Multidimensional fractionation of solid microparticles from aqueous suspensions by crossflow filtration Philipp Lösch, Technical University of Kaisers- lautern, Germany	Cellulose aerogel particles via emulsion technique Prof. Tatiana Budtova, MINES ParisTech – CEMEF, France
Stability and granulometric state of Pickering emulsions Dipl. Ing., Rodrigo Renato Retamal Marín, Technical University of Dresden, Germany	Numerical and Experimental In- vestigations on the Influence of Electrical Charge of Electret Fil- ters on Particle Deposition Maximilian Kerner M. Sc., Technical University of Kaisers- lautern, Germany	Multiscale modeling of particles supercritical drying process Dr. Natalia Menshutina, Mendeleev University of Chemical Technology of Russia
Coating and Drying of Slot Die Coated OLED-Multilayers DrIng. Sebastian Raupp, BASF SE, Germany	Prediction of Filtration Efficiency and Local Deposition inside Fi- brous Filters Kevin Hoppe, Anhalt University of Applied Science, Germany	Drying of aerogel particles and beads in lab and pilot scale Prof. Irina Smirnova, Technical University of Hamburg- Harburg, Germany
An insight into influence of particle size on vapour sorption profile of pharmaceutical anhydrate- hydrate systems Søren Lund Kristensen, Particle Analytical aps, Denmark	CFD simulations of cyclones with and without an eccentrically posi- tioned vortex finder Dr. Ray Cocco, Particulate Solid Research, Inc., USA	Kinetics of Supercritical Drying for Production of Aerogel Particles: Effects of Process Parameters and Gel Properties Ibrahim Sahin, Koc University, Turkey Aerogel particles: state of the art and recent advances Dr. Pavel Gurikov, Hamburg University of Technology, Germany
Charge transfer between single highly resistive particles: Experi- ments and Numerical Simulation Alpesh Laxman Vora, Brandenburg Technical University Cottbus-Senftenberg, Germany	Quantitative evaluation of nano- particle separation using size- exclusion chromatography Sebastian Süß, Friedrich-Alexander-University Erlangen-Nuremberg, Germany	Carbon-based aerogels for adsorption of toxic gases and air decontamination Prof. Patrina Paraskevopoulou, National and Kapodistrian Univer- sity of Athens, Greece
Additive Manufacturing with ceramics: Simulation of the print- ing process using meshfree simulation methods Bastien Dietemann, Fraunhofer IWM, Germany	Fractionation of Nanoparticles by Preparative Gel Electrophoresis Matthäus Barasinski M.Sc., Technical University of Braun- schweig, Germany	Cellulose-hybrid aero/xerogels for sorption of gas, moisture and cationic compounds Dr. Fernando Alvarado, RISE Innventia AB, Sweden Chitosan-based aerogels with exceptional properties for environmental control system Kathirvel Ganesan, German Aerospace Center, Germany



Thursday, April 11, 2019

	Modelling and Simulation	Characterization of Particles	Application of Particle Technology	Formation and Synthesis of Particles
14:40	Heat transfer coefficients in fligh- ted rotary kilns: Comparison of experiments with DEM simulations Alexander Berndt, Ruhr-University of Bochum, Germany	Application of Nanofocused X-ray tomography and Image Process- ing for the Quantitative Analysis of Pharmaceutical Particulate Solid Products Frederik J. S. Doerr, University of Strathclyde, Scotland	Sintering free conductive hybrid ink for inkjet printed electronics Robert Strahl, Leibniz-Institute for New Materials GmbH, Germany	In Situ monitoring of particle formation with spectroscopic and analytical techniques under solvothermal conditions Dr. Monica Distaso, Friedrich-Alexander-University Erlangen-Nuremberg, Germany
15:00	A dimensionless number for scaling particle size and stiffness in DEM analyses of cohesive powders Mohammadreza Alizadeh Behjani, University of Leeds, UK	Chemical and mechanical stability of casein microparticles Jann Schulte M. Sc., RWTH-Aachen, Germany	Developments in catalytic strip- per technology for powder measurement Dr. Jacob Swanson, Catalytic Instruments GmbH & Co.KG., Germany	Investigation of size distributions in highly concentrated particle suspensions – influence of production method Dr. Lena Bressel, University of Potsdam, Germany
15:20	Modelling of sintering in macro porous structures with discrete element method (DEM) Christoph Ohmstede, Technical University of Hamburg, Germany	The role of glidants in interparticle friction Dr. Sadegh Nadimi, University of Leeds, UK	Sustainable turbidity controls mimicking oil-in-water emulsions by the use of polymer particles Dr. Kyriakos Eslahian, BS-Partikel GmbH, Germany	Synthesis and processing of tailored AZO nanocrystals Ann-Kathrin Thurm, Technical University of Braun- schweig, Germany
15:40	Predicting flowability of cohesive bulk solids via DEM David Craig, Jenike & Johanson, Inc., USA	Optical single particle detection with wide dynamic range for nano- and microparticle counting and sizing Dr. Martin Hussels, Physikalisch-Technische Bundesanstalt, Germany	Evaluation of the mixing mechanisms during Twin-Screw- Extrusion by Residence Time Distribution Jens Wesholowski, Technical University Dortmund, Germany	Correlation between pore size distribution and thermal conduc- tivity of core materials for vacuum insulation panels (VIPs) based on precipitated silica Sebastian Sonnick, Mannheim University of Applied Sciences, Germany
16:00	Closing Ceremony			

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PARTEC 2019 takes place at the Nurnberg Convention Centre (NCC) Ost of the Nuremberg exhibition centre. Address: Exhibition Centre Nuremberg, Messezentrum, 90471 Nurnberg, Germany



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Registration / Office hours

The registration onsite is open on Tuesday, April 9 – Wednesday, April 11 from 8–18 h Thursday, April 11 from 8–15 h

Particle Technology for Pharmaceuticals	Seperation	Handling and Flow of Particulate Systems
Surface Modification of Pharma- ceutical Particles via Scalable Atomic Layer Deposition in Fluidized Bed Reactors Damiano La Zara M. Sc., Delft University of Technology, The Netherland	Zonal Rotor Ultracentrifugation: New Avenues in Sorting Nano- particles Prof. Dr. Alexander Wittemann, University of Konstanz, Germany	Mechanistic modelling of powder flow into a confined space Prof. Chuan-Yu Wu, University of Surrey, UK
Atomic Scale Surface Engineering of Micro- to Nano- Sized Pharmaceutical Particles	Investigation of Coefficients of Restitution for a Deflector Wheel Classifier	Towards modelling gas-solid flows of cohesive particles DI Alija Vila,
Dr. Michael Quayle, AstraZeneca, Germany	Martin Weers M. Sc., TU Clausthal, Germany	K1-Met GmbH, Austria
3D Printed Dosage Containing Engineered BCS Class II Drug Particles	Determination of non-ideality parameters from theoretical and experimental sedimentation velocity and sedimentation	Dynamic behavior of particle curtains in a flighted rotating drum investigated by PTV experiments and a DEM model
Dr. Rajesh Dave, New Jersey Institute of Technology,	equilibrium studies	Lanyue Zhang,
USA	Maximilian Uttinger, Friedrich-Alexander Universität Erlangen-Nuremberg, Germany	Leibniz Institute of Agricultural Engineering and Bio-economy e.V. (ATB), Germany
Comparison of Scale Concepts for Pharmaceutical Hot-Melt- Extrusion	Investigation of continuum me- chanics models of granular flow by MRI	Real-time in-situ Rheological Assessment of Sticky Point Temperature and Humidity of
Vanessa Düphans, Technical University of Dortmund, Germany	Daniel Holland, University of Canterbury, UK	Powdered Products Tim Groen, Delft Solids Solutions B.V., The Netherlands

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1Day Ticket*			
1-day regular price	-	-	EUR 551
1-day academics, speakers, poster presenters	-	-	EUR 396
1-day student	-	-	EUR 204
Social Event*			
Exhibition Party on April 10, 2019 (19–24 h)		UR 27	🗌 EUR 27

I will join the Get-together on April 9, 2019 (free of charge).

*Price per Person + VAT (The VAT directive of the respective country applies)

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