## **Program overview**

09:00       Opening         09:10       Friedrich Löffler-Prize in Particle Technology         09:20       Prof. Dr. T. Ala Hatton, Massachuserts Institute of Technology, USA Stabilization of nanoparticles and nanoemulsions under extreme salinity and high temperature conditions for oil reservoir applications         10:00       Coffee Break         10:01       Modelling and Simulation       Particles in Controlled       Interface Controlled       (Nano)- Materials       Particles from Renewable Materials       Applications of Particle Technology       IPROCOM Conference         12:10       Lunch Break & Exhibition Visit       Interface Controlled       (Nano)- Structured Materials       Particles from Renewable Materials       Applications of Particle Technology       IPROCOM Conference         14:40       Prof. DrIng. Wolfgang Peukert, Friedrich-Alexander University Erlangen-Nürnberg, Germany Particle Interfaces – from molecular structure to macroscopic properties       Particles from Renewable Materials       Applications of Particle Technology       IPROCOM Conference         14:40       Modelling and Simulation       Particles in Controlled Processing       Interface Controlled Processing       Nano)- Structured Materials       Applications of Particle Technology       IPROCOM Conference         17:30       Poster Presentation Visit       Interface Simulation       (Nano)- Structured Materials       Applications of Particle Technology       Modelling and Particle technology in the new eco	Tueso	day, April 19, 20	016					
Operator     Prof. Dr. T. Alan Hatton, Massachusetts Institute of Technology. USA Stabilization of Interparticles and Innoemalators under externer satinity and high temperature conditions for oil reservoir applications.       10:30     Onfore erak     Particles in Structured Processing     Particles in Processing     Particles from Processing     Applications Particles from Materials     Applications Particles from Processing     Particles from Proc								
Modelling and Simulation of nanoparticles and nanoemulsions under extreme salinity and high temperature conditions for oil reservoir applications       Modelling and Simulation       Articles in Contract and Processing Controlled Processing Structured Renewable Materials       Applications of Particles from Or Particles from Or Particle Structured Renewable Materials       Applications of Particles from Or Particles from Or Particle Structured Renewable Materials       Applications Particles from Controlled Processing Processing Processing Renewable Materials       Applications Applications Modelling and Simulation Processing Renewable Materials       Applications Applications Structured Renewable Materials       Applications Applications Structured Renewable Materials         1:40       Modelling and Simulation       Particles in Orat Can Processing Processe       Particles (Nano)- Structured Materials       Applications Simulation Simulation       Modelling and Particles in Simulation       Particles in Contract and Processe       Modelling and Particles in Simulation       Modelling Applications Simulation       Renewable Applications Simulation       Renewable Applications Simulation       Modelling Applicatio	09:10	Friedrich Löffler-Pr	ize in Particle Techn	ology				
10:30     Modelling and Simulation     Particles in Contact and Processing     Interface Controlled Structured Structured Structured Structured Structured Structured Structured Structured Structured Materials     Particles from Renewable Processing     Applications Particle Structured Materials     Particles from Particle Structured Materials     Particles from Particle Processing     PROCOM Conference       12:00     Unch Break & Erbbinion Visit     Particles in Simulation     Particles in Processing     Interface Processing     (Nano)- Structured Materials     Particles from Materials     Applications Particles from Materials     PROCOM Particles from Materials     PROCOM Particles from Materials     Conference Particles from Materials     Processing     Processing     Processing     Modelling and Simulation     Processing     Modelling and Simulation     Posticles in Processing     Modelling and Processing     Posticles in Processing     Modelling and Processing     Posticles in Processing     Posticles in Processing     Nano- Simulation     Posticles in Processing     Nano- Simulation     Posticles in Processing     Posticles in Processing     Posticles in Processing     Posticles in Processing     Posticles in Processing     Posticles in Processing     Postructured Processing     Posticles in Processing	09:20							
Simulation ProcessingContract and ProcessingContracting MaterialsRenewable Materialsof Particle Pa	10:00	Coffee Break						
14:00       Prof. Dr.Ing. Wolfgang Peukert, Friedrich-Alexander University Erlangen-Nürnberg, Germany Particle interfaces – Trom molecular structure to macroscopic properties       Particles from Renewable Materials       Applications of Particles Technology       IPROCOM Conference Processing       IPROCOM Conference Materials       Applications of Particle Technology       IPROCOM Conference Materials         15:40       Coffee Break       Particles in Processing       Particles an Processing       Modelling and Processing       Applications Materials       Modelling and Processing         17:30       Poster Presentation Visit       Particles in Processing       Particles in Processing       Modelling and Processing       Processing	10:30		Contact and	Controlled	Structured	Renewable	of Particle	
Particle interfaces – from molecular structure to macroscopic properties       Applications       IPROCOM         14:40       Modelling and Simulation       Particles in Controlled Processing       Interface Controlled Processing       (Nano)- Structured Materials       Applications Materials       Applications of Particle Materials       IPROCOM Conference         16:10       Modelling and Simulation       Particles in Contact and Processing       Particles and Energy       (Nano)- Structured Materials       Applications of Particle Materials       Modelling and Simulation       Modelling and Simulation       Modelling and Simulation       Modelling and Simulation       Modelling and Processing       Modelling and Simulation       Modelling and Processing       Materials         12:0       Unch Break & Exhibition Visit       Interface Controlled Processing       Materials       Materials       Applications       IChemE's Prisoc Particle Processing         12:0       Unch Break & Exhibition Visit       Interface Controlled Processing       Interface Controlled Processing       Materials       Applications       Particles Particles       Applications       Particles         12:00       Interface Exhibition Visit       Interface Control and Simu	12:10	Lunch Break & Exh	ibition Visit					
SimulationContact and ProcessingControlled ProcessingStructured MaterialsRenewable Materialsof Particle PechnologyConference Pechnology15.40Coffee BreakParticles in ProcessingParticles and ProcessingNanol- Structured MaterialsNanol- Structured MaterialsAnnol- of Particle ProcessingManol- Structured MaterialsModelling and of Particle ProcessingModelling and ProcessingModelling and ProcessingModelling and ProcessingModelling and ProcessingModelling and ProcessingModelling and ProcessingModelling and ProcessingModelling and ProcessingModelling and ProcessingMaterialsManol- Structured ProcessingMaterialsModelling and ProcessingModelling and ProcessingModelling and ProcessingMaterials <td< td=""><td>14:00</td><td></td><td></td><td></td><td></td><td>en-Nürnberg, Ger</td><td>many</td><td></td></td<>	14:00					en-Nürnberg, Ger	many	
16:10     Modelling and Simulation     Particles in Contact and Contact and Co	14:40		Contact and	Controlled	Structured	Renewable	of Particle	
Simulation ProcessingContact and ProcessingEnergy RetrainedStructured MaterialsOr Particle Structured MaterialsSimulation17:30Poster PresentationVisit19:00Get togetherWednessday, April 20. 201609:00Opening & EFCE-MPS Award09:01Dr.Ing, Karsten Keller, DuPont, USA Particle technology in the new economy09:02Coffee Break10:02Modelling and ProcessingParticles in Contact and ProcessingInterface Controlled Processing12:20Lunch Break & ExhibitionNaticles in, Contact and Processing(Nano)- Structured MaterialsApplications of Particle TechnologyIchemE's PTSIC - Round Table Processing12:20Lunch Break & Exhibition VisitItfe & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyPharmaceutical ParticlesApplications of Particle TechnologyPharmaceutical Particles14:40Modelling and ScienceScience(Nano)- Structured MaterialsApplications of Particle TechnologyPharmaceutical Particles16:00Industry Lectures & Exhibition VisitItfe & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyModelling and Science17:30Modelling and Particles in the pharmaceutical industryPharmaceutical Pharmaceutical ParticlesApplications of Particle TechnologyModelling and Simulation16:00Industry Lectures m <br< td=""><td>15:40</td><td>Coffee Break</td><td></td><td>-</td><td></td><td></td><td></td><td></td></br<>	15:40	Coffee Break		-				
19:00 Get together         Wednesday, April 20, 2016         09:00 Opening & EFCE-MPS Award         09:10 Dr-Ing, Karsten Keller, DuPont, USA Particle technology in the new economy         09:50 Coffee Break         10:20 Modelling and Simulation Modelling and Processing       Particles in Contact and Processes       Interface Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       IchemE's PTSIC - Round Table         12:20 Lunch Break & Exhibition Visit       Interface Processing       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles       Modelling and Particles       Science       Science<	16:10	<u> </u>	Contact and		Structured	Structured	of Particle	<u> </u>
Wednesday, April 20, 2016         09:00       Opening & EFCE-MPS Award         09:10       DrIng. Karsten Keller, DuPont, USA Particle technology in the new economy         09:50       Coffee Break         10:20       Modelling and Processing       Particles in Controlled Processing       Interface Controlled Processes       Pharmaceutical Materials       Applications of Particle Technology       IChemE's PTSIC - Round Table         12:20       Lunch Break & Exhibition Visit       Interface       (Nano)- Structured Materials       Applications of Particle Technology       IChemE's PTSIC - Round Table         12:20       Lunch Break & Exhibition Visit       Itife & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       Pharmaceutical Particles         14:40       Modelling and Simulation       Particles in Contact and Particles in the pharmaceutical industry       Life & Food Structured Materials       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles         09:00       Opening       Opening       Uife & Food Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       Modelling and Simulation         09:10       DiplIng. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in turbulent flow       Science       Structured Materials       Pharmaceutical Particles <td>17:30</td> <td>Poster Presentation</td> <td>n Visit</td> <td></td> <td></td> <td></td> <td></td> <td></td>	17:30	Poster Presentation	n Visit					
0900       Opening & EFCE-MPS Award         09:10       Dr-Ing. Karsten Keller, DuPont, USA Particle technology in the new economy         09:50       Coffee Break         10:20       Modelling and Simulation       Particles in Contact and Processing       Interface Controlled Processes       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       IChemE's PTSIC - Round Table         12:20       Lunch Break & Exhibition Visit       Interface       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       IChemE's PTSIC - Round Table         12:20       Lunch Break & Exhibition Visit       Itife & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       Pharmaceutical Particles         16:00       Industry Lectures & Exhibition Visit       Itife & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles         09:00       Opening       Opening       Uife & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle       Modelling and Simulation         09:10       Dipl-Ing. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in turbulent flow       Science       Structured Materials       Pharmaceutical Particles	19:00	Get together						
09:10       DrIng. Karsten Keller, DuPont, USA Particle technology in the new economy         09:10       DrIng. Karsten Keller, DuPont, USA Particle technology in the new economy         09:10       Coffee Break         10:20       Modelling and Processing       Particles in Contact and Processing       Interface Controlled Processes       Pharmaceutical Materials       Applications of Particle Technology       IChemE's PTSIC - Round Table         12:20       Lunch Break & Exhibition Visit       Interface Contact and Processing       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles         14:40       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles         16:00       Industry Lectures & Exhibition Visit       Interface Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles         19:0       Opening       Interface Food Science       (Nano)- Structured Materials       Applications of Particle       Modelling and Simulation         10:20       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Applications of Particle	Wedr	nesday, April 20	, 2016					
Particle technology in the new economy         09:50       Coffee Break         10:20       Modelling and Simulation       Particles in Contact and Processing       Interface Controlled Processes       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       IChemE's PTSIC - Round Table         12:20       Lunch Break & Exhibition Visit       Interface       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle       Interface         14:40       Modelling and Simulation       Particles in Contact and Processing       Iffe & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       Pharmaceutical Particles         16:00       Industry Lectures & Exhibition Visit       Industry Lectures & Exhibition Visit       Particles       Pharmaceutical Particles       Applications of Particle       Pharmaceutical Particles         09:00       Opening       Opening       Industry Lectures & Exhibition Visit       Industry Lectures & Exhibition Visit       Industry Lectures & Exhibition Visit         10:20       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Applications of Particle Technology       Modelling and Simulation         12:20       Lunch Break & Exhibition Visit       Life &	09:00	Opening & EFCE-N	1PS Award					
10:20       Modelling and Simulation       Particles in Contact and Processing       Interface Controlled Processes       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       IChemE's PTSIC - Round Table         12:20       Lunch Break & Exhibition Visit       -       -       -       -       -       -       -       -       -       Round Table       -       -       -       -       -       Round Table       -       Round Table       -       Round Table       -       -       -       Round Table       -       -       -       -       Round Table       -       <	09:10							
SimulationContact and ProcessingControlled ProcessesStructured MaterialsParticlesof Particle Technology- Round Table12:20Lunch Break & Exhibition Visit12:20Lunch Break & Exhibition Visit14:40Modelling and SimulationParticle sin in the food industry14:40Modelling and ProcessingParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsPharmaceutical ParticlesApplications of Particle TechnologyPharmaceutical Particles16:00Industry Lectures & Exhibition VisitLife & Food Science(Nano)- Structured MaterialsPharmaceutical ParticlesApplications ParticlesPharmaceutical Particles9:00OpeningOpening09:10Dipl-Ing. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industryPharmaceutical SciencePharmaceutical ParticlesApplications of Particle Technology09:10Dipl-Ing. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industryPharmaceutical Pharmaceutical ParticlesApplications of Particle09:10Dipl-Ing. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industryPharmaceutical Pharmaceutical Pharmaceutical ParticlesApplications of Particle10:20Modelling and Particles in turbulent flowParticles in Contact and ProcessingLife & Food ScienceNono)- Structured MaterialsApplications of Particle <t< td=""><td>09:50</td><td>Coffee Break</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	09:50	Coffee Break						
14:00       Prof. DrIng. Stefan Palzer, Nestle S.A., Switzerland State of the art of particle design in the food industry       Pharmaceutical Particles       Applications of Particle Particles       Pharmaceutical Particles         14:40       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       Pharmaceutical Particles         16:00       Industry Lectures & Exhibition Visit       Industry Lectures & Exhibition Party       Industry       Indu	10:20		Contact and	Controlled	Structured		of Particle	IChemE's PTSIG – Round Table
State of the art of particle design in the food industry         14:40       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       Pharmaceutical Particles         16:00       Industry Lectures & Exhibition Visit       Industry Lectures & Exhibition Visit       Industry	12:20	Lunch Break & Exh	ibition Visit					
SimulationContact and ProcessingScienceStructured MaterialsParticlesof Particle TechnologyParticles16:00Industry Lectures & Exhibition Visit18:00POWTECH Exhibition PartyThursday, April 21, 2016Opening09:00Opening09:10DiplIng. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industry09:50Coffee Break10:20Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsPharmaceutical ParticlesApplications Modelling and SimulationModelling and Particles in turbulent flow12:20Lunch Break & Exhibition Visit12:20Lunch Break & Exhibition Visit14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Processing14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Processing	14:00							
<ul> <li>18:00 POWTECH Exhibition Party</li> <li>Thursday, April 21, 2015</li> <li>Opening</li> <li>Opening</li> <li>Opil-Ing. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industry</li> <li>Offfee Break</li> <li>Coffee Break</li> <li>Modelling and Simulation Processing</li> <li>Life &amp; Food Science Vatured Materials</li> <li>Pharmaceutical Particles</li> <li>Lunch Break &amp; Exhibition Visit</li> <li>Lunch Break &amp; Exhibition Visit</li> <li>Life &amp; Food Science Vatured Materials</li> <li>Pharmaceutical Particles</li> <li>Life &amp; Food Science Vatured Materials</li> <li>Applications of Particle Technology</li> <li>Particles in turbulent flow</li> </ul>	14:40		Contact and		Structured		of Particle	Pharmaceutical Particles
Thursday, April 21, 2016         09:00       Opening         09:10       DiplIng. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industry         09:50       Coffee Break         10:20       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Pharmaceutical Applications of Particle Technology       Modelling and Simulation         12:20       Lunch Break & Exhibition Visit       Image: Structure Struct	16:00	Industry Lectures 8	Exhibition Visit					
09:00       Opening         09:10       DiplIng. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industry         09:50       Coffee Break         10:20       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Pharmaceutical Particles       Applications of Particle Technology       Modelling and Simulation         12:20       Lunch Break & Exhibition Visit       Image: Switzerland Particles in turbulent flow       Switzerland Science       Switzerland Materials       Pharmaceutical Particles       Applications of Particle Technology       Modelling and Simulation       Particles in Contact and Processing       Switzerland Science         14:40       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Applications of Particle Technology       Particles in Contact and Processing	18:00	POWTECH Exhibiti	on Party					
09:10DiplIng. Dierk Wieckhusen, Novartis Pharma AG, Switzerland Particles in the pharmaceutical industry09:50Coffee Break10:20Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsPharmaceutical ParticlesApplications of Particle TechnologyModelling and Simulation12:20Lunch Break & Exhibition Visit14:40Prof. Dr. Hans Herrmann, ETH Zurich, Switzerland Particles in turbulent flowLife & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Particles in turbulent flow14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Porticles in Contact and ProcessingParticles in Contact and ProcessingParticles in Contact and ProcessingContact and ProcessingParticles in Contact and Processing	Thurs	day, April 21, 2	2016					
Particles in the pharmaceutical industry09:50Coffee Break10:20Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsPharmaceutical ParticlesApplications of Particle TechnologyModelling and Simulation12:20Lunch Break & Exhibition Visit14:00Prof. Dr. Hans Herrmann, ETH Zurich, Switzerland Particles in turbulent flowSwitzerland ScienceSwitzerland Structured Materials14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle Technology14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Processing	09:00	Opening						
10:20Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsPharmaceutical ParticlesApplications of Particle TechnologyModelling and Simulation12:20Lunch Break & Exhibition Visit14:00Prof. Dr. Hans Herrmann, ETH Zurich, Switzerland Particles in turbulent flow14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle Technology14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Processing	09:10							
SimulationContact and ProcessingScienceStructured MaterialsParticlesof Particle TechnologySimulation12:20Lunch Break & Exhibition Visit14:00Prof. Dr. Hans Herrmann, ETH Zurich, Switzerland Particles in turbulent flowSwitzerland Science14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Processing	09:50	Coffee Break						
14:00       Prof. Dr. Hans Herrmann, ETH Zurich, Switzerland         Particles in turbulent flow         14:40       Modelling and Simulation       Particles in Contact and Processing       Life & Food Science       (Nano)- Structured Materials       Applications of Particle Technology       Particles in Contact and Processing	10:20		Contact and		Structured		of Particle	
Particles in turbulent flow14:40Modelling and SimulationParticles in Contact and ProcessingLife & Food Science(Nano)- Structured Materials(Nano)- Structured MaterialsApplications of Particle TechnologyParticles in Contact and Processing	12:20	Lunch Break & Exh	ibition Visit					
SimulationContact and ProcessingScienceStructured MaterialsStructured Materialsof Particle TechnologyContact and Processing	14:00							
16:00 Closing Ceremony	14:40		Contact and		Structured	Structured	of Particle	Contact and
	16:00	Closing Ceremony						

3

# Tuesday, April 19, 2016

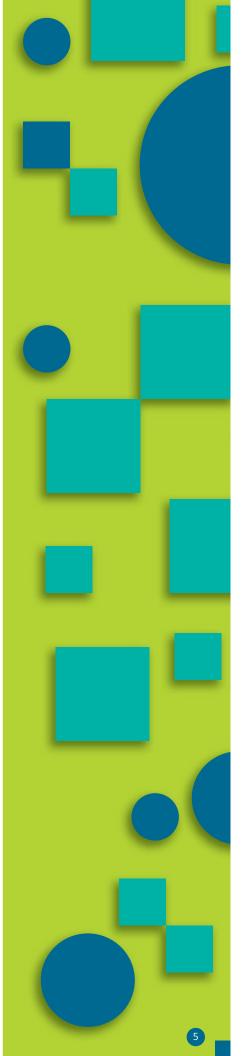
	Opening				
	Friedrich Löffler-Prize in Particle Technology				
Keyn 9:20	ote Stabilization of Nanoparticles and Nanoemulsions under extreme Salinity and High Temperature Conditions for Oil Reservoir Applications Prof. Dr. T. Alan Hatton, Massachusetts Institute of Technology, USA				
0:00	Coffee Break				
	Modelling and Simulation – Capillary Effects/Drying	Particles in Contact and Processing – Piko	Interface Controlled Processes – Particles at interface/coating	(Nano)-Structured Materials – Structuring	
10:30	<b>Continuum-mechanical</b> <b>simulation of capillary</b> <b>bridges between nanoscale</b> <b>particles</b> Michael Dörmann, University of Paderborn, Germany	Adhesion moment of spherical particles in gaseous environment – comparison between experiment and simulation Alexander Haarmann, University of Wuppertal, Germany	Two-dimensional arrangement of magnetic nanoparticles Heinz Rehage, TU Dortmund, Germany	Stabilisation of Pt/oxide nanoparticles using a sol-gel-process Jana Ehrhardt, University of Stuttgart, Germany	
10:50	Collision behaviour of particles during normal and oblique impact on wet surfaces Britta Crüger, Hamburg University of Technology, Germany	Influence of the plate thickness on the contact time at elastic impact Peter Mueller, Otto-von- Guericke-University Magdeburg, Germany	Selective separation of ultrafine particle systems: chances and drawbacks when using non-polar oil as process aid Tom Leistner, Helmholtz Institute Freiberg for Resource Technology, Germany	Gas phase coating of aerosol nanoparticles with SiOx in a DBD plasma at atmospheric pressure Patrick Post, Clausthal University of Technology, Germany	
11:10	Discrete element analysis of the shear behaviour of partially wet granular material Haithem Louati, École des Mines d'Albi, France	Micromechanics and Energy Dissipation of Pharma- ceutical Particles at Contact Alexander Russell,Otto-von- Guericke-University Magdeburg, Germany	Influence of Surface Structuring on the Adhesion of Wheat Flour and Wheat Dough Richard-Sebastian Moeller, Karlsruhe Institute of Technology, Germany	Hierarchical composite nanostructures via spray-drying Carsten Schilde, Technical University of Braunschweig, Germany	
11:30	Pore network simulations of superheated steam drying Kieu Hiep Le, Otto-von- Guericke-University Magdeburg, Germany	A new discrete element contact model to simulate the mechanical behaviour of TiO 2-nanoparticle films in humid air Jens Laube, University of Bremen, Germany	Surface modification of particles in a fluidized-bed plasma-enhanced CVD process Axel Binder, BASF SE, Germany	On spray drying of uniform mesoporous silica micro- particles Cordelia Selomulya, Monash University, Australia	
11:50	Modelling and Validation of Spray Drying Process in Pilot-Scale Counter-Current Spray Tower Muzammil Ali, University of Leeds, United Kingdom	Presentation of a New Optical Centrifuge for Particle Adhesion Measurement Johannes Knoll, Karlsruhe Institute of Technology, Germany	Systematic process optimisation of fluid bed coating Andreas van Kampen, University of Hohenheim, Germany	Influence of process condi- tions on the morphology of Maltodextrin agglomerates investigated by 3D X-ray images Reihaneh Pashminehazar, Otto-von-Guericke-University Magdeburg, Germany	

14:00 **Particle interfaces – from molecular structure to macroscopic properties** Prof. Dr.-Ing. Wolfgang Peukert, Friedrich-Alexander University Erlangen-Nürnberg, Germany

	Modelling and Simulation – Grinding	Particles in Contact and Processing – Piko	Interface Controlled Processes – Powder technolgies for additive manufacturing and 3D printing	(Nano)-Structured Materials – Material Properties 1	
14:40	<b>DEM simulation of</b> <b>aggregate crushing</b> Riccardo Artoni, IFSTTAR, France	Rolling, sliding and torsion of micron-sized silica particles: experimental, numerical and theoretical analysis Thomas Weinhart, University of Twente, Netherlands	Laser Sintered Part Surface Simulation of Topography and optimized Alignment Patrick Delfs, University of Paderborn, Germany	Characterization of silver nanoparticle-coated textiles for antibacterial applications Xiaoai Guo, Karlsruhe Institute of Technology, Germany	
5:00	Predicting Milling Performance of Roller Compacted Ribbons by DEM Colin Hare, University of Leeds, United Kingdom	Investigation of contact forces between oxidic sufaces as a function of adsorbate chemistry and temperature under UHV conditions Bastian Mosebach, University of Paderborn, Germany	A process route for the production of filled polymer particles for additive manufacturing Marius Sachs, Friedrich- Alexander University Erlangen- Nürnberg, Germany	Simultaneous Analysis of Hydrodynamic and Optical Properties Using Multi- wavelength Analytical Ultracentrifugation Johannes Walter, Friedrich- Alexander University Erlangen- Nürnberg, Germany	

4

Particles from Renewable Materials	Applications of Particle Technology – Bulk Proper- ties and functional particles	IPROCOM Conference – In silico process modeling for roll compaction
Industrial Product Design of Disperse Systems Jens Uhlemann, Bayer Technology Services GmbH, Germany	Superparamagnetic micro- particles with functional surfaces for substance targeting in water treatment Michael Schneider, Fraunhofer Institute for Silicate Research ISC, Germany	A combined DEM & FEM modelling of powder flow and compaction during roll pressing Luca Orefice, Graz University of Technology, Austria Alon Mazor, École des Mines d'Albi, France
Recycling of Silicon via atomization for Photo- voltaics Supply Chain application Valdiney Domingos, Viridis.iQ GMBH, Germany	General Framework to Predict Segregation Behavior in Multi-compo- nent and Multi-Mechanism Materials Kerry Johanson, Material Flow Solutions Inc, USA	Machine learning tools for modelling of powder mixing Varun Kumar Ojha, Technical University of Ostrava, Czech Republic Serena Schiano, University of Surrey, United Kingdom
Murtala Muhammad Abdulmumini, University of	How to improve classical flowability tests to meet current requirements of industries Geoffroy Lumay, University of Liège, Belgium	Roll Compaction: The impact of system design and Scale up Kitti Csordas, Ana Pérez Gago, both Heinrich-Heine-University Düsseldorf, Germany
Investigation of segregated fines during the filling operation of biomass materials in large scale Lahiru Lakshan Lulbadda Waduge, University of Greenwich, United Kingdom	The role of inorganic salts on the structure and functional properties of detergent powders Amin Farshchi, University of Leeds, United Kingdom	Feature selection techniques for Roll Compaction Hossam Zawbaa, Babes-Bolyai University, Romania Lucía Pérez Gandarillas, École des Mines d'Albi, France Serena Schiano, University of Surrey, United Kingdom
Properties and quality system for granular biomass Mateusz Stasiak, Institute of Agrophysics Polish Academy of Sciences, Poland	Multifunctional nano- particles for targeted theranostics Fabian Starsich, ETH Zurich, Switzerland	Multiscale modelling of ribbon Milling: a DEM-PBM framework Simone Loreti, University of Surrey, United Kingdom Andreja Mirtič, AstraZeneca, United Kingdom
Particles from Renewable Materials	Applications of Particle Technology – Separation Processes	IPROCOM Conference – In silico process modeling for roll compaction
Single biofuel pellet dura- bility characterization with predictive ability for stand- ard bulk method results Sylvia Larsson, Swedish University of Agricultural Sciences, Sweden	Highly Efficient Filtration of Ultrafine Dust Emitted by Biomass Combustions With Baghouse Filter Using Precoat Material Sascha Schiller, University of Paderborn, Germany	The impact of roll compaction process on die filling and die compaction Lucía Pérez Gandarillas, École des Mines d'Albi, France Serena Schiano, University of Surrey, United Kindom
Chitosan based nano- particles for adsorption of micropollutants Benjamin Riegger, University of Stuttgart, Germany	Separation characteristics of a deflector wheel classification during stationary conditions Christian Spötter, Clausthal University of Technology, Germany	DEM modelling of powder flow & powder-filling during die compaction Raphael Schubert, Fraunhofer Institute for Mechanics of Materials IWM, Germany Zilin Yan, Johnson Matthey Plc, United Kingdom
	MaterialsIndustrial Product Design of Disperse Systems Jens Uhlemann, Bayer Technology Services GmbH, GermanyRecycling of Silicon via atomization for Photo- voltaics Supply Chain application Valdiney Domingos, Viridis.iQ GMBH, GermanyComparative method of investigating the resistance of biomass pellets degrada- tion through repeated impact Murtala Muhammad Abdulmumini, University of Greenwich, United KingdomInvestigation of segregated fines during the filling operation of biomass materials in large scale Lahiru Lakshan Lulbadda Waduge, University of Greenwich, United KingdomProperties and quality system for granular biomass Mateusz Stasiak, Institute of Agrophysics Polish Academy of Sciences, PolandParticles from Renewable MaterialsSingle biofuel pellet dura- bility characterization with predictive ability for stand- ard bulk method results sylvia Larsson, Swedish University of Agricultural Sciences, SwedenChitosan based nano- particles for adsorption of micropollutants Benjamin Riegger, University	MaterialsTechnology – Bulk Proper- ties and functional particlesIndustrial Product Design of Disperse Systems Jens Uhlemann, Bayer Technology Services GmbH, GermanySuperparamagnetic micro- particles with functional surfaces for substance traces for substance to Nulti-compo- nent and Multi-Mechanism Materials Kerry Johanson, Material Flow Solutions Inc, USAComparative method of investigating the resistance of biomass pallets degrad- tion through repeated impact Abdulmumini, University of Greenwich, United KingdomHow to improve classical flowability tests to meet coeffroy Lumay, University of Lieg, BelgiumInvestigation of segregated fines during the filling operation of biomass materials in large scale Lahiru Laksaha Lulbadda Waduge, University of Greenwich, United KingdomThe role of inorganic salts on the structure and functional properties of detinged min Farshchi, University of Leeds, United KingdomProperties and quality system for granular biomass Mateusz Stasiak, Institute of Agrophysics Polish Academy of Sciences, PolandMultifunctional nano- particles for targeted theranostics Fabian Starsich, ETH Zurich, SwitzerlandSingle biofuel pellet dura- bilty characterization with predictive ability for stand- ard bulk method results Sylvia Larsson, Swedish University of Agri



# Tuesday, April 19, 2016

	Modelling and Simulation – Grinding	Particles in Contact and Processing – Piko	Interface Controlled Processes – Powder technolgies for additive manufacturing and 3D printing	(Nano)-Structured Materials – Material Properties 1
5:20	Analysis of Fluid-Particle- Wall Interactions in a Spiral Jet Mill Selasi Dogbe, University of Leeds, United Kingdom	Sintering of polymer particle – Experiments and modelling of temperature- and time- dependent contacts Regina Fuchs, Max Planck Institute for Polymer Research, Germany	Production of polymer particles by melt emulsifi- cation for additive manu- facturing processes Stephanie Fanselow, Friedrich- Alexander University Erlangen- Nürnberg, Germany	Impact of optical property on the photocatalytic activity of aggregates Hoai Nga Le, Dresden University of Technology, Germany
:40	Coffee Break	·		
	Modelling and Simulation – Fluidized Beds	Particles in Contact and Processing – Piko – Capillary Forces	Particles and Energy	(Nano)-Structured Materials – Material Properties 2
6:10	Process control of continuous fluidized bed layering with internal product classification by MPC Andreas Bück, Otto-von- Guericke-University Magdeburg, Germany	Adhesive forces on rough hydrophobic surfaces – Modelling of force distributions Jörg Fitzsche, Freiberg University of Technology, Germany	Influence of three- dimensional electrode microstructure on the performance of lithium-ion batteries Michael Kespe, Karlsruhe Institute of Technology, Germany	Automated synthesis of CdSe quantum dot nano- crystals for reproducibility studies and unique insights to process-structur Ahmed Mahmoud Salaheldin, Friedrich-Alexander University Erlangen-Nürnberg, Germany
5:30	CFD simulation of the hydrodynamics of fluidized beds operated under reduced pressure Sayali Zarekar, Otto-von- Guericke-University Magdeburg, Germany	Development of new Analysis Methods for the Characterization and Classification of Wet Sticky Ores Jens Plinke, University of Newcastle, Australia	The role of Power Techno- logy in Thermal energy storage – a challenge across tens of orders of magnitude Yulong Ding, University of Birmingham, United Kingdom	The effects of chemical components distribution and particle structure on dissolution kinetics Patricia Andreu, University of Birmingham, United Kingdom
5:50	Investigation of heat trans- fer in packed/fluidized beds resolved by an implicit 3D finite difference approach Tobias Oschmann, Ruhr Uni- versity Bochum, Germany	Simultaneous measurement of capillary force and shape of the capillary bridges between a particle and a liquid film Frank Schellenberger, Max Planck Institute for Polymer Research, Germany	DEM Simulation of Lithium- ion battery electrodes with tailored active material particle size Clara Sangrós, Technical University of Braunschweig, Germany	Characterization and prediction of random structured granules: structure measures and property functions Julia Harnacke, University of Hohenheim, Germany
7:10	Multiscale simulation of the fluidized bed granulation in a Wurster coater apparatus Maksym Dosta, Hamburg University of Technology, Germany		The recycling of Li-ion batteries from electric vehicles – methodological approaches of Mechanical Engineering Lutz Wuschke, Technical University Bergakademie Freiberg, Germany	High-Speed Dynamic Image Analysis for Food and Fibre Applications Wolfgang Witt, Sympatec GmbH, Germany

### 17:30 Poster Presentation Visit

#### 19:00 Get together

In a relaxed atmosphere with pretzels and beer all participants can discuss the topics of the first conference day and establish new contacts. The Get together is included in the delegate fee.

## **Supporting Organisations**



International Association for Pharmaceutical Technology (APV), Germany



The Chinese Academy of Sciences (CAS), China



German Association of Biotechnology Industries (DIB), Germany



Deutsche Keramische Gesellschaft (DKG), Germany



Deutscher Schüttgut-Industrie Verband (DSIV), Germany



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



Association for Aerosol Research (GAeF), Germany

•

6

Particles from Ren Materials	ewable	Applications of Particle Technology – Separation Processes	IPROCOM Conference – In silico process modeling for roll compaction	
Processing and inv tion of carbohydra polymers for the e tion by spray-dryin Michael Walz, Unive Stuttgart, Germany	ate-based encapsula- ng	Determination of surface properties and dispersibility of NPs by means of sedimentation analysis Sebastian Süß, Friedrich- Alexander University Erlangen- Nürnberg, Germany	CI for solid dosage forms: modeling milling and die compaction processes Hassan Khalid, Pezhman Kazemi, both Jagiellonian University, Poland	
(Nano)-Structured Materials – Measu Technology		Applications of Particle Technology – High Temperature Processes	Modelling and Simulation	
Analytical Centrifu and Direct Bounda Modelling as a Ne Generation Tool fo rate Particle Size A Johannes Walter, Fri Alexander University Nürnberg, Germany	ary xt or Accu- Analysis iedrich- / Erlangen-	Oxide particles production by low-voltage/low-current cathode plasma electrolysis Alexander Gromov, Nuremberg Institute of Technology Georg Simon Ohm, Germany	A hard-sphere model for DEM-simulations Boris Balakin, University of Bergen, Norway	
New insight into concentrated micr nanodispersions b concentration pro- Dietmar Lerche, LUN Germany	o- and y X-ray filing	APPtec – a new generation of spray pyrolysis technology Lars Leidolph, Glatt Ingenieur- technik GmbH, Germany	Effect of Particle Shape on Bulk Particle Motion in Discrete Element Simulations Mehrdad Pasha, University of Leeds, United Kingdom	
Continuous synthe in situ SAXS analy nanoparticles in lie phase Manuel Meier, Karls Institute of Technolo Germany	<b>sis of</b> quid ruhe	Plasma Compatiubility of Particles for Functional PVD-coatings by ex-situ Injection Uwe Beck, BAM Federal Institute for Materials Research and Testing, Germany	Simulation of Impact Breakage of Weak Agglomerates by Distinct Element Method Tina Bonakdar, University of Leeds, United Kingdom	
Photon Cross-Corr Spectroscopy for o Particle Size Analy Helmut Geers, Symp GmbH, Germany	on-line vsis	Antibacterial and photo- catalytic activity of nano- coatings generated by Liquid Flame Spray Janne Haapanen, Tampere University of Technology, Finland	Mechanistic Modeling of Capsule Filling Processes Peter Loidolt, Graz University of Technology, Austria	
VDI	VDI Socie	ety Chemical and Process Engine	ering (VDI-GVC), Germany	
A1 Ch E	AIChE's F	Particle Technology Forum (AIChE	's PTF), USA	
	ProcessN	ProcessNet – eine Initiative von DECHEMA und VDI-GVC, Germany		
ChemE	IChemE's Particle Technology Special Interest Group (PTSIG), United Kingdom			

