



Thursday, 14. March 2019				Friday, 15. March 2019		
Room 'Donau'	Room 'Traun'	Room 'Enns'	Room 'Inn'	Room 'Donau'	Room 'Traun'	Room 'Enns'
<p><b>COFFEE &amp; REGISTRATION</b> 08:30-09:00</p> <p><b>09:00 Welcome</b></p> <p><b>Stefan Radl (TU Graz)</b> Coarse-Grained Models for Gas-Particle Flow: Dns and Dor'ts 09:05-09:35 chair: Kloss, C.</p> <p><b>Tuomo Keskkitalo (Neste Engineering Solutions Oy)</b> CFD-DEM studies of three-phase fluidization disturbances 09:35-10:05 chair: Kloss, C.</p> <p><b>Ulrich Ruede (Erlangen-Nürnberg University)</b> Extreme scale simulation of particle laden flows 10:05-10:25 chair: Kloss, C.</p>				<p><b>09:00 Welcome</b></p> <p><b>Andrea Benassi (Chiesi Farmaceutici)</b> Understanding and designing pharmaceutical products and processes through DEM and CFD-DEM modeling 09:05-09:35 chair: Kloss C.</p> <p><b>Stefan Luding (University of Twente)</b> How to upscale from particles to continuum theory 09:35-10:05 chair: Kloss C.</p> <p><b>Goldbeck G. (Goldbeck Consulting Ltd)</b> A semantic knowledge system for materials and processes: capture, share, integrate 10:05-10:25 chair: Kloss C.</p>		
Break 10:25-10:40				Break 10:25-10:40		
<p><b>Niels Deen (Eindhoven University of Technology)</b> On accurate coupling in Euler-Lagrange simulations 10:40-11:10 chair: Goniva, C.</p> <p><b>Jose Magalhaes (John Deere)</b> Discrete Element Modeling Challenges at John Deere 11:10-11:40 chair: Goniva, C.</p> <p><b>Sideroff C. &amp; Stephens D. (Applied CCM)</b> Towards Coupled CFD-DEM Simulations on Windows using Caelus and LIGGGHTS 11:40-12:00 chair: Goniva, C.</p>				<p><b>André Katterfeld (University of Magdeburg)</b> Multilevel DEM Approach 10:40-11:10 chair: Benassi A.</p> <p><b>Herbst H. &amp; Touloupidis V. (Borealis Polyolefine)</b> Particles and Polymer Industry 11:10-11:40 chair: Benassi, A.</p> <p><b>Plenary discussion</b> 11:40-12:00 chair: Goniva &amp; Kloss</p>		
Lunch Break 12:00-13:00				Lunch Break 12:00-13:00		
<p><b>MC* Franqui F., 13:00-13:20</b> Granular material characterisation at the macroscopic scale for the validation of theoretical and numerical model</p> <p><b>MC* Hager A. &amp; Seil P., 13:20-13:40</b> A Complete GUI-based DEM Simulation Workflow with CFDEM*Workbench &amp; CFDEM*Mailiana</p> <p><b>MC* Otto H., 13:40-14:00</b> A standard for calibration of DEM parameters for free flowing bulk materials</p> <p><b>MC* Goniva C., 14:00-14:10</b> Wear modeling</p> <p><b>MC* Magalhaes J., 14:10-14:20</b> DEM of Abrasive Wear</p>	<p><b>SLS* Romero-Valle M., 13:00-13:20</b> Simulation of Dilute and Dense Non-Spherical Particle Laden Flows: Movement and Orientation Behavior</p> <p><b>SLS* Blais B., 13:20-13:40</b> Leveraging CFD-DEM to understand the dynamics of solid-liquid mixing</p> <p><b>SLS* Nijssen T., 13:40-14:00</b> Towards an efficient implementation of the unsteady liquid-solid interaction forces in unresolved CFD-DEM.</p>	<p><b>CM* Nair A., 13:00-13:20</b> A deformable particle model for red blood cell mechanics based on CFD-DEM</p> <p><b>CM* Schrader M., 13:20-13:40</b> Quantification of the particle-induced mechanical stress on filamentous microorganisms</p> <p><b>CM* Fernandes C., 13:40-14:00</b> Implementation of a fully resolved immersed boundary solver particle-laden viscoelastic flows</p> <p><b>CM* Asybekov E., 14:00-14:20</b> Modelling of Complex Carbon Black Aggregates and Investigation of Their Behavior in a Shear Flow Using DEM.</p>	<p><b>CFD* Nagy J., 13:00-13:20</b> Fire simulations in OpenFOAM with the Example of the Steckler Room</p> <p><b>CFD* Stephens D., 13:20-13:40</b> Velocity Correction Scheme for All Speed Flows</p> <p><b>CFD* Togni R., 13:40-14:00</b> A numerical study of rotating Rayleigh-Bénard convection</p> <p><b>CFD* Vila A., 14:00-14:20</b> Resolved numerical simulations of gas flow through static particle arrangements with a channel</p>	<p><b>FB* Lichtenegger T., 13:00-13:20</b> Fast simulations of heat transfer in a gas-solid fluidized bed under transient conditions</p> <p><b>FB* Kieckhefer P., 13:20-13:40</b> Simulation of Spray Coating in a Spouted Bed using CFD-DEM and Recurrence CFD</p> <p><b>FB* Atuxtegi A., 13:40-14:00</b> Simulation of Spray Coating of Non-Spherical Particles in Spouted Beds</p> <p><b>FB* Wahyudi H., 14:00-14:20</b> CFD-DEM Simulations of Grain Drying in Fluidized Beds</p>	<p><b>IA* Glowinski D., 13:00-13:20</b> Discrete Element Modeling of Large-Scale Grinding Mills for Mineral Processing - A Operational Perspective</p> <p><b>IA* Ajmal M., 13:20-13:40</b> Validation of CFD-DEM simulations for Separation-Function curves of Ziegler Air-Classifier</p> <p><b>IA* Ibrahim M., 13:40-14:00</b> Intra-particle heat transfer investigation of food particle flow in a pipe using Paricalc and CFDEM*coupling</p> <p><b>IA* Sangrós C., 14:00-14:20</b> Simulation approach to study the mechanical and electrical behavior of lithium-ion battery electrodes</p>	<p><b>LC* Aigner A., Niemann M., 13:00-13:20</b> Modelling of viscoelastic materials with a DEM, CFD and CFDEM Approach</p> <p><b>LC* Niemann M., 13:20-13:40</b> One-way coupled CFD-DEM with heat transfer reactions and advanced force models</p> <p><b>LC* Mayrhofer A., 13:40-14:00</b> Energy balance in a wall-bounded particle system</p> <p><b>LC* Mayrhofer A., Aigner A. 14:00-14:20</b> New UGGGHTS* features</p>
Break 14:20-14:35				Break 14:20-14:35		
<p><b>Charley Wu (University of Surrey)</b> DEM Analysis of Normal Impact of Wet Particles 14:35-15:05 chair: Radl, S.</p> <p><b>Hendrik Wrenger (The Ocean Cleanup)</b> News from the North Pacific and CFDEM*modelling at the Ocean Cleanup 15:05-15:25 chair: Radl, S.</p> <p><b>Riccardo Cenni (SACMI Imola S.C.)</b> Design of powder handling machines: how DEM could and should help designers in take decision within ... 15:25-15:55 chair: Radl, S.</p> <p><b>Jungwirth, A. CFDEM Funding</b> 15:55-16:00</p> <p><b>Goniva C. &amp; Kloss C. (DCS Computing)</b> LIGGGHTS* and CFDEM*coupling, recent advances, remaining challenges and road map 16:00-16:30 chair: Radl, S.</p>				<p><b>GE* Hager A., 14:35-14:55</b> Geotechnical engineering with CFDEM*coupling</p> <p><b>GE* Kanitz M., 14:55-15:15</b> Towards the modelling of the dilatancy-induced soil strength enhancement - development of a new contact...</p> <p><b>GE* Lezhnev K., 15:15-15:35</b> Application of the Discrete Element Method for Evaluating the Effectiveness of Sand Control Systems...</p> <p><b>PFT* Kerbl J., 14:35-14:55</b> Investigation of insertion behavior of different geometries in the inlet section of a screw conveyor</p> <p><b>PFT* Börzsönyi T., 14:55-15:15</b> Experimental observations on hopper flows with elongated grains</p> <p><b>PFT* Török J., 15:15-15:35</b> Numerical simulations of granular flow and clogging in a cylindrical bin</p>		
<p><b>Break / drink in foyer</b> 16:30-17:00</p> <p><b>17:00 1st train to 'Musiktheater'</b> <b>17:10 (sharp!) 2nd train to 'Musiktheater'</b></p> <p><b>Group Photo, Social event, Cocktails &amp; Networking at 'Musiktheater'</b> 17:30-19:00</p> <p><b>Conference Dinner at 'Das Anton'</b> 19:00:00 - 23:00</p>				<p><b>15:35 Conference Award</b> <b>Closing, Cocktail and Farewell</b></p>		
<p><b>Information on Technical Sessions:</b> *MC Material Calibration; chair: Cenni R. &amp; Hager A. *SLS Solid - Liquid Systems; chair: Deen N. &amp; Kerbl J. *CM Complex Materials; chair: Pirker S. &amp; Niemann M. *CFD Computational Fluid Dynamics; Sideroff C. &amp; Togni R.</p>				<p><b>Information on Technical Sessions:</b> *FB Fluidized Beds; chair: Radl S. &amp; Kerbl J. *IA Industrial Applications: Katterfeld A. &amp; Seil P. *GE Geotechnical Engineering; Luding S. &amp; Hager A. *LC New LIGGGHTS &amp; CFDEMcoupling Functionalities; chair: Blais B. &amp; Aigner A. *PFT Particle Flow &amp; Transport; Romero Valle M. &amp; Mayrhofer A.</p>		