

CFDEM®project LIGGGHTS® and CFDEM®coupling user group meeting and workshop, 14-15 March 2016, Wissensturm, Linz, Austria

Monday 14.03.2016			Tuesday 15.03.2016		
room E_09, ground floor	room 01_02, 1st floor	room 08_05, 8th floor	room E_09, ground floor	room 01_02, 1st floor	room 08_05, 8th floor
COFFEE & REGISTRATION 08:30-09:00 (registration open until noon)			COFFEE 08:30-09:00		
09:00 Welcome			09:00 Welcome		
Keynote (chair: Goniva C.) Rouven Weiler (BASF) Application of the Discrete Element Method in Chemical Industry 09:05-09:40			Keynote (chair: Kloss C.) Hugh Stitt (Johnson Matthey) Application of CFD with DEM to Transport and Reaction Modelling in Catalytic Reactors 09:05-09:40		
Keynote (chair: Goniva C.) Bill Ketterhagen (Pfizer) Modeling the impact of powder segregation on pharmaceutical tablet manufacturing process 09:40-10:15			Keynote (chair: Kloss C.) Tuomo Keskkitalo (Neste Jacobs) Simulation of industrial scale three-phase fluidization hydrodynamics using CFD-DEM 09:40-10:15		
Break 10:15-10:30			Break 10:15-10:30		
Keynote (chair: Radl S.) Arno Kwade (TU Braunschweig) Calibration and validation of DEM process and material simulations 10:30-11:05			Keynote (Chair: Ooi J.) Stefan Luding (Twente University) Mesoscale models for particles and particles in fluids 10:30-11:05		
Keynote (chair: Radl S.) Jin Ooi (Univ. Edinburgh) Determining granular phenomena of interest from DEM simulations 11:05-11:40			Keynote (chair: Ooi J.) Stefan Pirker (JKU Linz) Time Extrapolation of Multiphase CFD - Recurrence CFD 11:05-11:40		
Plenary Short Communication C.Stoltz (PG): DEM in HPC Environment J. Kerbl (DCS): Parallel Scalability 11:40-12:00			Plenary Discussion (Goniva C., Kloss C.) N. Deen, B. Ketterhagen, J. Ooi, A. Plankensteiner, E. Rossiter, H. Stitt 11:40-12:00		
Lunch Break 12:00-13:00			Lunch Break 12:00-13:00		
			OpenFOAM® User Meeting Austria "PFAU XII" Come together and coffee 12:30-13:00		
MD* Queteschiner D., 13:00-13:20 Coupling different levels of resolution in DEM simulations			T-MAPPP Session Chair: Jin Ooi Kianoosh Taghizadek 13:00-13:15		
MD* Seil P., 13:20-13:40 LBDEMcoupling: An efficient open-source approach to resolved simulation of fluid particle systems			IA* Katterfeld A., 13:20-13:40 Coupled Discrete Element and Multi-Body Systems Simulation for Determination of the Performance of Primary Crushers		
MD* Mayrhofer A., 13:40-14:00 Large eddy simulation with SPH: Mission impossible?			IA* Nagy J., 13:40-14:00 Modeling of Melting of Polymer Pellets for the Plastification Process		
MD* Municchi F., 14:00-14:20 A Hybrid Fictitious Domain-Immersed Boundary Method for the Direct Simulation of Heat and Mass Transport in Fluid-Particle Systems			IA* Kobylka R., 14:00-14:20 Numerical simulation of the dynamic response due to discharge initiation of the grain silo		
GA* Fleischmann J., 13:00-13:20 Determination of Continuum Properties for Geomaterials Using the Discrete Element Method			MM* Gibaud R., 13:00-13:20 Modelling Dense Viscoplastic Bimaterial with the DEM		
GA* Dorostkar O., 13:20-13:40 CFD-DEM simulation of stick-slip in saturated granular media: a fault gouge model			MM* Egger M./Haber A., 13:20-13:40 Flow properties of bulk solids- comparison of calculation, simulation and measurement		
GA* Plenker D., 13:40-14:00 Simulation of transport processes of coarse sand with coupled CFD-DEM			MM* Lemrich L., 13:40-14:00 Investigation of the resonant frequencies of granular media and of its nonlinear response to acoustic waves		
GA* Falkingham P., 14:00-14:20 Using LIGGGHTS to investigate dinosaur footprint formation			MM* Hager A., 14:00-14:20 CFD-DEM on Multiple Scales		
Break 14:20-14:35			Break 14:20-14:35		
Keynote (chair: Kloss C.) Stefan Radl (TU Graz) Probing Heterogeneities in Fluid-Particle Systems with the Computer 14:35-15:10			IA* Suryawanshi T., 14:35-14:55 An Efficient Hybrid CFD-DEM Modelling Framework for Industrial Drum Coating Operations		
Keynote Goniva C. & Kloss C. (DCS Computing, CFDEMresearch) LIGGGHTS and CFDEMcoupling, recent advances, remaining challenges and road map 15:10-15:40			IA* Jagtap J., 14:55-15:15 Sand Fines Erosion in Gas Pipelines - Experiments, CFD and CFD-DEM Modeling		
Plenary Short Communication A. Aigner (DCS): CFDEMworkbench: A GUI for LIGGGHTS+CFDEMcoupling A. Jungwirth (DCS): Funding			Giuseppe Raso 14:35-14:50 Ahmed Jarray 14:50-15:05 Nikoletta Patsaki 15:05-15:20 Yousef El-Hasadi 15:20-15:35		
Break 15:55-16:10			Break 15:55-16:10		
MC* Kerbl J., 16:10-16:30 Automated material calibration using optimization algorithms			T-MAPPP (Chair: Jin Ooi) Tim Najuch 16:10-16:25		
MC* Benvenuti L., 16:30-16:50 DEM and Artificial Neural Networks parameters investigation for industrial applications			Alexander Podlozhnyuk 16:25-16:40 Ilaria Iaconeta 16:40-16:55 Behzad Soltanbelgi 16:55-17:10		
Group photo 17:00 Informal Get-Together and Group Discussion with drinks Foyer, ground floor 17:00-17:30			Workshop Closing & Farewell 17:10-17:30		
18:00 1st train ride to dinner 18:30 2nd train ride to dinner			Chair Radl S. Weiler R. Pirker S. Katterfeld A. Hager A. Ketterhagen W. / Aigner A. Ooi J.		
CFDEM®project workshop dinner 19:00 - 23:00			Contact person for uploading presentation Kloss C. Kerbl J. Goniva C. Hager A. Hager A. Aigner A. Podlozhnyuk A.		
Information on Technical Sessions: *MD Model Development & Fundamental Numerics *MC Material Calibration *GA Geotechnical Applications *MM Material Modelling *MF Multiphase Flow *IA Industrial Application * T-MAPPP					

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