CFDEM®conference 2017 | Park Inn Hotel, 14-15 September 2017, Linz, Austria. Preliminary Program (as of 30 August 2017)

Thursday				Friday		
Room 1	**Room 2**	**Room 3**	**Room 4**	**Room 1**	**Room 2**	**Room 3**
COFFEE & REGISTRATION 08:30-09:00						
09:00 Welcome				09:00 Welcome		
Stefan Radl (TU Graz) Closures for Mesco-scale Models of Dense Suspensions: The Euler-Lagrange Perspective 09:05-09:40 chair: Goniva, C.				**Riccardo Cenni (SACMI Imola)** Shape optimization of an industrial system geometry according to granular behaviour modelled by DEM 09:05-09:40 chair: N.N.		
Martin Schilling (BASF) Digitalization in chemical Industry: Role of DEM and CFDEM 09:40-10:15 chair: Goniva, C.				**Karl-Heinz Leitz (Plansee)** LIGGGHTS and CFDEMcoupling Simulations in Technology Development for the Processing of Refractory Metals 09:40-10:15, chair: N.N.		
Break 10:15-10:30				Break 10:15-10:30		
Niels Deen (Eindhoven University) CFD-DEM for understanding heat transport in reactive fluidized beds 10:30-11:05 chair: Kloss C.				**Stefan Luding (Twente University)** Mechanics of granular media: Experiments, Theory and Modeling From discrete particles to continuum theory and applications 10:30-11:05		
Prashant Gupta (Procter & Gamble) How useful is DEM for understanding industrial scale bulk solid handling problems: A critical appreciation 11:05-11:40 chair: Kloss, C.				**Hendrik Wrenger (The Ocean Cleanup)** 11:05-11:20 chair: Kloss. C.		
Sideroff & Stephens (Applied CCM) 11:40-12:00 chair: Kloss, C.				**Pieter Vonk (DSM Chemicals)** 11:20-11:40 chair: Kloss, C.		
				Plenary Discussion 11:40-12:00		
Lunch Break 12:00-13:00				Lunch Break 12:00-13:00		
CA* Finke B., 13:00-13:20 Novel method for the estimation of the suspension viscosity from CFD-DEM simulations	**NM* Mayrhofer A.**, 13:00-13:20 A novel DEM model for cohesive and compressible particles under large deformations	**IA*Grobbel J.**, 13:00-13:20 Modeling of solar particle receiver-reactors with the discrete element method	**Open Source CFD Workshop** 13:00-14:20 chairs: Nagy, J. & Goniva, C.	**IA* Schrader M.**, 13:00-13:20 CFD-DEM simulation for the estimation of the stress energy distribution acting in a...	**NM* Malinouski A.**, 13:00-13:20 Radiative heat transfer in particle beds for use in DEM	**PM* Pirker S.**, 13:00-13:20 Three strategies to accelerate CFD-DEM simulations
CA* Francqui F., 13:20-13:40 How GranuTools the instrument range can help to calibrate simulation parameters	**NM* Podlozhnyuk A.**, 13:20-13:40 Superquadric DEM: theory, validation, comparison to multispheres, remaining challenges	**IA* Otto H.**, 13:20-13:40 Validation of Coupled Discrete Element and Multi Body Simulations in Material Handling	**Sideroff/Stephens** 13:00-13:40	**IA* Janda A.**, 13:20-13:40 Numerical analysis of powder mixing dynamics in a ribbon mixer	**NM* Kazerovskis J.**, 13:20-13:40 Usind CFDEM in a Convergence Study of the Immersed Domain Method with an Outlook to...	**PM* Queteschiner D.**, 13:20-13:40 A multi-level coarse-grain model to speed up CFD-DEM simulations
CA* Do H., 13:40-14:00 A calibration framework of DEM variables using genetic algorithms	**NM* Askarishahi M.**, 13:40-14:00 A Voidage Correction Model for Improved Predictions of Hydrodynamics in Unresolved Euler-Lagrange Simulations	**IA* Yu Y.**, 13:40-14:00 LIGGGHTS and EDEM application on charging system of ironmaking blast furnace	**József Nagy** 13:40-14:10	**IA* Kazemi-Kamyab V.**, 13:40-14:00 Simulation of particulate flows in microchannels	**NM* Aigner A.**, 13:40-14:00 Porous and sponge-like particle behaviour within a rotary drum and spray coating	**PM* Goyal A.**, 13:40-14:00 Smart Strategies For DEM Modeling Of Industrial Processes
CA* Rackl M., 14:00-14:20 Efficient calibration of material and contact law-related DEM parameters with LIGGGHTS	**NM* Forgber T.**, 14:00-14:20 A Novel Approach to Calculate Radiative Thermal Exchange in Coupled Particle Simulations	**IA* Egger M./Haber A.**, 14:00-14:20 Caking mechanisms during the production process	**Stefan Radl** 14:10-14:20	**IA* Gómez Vázquez R.**, 14:00-14:20 Lagrangian modelling of laser sources for the simulation of manufacturing processes	**NM* Holzinger G.**, 14:00-14:20 A dual mesh approach for CFD-DEM solvers	**PM* Seil P.**, 14:00-14:20 Towards a Time Extrapolation Scheme for Large-Scale Industrial Processes
Break 14:20-14:35				Break 14:20-14:35		
Yuntian Feng (University Swansea) Modelling Non-Spherical Particles: A General Contact Framework 14:35-15:10 chair: N.N.			**Open Source CFD Workshop** 14:35-15:45 chair: Radl, S. & Nagy, J. **Thomas Schumacher** 14:35-14:55	**IA* Kerbl, J.**, 14:35-14:55 Automated geometry-variation testing	**GM* Kanitz M.**, 14:35-14:55 Investigations on the stability of submarine sandy slopes – a detailed experimental study	**NSM* Dijksman J.**, 14:35-14:55 Friction destabilizes flow: the role of microscopic particle interactions in dense granular flows
			Ardalan Moftakhari 14:55-15:15		**GM* Hager A.**, 14:55-15:15 Investigations on the stability of submarine sandy slopes – numerical aspects	**NSM* Sangrós Giménez C.**, 14:55-15:35 Structural and mechanical characterization of lithium-ion battery electrodes via DEM simulations
André Katterfeld (Magdeburg University) On the Calibration of DEM Parameters 15:10-15:45 chair: N.N.			**Khuram Walayat** 15:15-15:25		**GM* Plenker D.**, 15:15-15:35 Numerical investigations on the failure of soil columns under water with the coupled CFD-DEM	**NSM* Baric V.**, 15:15-15:35 The Simulation of Mechanical Properties of Nanoparticle Layers using DEM
Jungwirth, A., CFDEM Funding 15:45-15:50			**Gordon Rates** 15:25-15:35		**GM* Soleimani A.**, 15:35-15:55 Simulation of cohesive soil and bulk solids	**NSM* Guesnet É.**, 15:35-15:55 Nanoporous silica compaction and fracture: discrete simulation of their mechanical behavior
Goniva C. & Kloss C. (DCS Computing) LIGGGHTS® and CFDEM®coupling: recent dvances, remaining challenges and road map 15:50-16:25 chair: N.N.						
				15:55 Closing, Cocktail and Farewell		
Break / drink in foyer 16:25-17:00				*Information on Technical Sessions:*		
16:50 1st train to AEC **17:00 (sharp!) 2nd train to AEC**				*CA Calibration; chairs: Weiler, R. & Kerbl, J.		
Social event at AEC: Deep Space 17:30-18:00				*NM Novel Models; chairs Thursday: Höfert, M. & Aigner, A. ; chairs Friday: N.N.		
				*IA Industrial Application; chairs Thursday: N.N.; chairs Friday: Cenni, R. & Hager, A.		
Group Photo, Cocktails at AEC 18:00-19:00				*GM Geomechanics; chairs: Feng, Y.T. & Aigner, A.		
				*PM Pragmatical Models: chairs Leitz, K.-H. & Goniva, C.		
Conference Dinner at AEC / Cubus 19:00:00 - 23:00				*NSM NanoSim Session Materials Modeling; chairs: Pertl, M. & Radl, S.		