PROGRAM FOR CFD2017

Monday May 29th

1800-1930 Conference reception (drinks and snacks) at Scandic Nidelven (conference hotel)

Tuesday May 30th

	Auditorium 1	Auditorium 2	Auditorium 3
0730-0815	Registration		
0815-0830	Opening		
0830-0930	Keynote: Jørn Kristiansen		
0930-1100	Under the hood of Yr Pragmatic Modelling	Population balance	Non-newtonian flows
0330-1100	Chair: Jørn Kristiansen	Chair: Jannike Solsvik	Chair: Paal Skietne
0930-1000	109: On pragmatism in industrial modelling.	10: CFD simulation of the droplet size	90: Front-tracking simulations of bubbles
0330 1000	Part III: Application to operational drilling ,	distribution of liquid-liquid emulsions in stirred	rising in non-newtonian fluids , Battistella, van
	Johansen, Meese , Zoric, Islam, Martins	tank reactors , Farzad & Schneiderbauer	Schijndel, Baltussen, Roghair & van Sint Annaland
1000-1020	72: CFD modeling of dynamic emulsion	9: A multifluid-PBE model for a slurry bubble	21: Viscoelastic flow simulations in disordered
	stability , Patil, Johansen	column with bubble size dependent velocity,	porous media , De, Kuipers, Peters & Padding
		weight fractions and temperature , Vik,	
1020-1040	127: Modelling of interaction between	Solsvik, Engh, Hillestad & Jakobsen 3: Combined multifluid-population balance	69: Tire rubber extrudate swell simulation and
1020-1040	turbines and terrain wakes using pragmatic	method for polydisperse multiphase flows ,	verification with experiments , Buist, van Dijk &
	approach , Røkenes, Panjwani, Lund, Samseth	Vikhansky	Mateboer
1040-1100	8: Recurrence CFD (rCFD) – Why don't run	12: Towards a CFD model for boiling flows:	102: A 2D sediment bed morphodynamics
	scale resolved simulations in realtime?	validation of QMOM predictions with	model for turbulent, non-Newtonian, particle-
	Pirker , Lichtenegger	TOPFLOW experiments , Buffo, Vanni,	loaded flows; Busch,Khatibi,Johansen & Time
1100 1120	Break	Marchisio, Montoya, Baglietto	
	Breakup & Coalescence	Industrial applications	Euler-Lagrange
1100 1000	Chair: Ivo Roghair	Chair: Yuqing Feng	Chair: Stefan Pirker
1130-1200	6: Experimental and numerical study on single	122: Experimental and CFD investigation of	13: Implementing the Kinetic Theory of
	droplet breakage in turbulent flow , Shi, Herø,	fractal distributor on a novel plate and frame	Granular Flows into the Lagrangian Dense
1000 : 55	Solsvik & Jakobsen	ion-exchanger , He, Kochergin, Li & Nandakumar	Discrete Phase Model , S.Cloete & Amini
1200-1220	78: Controlled coalescence with local front reconstruction method , Rajkotwala et.al.	41: Use of CFD as a design tool for a phospheric acid plant cooling pond , Davailles	80: Importance of the different fluid forces on
	reconstruction method , Kajkotwala et.ul.	& Devynck	particle dispersion in fluid phase resonance mixers , Schmalfuß & Sommerfeld
1220-1240	39:Improved collision modelling for liquid	113: Urban Wind at the Gløshaugen Campus,	91: Large scale modelling of bubble formation
	metal droplets in a slag cleaning process;	Almeida, Simonsen & Sætran	and growth in a supersaturated liquid ,
	Yang, Wolters, Pischke, Soltner, Eckert & Fröhlich		Battistella, Aelen, Roghair & van Sint Annaland
1240-1300	77: Modelling of bubble dynamics in slag	141: Numerical simulation on a high head	145: The dependence of the drag and lift of
	during its hot stage engineering , Wang, Cao, Blanpain, Vanierschot & Guo	Francis turbine , Tengs, Storli & Holst	non-spherical particles , Sanjevi & Padding
1300-1400	Lunch	Lunch	Lunch
1400-1500	Keynote: Omar K. Matar / Damir Juric		
	Multi scale approaches to solving flow		
	challenges in the oil & gas industries		
1500-1630	Oil & Gas	DEM Chair Alban Hanna	CFD codes
	Chair: Dmitry Eskin	Chair: Alice Hager	Chair: Thomas Höhne
1500 1530			120, Multiphase modelling by ANCVC and
1500-1530	75: Direct numerical simulation of proppant	85: Adaptive coarse-graining for large-scale	139: Multiphase modelling by ANSYS and
1500-1530			recently implemented features;
1500-1530 1530-1550	75: Direct numerical simulation of proppant transport in a narrow channel for hydraulic	85: Adaptive coarse-graining for large-scale DEM simulations , Queteschiner, Lichtenegger,	
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Wednesday May 31st

	Auditorium 1	Auditorium 2	Auditorium 3
0815-0830	Registration		
0830-0930	Keynote: Pascal Gardin		
	CFD as a tool to understand and optimize		
	metallurgical processes		
0930-1100	Metallurgy 1	Packed bed	Species & Interfaces
	Chair: Pascal Gardin	Chair: John Morud	Chair: Stein Tore Johansen
0930-1000	37: Experimental modelling of metallurgical	56: Numerical investigation of particle types	104: Multiscale approach to fully resolved
	processes , Gerbeth & Eckert	influence on packed bed adsorber behaviour ,	boundary layers using adaptive grids , Panda,
		Haddadi, Jordan, Norouzi & Harasek	Peters, Baltussen & Kuipers
1000-1020	31: Prediction of wall stresses in a steel	57: CFD based study of dense medium drum	27: Modelling and numerical simulation of
	making ladle during argon gas purging ,	separation processes , Eggers, Dewulf,	surface active species transport - reaction in
	Mantripragada & Sarkar	Baelmans & Vanierschot	welding processes , Dorogan
1020-1040	54: State of the art: macroscopic modelling	50: Comparison of particle-resolved direct	83: Implementation, demonstration and
	approaches for the description of multiphysics	numerical simulation and 1D modelling of	validation of a user-defined wall function for
	phenomena within the electroslag remelting process , Schubert,Rückert & Pfeifer	catalytic reactions in a packed bed , Singhal, S.Cloete, Radl, Quinta-Ferreira & Amini	direct precipitation fouling in Ansys Fluent , Johnsen, Pääkkönen, Johansen, Keiski & Wittgens
1040 1100			
1040-1100	66: LES-VOF simulation of turbulent interfacial	67: A multi-domain 1D particle-reactor model	138: Adsorption-desorption modeling for a
	flow in the continuous casting mold ,	for packed bed reactor applications , Tabib,	chemical reaction using Stochastic Rotation
1100 1120	Saeedipour, Puttinger & Pirker Break	S.Cloete, Morud, Lysberg & Amini	Dynamics , Sengar, Padding, Kuipers, Santen
1100-1130 1130-1300	Biomechanics & Industrial applications	Metallurgy 2	Break Fluidized bed 2
1130-1300	Chair: Sigrid Kaarstad Dahl	Chair: Eirik Manger	Chair: Shahriar Amini
1130-1200	64: Oscillatory flow and mass transport in a	93: Numerical predictions of the shape and	123: Development of filtered particulate
1130 1200	coronary artery, Gabriel, Ding, Gear & Feng	size of the raceway zone in a blast furnace ,	Eulerian modeling approach for the industrial
		Safronov, Richter & Meyer	prediction of bi-disperse gas-solid fluidized
		Surronov, Menter & Meyer	bed , Chevrier, Fede, Masi & Simonin
1200-1220	55: Patient specific numerical simulation of	17: CFD-DEM modelling of blast furnace	25: Effect of lift force on dense gas-fluidized
	flow in the upper airways for assessing the	tapping , Vångö & Lichtenegger	beds of non-spherical particles , Mema,
	effect of nasal surgery , Jordal, Johnsen, Dahl &		Mahajan, Fitzgerald, Kuipers & Padding
	Müller		
1220-1240	36: Shape factors inclusion in a one-	52: Multiphase flow modelling of furnace	49: Experimental and numerical investigation
	dimensional, transient two-fluid model for	tapholes , Reynolds & Erwee	of a bubbling dense gas-solid fluidized bed,
	stratified and slug flow simulations in pipes ,		Yang, Padding & Kuipers
	Bonzanini, Picchi, Ferrari & Poesio		07.01
1240-1300	86: Numerical evaluation of co-firing solid	53: Solidification modeling with user defined	95: Direct numerical simulation of the effective
	recovered fuel with petroleum coke in a	function in ANSYS Fluent , Eickhoff, Rückert & Pfeifer	drag in gas-liquid-solid systems , Baltussen, Kuipers & Deen
	cement rotary kiln: Influence of fuel moisture ,	riellel	Kulpers & Deen
4200 4400	Isaac, Pedersen, Grévain, Jensen & Nielsen	Lucak	Lucak
1300-1400 1400-1500	Lunch	Lunch	Lunch
1400-1300	Keynote: Rajat Mittal		
	Multiphysics Computational Models of		
	Cardiac Hemodynamics: from Fundamental		
1500-1630	Questions to Clinical Applications Biomechanics	Metallurgy 3	Fluidized bed 3
1300-1030	Chair: Rajat Mittal	Chair: Sabita Sarkar	Chair: Hugo Jakobsen
1500-1530	73: Investigating the numerical parameter	11: Modelling of chemical reactions in	92: Verification of filtered two fluid models for
_500 1550	space for a stenosed patient-specific internal	metallurgical processes , Kinaci, Lichtenegger &	reactive gas-solid flows , J.H.Cloete, S. Cloete,
	carotid artery model, Mancini, Bergersen,	Schneiderbauer	Radl & Amini
	Segers & Valen-Sendstad		
1530-1550	32: A computational framework involving CFD	14: Using CFD analysis to optimise top	44: High temperature fluidization - influence of
	and data analytics for analyzing cartoid-artery	submerged lance geometries , Gwynn-Jones	inter-particle forces on fluidization behavior ,
	bifurcation disease , Tabib, Fonn & Rasheed	et.al .	Mihajlovic, Roghair & van Sint Annaland
1550-1610	125: Velocity profiles in a 2D model of the left	20: Numerical analysis of the temperature	34: A Lagrangian-Eulerian hybrid model for the
	ventricular outflow tract, pathological case	distribution in a martensic stainless steel strip	simulation of direct reduction of iron ore in
	study using PIV and CFD modeling , Leinan ,	during hardening, Pirouznia, Andersson,	fluidized beds , Schneiderbauer, Kinaci,
4646 4655	Skjetne , Morud, Urheim & Dahl	Tilliander & Jönsson	Hauzenberger & Pirker
1610-1630	68: CFD simulations of turbulent flow in the	124: Validation of a rapid slag viscosity	48: A Two-Fluid Model study of hydrogen
	human upper airways , Aasgrav, Johnsen, Simonsen & Müller	measurement by CFD , Vandensande, Nagels & Arnout	production via Water Gas Shift in fluidized bed membrane reactors , Voncken, Roghair & van
	Simonsell & Wuller	, anout	Sint Annaland
1630-1700	Coffee/Snacks	Coffee/Snacks	Coffee/Snacks
1030-1700	Correct Gridens	correct strucks	correct stracks

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Thursday June 1st

	Auditorium 1	Auditorium 2	Auditorium 3
0830-0930	Keynote: Niels Deen		
	Modelling and intensifying bubble columns		
	across the scales		
0930-1100	Bubbly flows	Fundamental fluid dynamics	Metallurgy 4:
	Chair: Niels Deen	Chair: Ernst Meese	Chair: Gunter Gerbeth
0930-1000	131: Bubble generated turbulence in two fluid	108: A DNS study of droplet spreading and	129: Modelling and measurements in the
	simulation of bubbly flow , Schwarz, Feng &	penetration on a porous medium, Das, Milacic,	aluminium Industry - Where are the obstacles?
	Witt	Patel, Deen & Kuipers	Manger
1000-1020	35: Modelling of fluid dynamics, mass transfer	22: Flow past a yawed cylinder of finite length	51: Granular flow described by fictitious fluids:
	and chemical reaction in bubbly flows , Rzehak	using a fictitious domain method , Pierson,	a suitable methodology for process
	& Krauß	Hammouti & Auguste	simulations , Sparta & Halvorsen
1020-1040	45: Stochastic DSMC model for large scale	114: From linear to nonlinear: Transient	118: Cleaning of Polycyclic Aromatic
	dense bubbly flows, Kamath, Padding, Buist &	growth in confined magnetohydrodynamic	Hydrocarbons (PAH) obtained from
	Kuipers	flows , Cassells, Vo, Pothérat & Sheard	Ferroalloys plant , Panjwani et.al.
1040-1100	116: On the surfacing mechanism of bubble	64: A numerical evaluation of the effect of	115: A multiscale numerical approach of the
	plumes from subsea gas release , Olsen &	the elctro-magnetic force on bubble flow in	dripping slag in the coke bed zone of a pilot
	Skjetne	aluminium smelting process, Feng, Witt, Zhao,	scale Si-Mn furnace , Letout, Ratvik, Tangstad
1100-1130	Break	Break	Break
1130-1300	Free surface flow	Population balance 2	Heat transfer
	Chair: Mark Sussman	Chair: Daniele Marchisio	Chair: Maike Baltussen
1130-1200	46: Influence of the Upstream Cylinder and	28: Numerical simulations of tubulent liquid-	7: CFD-simulation of boiling in a heated pipe
	Wave Breaking Point on the Breaking Wave	liquid dispersions with quadrature-based	including flow pattern transitions using a multi-
	Forces on the Downstream Cylinder , Kamath,A.	moment methods, Buffo, Li, Podgórska, Vanni	field concept , Höhne, Krepper & Lucas
	et.al .	& Marchisio	
1200-1220	84: Recent developments for the computation	18: Simulation of dispersion of immiscible	23: The Pear-Shaped Fate of an Ice Melting
	of the neccessary submergence of pump	fluids in a turbulent couette flow , Vikhansky	Front , Hewett, J.N. and Sellier
	intakes with free surfaces, Bloemeling, F. and	& Eskin	
	Lawall, R.		
1220-1240	126: Parallel multiphase flow software for	26: Simulation of gas-liquid flows in	107: An Euler-Euler Model for Gas-Liquid Flows
	solving the navier-stokes equations , Al-Rashed,	separators - a Lagrangian approach , Morud,	in a Coil Wound Heat Exchanger , Acher, Knaup,
	F. S. and Shariff M.M.	J.C. and Dahl, S.K.	Braun & Zander
1240-1300	43: Unresolved CFD-DEM in environmental	76: CFD modelling to predict mass transfer in	103: Flow dynamics studies for flexible
	engineering: submarine slope stability and	pulsed sieve plate extraction columns , Sen,	operation of continuous casters (flow flex cc) ,
	other applications , Hager,A.et.al.	Singh, & Shenoy	Forslund, Barestrand, Ramirez Lopez, Jalali,
			Olofsson, Lindbäck & Roos
1300-1400	Lunch	Lunch	Lunch
1400-1500	Keynote: Mark Sussman		
	A new paradigm for numerically simulating		
	multiscale phenomena using the		
	multimaterial moment of fluid method and		
	block structured adaptive mesh refinement:		
	applications to marine hydrodynamics		
1500-1530	Summary / Coffee & snacks		

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