

07:30-8:55	Registration					
08.55-09.00	Introduction – Prof. Stefan Heinrich					Musiksaal
09.00-10.00	Plenary Lecture: Prof. Stefan Palzer, Nestlé, Switzerland <i>Inroduced by Prof. Stefan Heinrich</i>					Musiksaal
10.00-10.30	Coffee Break / Poster presentations					
	Session 1: Fluidisation Chair: Andreas Buck	Musiksaal	Session 2: Dry granulation/ Roller Compaction Chair: Göran Alderborn	Rethe	Session 3: Continuous Manufacturing Chair: Pirjo Tajarobi	Tarpenbek
10.30-10.55	1.TFM-BASED REGIME MAP OF FLUIDIZATION FOR COHESIVE POWDERS Hessam Qeysari ^{1,2} , Mohammad-Sadegh Salehi ¹ , Maryam Askarishahi ^{1,3} <i>1 Institute of Process and Particle Engineering, Graz University of Technology; 2 Department of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, Italy; 3 Research Center Pharmaceutical Engineering, Graz, Austria</i>		4.APPLICATION OF THE COUPLED EULERIAN-LAGRANGIAN METHOD TO THE ROLLER COMPACTION MODELLING Abderrahim Michrafy , Brayan P. Goyes & Driss Oulahna <i>Université de Toulouse, IMT Mines Albi, CNRS, Centre RAPSODEE, Albi, France</i>		7.TWO-STAGE CONTINUOUS MELT GRANULATION - UNRAVELING THE COMPLEXITY & UNLEASHING THE FULL POTENTIAL? Maximilian Hölzel & Jens Bartsch <i>Laboratories of Solids Process Engineering, TU Dortmund University, Germany</i>	
10.55-11.20	2.OPTIMIZING DRUG RELEASE: FLUIDIZED-BED FORMULATIONS WITH DRUG NANOSUSPENSIONS IN MULTI-UNIT DOSAGE FORM Miroslav Vecera ^{1,2} , Elizaveta Mutylo ^{1,2} , Ondrej Navratil ^{1,2} , Frantisek Stepanek ¹ <i>1 University of Chemistry and Technology, Department of Chemical Engineering, Prague ; 2 Zentiva k.s., Prague, CZ</i>		5.PROCESS CONTROL STRATEGIES FOR DRY GRANULATION: ENABLING EFFICIENT SCALE-UP AND TECHNOLOGY TRANSFER Nikita Marinko ^{1,2} , Simona Römerová ^{1,2} , Stephanie Michelle Medrano ³ , Ivona Sedlářová ⁴ , Tomáš Krpelan ¹ , Veronika Budková ¹ , Jan Petr ^{1,2} , Michaela Gajdošová ² , Vít Zvoníčėk ² , Zuzana Chayka ¹ , Kateřina Budková ¹ , Petr Zámotný ¹ <i>1 University of Chemistry and Technology, Prague, CZ; 2 Zentiva k.s, Prague, CZ; 3 University of Applied Sciences and Arts Northwestern Switzerland; 4 Department of Inorganic Technology, University of Chemistry and Technology, Pargue</i>		8.CONTINUOUS WET GRANULATION IN A NOVEL SMALL SCALE RING LAYER GRANULATOR Lukas Bahlmann ^{1,2} , Jan H. Finke ^{1,2} & Arno Kwade ^{1,2} <i>1 Technische Universität Braunschweig, Institute for Particle Technology (iPAT), Braunschweig, Germany; 2 Technische Universität Braunschweig, Center of Pharmaceutical Engineering (PVZ), Braunschweig, Germany</i>	
11.20-11.45	3.DETERMINATION OF PROCESS CONDITIONS FOR INCIPIENT AGGLOMERATION AT THE BORDER TO THE COATING Ali Kaabi Fallahiyehasl , Dr.-Ing. T. Hoffmann & Prof. Dr.-Ing. habil. E. Tsotsas <i>Thermal Process Engineering Institute, Process system Engineering Faculty, Otto-von-Guericke Universität Magdeburg, Universitätsplatz 2, Magdeburg, Germany</i>		6. ADVANCING SOLID FRACTION ANALYSIS: UNVEILING LASER TRIANGULATION AS A NEW AT-LINE TECHNIQUE Lizbeth Martinez , Malak Bitar, Jan Lenz, Bindhu Gururajan & Camille Adler <i>Novartis Pharma AG, Novartis Campus Basel, Switzerland</i>		9.CONTINUOUS ORAL SOLID DOSAGE PRODUCTION. A DIFFERENT APPROACH Marcus H. Knoell ¹ , Isabelle Hemming ² , Christian Paasche ³ & Marc Michaelis ⁴ <i>1 Hüttlin GmbH - A Syntegon Company Schopfheim, Germany; 2 Syntegon Technology GmbH Waiblingen Germany; 3 Hüttlin GmbH-A Syntegon Company, Germany; 4 SwissCo Services AG, Bahnhofstrasse, Switzerland</i>	
11.45-12.45	Lunch/ Poster presentations					

Session presentations last 25 minutes in total (20 min presentation + 5 min discussion)

12.45-13.45	Plenary Lecture: Prof. Jim Litster, The University of Sheffield, UK <i>Introduced by Prof. Paul Mort</i>					Musiksaal
13.45-14.15	Coffee Break / Poster presentations					
	Session 4: Modelling Chair: Rohit Ramachandran	Musiksaal	Session 5: Tableting Chair: Abderrahim Michrafy	Rethe	Session 6: Pharmaceutical manufacturing Chair: Michael Juhnke	Tarpenbek
14.15-14.40	10.ADVANCES IN FLOWSHEET MODELING OF DYNAMIC GRANULATION PROCESSES USING THE DYSSOL FRAMEWORK Vasyl Skorych ^{1,2} , Stefan Heinrich ¹ <i>1 Hamburg University of Technology, Institute of Solids Process Engineering and Particle Technology, Hamburg, Germany; 2 DyssolTEC GmbH, Hamburg, Germany</i>		13.THE INFLUENCE OF DWELL TIME ON THE PREDICTION OF COMPRESSIBILITY Isidora Vučković ^{1,3} , Rok Šibanc ² , Johanna Anlahr ² , Tim Lilotte ³ , Jörg Breitzkreutz ¹ <i>1 Institute of Pharmaceutics and Biopharmaceutics, Heinrich Heine University, Düsseldorf, Germany, 2 Drug Product Development, Pharmaceuticals, Bayer AG, Wuppertal, Germany, 3 Formulation Technology, Invite GmbH, Leverkusen, Germany</i>		16.NUMERICAL STUDY OF MULTIPHASE MIXING AND AGGLOMERATION OF HETEROGENEOUS NANOPARTICLES IN AN OPPOSED JET FLUIDIZED BED Muhammad Usman Farid , Laura Unger, Andreas Bück <i>Institute of Particle Technology (LFG), Department of Chemical and Biological Engineering, Friedrich-Alexander University Erlangen-Nuremberg, Erlangen, Germany</i>	
14.40-15.05	11.PARTICLE SIZE GRADIENTS IN MODELED VIBRATING BEDS OF CONTINUOUSLY SIZE-DISTRIBUTED POWDERS Emad Renfro ¹ , Joseph M. Monti ² , & Jeremy B. Lechman ² <i>1 School of Chemical & Biomolecular Engineering, Georgia Institute of Technology, Georgia, USA; 2 Energetic/Multi-Phase/Soft Matter Science Department, Sandia National Laboratories, Eubank Boulevard SE, Albuquerque, New Mexico, USA</i>		14.CORRELATION OF GRANULE AND TABLET PROPERTIES WITH REAL-TIME IN-LINE DFF SENSOR MEASUREMENTS IN HSWG Vadim Stepaniuk & Valery A. Sheverev <i>Lenterra, Inc., Newark, NJ, USA</i>		17.UNDERSTANDING THE RELATIONSHIP BETWEEN AGITATION AND AGGLOMERATION IN AN Suruthi Gnanenthiran ¹ , Christopher Hewitt ² , Pari Rao ² , Kate Pitt ¹ , James Litster ¹ and Rachel Smith ¹ <i>1 Particle Technology Group, University of Sheffield, Mappin St, Sheffield, UK; 2 Chemical Development, Pharmaceutical Technology & Development, Operations, AstraZeneca, Macclesfield, UK</i>	
15.05-15.30	12. VALIDATION OF RECURRENCE CFD SIMULATIONS OF GAS-SOLID FLUIDIZED BED BY MAGNETIC RESONANCE IMAGING Shaik Asif ¹ , Swantje Pietsch-Braune ¹ , Stefan Pirker ² , Melis Özdemir ³ , Muhammad Adrian ³ , Alexander Penn ³ , Stefan Heinrich ¹ <i>1 Hamburg University of Technology, Institute of Solids Process Engineering and Particle Technology, Hamburg, Germany; 2 Johannes Kepler University, Department of Particulate Flow Modelling, Linz, Austria; 3 Hamburg University of Technology, Institute of Process Imaging, Hamburg, Germany</i>		15.TRANSFERABILITY OF A MODEL FOR DIE FILLING UNDER SUCTION TO DIFFERENT SETUPS OF ROTARY TABLET PRESSES Lars Wagner ^{1,2} , Ann K. Schomberg ^{1,2} , Arno Kwade ^{1,2} , Jan H. Finke ^{1,2} <i>1 Technische Universität Braunschweig, Institute for Particle Technology, Braunschweig, Germany; 2 Technische Universität Braunschweig, Center of Pharmaceutical Engineering (PVZ)</i>		18.SUPERCritical FLUID TECHNOLOGY TO THE FORMULATION OF QUERCETIN AMORPHOUS SOLID DISPERSIONS Léa Couvidat ^{1,2} , Denis Luat ¹ , Patrice Castignolles ² & Mohammed Benali ¹ <i>1 Université de Technologie de Compiègne, ESCOM, TIMR (Transformations Intégrées de la Matière Renouvelable), France; 2 Sorbonne Université, IPCM (Institut Parisien de Chimie Moléculaire), Chimie des polymères, France</i>	
15.30-16.00	Coffee Break / Poster presentations					

	Session 7: Scaling Chair: Goran Frenning	Musiksaal	Session 8: Single Droplet Drying Chair: Xun Zhu	Rethe	Session 9: Particle size and Characterisation Chair: Davoud Zare	Tarpenbek
16.00-16.25	19. CHALLENGES IN SCALE TRANSFER OF DIE FILLING FROM COMPACTION SIMULATION TO ROTARY PRESSES Ben Kohlhaas^{1,2}, Jan H. Finke^{1,2} <i>1 Technische Universität Braunschweig, Institute for Particle Technology (iPAT), Braunschweig, Germany, 2 Technische Universität Braunschweig, Center of Pharmaceutical Engineering (PVZ), Braunschweig, Germany</i>		21. UNDERSTANDING THE IMPACT OF SOLUBLE GASES ON THE DRYING BEHAVIOR OF SINGLE LIQUID DROPLETS Enqi Liu, Ziba Hashemloo, Xiang Lu & Abdolreza Kharaghani <i>Thermal Process Engineering, Otto von Guericke University Magdeburg, Magdeburg, Germany</i>		23. GRANULE SIZE AND SHAPE CHARACTERIZATION FOR PRODUCT-PROCESS RELATIONS Line Koleilat¹ and Paul Mort² <i>1 Purdue University, Department of Agricultural and Biological Engineering, IN, USA; 2 Purdue University, School of Materials Engineering, USA</i>	
16.25-16.50	20. UPSCALING OF FLUIDIZED BED WURSTER PROCESSES Soeren E. Lehmann <i>Glatt Pharmaceutical Services GmbH & Co. KG, Binzen, Germany</i>		22. PHYSICS-INFORMED ANNS FOR DROPLET EVAPORATION: PHYSICALLY MEANINGFUL NON-DIMENSIONAL VS. DIMENSIONAL INPUT FEATURES PERFORMANCE Narjes Malekjani, Abdolreza Kharaghani & Evangelos Tsotsas <i>Thermal Process Engineering, Otto von Guericke University Magdeburg, Germany</i>		24. IN-LINE REAL-TIME GRANULE SIZE MONITORING IN SEGMENTED FLUID-BED DRYING: A CRITICAL INSIGHT FOR CONTINUOUS PHARMACEUTICAL MANUFACTURING Jeanina-Monica Bungău & Agba D. Salman <i>School of Chemical, Materials and Biological Engineering, The University of Sheffield, UK</i>	

09.00-10.00	Plenary Lecture: Prof. Göran Alderborn, Uppsala University, Sweden <i>Introduced by Göran Frenning</i>					Musiksaal
10.00-10.30	Coffee Break / Poster presentations					
	Session 1: Fluidisation 2 Chair: Michael Jacob	Musiksaal	Session 2: Machine Learning Chair: Paul Mort	Rethe	Session 3: Compression Chair: Csaba Sinka	Tarpenbek
10.30-10.55	25.EXPLORING SPRAY FLUX AND THERMODYNAMIC SCALING TECHNIQUES FOR A SEMI-CONTINUOUS FLUID BED GRANULATION WORKFLOW Sydney M. Butikofer , Joshua M. Hanson, Jonathon B. Wade, Jason Z. Liu & Shashwat Gupta <i>Synthetic Molecule Design and Development, Eli Lilly & Company, Indianapolis, IN, USA; 2 Technical Services/Manufacturing Science, Eli Lilly & Company, Indianapolis, IN, USA</i>		28.INTEGRATING POPULATION BALANCE MODELING AND MACHINE LEARNING FOR REAL-TIME CONTROL AND OPTIMIZATON OF GRANULATION PROCESSES Rohit Ramachandran ¹ , Bhavani Nandhini Mummidi Manuraj ¹ , Ronit Gandhi ² , Tarun De ³ & Ashok Das ⁴ <i>1 Dept. of Chemical and Biochemical Engineering, NJ, USA, 2 Dept. of Statistics,NJ, USA, 3 Indian Institute of Technology Kanpur, India, 4 Department of Mathematics & Computing, Indian Institute of Technology Dhanbad, India.</i>		31.A NONLOCAL ELASTIC-PLASTIC ADHESIVE CONTACT MODEL Göran Frenning <i>Department of Pharmaceutical Biosciences, Uppsala University, Sweden</i>	
10.55-11.20	26.EXPERIMENTAL INVESTIGATION OF WET PARTICLE FLOW DYNAMICAL CHARACTERISTICS IN A PSEUDO TWO-DIMENSIONAL SPOUTED BED Ma Z.Y ^{1,2} and Wang H.G ^{1,2} <i>1 State Key Laboratory of Coal Conversion, Institute of Engineering Thermophysics, Chinese Academy of Sciences, Beijing, China; 2 University of Chinese Academy of Sciences, Beijing, China</i>		29.ON THE IMPORTANCE OF MACHINE LEARNING FOR INTELLIGENT DIGITAL TWINS OF FLUIDIZED BED SPRAY GRANULATION Robert Kräuter ¹ , Sven Schiffner ² , Xiye Zhou ¹ , Swantje Pietsch-Braune ¹ , Mirko Peglow ³ , Marc Richter ² & Stefan Heinrich ¹ <i>1 Hamburg University of Technology, Institute of Solids Process Engineering and Particle Technology, Germany; 2 Fraunhofer Institute for Factory Operation and Automation IFF, Magdeburg, Germany; 3 Pergande Group, Weißandt-Gölzau, Germany</i>		32.PLASTIC DEFORMATION IS THE KEY MECHANICAL PROPERTY AFFECTING TABLETABILITY OF DRY GRANULATED PARTICLES Maryam Tofiq, Göran Alderborn, Josefina Nordström, Ann-Sofie Persson <i>Department of Pharmaceutical Biosciences, Uppsala University, Sweden</i>	
11.20-11.45	27.UNDERSTANDING FLUIDISED BED GRANULATION OF HIGH SURFACTANT CONTENT POWDERS USING EXPERIMENTAL APPROACHES Buddy Visetthernrakul ^{1,2} , Hasiba Bekto ² , Mark J. H. Simmons ¹ , Andrew Ingram ¹ , Jonathan O'Sullivan ² <i>1 Centre for Formulation Engineering, School of Chemical Engineering, University of Birmingham, Birmingham, UK 2 Unilever Research and Development, Port Sunlight Laboratory, Wirral,UK</i>		30.TOPOLOGY -AWARE MACHINE LEARNING SOFT SENSORS FOR MULTISTAGE SPRAY DRYING USING LARGE-SCALE INDUSTRIAL DATA Maximilian F. Theisen ¹ , Arend Dubbelboer ³ , Helio Guedes De Brito Neto ³ , Gabriele M.H. Meesters ² & Artur M. Schweidtmann ¹ <i>1 Process Intelligence Research, Department of Chemical Engineering, University of Technology Delft, Netherlands; 2 Process and Product Engineering, Department of Chemical Engineering, University of Technology Delft, Netherlands; 3 Danone Nutricia Research, Netherlands</i>		33.FLUIDISED BED DRYING IN THE CONSIGMA-25: PAT TO PREDICT TABLETS MANUFACTURING FAILURES Francesca Pinna ¹ , Gavin K. Reynolds ² , Pirjo Tajarobi ³ , Muhammad Ahmer ⁴ James D. Litster ¹ & Agba D. Salman ¹ <i>1 CMBE, University of Sheffield, UK; 2 Sustainable Innovation & Transformational Excellence AstraZeneca, UK; 3 Early Product Development and Manufacturing, Pharmaceutical Sciences, AstraZeneca, Sweden 4 Oral Product Development, Pharmaceutical Technology & Development, Operations, AstraZeneca, Sweden</i>	
11.45-12.45	Lunch / Poster presentations					

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12.45-13.45	Plenary Lecture: Prof. Arno Kwade, Technical University of Braunschweig, Germany <i>Introduced by Prof. Stefan Heinrich</i>					Musiksaal
13.45-14.15	Coffee Break / Poster presentations					
	Session 4: Wet Granulation Chair: Heather Emady	Musiksaal	Session 5: Food Powders Chair: Xi Yu	Rethe	Session 6: Continuous Manufacturing Chair: Lizbeth Martinez	Tarpenbek
14.15-14.40	34. TRICALCIUM CITRATE AS AN ALTERNATIVE FILLER IN HIGH-SHEAR WET GRANULATION Kristina E. Steffens & Karl G. Wagner <i>Department of Pharmaceutics, University of Bonn, Bonn, Germany</i>		37. INVESTIGATING CAKING TRIGGERING NEAR GLASS TRANSITION OF AMORPHOUS FOOD POWDERS Gauthier Ducrozet ¹ , Davoud Zare ² , Vincent Meunier ² , Julien Dupas ² <i>1 École Polytechnique Fédérale de Lausanne, Switzerland, 2 Nestlé Research, Lausanne, Switzerland</i>		40. SCALE-UP AND IN-LINE MONITORING OF A CONTINUOUS, INTEGRATED LINE BASED ON TWIN-SCREW GRANULATION Petra Záhonyi , Dániel Fekete, Edina Szabó, Brigitta Nagy, Zsombor Kristóf Nagy <i>Department of Organic Chemistry and Technology, University of Technology and Economics, Budapest, Hungary</i>	
14.40-15.05	35. PROCESS SIMULATION AND UNDERSTANDING OF TWIN-SCREW WET GRANULATION CONSIDERING KEY PHENOMENA Omkar Kamat ¹ , Tony Arthur ¹ , Saeed Shirazian ² , Nejat Rahmanian ¹ <i>1 Chemical Engineering Program, Faculty of Engineering and Digital Technologies, University of Bradford, Bradford, UK; 2 School of Engineering & Technology, Duy Tan University, Da Nang, Vietnam</i>		38. MATHEMATICAL MODELLING OF DAIRY POWDER WETTING BASED ON MODIFIED WASHBURN EQUATION Gonzalo A. Martinez-Hermosilla , Derek Knighton, Iman Hashemizadeh & Zitong Huang <i>Fonterra Research and Development Centre, Dairy Farm Road, Palmerston North, New Zealand</i>		41. A DYNAMIC RADIAL-BASED SELF-ADAPTIVE FRAMEWORK FOR MODELLING THE CONSIGMA-25 CONTINUOUS TABLET PRODUCTION LINE Wafa' H. AlAlaween ¹ , Riyadh B. Al-Asady ² & Agba D. Salman ² <i>1 Department of Industrial Engineering, The University of Jordan, Amman, Jordan; 2 Department of Chemical and Biological Engineering, The University of Sheffield, UK</i>	
15.05-15.30	36. GYPSUM GRANULES AS A SULFUR SOURCE IN AGRICULTURE: OPPORTUNITIES AND CHALLENGES Nataliia Nazarenko ¹ , Silvan Wick ¹ , Melissa Kohne ² , Matthias J.H. Welker ¹ <i>1 Omya International AG, Froschackerstrasse 6, Switzerland; 2 Omya Inc, Cincinnati, Ohio, USA</i>		39. FORMATION OF DAIRY POWDER ANGLE OF REPOSE HEAPS: INFLUENCE OF POWDER PROPERTIES ON EVOLUTIONARY PROCESS Yongang Ma & Agba D Salman <i>School of Chemical, Materials and Biological Engineering, University of Sheffield, UK</i>		42. EFFECT OF PVP AND ISOMALT AS BINDER IN TWIN-SCREW CONTINUOUS MANUFACTURING ON GRANULE AND TABLET PROPERTIES O. Luhn ¹ , A. Yousefinejad ¹ , K.-M. Gollnow ¹ , D. Emanuele ² , R. Meier ² <i>1 BENEOPalatinit GmbH, Central Dept. of Research, Development & Services of Suedzucker AG, Obrigheim, Germany; 2 L.B. Bohle Maschinen und Verfahren GmbH, Science & Process Engineering, Ennigerloh, Germany</i>	
15.30-16.00	Coffee Break / Poster presentations					

	Session 7: Granulation and Agriculture/plant Chair: Abderrahim Michrafy	<i>Musiksaal</i>	Session 8 : Other granulation Chair : Heigang Wang	<i>Rethe</i>	Session 9: Batteries Chair: Arno Kwade	<i>Tarpenbek</i>
16.00-16.25	43.LIGHTWEIGHT COMPOSITE GRANULES FROM WOOD PULP FIBRE AND EXPANDED MICROSPHERE Praveen Wilson¹, Avik De^{1,2,3}, Sara Wallsten², Magnus Jonsson⁴ & Farid Akhtar¹ <i>1 Luleå University of Technology, Department of Engineering Sciences and Mathematics, Luleå, Sweden; 2 MoRe Research Örnköldsvik AB, Örnköldsvik, Sweden; 3 Wallenberg Initiative Materials Science for Sustainability (WISE), Luleå University of Technology, Luleå, Sweden; 4 Nouryon Pulp and Performance Chemicals AB, Sundsvall, Sweden</i>		45.MODELLING THE DYNAMIC CARBONATION OF MILLIMETER-SIZED STEEL SLAG PARTICLE AT ELEVATED TEMPERATURE Xiaohuan Liu^{1,2}, Yuhao Xiang^{1,2}, Junjun Wu^{1,2}, Xun Zhu^{1,2}, Qiang Liao^{1,2} <i>1 Key Laboratory of Low-grade Energy Utilization Technologies and Systems, Chongqing University, Ministry of Education, Chongqing, China; 2 Institute of Engineering Thermophysics, School of Energy and Power Engineering, Chongqing University, Chongqing, China,</i>		47.JET ASSISTED FLUIDIZED BED PRODUCTION OF BATTERY HETERO AGGREGATES WITH STRUCTURAL ANALYSIS Zhi Cheng Hua, Robert Kräuter, Stefan Heinrich <i>Institute of Solids Process Engineering and Particle Technology, Hamburg University of Technology (TUHH), Germany, Denickestraße 15, 21073 Hamburg</i>	
16.25-16.50	44.AGRICULTURAL GRANULES. QUALITY CHALLENGES AND OPPORTUNITIES Matthias Welker, Nataliia Nazarenko <i>Omya International AG, Egerkingen, Switzerland</i>		46.AGGLOMERATION BEHAVIOR OF HIGH-TEMPERATURE PHASE CHANGE CMAS PARTICLES Yiwen Lv¹, Xun Zhu^{1,2}, Junjun Wu^{1,2}, Hong Wang^{1,2}, Qiang Liao^{1,2} <i>1 Institute of Engineering Thermophysics, School of Energy and Power Engineering, Chongqing University, Chongqing, China; 2 Laboratory of Low-grade Energy Utilization Technologies and Systems, Chongqing University, Chongqing, China</i>		48.PROBING CARBON BLACK DEAGGLOMERATION IN LITHIUM-ION BATTERY CATHODE MANUFACTURING USING POWDER RESISTIVITY METRICS Guo Jung Lian¹, Prateek Verma², Denis Cumming^{1,3} & Rachel M. Smith^{1,3} <i>1 School of Chemical, Materials and Biological Engineering, University of Sheffield, UK; 2 School of Chemical and Process Engineering, University of Leeds, UK; 3 The Faraday Institution, Harwell Campus, Didcot, UK</i>	

09.00-10.00	Plenary Lecture: Prof. Rohit Ramachandran, Rutgers University, USA <i>Introduced by Prof. Csaba Sinka</i>					Musiksaal
10.00-10.30	Coffee Break					
	Session 1: Modelling Chair: Swantje Pietsch-Braune	Musiksaal	Session 2: Tablets and Pellets Chair: Ann-Sophie Persson	Rethe	Session 3: Granulation Chair: Nejat Rahmanian	Tarpenbek
10.30-10.55	49. ENHANCING CFD EFFICIENCY IN SPRAY DRYING THROUGH PRE-SAMPLED AND TIME-AVERAGED AIRFLOWS FOR ACCELERATED SIMULATIONS Nikolai A. Jessen¹ , Ulrich W. W. Krühne ¹ , Krist V. Gernaey ¹ , Alexander Findeisen ² <i>1 Department of Chemical and Biochemical Engineering, Technical University of Denmark, Lyngby, Denmark; 2 Novonosis Bagsvaerd, Denmark</i>		52.PARAMETER-DEPENDENT STRESS STATES AND THEIR EFFECT ON PROPERTIES OF PRESS COATED TABLETS Henry Brauns ^{1,2} , Jan H. Finke^{1,2} <i>1 Technische Universität Braunschweig, Institute for Particle Technology, Braunschweig, Germany; 2 Technische Universität Braunschweig, Center of Pharmaceutical Engineering Braunschweig, Germany</i>		55.REGIME MAP OF A TOROIDAL FLUID BED GRANULATOR – CHALLENGING FORMULATION Line Koleilat¹ , Christian K. Paasche ² , Jonathan Wade ³ , Joshua Hanson ³ , Carl Wassgren ⁴ , and Paul Mort ⁵ <i>1 Purdue University, Department of Agricultural and Biological Engineering, IN, USA; 2 Hüttlin GmbH – A Syntegon Company, Schopfheim, Germany; 3 Eli Lilly and Company, Indianapolis, USA; 4 Purdue University, School of Mechanical Engineering and Industrial and Molecular Pharmaceutics, IN, USA; 5 Purdue University, School of Materials Engineering, IN, USA</i>	
10.55-11.20	50. EXPERIMENTAL AND NUMERICAL STUDIES ON POST-GRANULATION DRYING AND PARTICLE TRANSPORT IN A ROTATING DRUM DRYER Kay Imole¹ , Roxana Saghafian Larijani ² , Christian van der Sande ¹ , Balázs Füvesi ³ , Peter van der Wel ¹ , Vanessa Magnanimo ² & Stefan Luding ³ <i>1 Research and Development, Hosokawa Micron B.V., Doetinchem, The Netherlands; 2 Soil MicroMechanics, Department of Civil Engineering & Management, University of Twente, Enschede, The Netherlands; 3 Multi-Scale Mechanics, Department of Thermal and Fluid Engineering, University of Twente, Enschede, The Netherlands</i>		53. PREPARATION AND IN-VITRO EVALUATION OF FAST-RELEASE PELLETS OF ACIDIC DRUGS WITH ADDED SURFACTANT Ioannis Partheniadis, Nikoleta Basina, Ioannis Nikolakakis <i>Laboratory of Pharmaceutical Technology, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Greece</i>		56. MATERIAL SPARING METHODS TO SUPPORT TSWG PROCESS DEVELOPMENT Catarina G. Luz^{1,2} , João F. Pinto ² & Slavomíra Doktorová ¹ <i>1 Oral Drug Product Development, Hovione Farmaciência S.A., Lisbon, Portugal; 2 Dept. of Pharmacy, Faculty of Pharmacy of the University of Lisbon, Lisbon, Portugal</i>	
11.20-11.45	51. DEM ANALYSIS OF FLOW DYNAMICS DURING BASKET EXTRUSION Abul Hassan Syed , Guoping Lian & Charley Wu <i>School of Chemistry and Chemical Engineering, University of Surrey, Guildford, UK</i>		54.TASTE-MASKED MICROPARTICLES OF SODIUM WARFARIN PREPARED BY HOT MELT EXTRUSION AND THERMAL POSTPROCESSING Paula Kaufelde ¹ , Andrejs Aniskevics ² , Jevgenijs Sevcenko ² , Marta Žogota ¹ , Valentyn Mohylyuk¹ <i>1 Leading Research Group, Faculty of Pharmacy, Riga Stradiņš University, Riga, Latvia; 2 Institute for Mechanics of Materials, University of Latvia, Jelgavas Riga, Latvia</i>		57.INLINE GRANULATION MONITORING: LEVERAGING 100+ YEARS OF INDUSTRIAL EXPERTISE TO OVERCOME THE HURDLES OF REAL-TIME PARTICLE CHARACTERIZATION Sebastian Maaß ¹ , Stefan Dietrich² , Mirco Wegener ¹ & Michael Köhler ² <i>1 SOPAT GmbH, Berlin, Germany; 2 Parsum GmbH, Chemnitz, Germany</i>	
11.45-12.45	Lunch					

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12.45-13.45	Plenary Lecture: Prof.Csaba Sinka, University of Leicester, UK <i>Introduced by Dr. Abderrahim Michrafy</i>					<i>Musiksaal</i>
13.45-14.15	Coffee break					
	Session 4 : Micro-Scale Particle Behaviour Chair: Matthias Welker	<i>Musiksaal</i>	Session 5: Pharmaceuticals Chair: João F. Pinto	<i>Rethe</i>	Session 6: Spray drying Chair: Claus Guldbrandsen	<i>Tarpenbek</i>
14.15-14.40	58.MICRO SCALE EXPERIMENTAL INSIGHTS INTO THE DYNAMICS OF FREE INTERPARTICLE COLLISIONS UNDER DRY AND WET CONDITIONS Falk Bunke & Stefan Heinrich <i>Institute of Solids Process Engineering and Particle Technology, Hamburg University of Technology, Denickestrasse Hamburg, Germany</i>		60.IMPACT OF PARTICLE SIZE AND DISTRIBUTION ON PHARMACEUTICAL TABLET LIQUID TRANSPORT AND DISINTEGRATION Chi-Ki Leung & J. Axel Zeitler <i>Department of Chemical Engineering and Biotechnology, Philippa Fawcett Drive, Cambridge, UK</i>		62. EXPANSION AND EXPLOSION PHENOMENA IN HIGH TEMPERATURE MILK DROPLET DRYING AND THE IMPACT ON SPRAY DRYING SIZE PREDICTIONS Xuqian Li¹, Constantijn Sanders²& Agba.D. Salman¹ <i>1 School of Chemical, Materials and Biological Engineering, University of Sheffield, UK; 2 Nestec Ltd., Nestlé Product Technology Centre, Konolfingen, Switzerland</i>	
14.40-15.05	59.THE EFFECTS OF PARTICLE CONCENTRATION ON NATURAL CONVECTION Zheng Wang¹, Constantijn Sanders² & Agba D. Salman¹ <i>1 School of Chemical, Materials and Biological Engineering, University of Sheffield, Mappin Street, Sheffield, UK</i> <i>2 Nestlé Product Technology Centre, Konolfingen, Switzerland</i>		61.DRUG PARTICLE CO-PROCESSING AND SURFACE MODIFICATION FOR STABILITY IMPROVEMENT Zuzana Hlavačková^{1,2}, Jakub Petřík², Dita Spalovská², František Štěpánek¹ <i>1 University of Chemistry and Technology in Prague, Department of Chemical Engineering, Prague, CZ; 2 Zentiva k.s., Prague, CZ</i>		63. FACTORS INFLUENCING THE INCORPORATION OF FINES INTO AGGLOMERATES DURING SPRAY DRYING Johannes V. Bürger¹, Maciej Jaskulski² & Abdolreza Khraghani¹ <i>1 Thermal Process Engineering, Otto von Guericke Universität Magdeburg, Magdeburg, Germany; 2 Environmental Engineering, Heat and Mass Transfer, Łódź University of Technology, Łódź, Poland</i>	

Session presentations last 25 minutes in total (20 min presentation + 5 min discussion)