

LIST OF PAPERS: PGBSIA 2016

SL NO	PAPER NO	PAPER DETAILS	REMARKS/STATUS
INVITED/KEYNOTE PAPERS			
1	I1	<p style="text-align: center;">Advanced on-line techniques for complex particle and particle system characterization</p> <p style="text-align: center;">Giuseppe Bonifazi Department of Chemical Engineering, University of Rome, Italy</p>	Accepted for oral presentation
2	I2	<p style="text-align: center;">Pneumatic Conveying: Where are we now and where are we going?</p> <p style="text-align: center;">Mike Bradley Faculty of Engineering and Science, University of Greenwich, UK</p>	Accepted for oral presentation
3	I3	<p style="text-align: center;">Particle Engineering for Pharmaceutical Applications</p> <p style="text-align: center;">Rajesh Dave Department of Chemical, Biological and Pharmaceutical Engineering, New Jersey Institute of Technology, USA</p>	Accepted for oral presentation
4	I4	<p style="text-align: center;">Dust explosions. Prevention and Protection</p> <p style="text-align: center;">Álvaro Ramírez-Gómez Department of Mechanical, Chemical and Industrial Design Engineering, Technical University of Madrid, Spain</p>	Accepted for oral presentation
5	I5	<p style="text-align: center;">Pneumatic and Hydraulic Conveying – What Do They Have in Common?</p> <p style="text-align: center;">Haim Kalman Department of Mechanical Engineering, Ben Gurion University, Israel</p>	Accepted for oral presentation
6	I6	<p style="text-align: center;">Pelletization of Iron Ore</p> <p style="text-align: center;">S. Komar Kawatra Department of Chemical Engineering, Michigan Technological University, USA</p>	Accepted for oral presentation
7	I7	<p style="text-align: center;">Discrete Element Modeling and the Technology Adoption Curve for Computer-Aided Engineering Software</p>	Accepted for oral presentation

		<p align="center">Richard LaRoche CEO, DEM Solutions Ltd, UK</p>	
8	I18	<p align="center">From discrete particle simulations towards continuum theory and applications in transport and segregation</p> <p align="center">Stefan Luding Faculty of Engineering and Technology, University of Twente, The Netherlands</p>	Accepted for oral presentation
9	I19	<p align="center">A dilation driven vortex in dense granular materials, and its effect on rheometry</p> <p align="center">Prabhu Nott Chemical Engineering Department, IISc Bangalore, India</p>	Accepted for oral presentation
10	I10	<p align="center">Identification of Particulate Metal Oxides Using Energy-resolved Distribution of Electron Traps Measured by Reversed Double-beam Photoacoustic Spectroscopy</p> <p align="center">Bunsho Ohtani Institute for Catalysis, Hokkaido University, Japan</p>	Accepted for oral presentation
11	I11	<p align="center">Application of Mesoscale Discrete Element Method for Bulk Solids Handling Processes</p> <p align="center">Jin Y. Ooi Institute for Infrastructure & Environment, School of Engineering, University of Edinburgh</p>	Accepted for oral presentation
12	I12	<p align="center">Powder technologies for 3D printing</p> <p align="center">Wolfgang Peukert Institute of Particle Technology, University of Erlangen, Germany</p>	Accepted for oral presentation
13	I13	<p align="center">Pneumatic conveying system design and optimisation through system simulations; Industrial applications & implementations</p> <p align="center">Chandana Ratnayake Tel-Tek Institute, Norway</p>	Accepted for oral presentation
14	I14	<p align="center">Topic: Yet to be decided</p> <p align="center">Jurgen Thomas (to be presented by Alexander Russel) Mechanical Process Engineering, Otto von Guericke University of Magdeburg, Germany</p>	Accepted for oral presentation
15	I15	<p align="center">Advanced discrete element simulation for industrial applications</p>	Accepted for oral presentation

		<p style="text-align: center;">Mikio Sakai Department of Nuclear Engineering and Management, The University of Tokyo, Japan</p>	presentation
16	I16	<p style="text-align: center;">Dust, The Final Frontier</p> <p style="text-align: center;">Peter Wypych School of Mechanical, Materials and Mechatronics Engineering, University of Wollongong, Australia</p>	Accepted for oral presentation
17	I17	<p style="text-align: center;">Thermomechanical Analysis of Compaction of Pharmaceutical Powders</p> <p style="text-align: center;">Chuan-Yu Wu Department of Chemical and Process Engineering, University of Surrey, UK</p>	Accepted for oral presentation
18	I18	<p style="text-align: center;">Technical address by Platinum Sponsor</p> <p style="text-align: center;">Mercury Lab B.V. University of Twente, The Netherlands http://www.mercurylab.org/</p>	Accepted for oral presentation
PAPERS			
19	P1	<p style="text-align: center;">Hybrid Eulerian/Lagrangian Simulation of Agglomeration in in Gas-Solid Cyclones</p> <p style="text-align: center;">Stefan Pirker¹, Stefan Puttinger¹ and Simon Schneiderbauer^{1,2} ¹Department of Particulate Flow Modelling, Johannes Kepler University, 4040 Linz, Austria ²CD-Lab of Multi-scale Modelling of Multiphase Flows, Johannes Kepler University, 4040 Linz, Austria</p>	Accepted for oral presentation
20	P2	<p style="text-align: center;">Modeling and Analysis of Solids Friction Factor for Fluidized Dense Phase Conveying Through Long Pipelines</p> <p style="text-align: center;">Shijo J. S., Niranjana Behera VIT University, Vellore, Tamilnadu-632014, India</p>	Accepted for oral presentation
21	P3	<p style="text-align: center;">A Study of Principle Stress Rotation on Granular Soils Using DEM Simulation of Hollow Cylinder Test</p> <p style="text-align: center;">Benyamin Farhang, Ali Asghar Mirghasemi School of Civil Engineering, College of Engineering, University of Tehran, Tehran, Iran</p>	Accepted for oral presentation
22	P4	<p style="text-align: center;">A Novel One-Dimensional Particle Breakage Algorithm for Conveying Systems</p>	Accepted for oral presentation

		<p align="center"><u>Avi Uzi</u>¹, Haim Kalman¹ and Avi Levy¹</p> <p align="center">¹Department of Mechanical Engineering, Ben-Gurion University of the Negev, Be'er Sheva 8410501, Israel</p>	
23	P5	<p align="center">One-Dimensional Erosion Modeling for Conveying Pipelines</p> <p align="center"><u>Avi Uzi</u>¹, Yaron Ben Ami¹ and Avi Levy¹</p> <p align="center">¹Department of Mechanical Engineering, Ben-Gurion University of the Negev, Be'er Sheva 8410501, Israel</p>	Accepted for oral presentation
24	P6	<p align="center">On the Effects of Solid Phase on Gas Flow over a 2D Cylinder - A DSMC Study</p> <p align="center">Arun Kumar C., Malaikannan G., Rakesh Kumar</p> <p align="center">Indian Institute of Technology Kanpur, Uttar Pradesh, India - 208016</p>	Accepted for oral presentation
25	P7	<p align="center">Recurrence CFD – A novel technique to speed up simulations of multiphase flows covering multiple time scales</p> <p align="center"><u>Thomas Lichtenegger</u>¹ and Stefan Pirker¹</p> <p align="center">¹Department of Particulate Flow Modelling, Johannes Kepler University, Linz, Austria</p>	Accepted for oral presentation
26	P8	<p align="center">Dynamic Drying Characteristics for Uniform and Binary Solid Mixtures in a Continuous Wall Heated Fluidized Bed Dryer</p> <p align="center"><u>G Srinivas</u>¹ and Y Pydi Setty²</p> <p align="center">^{1,2} Department of Chemical Engineering, National Institute of Technology Warangal, Warangal - 506004, India</p>	Accepted for oral presentation
27	P9	<p align="center">The effect of converging vortex finders on the performance of cyclone separators</p> <p align="center">V. Kumar^a, L. S. Brar^{b*}, K. Jha^a</p> <p align="center">^aMechanical Engineering Department, Indian School of Mines, Dhanbad, India</p> <p align="center">^{b*}Mechanical Engineering Department, Birla Institute of Technology, Mesra, Ranchi-835215, India</p>	Accepted for oral presentation
28	P10	<p align="center">Improved Validated Scale-up Modelling for Fluidized Dense-Phase Pneumatic Conveying of Powders</p> <p align="center"><u>S.S.Mallick</u> and Gautam Setia</p> <p align="center">Department of Mechanical Engineering, Thapar University, Patiala 147004, India</p>	Accepted for oral presentation
29	P11	<p align="center">Investigation into Pressure Signal Fluctuations during Fluidized Dense-Phase Pneumatic Conveying of Powders</p> <p align="center">A. Mittal</p> <p align="center">Department of Mechanical Engineering, Thapar University, Patiala 147004, India</p>	Accepted for oral presentation

30	P12	<p>Experimental Investigation on Drying Characteristics of Geldart Group B and Group D Particles in a Fluidized Bed Dryer</p> <p><u>D Yogendrasasidhar</u>¹, <u>G Srinivas</u>² and <u>Y Pydi Setty</u>³ ^{1,2,3} Department of Chemical Engineering, National Institute of Technology Warangal, Warangal - 506004, India</p>	Accepted for oral presentation
31	P13	<p>Modelling Cohesion in Fine Powders by using Powder Physical Properties</p> <p>Lokesh Rohilla *, Kathi Tejaswi and <u>Gautam Setia</u> Department of Mechanical Engineering, Thapar University, Patiala, Punjab-147004, India</p>	Accepted for oral presentation
32	P14	<p>Numerical Investigation of Particle Velocity and its Influence on Modelling Pressure Drop during Fluidized Dense Phase Gas-Solids Transport of Fine Powders</p> <p><u>Baldeep Kaur</u>¹, <u>Anu Mittal</u>², <u>Peter Wypych</u>³, <u>S.S.Mallick</u>² and <u>Soumendu Jana</u>¹</p> <p>¹School of Physics and Materials Science, Thapar University, Patiala, Punjab-147004, India ²Department of Mechanical Engineering, Thapar University, Patiala, Punjab-147004, India ³Faculty of Engineering and Information Sciences, University of Wollongong, NSW-2522, Australia</p>	Accepted for oral presentation
33	P15	<p>Experimental and simulation of torque values of large and small particle size powders in Anton Paar Powder Cell using a commercial DEM simulation software</p> <p>Hamid Salehi¹, Daniele Sofia¹, Haifeng Lu², Denis Schutz³, Diego Barletta¹, Massimo Poletto^{1*} ¹Department of Industrial Engineering, University of Salerno, Via Giovanni Paolo II, 132, I-84084 Fisciano (SA), Italy, *Email: mpoletto@unisa.it ²Key Laboratory of Coal Gasification and Energy Chemical Engineering of Ministry of Education, Institute of Clean Coal Technology, East China University of Science and Technology, Shanghai 200237, PR China ³Development Rheometry, Anton Paar GmbH, Anton Paar Strasse 20, Graz, Austria</p>	Accepted for oral presentation
34	P16	<p>Modelling Solids Friction for Gas-Solids Flow through Bends</p> <p>Atul Sharma and S. S. Mallick Department of Mechanical Engineering, Thapar University, Patiala 147004, India</p>	Accepted for oral presentation
35	P17	<p>Breaking of Anisotropic Rod-Shaped Particles</p>	Accepted for oral presentation

		<p style="text-align: center;">V. Penkavova^{1*}, L. Kulaviak¹, M.C. Ruzicka¹, M. Puncochar¹, P. Zamostny²</p> <p>¹Department of Multiphase Reactors, Institute of Chemical Process Fundamentals, Czech Academy of Sciences, Prague, Czech Republic, www.icpf.cas.cz</p> <p>²Department of Organic Technology, University of Chemistry and Technology, Prague, Czech Republic</p>	presentation
36	P18	<p style="text-align: center;">An experimental and theoretical investigation of TiO₂ powders flow properties changes with temperature</p> <p style="text-align: center;"><u>Domenico Macri</u>⁽¹⁾, Massimo Poletto⁽²⁾, Diego Barletta⁽²⁾, Stephen Sutcliffe⁽³⁾, Paola Lettieri⁽¹⁾</p> <p>⁽¹⁾ Department of Chemical Engineering, University College London, Torrington Place, London WC1E 7JE, UK</p> <p>⁽²⁾ Dipartimento di Ingegneria Industriale, Università degli Studi di Salerno, Via Ponte Don Melillo, 84084 Fisciano (SA), Italy</p> <p>⁽³⁾ Huntsman Pigments and Additives, Wynyard Park, Stockton-on-Tees, TS22 5FD, UK</p>	Accepted for oral presentation
37	P19	<p style="text-align: center;">Drying of Coriander Seeds in a Wall Heated Fluidized Bed Dryer</p> <p style="text-align: center;"><u>M Vamshi Krishna</u>, G Srinivas and Y Pydi Setty</p> <p style="text-align: center;">Department of Chemical Engineering, National Institute of Technology Warangal, Warangal – 506004, India</p>	Accepted for oral presentation
38	P20	<p style="text-align: center;">Hydrocyclone classifier to beneficiate Kaolin clay</p> <p style="text-align: center;">Vivek Velturi¹ and Giri Dharan¹ B.Pitchumani², Vikram golcha³</p> <p style="text-align: center;">1Golcha Global Solutions, Jaipur, India.</p> <p style="text-align: center;">²Department of Chemical Engineering, I.I.T, Delhi, India.</p> <p style="text-align: center;">³Associated Soapstone, Jaipur</p>	Accepted for oral presentation
39	P21	<p style="text-align: center;">Granule Breakage in a Controlled Shear Field</p> <p style="text-align: center;"><u>Narendra Akiti</u>¹, Karen Hapgood² and Devang Khakhar³</p> <p style="text-align: center;">¹IITB-Monash Research Academy, IIT Bombay, Mumbai, India</p> <p style="text-align: center;">²Department of Chemical Engineering, Monash University, Melbourne, Australia</p> <p style="text-align: center;">³Department of Chemical Engineering, IIT Bombay, Mumbai, India</p>	Accepted for oral presentation
40	P22	<p style="text-align: center;">The relevance of surface impurities on the effect of temperature on powder flow behavior</p> <p style="text-align: center;">R. Chirone¹, D. Barletta², M. Poletto² and <u>P. Lettieri</u>¹</p>	Accepted for oral presentation

		<p>¹Department of Chemical Engineering, University College London - Torrington Place - London WC1E 7JE - UK</p> <p>²Dipartimento di Ingegneria Industriale, Università degli Studi di Salerno - Via Giovanni Paolo II, 132 - 84084 Fisciano (SA) - Italy</p>	
41	P23	<p>DRY BENEFICIATION OF MINERAL IN CYCLONIC CLASIFIER</p> <p>Amit Sharma¹, B.Pitchumani², Vikram golcha³ ¹Golcha Global Solutions, Jaipur, India. ²Department of Chemical Engineering, I.I.T, Delhi, India. ³Associated Soapstone, Jaipur</p>	Accepted for oral presentation
42	P24	<p>Analyses of dust emission in bulk material handling apparatuses by DEM-CFD: Basics, approaches & prospects</p> <p><u>Christoph Grübler</u>¹, Franz Kessler¹, Michael Prenner¹ und Thomas Sommer¹ ¹Department Product Engineering - Chair of conveying technology and design methods, Montanuniversität Leoben, 8700 Leoben, Austria e-m@il: christoph.gruebler@unileoben.ac.at</p>	Accepted for oral presentation
43	P25	<p>Effect of gum arabic, bamboo fiber and cactus cladode mucilage on physicochemical and antioxidant properties of orange pulp powder</p> <p>Consuelo Pacheco¹, Juliana Piña¹, Mónica Nazareno², Eva García-Martínez³, Gemma Moraga³ and Nuria Martínez-Navarrete³ ¹Planta Piloto de Ingeniería Química (UNS – CONICET), Bahía Blanca 8000, Argentina ²Centro de Investigación y Transferencia de Santiago del Estero (UNSE – CONICET), Santiago del Estero 4200, Argentina. ³Departamento de Tecnología de Alimentos, Universitat Politècnica de València, Valencia 46022, Spain</p>	Accepted for oral presentation
44	P26	<p>Comparison of Mechanical Properties of Ground Corn stover, Switchgrass, and Willow and their Pellet Qualities</p> <p><u>Apoorva Karamchandani</u>¹, Hojae Yi¹, and Virendra M. Puri¹ ¹Department of Agricultural and Biological Engineering, the Pennsylvania State University, University Park, PA, 16802 USA</p>	Accepted for oral presentation
45	P27	<p>Compressibility of Breakable Materials</p> <p>V. Penkavova^{1*}, L. Kulaviak¹, M.C. Ruzicka¹, J. Havlica¹, M. Puncochar¹, M. Schongut², Z. Grof², F. Stepanek², P. Zamostny³ ¹Department of Multiphase Reactors, Institute of Chemical Process Fundamentals, Czech Academy of Sciences, Prague, Czech Republic, www.icpf.cas.cz</p>	Accepted for oral presentation

		² Department of Chemical Engineering, University of Chemistry and Technology, Prague, Czech Republic ³ Department of Organic Technology, University of Chemistry and Technology, Prague, Czech Republic	
46	P28	Size Segregation of Binary Granular Mixtures Flowing over Inclined Plane Anurag Tripathi¹ and Mohit Nema¹ ¹ Department of Chemical Engineering, IIT Kanpur, Kanpur 208016, India	Accepted for oral presentation
47	P29	Initial acceleration pressure drop in dilute phase pneumatic conveying system Naveen Mani Tripathi, Avi Levy and Haim Kalman Department of Mechanical Engineering, Ben-Gurion University of the Negev, Beer-Sheva, 8410501, Israel	Accepted for oral presentation
48	P30	A case study on implication of stipulation by Ministry of Environment and Forest (MOEF) on selection of Ash conveying system in coal fired Power Plants in India Debashish De Development Consultants Pvt Ltd, Kolkata, India	Accepted for oral presentation
49	P31	An overview of dynamic analysis of conveyors Dipta Sundar Mallick Development Consultants Pvt Ltd, Kolkata, India	Accepted for oral presentation
50	P32	Numerical Study of powder compaction under monotonic and cyclic loading Olukayode I. Imole¹, Steph J. Bredenhann², Vanessa Magnanimo¹ and Stefan Luding¹ ¹ MultiScale Mechanics, Faculty of Engineering Technology, MESA+, P.O. Box 217, 7500AE, Enschede, The Netherlands ² Faculty of Civil Engineering and Geosciences Section Structural Mechanics, Delft University of Technology, Delft, The Netherlands	Accepted for oral presentation
51	P33	A Feasibility Study of Online Monitoring Techniques for Scale Deposition Thickness in Pneumatic Conveying Pipelines Ingrid B. Haugland¹, Jana Chladek¹ and Maths Halstensen² ¹ Department of Powder Technology, Tel-Tek, Kjølnes ring 30, N-3918 Porsgrunn, Norway ² Faculty of Technology, University College of Southeast Norway, P.O Box 203 N-3901 Porsgrunn, Norway	Accepted for oral presentation
52	P34	Polymorphism, Particle Formation Pathways and Long Term Colloidal Stability of Curcumin Particles Precipitated by Liquid Antisolvent Technique	Accepted for oral presentation

		<p style="text-align: center;">Sameer V. Dalvi Chemical Engineering, IIT Gandhinagar, Palaj, Gandhinagar, Gujarat -382355</p>	
53	P35	<p style="text-align: center;">Role of softness and cohesion in rheology of granular flows</p> <p style="text-align: center;">Sudeshna Roy, Stefan Luding and Thomas Weinhart Multi Scale Mechanics (MSM), Faculty of Engineering Technology, MESA+, University of Twente, Enschede, The Netherlands</p>	Accepted for oral presentation
54	P36	<p style="text-align: center;">Bulk properties of the instant beverages powders as the function of quality of the powders</p> <p style="text-align: center;">^{a,b}Tomas Sverak, aOndrej Kristof, aPavel Bulejko, aPavel Kejik and aKaterina Mayerova ^a Faculty of Mechanical Engineering, Laboratory Brno University of Technology, Technicka 2896/2, 616 00 Brno, Czech Republic ^b Faculty of Chemistry, Brno University of Technology, Purkynova 464/118, 612 00 Brno, Czech Republic</p>	Accepted for oral presentation
55	P37	<p style="text-align: center;">Three-dimensional Lagrangian simulation for a solid-liquid flow in a chemical engineering process</p> <p style="text-align: center;">Kazuya Takabatake¹ and Mikio Sakai² ¹Department of Nuclear Engineering and Management, the University of Tokyo, Japan ²Resilience Engineering Research Center, the University of Tokyo, Japan</p>	Accepted for oral presentation
56	P38	<p style="text-align: center;">Numerical Evaluation on Inertial Migration and Ordering of Rigid Particles in Microchannels</p> <p style="text-align: center;">Hirotake Udono¹ and Mikio Sakai² ¹Nuclear Engineering and Management, School of Engineering, University of Tokyo, Japan ²Resilience Engineering Research Centre, School of Engineering, University of Tokyo, Japan</p>	Accepted for oral presentation
57	P39	<p style="text-align: center;">Coupled CFD-DEM study on the heat transfer characteristics of a multi component packed bed</p> <p style="text-align: center;">Joel Martis¹ and Ratna Kumar Annabattula¹ ¹Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai 600036, India</p>	Accepted for oral presentation
58	P40	<p style="text-align: center;">Evolution of contact anisotropy in a granular assembly</p> <p style="text-align: center;">Akhil Vijayan Panicker*, Ratna Kumar Annabattula* *Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, Tamil Nadu, 600036</p>	Accepted for oral presentation
59	P41	<p style="text-align: center;">Silo Discharge Analysis on a Wide Range of Biomass Materials</p>	Accepted for oral presentation

		<p style="text-align: center;">Magnus Rudolfsson¹, Massimo Poletto², Diego Barletta², <u>Sylvia H. Larsson¹</u></p> <p>¹Department of Forest Biomaterials and Technology, Swedish University of Agricultural Sciences, Skogsmarksgränd, SE-90183 Umeå, Sweden.</p> <p>² Department of Industrial Engineering, University of Salerno, Via Giovanni Paolo II 132, 84084 Fisciano (SA), Italy</p>	presentation
60	P42	<p style="text-align: center;">Coupling Resolved and Coarse Grain DEM Models</p> <p style="text-align: center;"><u>Daniel Queteschner¹</u>, Thomas Lichtenegger¹, Simon Schneiderbauer¹ and Stefan Pirker¹</p> <p>¹Department of Particulate Flow Modelling, Johannes Kepler University Linz, 4040 Linz, Austria</p>	Accepted for oral presentation
61	P43	<p style="text-align: center;">Review of Impact Erosion of Pneumatic Transportation Pipelines</p> <p style="text-align: center;">Mahesh Ediriweera¹, Chandana Ratnayake^{1,2} and Jana Chladek¹</p> <p>¹Dept. of Powder Technology, Tel-Tek, Kjølnes ring 30, N-3918 Porsgrunn, Norway</p> <p>²Faculty of Technology, University College of Southeast Norway, P.O Box 203 N-3901 Porsgrunn, Norway</p>	Accepted for oral presentation
62	P44	<p style="text-align: center;">Computational Fluid Dynamic investigation on transition of Geldart powders from group A to B</p> <p style="text-align: center;">Priya C. Sande¹ and <u>Saumi Ray²</u></p> <p>¹Faculty of Chemical Engineering, Birla Institute of Technology and Science, Pilani, 333031, India</p> <p>²Faculty of Chemistry, Birla Institute of Technology and Science, Pilani, 333031, India</p>	Accepted for oral presentation
63	P45	<p style="text-align: center;">The Torque Tester for Examining Granular Biomass</p> <p style="text-align: center;"><u>Mateusz Stasiak</u> and Marek Molenda</p> <p>Institute of Agrophysics, Polish Academy of Sciences, Doświadczalna Str. 4, 20290 Lublin, Poland</p>	Accepted for oral presentation
64	P46	<p style="text-align: center;">Discharge of cohesive particles through an orifice in a rectangular silo</p> <p style="text-align: center;">Ashish Bhateja¹ and Devang V. Khakhar¹</p> <p>¹Department of Chemical Engineering, IIT Bombay, Powai, Mumbai 400076, India</p>	Accepted for oral presentation
65	P47	<p style="text-align: center;">Influence of scavenging and dust cake filtration in the collection of nanoparticles from flue gases</p> <p style="text-align: center;"><u>Thaseem Thajudeen</u>, Maximilian Domaschke, Henning Förster, and Wolfgang Peukert</p> <p>Institute of Particle Technology, Friedrich-Alexander-University, Erlangen, Germany</p>	Accepted for oral presentation
66	P48	<p style="text-align: center;">Characterization of non-spherical nanoparticles dispersed in aerosol and colloidal systems</p>	Accepted for oral presentation

		Thaseem Thajudeen, Rubitha Srikantharajah, Christian Lübbert, Johannes Walter and Wolfgang Peukert Institute of Particle Technology, Friedrich-Alexander-University, Erlangen, Germany	presentation
67	P49	Selecting Optimum Number of Drives for a Long Distance Conveyor Niteesh Dua¹ and D.S. Mallick² ¹ Department of Mechanical Engineering, Thapar University, Patiala, India ² Development Consultants Private Limited, Kolkata, India	Accepted for oral presentation
68	P50	Gravity Reclaim Stockpiles: What you Need to Know Francisco Cabrejos Marín Jenike and Johanson Chile S. A., Avda. Libertad 798 - Of. 501 Viña del Mar, Chile	Accepted for oral presentation
69	P51	Parametric Study of Specularity Coefficient and Restitution Coefficient on the Hydrodynamics of Bubbling Fluidized Bed Bhaskara Rao Bhogadi and C. Veeramani Department of Chemical Engineering, Indian Institute of Technology Roorkee, Roorkee 247667, India	Accepted for oral presentation
70	P52	Velocity Autocorrelations in Granular Gas of Viscoelastic Particles Shikha Kumari¹ and Syed Rashid Ahmad¹ ¹ Department of Physics, Jamia Millia Islamia (Central University), New Delhi 110025, India	Accepted for oral presentation
71	P53	Improving the wettability of ibuprofen drug using co-milling technique Sophia Varghese and Chinmay Ghoroi * DryProTech Lab, Chemical Engineering, Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar – 382355, Gujarat, India	Accepted for oral presentation
72	P54	Influence of Nanoscale Roughness on Surface Energy and Wettability of Surface Modified Glass Beads Deepa Dixit and Chinmay Ghoroi* DryProTech Lab. Chemical Engineering, Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar, Gujarat-382355, India	Accepted for oral presentation
73	P55	Flow Improvement of Fine Propellant Powder Using Nano Additives	Accepted for oral presentation

		<p>Kritika Dixit^a, Sophia Varghese^a, Ashish Jauhari^b, S.C. Bhattacharyya^b, Chinmay Ghoroi^{a*} ^aDryProTech Lab., Chemical Engineering, Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar -382355, Gujarat, India. ^bAdvanced Centre for Energetic Materials, DRDO, Nasik, 422009</p>	presentation
74	P56	<p>Influence of Nano and Micron Size Additives Towards Stabilization of β-C₂S Phase through Solid State Reaction</p> <p>Sanat Chandra Maiti, Chinmay Ghoroi* DryProTech Lab., Chemical Engineering, Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar – 382355, Gujarat ,India</p>	Accepted for oral presentation
75	P57	<p>Dust Explosion Modelling: Status and Prospects</p> <p>Trygve Skjold Gexcon AS, Fantoftvegen 38, NO-5072 Bergen, Norway</p>	Accepted for oral presentation
76	P58	<p>Fluidized bed rheology for granular media</p> <p><u>Denis Schütz</u>¹,Elke Riedl¹ ¹Anton Paar GmbH, Graz, Austria</p>	Accepted for oral presentation
77	P59	<p>Modelling granular systems with pebble plasticity using discrete element method</p> <p><u>Raghuram Karthik Desu</u>¹ and Ratna Kumar Annabattula¹ ¹Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai 600036, India</p>	Accepted for oral presentation
78	P60	<p>A multi-method approach to quality control illustrated on the industrial powder coating process</p> <p><u>Elke Riedl</u>¹,Denis Schütz¹ ¹Anton Paar GmbH, Graz, Austria</p>	Accepted for oral presentation
79	P61	<p>Sensitivity of Numerical Parameters on DEM Predictions of Sediment Transport</p> <p>Husam A. Elghannay¹ and Dansesh K. Tafti¹ ¹Department of Mechanical Engineering, Virginia Tech University, Blacksburg VA24060, USA</p>	Accepted for oral presentation
80	P62	<p>Processing Technologies for Particulate Lithium Ion Battery Raw Materials</p>	Accepted for oral presentation

		Alexander Krauser and Steffen Sander Hosokawa Alpine Aktiengesellschaft, Augsburg, Germany	
81	P63	Investigations at Industrial Scale on Granule and Tablet Attributes in High Shear Rapid Mixer Granulator Suresh P^{1,2}, Vikrant K. Surasani², Sreedhar I² ¹ Operational Excellence, Granules India Ltd, Gagillapur, Hyderabad, India ² Dept. of Chemical Engineering, BITS, Pilani-Hyderabad Campus, Hyderabad, India	Accepted for oral presentation
82	P64	The Effect of Collision Angle on the Particle Breakage under Impact Loads Dmitry Portnikov, Haim Kalman Department of Mechanical Engineering, Ben-Gurion University of the Negev, Beer Sheva 84105, Israel	Accepted for oral presentation
83	P65	A Parametric Study on Response of granular bed to Vertical Sinusoidal Excitations Anand Moorthy¹, Shankar Krishnapillai¹, Ratna Kumar Annabattula¹ ¹ Department of Mechanical Engineering, Indian Institute of Technology Madras, Chennai, 600036	Accepted for oral presentation
84	P66	An Investigation into Modelling Solid Friction Factor for Closely Coupled Bends for Dense Phase Pneumatic Conveying of Powders Amit Kumar¹ and Atul Sharma¹ ¹ Department of Mechanical Engineering, Thapar University, Patiala 147004, India	For proceedings only – will be considered for oral presentation subject to availability of slots
85	P67	Performance evaluation of different cyclone models using CFD for similar body diameter and flow-rate Lakhbir Singh Brar Mechanical Engineering Department, Birla Institute of Technology, Mesra, Ranchi-835215, India	Accepted for oral presentation
86	P68	Population Balance Modeling of Emulsification Process Using High Pressure Homogeniser Sagarika Talla¹, A. Naga Divya Sree¹ and Vikranth Kumar Surasani¹ ¹ Dept. of Chemical Engineering, BITS, Pilani-Hyderabad Campus, Hyderabad, India	Accepted for oral presentation
87	P69	Modeling, Simulation and Experimental Validation of Wet granulation of API in a Fluidized Bed Granulator Deepika Jonnalagada, Aishwarya Nair, Vikrant Kumar Surasani	Accepted for oral presentation

		Dept. of Chemical Engineering, BITS, Pilani-Hyderabad Campus, Hyderabad, India	
88	P70	<p>Mixing study of binary cohesive fine powders in a 2D rotary drum</p> <p>Abhishek Sancheti, Sanjay Saroj, Chinmay Ghoroi* DryProTech Lab., Chemical Engineering, Indian Institute of Technology Gandhinagar, Palaj, Gandhinagar -382355, Gujarat, India</p>	Accepted for oral presentation
89	P71	<p>Fast, flexible particles simulations: An introduction to MercuryDPM</p> <p>Deepak R. Tunuguntla¹, Thomas Weinhart and Anthony R. Thornton Multi-Scale Mechanics Group, University of Twente, The Netherlands</p>	Accepted for oral presentation
90	P72	<p>Shaping Segregating: Multi-scale modeling of Segregation in industrial scenarios</p> <p>Anthony R. Thornton¹, Deepak R. Tunuguntla¹, Kasper van der Vaart² and Thomas Weinhart¹ ¹Multi-Scale Mechanics Group, University of Twente, The Netherlands ²Environmental Hydraulics Laboratory, Ecole Polytechnique Federale de Lausanne, Switzerland</p>	Accepted for oral presentation
91	P73	<p>From discrete particles to continuum fields</p> <p>Thomas Weinhart Multiscale Mechanics, Department of Mechanical Engineering, University of Twente, 7545 MP Enschede, Netherlands</p>	Accepted for oral presentation
92	P74	<p>Probing the internal dynamics of rotated granular systems using Positron Emission Particle Tracking combined with DEM simulations</p> <p>C. R. K. Windows-Yule¹, B. J. Scheper¹, D. J. Parker² and A. R. Thornton¹</p> <p>¹Multi-Scale Mechanics, Dept. of Mechanical Engineering, MESA+, University of Twente, P.O. Box 217, 7500 AE Enschede, The Netherlands ²School of Physics and Astronomy, University of Birmingham, UK, B15 2TT</p>	Accepted for oral presentation
93	P75	<p>Numerical and experimental study of compression strength of pharmaceutical granules</p> <p>Zdeněk Grof¹, Marek Schöngut¹, David Smrčka¹ and František Štěpánek¹ ¹Department of Chemical Engineering, University of Chemistry and Technology Prague, Technická 5, 166 28 Praha 6,</p>	Accepted for oral presentation

		Czech Republic	
94	P76	<p align="center">Effect of Side Injection Nozzles of Performance of Gas-Solids Fluidized Bed via Pressure Fluctuation Analysis and CFD Simulation</p> <p align="center">Jitendra S. Rawat, Pankaj Tiwari and Rajesh K. Uppadhyay* 1Department of Chemical Engineering, IIT Guwahati, Assam-781039, India</p>	Accepted for oral presentation
95	P77	<p align="center">Experimental Investigation of Unary and Binary Gas-solids Conical Fluidized bed using Radiotracer Technique</p> <p align="center">Lipika Kalo and Rajesh K. Upadhyay* Department of Chemical Engineering, Indian Institute of Technology, Guwahati 781039, India</p>	Accepted for oral presentation
96	P78	<p align="center">Development of High Concentration Slurry Disposal System (HCS) in power plant</p> <p align="center">Sunil Kumar Ghosh Development Consultant Private Ltd, Kolkata, India</p>	Accepted for oral presentation
97	P79	<p align="center">Bimetallic Nanocatalysts of Coinage Metals for Enhanced Physicochemical Properties</p> <p align="center">Bonamali Pal School of Chemistry and Biochemistry, Thapar University, Patiala 147004, Punjab, India</p>	Accepted for oral presentation
98	P80	<p align="center">Preparation of different morphological nanostructures of TiO₂ and to study their photocatalytic applications</p> <p align="center">Manpreet Kaur Aulakh¹ and Bonamali Pal² School of Chemistry and Biochemistry, Thapar University, Patiala 147004, Punjab, India</p>	Accepted for oral presentation
99	P81	<p align="center">Synthesis of Gold-DNA nanocomposites for highly sensitive magnesium ion detection</p> <p align="center">Tanushree Basu, and Bonamali Pal School of Chemistry and Biochemistry, Thapar University, Patiala-147004, Punjab, India</p>	Accepted for oral presentation
100	P82	<p align="center">Synthesis and characterization of co-deposited mono/bimetallic TiO₂ nanospheres</p> <p align="center">Sakshi Bhardwaj and Bonamali Pal School of Chemistry and Biochemistry, Thapar University, Patiala-147004, Punjab, India</p>	Accepted for oral presentation
101	P83	<p align="center">Higher photo-degradation of propiconazole fungicide using photoactive Au-TiO₂ nanowires</p> <p align="center">Roop Chand Prajapat, Satnam Singh and Bonamali Pal</p>	For proceedings only – will be considered for oral

		School of Chemistry and Biochemistry, Thapar University, Patiala 147004, Punjab, India	presentation subject to availability of slots
102	P84	<p>Green synthesis of CaO from waste egg shells and its modification: Characterization and photocatalytic activity for some selected dyes</p> <p>Samriti Thakur, Bonamali Pal and Satnam Singh School of Chemistry and Biochemistry, Thapar University, Patiala-147001</p>	For proceedings only – will be considered for oral presentation subject to availability of slots
103	P85	<p>Role of SDS on protein denaturation</p> <p>Ritika Chhabra and Bonamali Pal School of Chemistry and Biochemistry, Thapar University, Patiala</p>	For proceedings only – will be considered for oral presentation subject to availability of slots
104	P86	<p>Experimental Study on Particle Velocity in Horizontal Dilute Phase Pneumatic Conveying Systems</p> <p>Nir Santo^a, Dimitry Portnikov and Haim Kalman ^a Laboratory for Conveying and Handling of Particulate Solids, Department of Mechanical Engineering, Ben-Gurion University of the Negev, P.O. Box 653, Beer Sheva 84105, Israel</p>	Accepted for oral presentation
105	P87	<p>Imaging Techniques Applied To Particles And Particles Systems Characterization: Past, Actual and Future Trends</p> <p>Giuseppe Bonifazi and Silvia Serranti Department of Chemical Engineering, Materials & Environment, Sapienza University of Rome, 00184 Rome, Italy</p>	Accepted for oral presentation
106	P88	<p>HyperSpectral Imaging Based Logics for Complex Particle Systems Characterization and Monitoring</p> <p>Silvia Serranti and Giuseppe Bonifazi Department of Chemical Engineering, Materials & Environment, Sapienza University of Rome, Via Eudossiana 18, 00184 Rome, Italy</p>	Accepted for oral presentation
107	P89	<p>Numerical Simulation and Experimental Validation of Yielding For Cohesive Dry Powder</p>	Accepted for oral presentation

		<p style="text-align: center;">H. Shi ¹, A. Singh ², S. Luding ¹ and V. Magnanimo ¹</p> <p style="text-align: center;">¹ Multi Scale Mechanics, CTW, MESA+, University of Twente, 7500 AE Enschede, The Netherlands, ²Levich Institute for Physico-Chemical Hydrodynamics, City College of New York, NY 10031, USA</p>	
108	P90	<p style="text-align: center;">PSD analysis of pressure drop fluctuation in dilute phase pneumatic conveying system</p> <p style="text-align: center;"><u>Ajay B. Makwana</u>, Atharva Patankar, Sagar Patil, and Manaswita Bose</p> <p style="text-align: center;">Department of Energy Science and Engineering, Indian Institute of Technology Bombay, Powai-400076</p>	Accepted for oral presentation
109	P91	<p style="text-align: center;">Granular Segregation in a Quasi 2D System during Heap Formation</p> <p style="text-align: center;">Sandip H. Gharat</p> <p style="text-align: center;">Department of Chemical Engineering, Gharda Institute of Technology Lavel, Khed, Ratnagiri 415 708 India</p>	Accepted for oral presentation
110	P92	<p style="text-align: center;">Quantitative DEM validation of flow of pellets in a flat bottom silo</p> <p style="text-align: center;"><u>Veera Pratap R Kasina</u>^{1*}, Jin Y Ooi², Jian-Fei Chen³, Hans Schnieder⁴</p> <p style="text-align: center;">¹ Process Engineering Formulations, IPDO, Dr.Reddys Laboratories Limited, Hyderabad, India; *formerly at Institute for Infrastructure and Environment, University of Edinburgh, Edinburgh, UK ² Institute for Infrastructure and Environment, University of Edinburgh, Edinburgh, UK ³ Queens University, Belfast, UK ⁴ Zeppelin Systems GmbH, Friedrichshafen, Germany</p>	Accepted for oral presentation
111	P93	<p style="text-align: center;">Characterization of pharmaceutical powders – static and dynamic flow properties</p> <p style="text-align: center;"><u>Veera Pratap R Kasina</u>, Hussain Ali M, Sanjay R Sharma, Ajinkya Bhasme, Ravichandra Palaparathi</p> <p style="text-align: center;">Process Engineering Formulations, IPDO, Dr.Reddys Laboratories Limited, Hyderabad 500072, India</p>	Accepted for oral presentation
112	P94	<p style="text-align: center;">A study of flow and blending in a multi-flow silo blender using particle image velocimetry and discrete element method</p> <p style="text-align: center;"><u>Veera Pratap R Kasina</u>^{1*}, Jin Y Ooi², Jian-Fei Chen³ and Hans Schnieder⁴</p> <p style="text-align: center;">¹ Process Engineering Formulations, IPDO, Dr.Reddys Laboratories Limited, Hyderabad 500072, India; *formerly at Institute for Infrastructure and Environment, University of Edinburgh, Edinburgh, UK ² Institute for Infrastructure and Environment, University of Edinburgh, Edinburgh, UK</p>	Accepted for oral presentation

		³ Queens University, Belfast, UK ⁴ Zeppelin Systems GmbH, Friedrichshafen, Germany	
113	P95	Studying Cohesive Powder Flow using Discrete Element Method: An Investigation into Contact Micro-Mechanics and Link to Bulk Behaviour Rahul Mohanty^{1,2}, Prashant Gupta¹, Jin Y. Ooi², Luis Martin de Juan¹, Tomaž M. Zorec³ ¹ Procter & Gamble, Newcastle Innovation center, Newcastle Upon Tyne, UK ² School of Engineering, University of Edinburgh, Scotland, UK ³ Institute of Microbiology and Immunology, University of Ljubljana, Ljubljana, Slovenia	Accepted for oral presentation
114	P96	Wave propagation in glass-rubber granular mixtures K. Taghizadeh(1), H. Steeb(2), V. Magnanimo(1) & S. Luding(1) ¹ Multi Scale Mechanics (MSM), Faculty of Engineering Technology, MESA+, University of Twente, Enschede, The Netherlands ² Institute of Mechanics, University of Stuttgart, Stuttgart, Germany	Accepted for oral presentation
115	P97	Heavy Metal Accumulation from Fly ash by Algae for its Potential Utilization. Rajinder Kaur¹ and Dinesh Goyal² ¹ Department of Chemical Engineering & Biotechnology, Beant College of Engineering & Technology, Gurdaspur, Punjab, 143521, India ² Department of biotechnology, Thapar University, Patiala 147004, India	Accepted for oral presentation
116	P98	Flowability of ceramic powders in the sintering process Daniele Sofia, Diego Barletta, Massimo Poletto * Università Degli Studi di Salerno, Dipartimento di ingegneria industriale, Fisciano (SA), Via Giovanni Paolo II, 132, I-84084 Fisciano (SA), tel. +39 089964132 mpoletto@unisa.it	Accepted for oral presentation
117	P99	Powder Flow Characterization at Low Consolidation: Modeling and experimental values of torque estimation Hamid Salehi¹, Denis Schütz², Richard Romire², Diego Barletta¹, Massimo Poletto^{1*} ¹ Department of Industrial Engineering, University of Salerno, Via Giovanni Paolo II, 132, I-84084 Fisciano (SA), Italy, *Email: mpoletto@unisa.it	Accepted for oral presentation

		² Development Rheometry, Anton Paar GmbH, Anton Paar Strasse 20, Graz, Austria	
118	P100	<p>Product development and process optimization strategies for encapsulation applications – a comparative case study using different formulation and processing options</p> <p>Michael Jacob, Melanie Guttzeit, Katja Oppermann, Arne Teiwes Glatt Ingenieurtechnik GmbH, Weimar, Germany</p>	Accepted for oral presentation
119	P101	<p>A Study on the Critical Role of the Stability Ratio, Aggregation Constant and Induced Micro-Convection on the Overall Thermal Conductivity of Nanofluids</p> <p><u>Lal Kundan</u> and Soumya Suddha Mallick Mechanical Engineering Department, Thapar University, Patiala 147004, Punjab, India</p>	Accepted for oral presentation