Tuesday morning	Plenary Session I – Room Tokio – Chair W. Peukert					
9:00	Welcome by the PARTEC 2007 Chair, Wolfgang Peukert (University Erlangen-Nuremberg)					
9:15	A Tribute to late Professor Sheldon K. Friedlander by Sotiris E. Pratsinis (ETH Zürich, Switzerland)					
9:25	Keynote lecture: Hans Herrmann, ETH Zürich: Simulation of Granular Matter					
10:10	Break					
Session	1 Modelling and Simulation	2 Food Applications	3 Aerosols	4 Multiphase and Separation	5 Granulation	6 Ostwald Colloquium
Room	**Seoul**	**Shanghai**	**St. Petersburg**	**Istanbul**	**Tokio**	**Kiew**
Chairs	H.-J. Schmid M. Sommerfeld	K. Sommer G. Meesters	M. Choi E. Kauppinen	J. Seville K.-E. Wirth	P. Mort J. Litster	
10:30	**1.1 Experiments and simulation of SiO_2 nanoparticle production in an industrial flame reactor** Malte Schwerin, *Heraeus Tenevo AG, Greppin,* Stefan Horender, *Martin-Luther-Universität, Merseburg*	**2.1 Characterization of fluidized bed coating and microcapsule quality** Frédéric Depypere, Koen Dewettinck, Jan Pieters, *Ghent University, Ghent*	**3.1 Fullerene-Functional. carbon nanotubes-novel hybrid nanomat. for cold electron field emis. applic.** Esko Kauppinen, Sergey Shandakov, Anton Anisimov, Albert G. Nasibulin *Helsinki University of Technology, Espoo*	**4.1 A Study of Fluidization of Cohesive Powders** Aref El-Sayed, *Mubarak City for Sc Research, Alexandria* S. A. El-Nawawi, H. A. Mustafa, A N. El-Mahdy, A. M. Abd-El-Rahman	**5.1 An Investigation of Upscaling Factors in High Shear Granulation** Ricardo Hooijmaijers, Wim Oostra, Kaspar van den Dries, *Organon NV, Oss*	**6.1 Nanoparticle Formation: Recent Insight into Complex Colloidal Phenomena** Ingrid Martin, J. Rieger, *BASF Aktiengesellschaft, Ludwigshafen*
10:50		**2.2 Processing of powder particles with tailored multiple capsule morphology** Erich Windhab, V. Schadler, R. Wegmüller, *ETH Zürich, Zurich*	**3.2 High temperature aerosol charging: powder processing and gas cleaning implications** Alfred Weber, G. Kasper, K. Reuter-Hack, A. Schiel, *TU Clausthal, Clausthal-Zellerfeld*	**4.2 Fluidization of cohesive powders as affected by interparticle attractive force** Rajesh Dave, Y. Chen, M. A. S. Quintanilla, J. Yang, R. Pfeffer, J. M. Valverde, A. Castellanos, *New Jersey Institute of Technology, Newark, New Jersey*	**5.2 Effect of velocity field of high shear mixer granulator on the structure of evolved agglomerates** Ali Hassanpour, S. Joseph Antony, Mojtaba Ghadiri, *University of Leeds, Leeds*	
11:10	**1.2 The effects of salt concentration on the growth of nanoparticles in turbulent flows** Shantanu Jathar, Sean Garrick, *University of Minnesota, Minneapolis*	**2.3 Attrition and abrasion strength granules with different coating materials** Bas Van Laarhoven, S. H. Schaafsma, G. M. H. Meesters, *Delft University of Technology, BL Delft*	**3.3 On-the-Fly Length Classification of Aerosol Nanowires and Applic. to Growth Kinetics of CNTâETMs.** Michael Zachariah, S. H. Kim, G. Mulholland, *University of Maryland and NIST, College Park*	**4.3 The assesment of the solids flow in the riser of a Circulating Fluidized Bed (CFB)** J. Baeyens, Manon Van de Velden, J. P. K Seville, *University of Birmingham, Antwerp*	**5.3 Studies of Wet Granule Breakage in a Laboratory Scale Breakage Only Granulator** Jim Litster, R. M. Smith, L. X. Liu, N. N. Suhairi, N. Page, *University of Queensland, Brisbane QLD*	**6.2 Gas-Phase Synthesis of Nanocomposite Particles** Meike Pelz, Michael Kröll, Guido Zimmermann, Stipan Katusic, Sven Hill, *Degussa AG, Hanau*
11:30	**1.3 Numerical simulation of particle-flow interactions: formation of agglomerates** Pawel Kosinski, A. Kosinska, A. C. Hoffmann, *University of Bergen, Bergen*	**2.4 Powder agglomeration during spray drying process** A. Gianfrancesco, C. Turchiuli, E. Dumoulin, *UMR GenIAl, Massy*	**3.4 Porous catalytic material suspension synthesis in one-step by Liquid Flame Spray** Helmi Keskinen, Jyrki M. Mäkelä, Mikko Aromaa, *TU Tampere, Tampere,* Ritva Heikkinen, *Ecocat Oy, Oulu*	**4.4 Hydrodynamic Similarity in Risers of Circulating Fluidized Beds** Jesse Zhu, X. B. Qi, W. X. Huang, *The University of Western Ontario, London, Ontario*	**5.4 Surface modification of powders by dry coating in a Cyclomix shear impact mixer** Y. Ouabbas, L. Galet, A. Chamayou, S. Patry, L. Devrient, P. Accart, J. A. Dodds, *Ecole Des Mines D'Albi, Albi Cedex*	
11:50	**1.4 Aggregation kinetics of soft polymer particles** Cornelius Gauer, Z. Jia, H. Wu, M. Morbidelli, *ETH Zurich, Zurich*	**2.5 High Pressure Microscopy – State of the Art, Challenges and Limitations** Markus Hartmann, *Nestlé PTC Lebensmittelforschung, Singen,* Karl Sommer, Susanne Kuschel, *TU München Weihenstephan, Freising*	**3.5 Metal Doped Carbon Shell Nanoparticles** Sangsun Yang, Young-Jeong Kim, Daegyu Kim, Hosik Lee, Jaejun Yu, Mansoo Choi, Peter Pikhitsa *Seoul National University, Seoul*	**4.5 Characterization of an Annular Fluidized Bed** Anne Collin, K. E. Wirth, M. Ströder, *Uni Erlangen-Nürnberg, Erlangen*	**5.5 Scale-up and Control of Binder Agglomeration Processes – Batch and Continuous** Gabriel Tardos, *City College of New York, New York,* Paul Mort, *Procter & Gamble, Cincinnati*	**6.3 Synthesis and photocatalytic activity of magnetic core-shell nanoparticles** Patrick Wilhelm, Markus Gretz, Johann Plank, *Technische Universität München, Garching,* Dietmar Stephan, *Universität Kassel, Kassel*
12:10	**1.5 Numerical Prediction of Particle Size Distributions of Nanoparticle Precipitation in a Confined Impinging Jet Reactor** Florian Schwertfirm, Michael Manhart, *Technische Universität München, München,* Wolfgang Peukert, Johannes Gradl, *Uni Erlangen-Nürnberg, Erlangen*	**2.6 Post-hardening of pharmaceutical and food tablets** Stefan Palzer, *Nestlé Product Technology, Singen*	**3.6 Aerosol assisted synthesis of nanostructured silica particles** Raghuraman Pitchumani, Andreas Schmidt-Ott, *TU Delft, Delft,* Marc-Olivier Coppens, *Rensselaer Polytechnic Institute, Troy*	**4.6 Modular PEPT Applied to Circulation in Industrial Scale Fluidised Beds** Andrew Ingram, M. Hausard, T. W. Leadbeater, X. Fan, D. J. Parker, J. P. K Seville, M. Evans, N. Finn, *University of Birmingham, Birmingham*		**6.4 Precipitation and growth of spherical silica particles** Thomas Günther, J. Jupesta, J. Tomas, F. Weigler, W. Hintz, *Universität Magdeburg, Magdeburg*
12:30				**4.7 Mechanistic Study of Nanoparticle Aggregation in Gas Fluidized Beds** Martin Rhodes, F. Rahman, A. Akhavan, M. J. Rhodes, *Monash University, Clayton,* A. W. Weimer, *University of Colorado, Boulder*		**6.5 Influence of magnetic nanoparticles on the deformation properties of polymer membranes** Patrick Degen, Heinz Rehage, *Universität Dortmund, Dortmund*

Tuesday afternoon Plenary Session II – Room Tokio – Chair P. Kleinebudde

14:00 Keynote lecture: Karsten Mäder, University of Halle: Nanoparticulate Drug Delivery Systems: in vitro / in vivo

14:45 Break

Session	7 Modelling and Simulation	8 Particles in Pharma	9 Aerosols	10 Multiphase and Separation	11 Ultrafine Grinding	12 Ostwald Colloquium
Room	**Seoul**	**Shanghai**	**St. Petersburg**	**Istanbul**	**Tokio**	**Kiew**
Chairs	S. Heinrich S. Luding	P. Kleinebudde D. Wieckhusen	A. Weimer A. Schmidt-Ott	R. Dave J. Werther	J. Dodds A. Kwade	
15:30	**7.1 Large-eddy simulation of nanoparticle growth in turbulent flows** Sean Garrick, Nelson Settumba, *University of Minnesota, Minneapolis*	**8.1 Preparation of Needle Shaped Magnetic Nanoparticles for Application in Gene Therapy** May Lim, M. Arsianti, P. Singh, A. Khatri, P. Russel, R. Amal, *University of New South Wales, Sydney*	**9.1 Large scale size selection and charging of nanoparticles** Esther Hontanon, F. E. Kruis, *CIEMAT, Madrid*	**10.1 Simulation of a system of coupled fluidized-bed reactors with a flowsheet simulation tool** Anja Püttmann, Joachim Werther, Ernst-U. Hartge, Alicia Aguilar, O. Masbernat, *TuTech Innovation GmbH, Hamburg, Laboratoire de Genie Chimique, Toulouse*	**11.1 Effect of material properties on optimum stress intensity and specific energy in stirred media milling** Arno Kwade *Universität Braunschweig, Braunschweig* P. Bonnett, N. Dickens, A. Ramet, A. Foley, *Syngenta, Huddersfield*	**12.1 Nonaqueous Routes to Metal Oxide Nanocrystals: Formation Mechanisms, Assembly and Applications** M. Niederberger, *ETH Zurich, Zürich*
15:50	**7.2 CFD numerical flow simulation of particle-laden and bulk solid flows – A State-Of-Art** Mourad Lotfey, Ralf Löffler, *Fluent Deutschland GmbH, Darmstadt*	**8.2 Tribo-electrification of pharmaceutical powders** Mojtaba Ghadiri, H. Watanabe, Y. Ding, T. Matsuyama, K. G. Pitt, H. Maruyama, S. Matsusaka, H. Masuda, *University of Leeds, Leeds*	**9.2 Neutralization of charged and uncharged submicronic aerosols with high frequency corona discharge** Yves Gorat Stommel, *Degussa AG, Hanau* Ulrich Riebel, *TU Cottbus, Cottbus*	**S10.2 Experimental study of solid phase fluctuations in a liquid fluidized bed** Alicia Aguilar, O. Masbernat, *Laboratoire de Genie Chimique Toulouse*		
16:10	**7.3 CFD simul. of distr. a. uniformities of gas flow in multiple cyclones with dif. par. arrangement** Binqtao Zhao, Fuping Qian, *University of Shanghai, Shanghai*	**8.3 Dry powder deagglomeration of spherical, submicron particles** Claudius Weiler, Michael Trunk, Markus Wolkenhauer, *Boehringer Ingelheim Pharma, Ingelheim,* Peter Langguth, *Johannes Gutenberg-Uni Mainz, Mainz*	**9.3 Flame-made Pd/La_2O_3/Al_2O3 and Pd-Pt/Al_2O_3 nanoparticles** Reto Strobel, J. D. Grunwaldt, A. Camenzind, A. Baiker, S. E. Pratsinis, *ETH Zurich, Zürich*	**10.3 Experimental Verification of the Simplified Scaling Rules for Bubbling Fluidized Beds** Ruud Van Ommen, J. de Rond, P. J. Sanderson, K. S. Lim, X. S. Wang, M. J. Rhodes, *TU Delft, BL Delft*	**11.2 Application-optimized processing of nano-dispersions with micro bead** Norbert Stehr, *Bühler GmbH Germany, Viernheim*	**S12_2 Microemulsions as templates for new materials** Renate Tessendorf, C. Stubenrauch, I. Lynch, K. Dawson, R. Strey, *University College, Dublin*
16:30	**7.4 Investigation of the Stress Fields and Flow Profiles in Big Bags** Hermann Feise, Bernhard Weigl, *BASF Aktiengesellschaft, Ludwigshafen,* Bernd Weisser, *Lasso Ingenieurgesellschaft mbH, Leinfelden-Echterdingen*	**8.4 Re-entrainment of Particles from the Drug Powder Structures under Breathing Flow Condition** Leon Gradon, Tomasz R. Sosnowski, *Warsaw Univerity of Technology, Warsaw*	**9.4 Characterisation of flame-sprayed bare and SiO_2-coated γFe_2O_3 nanoparticles** Wey Yang Teoh, Dan Li, Cordelia Selomulya, Robert Woodward, Rose Amal, *University of New South Wales, Sydney*	**10.4 Effect of time integr. error on accuracy of granular mixing simul. with the discrete element meth** Jocelyn Doucet, J. Maille, J. Chaouki, F. E. Bertrand, *Ecole Polytechnique de Montreal, Montreal*	**11.3 Numerical approach of grinding process in a stirred media mill** Romain Gers, Christine Frances, Eric Climent, *Laboratoire de Genie Chimique, Toulouse cedex 01,* Dominique Legendre, Dominique Anne-Archard, *Institut de Mesanique, Toulouse*	**12.3 Tailor-made ceramic nanocrystals and thier self-assembly** Satoshi O´Hara, Jing Zhang, Tahereh Mousavand, Mitsuo Umetsu, Takashi Naka, Tadafumi Adschiri, *Tohoku University, Aoba-Ku Sendai*
16:50	**7.5 Numerical simulation of the stress distribution during the die compaction of food powders** Jan-Dirk Prigge, Karl Sommer, *TU München, Freising*	**8.5 A systematic approach for the characterization of nano and micro particle of drug products** Ruxandra Govoreanu, Arjen Tinke, Roen Vanhoutte, Marcus Brewister, *Johnson & Johnson, Beerse*	**9.5 Highly Porous Nanostructured Materials From Impacted Nanoparticles** Christian Peineke, Andreas Schmidt Ott, *TU Delft, BL Delft*	**10.5 HIGH PRESSURE PRODUCT DESIGN – PARTICLE MORPHOLOGY OF THE HIGH PRESSURE SPRAYING PROCESS PGSS** Andreas Kilzer, M. Petermann, *Uni Bochum, Bochum*	**11.4 Simulation of Comminution by Impact of Particle Collectives** Adreas Weber, H. Nirschl, *Uni Karlsruhe, Karlsruhe*	**12.4 Fluorescence Methods for Characterization of Liposomes** Dominik Fischer, Marcel Vranceanu, Gero Leneweit, Karin Winkler, Stefan Nikolaus, *Carl Gustav Carus-Institut, Niefern-Öschelbronn,* Herman Nirschl, *Uni Karlsruhe, Karlsruhe*
17:10	**7.6 Discrete numerical simulation of a model cohesive powder** Francisco Gilabert, J. N. Roux, A. Castellanos, *University of Seville, Sevilla*	**8.6 Charge Generation due to Shear Deformation of Pharmaceutical Powders** Enes Supuk, S. J. Antony, M. Ghadiri, *University of Leeds, Leeds,* C. Seiler, *Merck Sharp & Dohme Ltd, Hoddesdon*	**9.6 Improvements on nano-DMAs** Pablo Martínez-Lozano Sinués, M. Labowsky, J. Fernández de la Mora, *CIEMAT, Madrid*	**10.6 The Turbulence Influence in Nozzle Scrubbers – A combined analysis of particle and gas separation** Markus Linsenbühler, R. D. Pilz, A. Daiß, B. Sachweh, Günther Huber, *BASF Aktiengesellschaft, Ludwigshafen*	**11.5 Production of Flaky Graphite Particles with High Crystallinity and High Specific Surface Area** Yoshikazu Kuga, Yasushi Hirabayashi, Toshiyuki Fujimoto, Minoru Shirahige, *Muroran Institute of Technol., Muroran*	**12.5 Characterization of liquid nanoparticle dispersions by multisample analytical centrifugation** D. Lerche, Titus Sobisch, *L.U.M. GmbH, Berlin*

Wednesday morning	Plenary Session III – Room Tokio – Chair H. Möhwald						
9:00	Keynote lecture: Paul Mulvaney, University of Melbourne: Single Nanocrystal Spectroscopy						
9:45	Break						
Session	13 Modelling and Simulation	14 Particles in Life Sciences	15 Particle Characterization	16 Multiphase and Separation	17 Nanoparticles	18 Interface controlled systems and processes	19 Ostwald Colloquium
Room	**Seoul**	**Shanghai**	**St. Petersburg**	**Istanbul**	**Tokio**	**Oslo**	**Kiew**
Chairs	C. Frances C. Thornton	H. Schuchmann A. Göpferich	M. Stintz U. Riebel	E. Schmidt A. G. Konstandopoulos	G. Kasper K. Okuyama	W. Rybinski G. Rasteiro	
10:30	**13.1 Behavior of Quicksand** Dirk Kadau, H. J. Herrmann, *ETH Zürich, Zürich,* J. S. Andrade Jr., *Federal University of Fortaleza, Brazil*	**14.1 Nanoformulation of Health Ingredients** Lutz End, Bernd Haber, Stefan Schulte, Ute Obermüller-Jevic, *BASF Aktiengesellschaft, Ludwigshafen*	**15.1 Single particle MALDI mass spectrometry for bioaerosol analysis** Ineke Kleefsman, M. A. Stowers, J. C. M. Marijnissen, A. L. van Wuijckhuijse, Ch. E. Kientz, *TU Delft, BL Delft*	**16.1 Investigations on the precipitation of particles charged by thermionic emission** Kerstin Reuter, J. Meyer, G. Kasper, *Universität Karlsruhe, Karlsruhe*	**17.1 Engineered Particles for Catalysis and other Applications** George P. Fotou, M. Oljaca, Ned Hardman, Toivo T. Kodas, *Cabot Superior MicroPowders, Albuquerque*	**18.1 Particle interactions in dispersions of micro and nanoparticles/ Sedimentation of Colloidal Particles** Frank Babick, D. Lerche, T. Sobisch, G. Salinas Salas, *TU Dresden, Dresden*	**19.1 Growth of Gold Colloids with Seed-directed Crystalline Structure** Luis M. Liz-Marzán, Isabel Pastoriza-Santos, Ana Sànchez-Iglesias, Benito Rodriquez-Gonzàlez, *University of Vigo, Vigo*
10:50	**13.2 Effect of surface energy on min. fluidisation, homog. expansion and bubbling of Geldart Group** Colin Thornton, F. E. Yang, K. D. Kafui, J. P. K. Seville, *University of Birmingham, Birmingham*	**14.2 Synthesis of Core/Shell Composite Particles for Blocking UVA/UVB Transmission** Alan Weimer, D. M. King, X. Liang, J. D. Ferguson, K. J. Buechler, *University of Colorado, Boulder*	**15.2 Process and product control of porous microparticles – a long acting release formulation** Edgar John, Kurt Paulus, Holger Petersen, Walter Hammerschmidt, *NOVARTIS Pharma AG, Basel*	**16.2 Development of a Novel Electrostatic Precipitator for Fine Particles** Andrei Bologa, Hanns-Rudolf Paur, Helmut Seifert, Klaus Woletz, *Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen,* Thomas Wäscher, *Ingenieurbüro für Energie- und Verfahrenstechnik, Heidelberg*	**17.2 Platinum/Carbon nanoparticles: Generation, characterization & catalytic soot oxidation** Parisa Davoodi, M. Seipenbusch, A. P. Weber, G. Kasper, *Uni Karlsruhe, Karlsruhe*		
11:10	**13.3 Analysis of Particle Mixing Behavior in Agitation System by Large-scale DEM** Hiroshi Mio, A. Shimosaka, Y. Shirakawa, J. Hidaka, *Keihanna Interaction Plaza Inc, Seika-cho, Soraku-gun, Kyoto*	**14.3 Nanophosphors as Fluorescent Agent for Biolabeling** Werner Hoheisel, J. Burmeister, A. Eble, *Bayer Technology Services GmbH, Leverkusen*	**15.3 Monitoring Particle Agglomeration using FBRM Technology** Norbert Kail, Jörg Worlitschek, Benjamin Smith, Christian Roehr, Heiko Briesen, Wolfgang Marquardt, *RWTH Aachen, Aachen* J. Schöll, *Mettler Toledo*	**16.3 Particle Emission caused by Leaks in Surface Filters** Eberhard Schmidt, Bastian Bach, *Bergische Uni Wuppertal, Wuppertal*	**17.3 Au/TiO_2 Nanocatalysts Prepared by a Novel Photochemical Technique** Ken Chiang, Richard Kydd, Jason Scott, Rose Amal, *University of New South Wales, Sydney*	**18.3 The organic chemical modification of oxide particles in isopropanol** Ting-Jie Wang, Xiao-Yong Fang, Yong Jin, *Tsinghua University, Beijing*	**19.2 Antenna Mechanism and De-Aggregation Concept: Novel Mechanistic Principles for Photocatalysis** D. W. Bahnemann, C. Wang, R. Pagel, J. K. Dohrmann, *Universität Hannover, Hannover*
11:30	**13.4 DEM-Approach for numerical investigation of grinding media motion in stirred media mills** Timo Piechatzek, A. Kwade, *TU Braunschweig, Braunschweig*	**14.4 Iron Oxide Nanoparticles for Medical Applications: a Challenge for Colloidal Chemistry** Heinrich Hofmann, A. Fink-Petri, B. Steitz, *Ecole Polytechnique, Lausanne*		**16.4 Biological-Electrical Odours Precipitator BEGA** Robert Mnich, U. Riebel, P. Toshev, *Brandenburgische TU Cottbus, Cottbus,* J. Junker, *Junker Filter, Sinsheim*	**17.4 Two-nozzle flame synthesis of NO_x storage-reduction catalysts** Reto Strobel, M. Piacentini, M. Maciejewski, A. Baiker, S. E. Pratsinis, *ETH Zürich, Zurich*	**18.4 Shear-Ind. Agglomer. and Redispers.: Investig. of the Dynamics of Titanium Dioxide Nanopart. Form.** Tsvetan Nikolov, W. Hintz, J. Tomas, *Otto-von-Guericke Uni Magdeburg, Magdeburg*	**19.3 Photoluminescence Properties of Zinc Sulfide Nanoparticles Prepared in Clay Suspension** Yasushige Mori, Yasuyuki Arao, Katsumi Tsuchiya, Yutaka Hirooka, *University Doshisha, Kyoto*
11:50	**13.5 Breakage Behaviour of Granules by Impact** Sergiy Antonyuk, J. Tomas, S. Heinrich, L. Mörl, *Otto-von-Guericke Uni Magdeburg, Magdeburg*	**14.5 Attrition and Secondary Nucleation for Protein Crystallization** S. Tait, Jim Litster, E. T. White, L. X. Liu, *University of Queensland, Brisbane QLD*	**15.4 In- and on-line Particle Size Analysis with Representative Sampling for Pharmac. Applications (GMP)** Michael Heuer, Wolfgang Witt, Markus Schaller, *Sympatec GmbH, Clausthal-Zellerfeld*	**16.5 Large Scale Selective Bio-Separation by Functionalized Magnetic Particles** Hermann Nirschl, Mathias Stolarski, Christian Eichholz, Benjamin Fuchs, *Uni Karlsruhe, Karlsruhe* Karsten Keller, *Solae/DuPont, St. Louis*	**17.5 Development of Catalytic Materials for Next Generation Diesel Particulate Filters** Athanasios Konstandopoulos, Alexandra Zygogianni, *Certh/Cperi, Thermi Thessaloniki*	**18.5 Experim. and numerical investig. of the flow and heat transfer behaviour of TiO_2 nanofluids** Yurong He, Haisheng Chen, Lingling Zhang, Yulong Ding, *University of Leeds, Leeds*	**19.4 Self-assembled iron nano chains: Morphology, Electrical and Magnetic Properties** Tim Hülser, H. Onneken, H. Wiggers, A. Lorke, *Universität Duisburg-Essen, Duisburg*
12:10	**13.6 Applying Comminution Functions Into DEM Simulations** Haim Kalman, V. Rodnianski, M. Haim, *Ben-Gurion University of the Negev, Beer Sheva*	**14.6 Agglomerations in Bacterial Spore Suspensions** Alexander Mathys, D. Knorr, *TU Berlin, Berlin,* F. H. Schwartz, *MTS Schwartz, Duesseldorf,* V. Heinz, *German Institute of Food Technology, Quackenbrück*	**15.5 Charact.of Multiphase Flow Struct. and Particle Sizing by Eval. of Statistic. Light Fuctuation** Xiaoai Guo, Ulrich Riebel, *TU Cottbus, Cottbus*		**17.6 Optimized Performance of Nanoparticle Composites for Solid Oxide Fuel Cells** Ralf Habermann, T. Fukui, *Hosokawa Alpine AG, Augsburg*	**18.6 Stability characterisation of nanoparticles dispersions** Carsten Blum, H. Dihang, *Quantachrome GmbH, Odelzhausen*	**19.5 Kinetics of sintering and restructuring in nanoparticle agglomerates** Martin Seipenbusch, A. P. Weber, G. Kasper, *Uni Karlsruhe, Karlsruhe*
12:30							**19.6 Spontaneous charging of single-walled carbon nanotubes: novel strategy to separate individual tubes** Sergey Shandakov, Albert Nasibulin, Esko Kauppinen, Anton Anisimov, *Helsinki University of Technology, Espoo*

Wednesday afternoon Plenary Session IV – Room Tokio – Chair W. Peukert

14:00 Keynote lecture: Reg Davies, University of Florida: Back to the future - 50 Years of Particle Charaterization

14:45 Break

Session	20 Modelling and Simulation	21 Particles in Life Sciences	22 Particle Characterization	23 Bulk Solids	24 Nanoparticles	25 Interface controlled systems and processes	26 Ostwald Colloquium
Room	**Seoul**	**Shanghai**	**St. Petersburg**	**Istanbul**	**Tokio**	**Oslo**	**Kiew**
Chairs	G. Skillas K. Sundmacher	E. Windhab W. Stark	S. Ripperger H. Briesen	H. Kalman M. Jones	M. Winterer A. Weber	H. Nirschl Y. Ding	
15:30	**20.1 Primary Particle Dynamics during Aerosol Synthesis of Nanoparticles** Martin C. Heine, Beat Buesser, Sean C. Garrick, S E. Pratsinis, *ETH Zürich, Zurich*	**21.1 Novel Membrane Emulsification for Producing Precise Emulsions** Nita Aryanti, R. A. Williams, R. Hou, *University of Leeds, Leeds*	**22.1 Characterization of Suspended Nanoparticles Using Laser-INDUCed Incandescence (LII)** Roland Sommer, A. P. Fröba, A. Leipertz, *Uni Erlangen-Nürnberg, Erlangen*	**23.1 Horizontal dense phase pneumatic conveying of granular material** Isabelle Lecreps, K. Sommer, *TU München, Freising*	**24.1 Nanoparticles in antimicrobial applications** Stefanie Eiden, Johan Kijlstra, Axel Eble, *Bayer Industry Services, Leverkusen*	**25.1 The Use of LDS to Assess Flocculation Dynamics** Maria Graca Rasteiro, F. A. P. Garcia, P. Ferreira, E. Antunes, *Coimbra University, Coimbra*	**26.1 Influence of humidity on the adhesion force between nanocontacts** Hans-Juergen Butt, M. Farshchi-Tabrizi, M. Kappl, Y. Cheng, J. Gutmann, *Max Planck Institute for Polymer Research, Mainz*
15:50	**20.2 Nanoparticle Precipitation in Microemulsion: A Discrete-Continuous Population Balance Approach** Björn Niemann, K. J. Sundmacher, *Max-Planck-Institut, Magdeburg*	**21.2 Optimisation of Orfice-Type High Pressure Emulsification Valves** Karsten Köhler, Freddy Aguilar, Heike P. Schuchmann, *Universität Karlsruhe (TH), Karlsruhe,* Klaus Schubert, Andreas Hensel, *Forschungszentrum Karlsruhe GmbH, Eggenstein-Leopoldshafen*	**22.2 Comparison between centrifugal sedimentation and dynamic light scattering for nanoparticle sizing** Olivier Couteau, Gert Roebben, *European Comission, Geel*	**S23.2 Dynamic Simulation of Single Slug Behaviour in Horizontal Low-Velocity Slug-Flow Pneumatic Conveying** Mark Jones, S. Tan, K. C. Williams, *University of Newcastle, Callaghan*	**24.2 Industrial Converting of Nanoparticles in Real-World Products – Unfolding the Innovation Potential** Samuel Schär, Steffen Pilotek, Frank Tabellion, Klaus Steingroever, Hans-Henning Homann, Hans Näf, *Bühler AG, Uzwil*	**25.2 Adsorption of a cationic polyelectrolyte on hollow polystyrene latex microspheres** Stephen Mee, J. R. Hart, C. Agra-Gutierrez, D. R. Skuse, *IMERYS MINERALS, Par, Cornwall* R. W. Greenwood, N. A. Rowson, *University of Birmingham, Birmingham*	
16:10	**20.3 PBE modelling of the industrial batch crystallization of a neuroleptic drug** Gilles Fevotte, M. Henry, C. Wisniewski, F. Puel, P. Perrichon, *Universite Lyon 1, VILLEURBANNE*	**21.3 Rheology of protein-stabil. interfaces and their effect on the deform. behavior of emulsion drops** P. Fischer, Erich Windhab, P. Erni, *ETH Zürich, Zurich*	**22.3 Analyzing of Drop Breakage and Drop Size Distrib. in stirred liquid/liquid Dispersion** Sebastian Maaß, S. Wollny, J. Rojahn, A. R. Paschedag, M. Kraume, *TU Berlin, Berlin*	**23.3 Transient Loads on Pneumatic Conveying Pipeline Bends** Don McGlinchey, A. Cowell, L. K. Ferguson, *Glasgow Caledonian University, Glasgow*	**24.3 Flame-made TiO_2 and MoO_3/TiO_2 gas sensors** Sotiris E. Pratsinis, *ETH Zürich, Zürich,* Alexandra Teleki, *Particle Technology Laboratory, Zürich,* Perena I. Gouma, *State University of New York at Stony Brook, Stony Brook*	**25.3 Aggregation and Breakage of Nanoparticle Clusters under Various Flow Conditons** Miroslav Soos, A. S. Moussa, L. Ehrl, J. Sefcik, H. Wu, M. Morbidelli, *ETH Zürich, Zürich*	**26.2 Nanoscience for the Conservation of Cultural Heritage** Piero Baglioni, D. Chelazzi, R. Giorgi, *University of Florence, FLORENCE*
16:30	**20.4 Configurations of magnetic nanorings, nanochains and lattice-like nanostructures in external fields** Stephan Buschmann, A. Hucht, P. Entel, *Universität Duisburg-Essen, Duisburg*	**21.4 Cytotoxicity of oxide nanopart., comparison to asbestos a. quantitative uptake into human lung cells** Wendelin Stark, L. K. Limbach, R. N. Grass, T. J. Brunner, P. Wick, A. Bruinink, D. Gunther, *ETH Zurich, Zurich*	**22.4 The Malvern LPS – a new solution for on-line particle size analysis in wet processes** Jim Scotland, David Pugh, *Malvern Instruments Ltd., Malvern, Worcestershire*	**23.4 The Effect of Loading Ratio on the Minimum Pressure Velocity** E. Rabinovich, Haim Kalman, *Ben-Gurion University of the Negev, Beer Sheva*	**24.4 Nanoparticulate Biomaterials by Flame Synthesis** T. J. Brunner, Robert Grass, W J. Stark, *ETH Zurich, Zurich*	**25.4 Study of Suspension Stability by Monte Carlo Simulations** Georg Skillas, Arkadi Maisels, *Degussa GmbH, Hanau*	
16:50	**20.5 Frictional powders: Ratcheting under periodic strain in 3D** Stefan Luding, *TU Delft, BL Delft,* C. T. David, R. Gracia-Rojo, H. J. Herrmann, *Uni Stuttgart, Stuttgart*	**21.5 Intracellular distribution and targeting of nanoparticles** Miriam Breunig, Achim Göpferich, Wolfgang Hild, Stefanie Bauer, Renate Liebl, Uta Lunjnitz, *Universität Regensburg, Regensburg*	**22.5 Solids Phase Chromatography – a new system for classification and characterisation** Wei Yang, Y. Ding, *University of Leeds, Leeds*	**23.5 Degree of Mixing and Precision for Continuous Mixing Processes** R. Weinekötter, *Gericke AG, Regensdorf*	**24.5 Sensing Hydrogen Storage in Nanoparticles by Photoelectron Emission** Vincent Vons, A. Schmidt-Ott, *TU Delft, BL Delft*	**25.5 Modelling turbulent stress induced dispersion and fragmentation of nanoscale agglomerates** Robert Wengeler, H. Nirschl, *Universität Karlsruhe (TH), Karlsruhe*	
17:10	**20.6 Molecular Dynamics Simulation of Aggregate Sintering** Michael Zachariah, T. Hawa, *University of Maryland and NIST, College Park*	**21.6 Rationale and Development of a Lung Deposited Nanoparticle Surface Area Monitor** Heinz Fissan, Andreas Trampe, Siegfried Neumann, *Universität Duisburg-Essen, Duisburg,* David Y. H. Pui, Weon Guy Shin, *University of Minnesota, Minneapolis,* Manisha Singh, *TSI Incorporated, St. Paul,* Hans-Georg Horn, *TSI GmbH, Aachen*	**22.6 Microstructural analysis of nanosized particles using X-ray diffraction** Matteo Leoni, P. Scardi, *University of Trento, Trento*	**23.6 Design of a silo insert, to decrease concentration fluctuations due to segregation, caused by interruption of the silo filling** Peter Grundnig, Wilhelm Höflinger, *Tu Vienna, Wien*	**24.6 Structural and optical properties of luminescent nanoparticles prepared by flame spray pyrolysis** Takao Tani, T. Suzuki, Y. Arai, S. Saeki, Y. Ohishi, *Toyota Central R&D Labs., Inc., Aichi*	**25.6 Dispersion and De-agglomeration of Nanoparticles by High Pressure Post Feeding (HPPF)** Caroline Sauter, H. Schuchmann, *Universität Karlsruhe, Karlsruhe*	

Thursday morning	Plenary Session V – Room Tokio – Chairs A. Weber, J. Werther					
8:30	Keynote lecture: David Pui, University of Minnesota: Delivery of Nanoparticles & Biomolecules for Nanobiology Applications					
9:15	Keynote lecture: Jinghai Li, University of Peking: Particle Technology in China - Perspectives in Science and Industry					
10:00	Break					
Session	27 Particle Technology in China	28 Functional Materials	29 Particle Characterization	30 Bulk Solids	31 Nanoparticles	32 Interface controlled systems and processes
Room	**Seoul**	**Shanghai**	**St. Petersburg**	**Istanbul**	**Tokio**	**Oslo**
Chairs	B. Sachweh	P. Greil	J. Marjinssen E. John	J. Tomas R. Weinekötter	H. Wiggers M. Seipenbusch	L. Gradon M. Kappl
10:30		**28.1 Role of nanometric SiC powder on the formation of Al-SiC nanocomposite** Sepideh Kamrani, A. Simchi, S. M. Seyed Reihani, R. Riedel, *Institute of material science, Darmstadt*	**29.1 The diffusion behavior of pyrogenic silica aggregates** Uwe Kaetzel, Michael Stintz, Rainer Bederich, Roland Ketzmerick, *TU Dresden, Dresden,* Herbert Barthel, *Wacker Chemie GmbH*	**30.1 Evaluation of the Edinburgh Powder Tester** Timothy Bell, J. Michael Rotter, Emily J. Catalano, Zhijun Zhong, Jin Y. Ooi, *Du Pont Engineering, Wilmington*	**31.1 Desagglomeration and Mixing of Nanoparticles Using the Rapid Expansion of Supercritical Dispersions** Eric Marioth, H. Kroeber, S. Loebbecke, I. Fuhr, H. Krause, *Fraunhofer Institut für Chemische Technologie, Pfinztal*	**32.1 AFM force spectroscopy of micron sized vesicles – Quantifying electrostatic effects on catanionic** A. Fery, Nicolas Delorme, L. Belloni, D. Carriére, M. Dubois, J.-F. Bardeau, M. Hartmann, H. Möhwald, R. Weinkamer, T. Zemb, *Max Planck Institute of Colloids and Interfaces, Potsdam*
10:50		**28.2 Designing the Colloid Chemistry of Particles for the Fabrication of Novel and Better Ceramics** André Studart, E. Amstadt, U. T. Gonzenbach, I. Akartuna, E. Tervoort, L. J. Gauckler, *ETH Zürich, Zürich*	**29.2 Aerosol-Photochemistry: Strength Manipulation of Organic Nano-Agglomerates** M. Seipenbusch, Sonja Rothenbacher, A. P. Weber, G. Kasper, J. Salas-Vicente, A. M. Braun, *Uni Karlsruhe, Karlsruhe*	**30.2 Powder tester to measure the tensile strength and angle of internal friction granu lar materials** A. Castellanos, Jose-Manuel Valverde, M. A. S. Quintanilla, C. Soria, *University of Sevilla, Sevilla*	**31.2 Modelling of Structure-Property Relationships of Nanoscaled Powders** Hans-Joachim Schmid, *University of Paderborn, Paderborn*	**32.2 Quantitive measurement of friction between single microspheres by friction force microscopy** Xing Ling, Hans-Jürgen Butt, Michael Kappl, *MPI für Polymerforschung, Mainz*
11:10	**27.1 Mass production of CNT and other nano materials by Nano-agglomerate Bed Reactor** Wei Fei, Luo Guohua, Qian Weizhong, Wang Yao, *Tsinghua University, Beijing*	**28.3 Smart Minerals: Controlled release of biocides from minerals' surfaces** Yao Kanga, David Skuse, Jarrod Hart, Cesar Agra-Gutierrez, *Imerys Minerals Ltd, Par,* Richard Greenwood, Neil Rowson, *University of Birmingham, Birmingham*	**29.3 SiO_2 Nanoparticle Growth in Laminar and Turbulent Diffusion Flames** Adrian Camenzind, Alexandra Teleki, Heiko Schulz, Narayanan Theyencheri, Gregory Beaucage, S. E. Pratsinis, *ETH Zurich, Zurich*	**30.3 Steady state flow of powders: Influence of dif. shear procedures in the true biaxial shear tester** Michael Röck, Martin Morgeneyer, Jörg Schwedes, *TU Braunschweig, Braunschweig*	**31.3 Characterization of nanoparticle properties by impaction studies** Tao Wu, A. P. Weber, *TU Clausthal Clausthal-Zellerfeld*	**32.3 Molecular-scale Tribol. of Hydrophilic Silica Surfaces in Electrolyte Solut.of Normal and High pH's** Ko Higashitani, *Kyoto University, Kyoto*
11:30	**27.2 Preparation of Ceramic Nanoparticles using HF Plasma and Their Applications** Yunfa Chen, Fangli Yuan, *Academy of Sciences, Beijing*	**28.4 Mechanism of the hydrous alumina coating on TiO_2 particles in aqueous process** Ting-Jie Wang, Hai-Xia Wu, Yong Jin, *Tsinghua University, Beijing*	**29.4 Sampling device for charged particles using motion control under AC field** Shuji Matsusaka, Hiroaki Masuda, *Kyoto University, Kyoto*	**30.4 Elasticity studies of powders by means of a Uniaxial Tester** Trude O. Nysaeter, *Telemark University College, Porsgrunn,* Gisle G. Enstad, *Tel-Tek, Porsgrunn*	**31.4 Structuring of Catalyst Particles in an Integrated Atmospheric Pressure CVD-Process** Axel Binder, A. Heel, M. Seipenbusch, G. Kasper, *Uni Karlsruhe, Karlsruhe*	**32.4 Influence of Surface Structure on the Cleaning of Particles, Colloids and Foulings** U. Bobe, K. Sommer, U. Beck, G. Reiners, W. Peukert, *TU München Weihenstephan, Freising*
11:50	**27.3 Dynamic Simulation for Gas-Solid System Using Macro-Scale Particle Methods** Ge Wei, *Institute of Process Engineering, Beijing,* Jinghai Li, Jingsen Ma, Xiaowei Wang, Junwu Wang, *Chinese Academy of Sciences, Beijing*	**28.5 Antimicrobial polymers based on silver nanoparticles** Cornelia Damm, H. Münstedt, *Uni Erlangen-Nürnberg, Erlangen*	**29.5 Mechanical Characterisation of Single Micro-particles by Micromanipulation** Zhibing Zhang, Siaw Fung Yap, Michael Adams, Jonathan Seville, *University of Birmingham, Birmingham*	**30.5 Investigation of the compression behaviour of cohesive and compressible powders** P. Müller, Lilla Grossmann, J. Tomas, *Universität Magdeburg, Magdeburg*	**31.5 Focused Parallel Patterning of Nanoparticles in Gas Phase** Mansoo Choi, H. Kim, J. Kim, H. Yang, J. Suh, T. Kim, B. Han, S. Kim, D. S. Kim, P. V. Pikhitsa, H. Lee, S. You, *Seoul National University, Seoul*	**32.5 Predicting fouling of smooth surfaces** R. Maniero, Paolo Canu, *University of Padova, Padova*
12:10	**27.4 Fabrication and Applications of Polymer Colloidal Crystals** Yanlin Song, Wang Jingxia, Mingzhu Li, Yuqi Zhang, *Academy of Sciences, Beijing*	**28.6 Osmotic pressure active semipermeable polyelectrolyte multilayer membranes as pressure sensors** Ingo Dönch, M. Nolte, A. Fery, *MPI, Potsdam*	**29.6 Nonlinear Optics for Particle Surface Characterization: Basics and Applications** Lars-Owe Schneider, W. Peukert, *Uni Erlangen-Nürnberg, Erlangen*	**30.6 On the definition of the shear strength of particulate material** Colin Thornton, L. Zhang, *University of Birmingham, Birmingham*	**31.6 Brownian Coagulation at High Concentrations** Martin Heine, Max Eggersdorfer, S. E. Pratsinis, *PTL, IPE, Zürich*	**32.6 Utilisation of nanoparticle structural forces to detach strongly adhered microparticles** James Bowers, Y. Ding, D. York, *University of Leeds, Leeds*
12:30	**27.5 The development of particle preparation and treatment technology in China** Chen Hongxun, *Waterborne Transportation Institute, Beijing*					

Thursday afternoon Plenary Session VI – Room Tokio – Chair S. Pratsinis

13:45	Awards for the Three Best Posters by the Chair of the PARTEC2007 Awards Committee
14:00	Keynote lecture: Richard A. Williams, University of Leeds: Intelligent Wireless Particles
14:45	Invitation to PARTEC 2010 (Andreas Schmidt-Ott & Gabriel Meesters)
15:00	Break

Session	33 Crystallisation	34 Funcional Materials	35 Particle Characterization	36 Bulk Solids	37 Nanoparticles	38 Interface controlled systems and processes
Room	**Seoul**	**Shanghai**	**St. Petersburg**	**Istanbul**	**Tokio**	**Oslo**
Chairs	L. Vicum E. Schlücker	L. Mädler	W. Witt U. Riebel	H. Feise G. G. Enstad	Ghadiri K. Keller	K. Higashitani A. Voronov
15:30	**33.1 Production of Particles from Supercritical Routes** Gary Leeke, *University of Birmingham, Edgbaston* Stuart Blackburn, Jonathan Seville, Rachez Bridson, Tiejun Lu, *University of Birmingham, Birmingham*	**34.1 High-speed micro-patterning of polymer films driven by a fluid dynamical instability** Stefan Loher, T. Maienfisch, S. Bokorny, W. Grimm, W. J. Stark, *ETH Zurich, Zurich*	**35.1 Size distrib. of powders in the range 1µm-200µm: comparison of digital imaging and laser diffraction** Eric Pirard, F. Michel, M. P. Gregoire, *Universite de Liège, Liège*	**36.1 Microscopic and macroscopic flow behaviour of powders during die filling** Charley Wu, X. F. Fan, F. Motazedian, J. P. K. Seville, D. J. Parker, A. C. F. Cocks, *University of Birmingham, Birmingham*	**37.1 Generation of organic nanoparticles by adiabatic expansion in Laval nozzles** Tino Voigt, Siegfried Ripperger, *TU Kaiserslautern, Kaiserslautern,* Bernd Sachweh, *BASF Aktiengesellschaft, Ludwigshafen*	**38.1 Impact of Admixture Concentr. and of Ultra-Fine Partic. on the Rheolog. Behaviour of Mortar Pastes** Christian Artelt, Emmanuel Garcia, *Lafarge Centre de Recherche, St. Quentin Fallavier*
15:50	**33.2 Effects of Spray Properties on the Particle Formation in a pulsed Supercritical Spray Precipitator** Robert Schatz, Eberhard Schluecker, Andreas Braeuer, Alfred Leipertz, *Uni Erlangen-Nürnberg, Erlangen*	**34.2 Superhydrophilic thin film under ambient conditions** Wee Yong Gan, Ken Chiang, Sai Wei Lam, Rose Amal, Huijun Zhao, Michael Paul Brungs, *University of New South Wales, Sydney*	**35.2 Current Limits of Particle Size and Shape Analysis with High Speed Image Analysis** Wolfgang Witt, Ulrich Köhler, Joachim List, *Sympatec GmbH, Clausthal-Zellerfeld*	**36.2 Arch and pipe collapse in aerated silo discharge** A. Cannavacciuolo, Diego Barletta, Massimo Poletto, Giorgio Donsi, Giovanna Ferrari, *Universita Di Salerno, Fisciano* Jörg Schwedes, *TU Braunschweig, Braunschweig*	**37.2 The Coating of Particles with Nanoparticles by Means of Electrostatic Forces** Marcel Dabkowski, J. R. van Ommen, C. U. Yurteri, G. Hochhaus, J. C. M. Marijnissen, *TU Delft, Rotterdam*	**38.2 Flocculation of harbour sludge with polyelectrolytes** W.-M. Kulicke, Mohsen Shirzad-Semsar, *Universität Hamburg, Hamburg*
16:10	**33.3 Flash-Crystallization – a new way of designing crystalline powders** Rafael Kaiser, Matthias Kind, *Uni Karlsruhe, Karlsruhe*	**34.3 Engineering of Al Composite Ceramic Coatings on Carbon Particles** Zeljko Pajkic, Hannes Wolf, Monika Willert-Porada, *Universität Bayreuth, Bayreuth*	**35.3 Approximation for scattering properties of aggregated spherical particles: ERI method** Sandra Jacquier, Frédéric Gruy, *Ecole des Mines de Saint-Etienne, Saint-Etienne*	**36.3 Experiments in a Model of Silo with Different Wall Roughness Registered by DPIV Technique** Irena Sielamowicz, T. A. Kowalewski, *Technical University of Bialystok, Bialystok*	**37.3 Studies on mechanism of single-walled carbon nanotube formation** Albert Nasibulin, Esko Kauppinen, David Brown, Anna Lahde, Janne Raula, Sergey Shandakov, Anton Anisimov, *Helsinki University of Technology, Espoo*	**38.3 New synthesis of metal nanoparticles in "smart" polymeric nanoreactors** Andrij Voronov, A. Kohut, W. Peukert, *Uni Erlangen-Nürnberg, Erlangen*
16:30	**33.4 Crystallisation in Surfactant Free Monodisperse Emulsions** James Litster, Richard D. Dombrowski, Norman J. Wagner, Yinghe He, *University of Queensland, Brisbane QLD*	**34.4 Synthesis and evaluation of spinel-supported Ni catalysts for Hydrogen Production** Chrysa Pagkoura, Athanasios Konstandopoulos, Christos Agrafiotis, Alexandra Zygogianni, Panagiotis Dimotikalis, *CPER/CERTH, Thermi Thessaloniki*	**35.4 A new measurement method to evaluate length related properties of natural fibres** Stefan Seeger, H.-J. Gusovius, G. Wallot, *Bundesanstalt für Materialforschung, Berlin*	**36.4 Volumetric dosing efficiency in relation to the bulk,flow and shear properties of powders** Reginald Freeman, J. R. Cooke, L. C. R. Schneider, *Freeman Technology, Malvern, Worcs.*	**37.4 Formation of Iron Nanoparticles in a Plasma Reactor: A Comparison between Experiment and Simulation** Andreas Kowalik, K. Hitzbleck, H. Wiggers, C. Schulz, P. Roth, *Universität Duisburg-Essen, Duisburg*	**38.4 Layer-by-Layer assembly of polyelectrolytes and magnetic nanoparticles on thermoresp. microgels** John Erik Wong, A. K. Gaharwar, D. Müller-Schulte, D. Bahadur, W. Rintering, *RWTH-Aachen, Aachen*
16:50	**33.5 Influencing and monitoring particle shape in batch crystallization** Jan Eggers, M. Kempkes, L. Vicum, M. Mazzotti, I. Koschinski, J. Worlitschek, U. Zacher, *ETH Zürich, Zürich*	**34.5 Photocatalytic activity of sol-gel derived TiO_2 nanocoatings** Gernot Krammer, P. Pucher, M. Benmami, K. Chhor, J.-F. Bocquet, A. Kanaev, *TU Norwegian, University of Technology (NTNU), Trondheim*	**35.5 Production, Certification and Use of Image Analysis Particle Size Standards** Graham Rideal, J. Storey, *Whitehouse Scientific, Waverton, Chester*	**36.5 Fragmentation of nanoscaled flow regulators as criterion for their potency** Anne-Kathrin Peter, Ingfried Zimmermann, *Uni Würzburg, Würzburg*	**37.5 Chemical Vapor Synthesis and Characterization of Nanocrystalline Zinc Oxide Doped with Chromium** I. Lee, Markus Winterer, W. Jin, A. Kompch, *Universität Duisburg-Essen, Duisburg*	**38.5 Core-shell latex particles as adaptable carriers for metallic nanoparticles** Matthias Ballauff, Frank Polzer, Geeta Sharma, Yan Lu, Yu Mei, Marc Schrinner, *Universität Bayreuth, Bayreuth*
17:10	**33.6 Determination of Crystallization Kinetics using novel Technologies** Jörg Heinrich, *Martin-Luther-Universität, Halle (Saale)* Joachim Ulrich, *Martin-Luther-Universität, Merseburg*	**34.6 The role of fine mineral powders in cement and concrete technology** Michael Schmidt, Carsten Geisenhanslueke, Dietmar Stephan, *Universität Kassel, Kassel*	**35.6 Zeta Potential Measurement of Concentrated Particle Suspension** Ren Xu, *Beckman Coulter GmbH, Miami*	**36.6 Improvement of flow behavior of lactose powder by plasma enhanced chemical vapor deposition** Adrian Spillmann, Rudolf von Rohr, *ETH Zürich, Zurich*	**37.6 From nanoparticles to nanocomposites: Tailoring flame-made Ta2O5/SiO2 and its processing** Heiko Schulz, Sotiris E. Pratsinis, Björn Schimmöller, *ETH Zürich, Zürich,* Simone Klapdohr, Jörg Zimmermann, Ulrich Salz, *Ivoclar Vivadent AG, Schaan*	**38.6 Polyelectrolytes as Reducing and Stabilizing Agent for the Formation of Gold Nanoparticles** Joachim Koetz, C. Note, S. Kosmella, *Universität Potsdam, Potsdam*