

TUESDAY JUNE 10

Time	AUDITORIUM R1	AUDITORIUM R2	AUDITORIUM R4
0800-0830	Registration		
0830-0855	Opening		
0855-0940	Keynote: Michael Graham , University of Wisconsin <i>Drag reduction and viscoelastic turbulence in polymer solutions: toward a unified framework</i>		
0945-1115	Session R1-01: Drag Reduction/Flow Acoustics	Session R2-01: Population Balance	Session R4-01: Flotation
0945-1015	<u>Lead paper CFD08-096: High Frequency Dynamics in Centrifugal Compressors</u> , A.Twerda, D.Meulendijks, J.Smeulers, R.van den Handel & L.van Lier	<u>Lead Paper CFD08-025: A Population Balance Approach for Polydispersed Bubbly Flows Considering size Dependent Bubble Forces</u> E.Krepper, T.Frank, D.Lucas, H-M.Prasser & P.J.Zwart	<u>Lead paper CFD08-029: Numerical Modelling of Non-Newtonian Slurry in a Mechanical Flotation Cell</u> , C.Bakker, C.J. Meyer & D.A.Deglon
1015-1035	CFD08-101: <i>A Phenomenological Model of Aero-Acoustic Wave Propagation in Low Mach Number Corrugated Pipe Flow</i> , M.Popescu & S.T.Johansen	CFD08-004: <i>Prediction of Inclusion Size and Composition in Liquid Steel</i> , L.Claudotte, P.Gardin, M.Simonnet, N.Rimbert, B.Oesterlé & J.Lehmann	CFD08-040: <i>A Numerical Model for a Flotation Cell</i> , M.Streng & O.Wünsch
1035-1055	CFD08-023: <i>DNS Experiments in Taylor-Couette Geometry: Case of Drag-reducing Fluids</i> , S.Guillou & R.Makhloufi	CFD08-060: <i>CFD Modelling Coupled to Population Balance to Describe Bubble Size Distribution in Agitated Vessels and Bubble Columns</i> , M.Petitti, <i>et.al.</i>	CFD08-052: <i>Development of Automatic Algorithm for Combining CFD and Multiblock Modelling and Application to Flotation Cell</i> , M.Seppälä, M.Laakkonen, M.Manninen, V.Alopaeus & J.Aittamaa
1055-1115	CFD08-094: <i>Drag Reduction in Swirling Pipe Flow</i> , F.Nygård & H.I.Andersson	CFD08-080: <i>Implementation of the Sectional Quadrature Method of Moments in a CFD code</i> , C.Drumm, M.Attarakih, S.Tiwari, J.Kuhnert & H.-J. Bart	CFD08-007: <i>Coupling of CFD and Discrete Calculation of the PBE: Application to the Inclusion Removal by Flotation</i> , J.P.Bellot, O.Mirgaux, D.Ablitzer & E.Waz
1115-1145	Coffee Break		
1145-1315	Session R1-02: Meshfree Methods	Session R2-02: Multiphase Pipe Flow	Session R4-02: Mixing/Separation
1145-1215	<u>Lead paper CFD08-047: On the Feasibility of Using the Mesh-free SPH Method for Modelling Thermo-Mechanical Responses in Arc Welding</u> , R.Das & P.W.Cleary	<u>Lead paper CFD08-010: CFD-Analysis of Terrain-induced Slug Flow Regimes in Multiphase Pipeline Systems</u> , A.Ragab, W.Brandstaetter, G.Ruthammer & S.Shalaby	<u>Lead paper CFD08-006: A Novel Method to include the Free Surface in a CFD Model of Jet Injection into Partially-Baffled Mixing Vessels</u> , J-P.Torré, P.Higgins, C.Xuereb & D.F.Fletcher
1215-1235	CFD08-048: <i>Modelling Brittle Fracture and Fragmentation of a Column During Projectile Impact Using a Mesh-Free Method</i> , R.Das & Cleary	CFD08-104: <i>Modelling of Breakup and Coalescence in Vertical Bubbly Two-Phase Flows</i> , S.Lo & D.Zhang	CFD08-087: <i>CFD Analysis for Performance Improvement of Electrostatic Precipitators in the Cement Industry</i> , S.Srivastava, V.Vitankar, J.V.Joshi, M.C.Agarawal & B.Basu
1235-1255	CFD08-079: <i>A meshfree CFD-Population Balance Equation coupled Model</i> , S.Tiwari, <i>et.al.</i>	CFD08-122: <i>Liquid-Liquid Flow in Horizontal Pipe</i> C.Conan, A.Pouplin, O.Masbernat, S.Decarre & A.Line	CFD08-078: <i>A Computational Study of the Coalescence Process Between a Drop and an Interface in an Electric Field</i> , K.E.Teigen, S.T.Munkejord & E.Bjørklund
1255-1315	CFD08-103: <i>Simulation of Mud Loss Using Coupled CFD and DEM</i> , P.Skjetne, H.Laux & A.Lavrov	CFD08-037: <i>Computational Study of Stratified Gas/Liquid Flow in Horizontal and Inclined Pipes</i> , W.A.S.Kumara, B.M.Halvorsen & M.C.Melaen	CFD08-027: <i>Study and Optimization of Spacer Filament Geometry for Spiral Wound Membrane</i> , K.K.Lau, , M.Z.Abu Bakar, A.L. Ahmad & S.H.Chang
1315-1415	Lunch		
1415-1510	Keynote: Cristoph Beckermann , University of Iowa <i>Multiscale modeling of solidification processes</i>		
1515-1645	Session R1-03: Solidification	Session R2-03: Fluidized Bed	Session R4-03: Oil/Gas + Flashing Flows
1515-1545	<u>Lead paper CFD08-024: Influence of Forced Convection to the Directional Solidification of AlSi Alloys – Comparison of Experiment and Simulation</u> , J.Dagner, J.Friedrich & G.Müller	<u>Lead paper CFD08-053: Role of Flow Structure on Ozone Decomposition in Gas-solid Fluidized Beds – A Multiscale Mass Transfer Model</u> , W.Dong, W.Wang & J.Li	<u>Lead paper CFD08-036: A Model of Convection of Non-Newtonian Slurry in a Vertical Fracture</u> , D.Eskin
1545-1605	CFD08-058: <i>Modelling of Convective Phenomena in Crystal Growth of Silicon for Photovoltaic Applications</i> , J.Dagner T.Jung, A.Yeckel & J.Friedrich	CFD08-019: <i>Application of CFD Modelling to Investigate Fluidized Limestone Reactors for the Remediation of Acidic Drainage Waters</i> , R.Vuthaluru, M.Tade, H.Vuthaluru, Y.Tsvetnenko, L.Evans & J.Milne	CFD08-059: <i>Analytical Treatment of Single-Well Push-Pull “Echo” Tests</i> , S.G.Johnsen & C.H.Whitson
1605-1625	CFD08-125: <i>Modelling of MC-Silicon Ingot Casting</i> , E.A.Meese	CFD08-056: <i>Evaluation of Eulerian-Eulerian CFD Models for Predicting the Hydrodynamics of Circulation Fluidized Bed</i> , A.Almuttahir & F.Taghipour	CFD08-086: <i>Flash Vessel Process Design</i> , L.Gunnewiek & U.Shah
1625-1645	CFD08-017: <i>Prediction of Feeding, Freezing and Defect Creation in Low Pressure Die Casting</i> , P.W. Cleary	CFD08-097: <i>CFD Study of a Rotating Chimney for Rotating Fluidized Beds</i> , J.De Wilde	CFD08-035: <i>Three-Dimensional Modelling of Industrial Flashing Flows</i> , C.Marsh & A.O’Mahony
1645-1715	Coffee		

WEDNESDAY JUNE 11

Time	AUDITORIUM R1	AUDITORIUM R2	AUDITORIUM R4
0830-0925	Keynote: Sergio Vásquez, ANSYS UK <i>Numerical methods for predicting Eulerian multiphase flows</i>		
0930-1100	Session R1-05: Multiphase Pipe Flow	Session R2-05: Bubble & Droplet Dynamics	Session R4-05: Particle Tracking
0930-1000	<u>Lead paper CFD08-123: Multi-Dimensional Simulations of Stratified to Dispersed Flow Transitions in Gas-Oil Two-Phase Flow in Pipelines,</u> H.Laux, S.T.Johansen, K.M.Bansal T.J.Danielson, A.Goldszal & J.I.Monsen	<u>Lead paper CFD08-098: VOF-Based Simulation of Reactive Mass Transfer Across Deformable Interfaces,</u> D.Bothe, M.Kröger, A.Alke & H.J.Warnecke	<u>Lead paper CFD08-050: Numerical Study and Experimental Validation of Particle Strand Formation,</u> D.Kahrimanovic, S.Pirker & C.Kloss
1000-1020	CFD08-012: <i>Numerical Prediction of Horizontal Stratified Flows,</i> T.Höhne & C.Vallée	CFD08-113: <i>Movement of Bubbles Under a Solid Surface,</i> A.Perron, L.Kiss, S.Poncsák & P.Chartrand	CFD08-051: <i>Implementation and Experimental Validation of a Stochastic Interparticle Collision Model,</i> C.Kloss & S.Pirker
1020-1040	CFD08-013: <i>Large-scale 3D Simulation of Stratified Gas-Liquid Flow Transition and Slug Formation in Oil Transport Pipes,</i> D.Lakehal & D.Caviezel	CFD08-070: <i>Numerical Derivation of the Drag Force Coefficient in Bubble Swarms Using a Front Tracking Model,</i> W.Dijkhuizen, I.Roghair, M.van Sint Annaland & J.A.M.Kuipers	CFD08-043: <i>Influence of Particle Agglomeration and Agglomerate Porosity on the Simulation of Gas Cyclones,</i> J.Lipowsky & Sommerfeld
1040-1100	CFD08-054: <i>Pneumatic Transport of Solid Particles: Simulation and Validation in a Circular Pipe,</i> D.Suzzi, T.Hoermann & Andreas Reisinger	CFD08-091: <i>Numerical Investigation on the Rise Behaviour of Single Gaseous Bubbles in Quiescent Liquids,</i> H.Weking & B.Weigand	CFD08-092: <i>Dynamics of Sheared Suspensions: Simulation of Hydrodynamic Interactions and Collisions,</i> E.Climent, M.Abbas, O.Simonin & M.Maxey
1100-1130	Coffee Break		
1130-1300	Session R1-06: Furnace Modelling	Session R2-06: Population Balance	Session R4-06: Lattice Boltzmann
1130-1200	<u>Lead paper CFD08-022: CFD Modelling of Molten Matte and Slag flows in a Circular 3-phase Smelting Furnace,</u> J.J.Bezuidenhout, J.J.Eksteen & S.M.Bradshaw	<u>Lead paper CFD08-020: Modelling of Bubble Column with Bubble Number Density Equation Using Least-Squares Method,</u> Z.Zhu, C.A.Dorao & H.A.Jakobsen	<u>Lead paper CFD08-105: Determination of Aerodynamic Coefficients of Agglomerates Using the Lattice-Boltzmann Method,</u> M.Dietzel & M.Sommerfeld
1200-1220	CFD08-084: <i>A Coupled Numerical Study of Slab Temperature and Gas Temperature in the Walking-Beam Type Slab Reheating Furnace,</i> Hsieh, M.-J.Huang, S.-T.Lee & C.-H.Wang	CFD08-076: <i>Dynamic Modelling of Liquid Extraction Columns Using the Direct Primary and Secondary Particle Method,</i> M.Attarakih, D.Zeidan, C.Drumm, H.Allaboun, S.Tiwari, H.-J.Bart, J.Kuhnert	CFD08-066: <i>Towards the Construction of Lattice Boltzmann Models for Two Phase Flow Simulation at High Pressures,</i> P.M.Dupuy, L.E.Patrano, M.Fernandino, H.A.Jakobsen & H.F.Svendsen
1220-1240	CFD08-099: <i>Using Computational Fluid Dynamics to Optimize a Waste Heat Boiler Design,</i> S.Thakre, T.Kumaresan, B.Basu, M.Patel, T.Mukhopadhyay, R.Chugh, K.Khandelwal & Y.Mathur	CFD08-041: <i>Comparison of Supersonic Droplet Mixing and Evaporation Simulation Between the Full Multiphase, Musig and H-Musig Models,</i> M.Darwish & F.Moukalled	CFD08-089: <i>Fluid-Particle Interaction Force for Polydisperse Systems from Lattice Boltzmann Simulations,</i> S.Sarkar, M.A.van der Hoef & J.A.M.Kuipers
1240-1300	CFD08-031: <i>CFD Based Approach to Control Ash Related Problems in a Large Scale Tangentially Fired Boiler,</i> H.Vuthaluru, R.Vuthaluru, H.Yurismono & M.Parinussa	CFD08-074: <i>Population Balance Modelling Applied to the Study of Droplet Behaviour,</i> L.E.Patrano, C.A.Dorao, H.A.Jakobsen & H.F.Svendsen	CFD08-068: <i>Effects of Heterogeneity on the Drag Force in Random Arrays of Spheres,</i> S.H.L.Kriebitzsch, M.A.van der Hoef, J.A.M.Kuipers
1300-1400	Lunch		
1400-1455	Keynote: Horst-Michael Prasser, ETH Zürich <i>Tomographic methods for measurements and visualization of complex flowing systems</i>		
1500-1610	Session R1-07: Validation/Measurements	Session R2-07: Oil/Gas Applications	Session R4-07: Industrial Applications
1500-1530	<u>Lead paper CFD08-032: UDV Measurements and CFD Simulation of two-phase Flow in a Stirred Vessel,</u> S.Haavisto, J.Sytjänen, A.Koponen & M.Manninen	<u>Lead paper CFD08-018: Extreme Wave Interaction With a Floating Oil Rig,</u> P.Cleary & M.Rudman	<u>Lead Paper: CFD08-033: CFD Simulation of a Honeycomb Monolith Photoreactor,</u> S.H.Chong, V.Pareek, S.Wang, M.O.Tade & H.M.Ang
1530-1550	CFD08-102: <i>Accuracy of Bubble velocity Measurement with a Four-Point Optical Fibre Probe,</i> W.Bai, N.G.Deen, Robert F.Mudde & J.A.M.Kuipers	CFD08-128: <i>Simulation of Lifeboat Launching under Storm Conditions,</i> H.J.Mørch, S.Enger, M.Peric & E.Schreck	CFD08-064: <i>A Particle Tracking Technique to Estimate Disinfection Efficacy in Drinking Water Treatment Plants,</i> B.A.Wols, J.A.M.H.Hofman, W.S.J.Uijtewaald, L.C.Rietweld, G.S.Stelling & J.C.vanDijk
1550-1610	CFD08-073: <i>Experimental Study on Solids Circulation Patterns and Bubble Behavior Using Particle Image Velocimetry Combined with Digital Image Analysis,</i> J.A.Laverman, <i>et.al.</i>	CFD08-062: <i>Computational Modelling of Internal Waves in Gas-Oil-Water Separators with Verification Against Experimental Data,</i> A.R. Kristoffersen, K.Sveen, I.Fosse & D.Wood	CFD08-046: <i>Application of CFD for Efficient Hydrodynamic Design of Pump-Mix Mixer Settlers,</i> K.K.Singh, S.M.Mahajani, K.T.Shenoy & S.K.Ghosh
1610-1640	Coffee Break		
1730	Bus departure for Dinner (Downtown departure at 1745)		
1800-2300	CONFERENCE DINNER at Ringve Museum (http://www.ringve.no/English/)		

THURSDAY JUNE 12

Time	AUDITORIUM R1	AUDITORIUM R2	AUDITORIUM R4
0830-0925	Keynote: Dieter Bothe, RWTH Aachen <i>Bubble dynamics and transfer processes in pure and contaminated system</i>		
0930-1100	Session R1-08: Bubble & Droplet Dynamics	Session R2-08: Fluidized Bed	Session R4-08: Metallurgical Applications
0930-1000	<u>Lead paper CFD08-069: Direct Numerical Simulation of the Lift Force in Bubbly Flows,</u> W.Dijkhuizen, M.van Sint Annaland & J.A.M.Kuipers	<u>Lead paper CFD08-038: A Discrete Element Study of Moisture Dependent Particle-Particle Interaction During Granulation in a Spout Fluidized Bed,</u> M.S. van Buijtenen, <i>et.al.</i>	<u>Lead paper CFD08-009: CFD Modelling of a Reactive Gas Stirred Three Phase Silicon Reactor,</u> J.E.Olsen, D.Darmana, A.Ashrafian & K.Tang
1000-1020	CFD08-072: <i>Simulation of Free-Rising Bubble with Soluble Surfactant Using Moving Mesh Finite Volume/ Area Method,</i> Ž. Tuković & H.Jasak	CFD08-045: <i>Experimental and Numerical Investigation Into Gas Vortex Structures Above A Gas-Solid Fluidised Bed After Successive Single Bubble Eruptions,</i> S.Vun, J.Naser, P.Witt & W.Yang	CFD08-114: <i>A Reactor Model for Ladle Refining of Silicon Metal,</i> A.Ashrafian, S.T.Johansen, S.Gaal & B.Andresen
1020-1040	CFD08-071: <i>Front Tracking Simulations on Liquid-Liquid Systems; an Investigation of the Drag Force on Droplets,</i> I.Roghair, W.Dijkhuizen, M.Van Sint Annaland & J.A.M.Kuipers	CFD08-081: <i>Numerical Study of Bubbling Fluidized Bed Using a Kinetic Theory for Granular Materials Including Normal Stress Effects,</i> D.Dimitrova & A.Sadiki	CFD08-100: <i>Design Optimization of the De-duster to Reduce Alumina Carry Over Load on the Dry Scrubbing System,</i> T.Kumaresan, S.Thakre, B.Basu, B.Jain, K.Pandey, R.Singh & R.Somani
1040-1100	CFD08-077: <i>The Influence of Viscosity and Surface Tension on Droplets Impinging on an Oblique Wall,</i> J.Urban, B.Weigand, M.Eyselein & R.Tatschl	CFD08-057: <i>CFD Simulations of Heat Transfer in Rotating Fluidized Beds in a Static Geometry,</i> J.De Wilde	CFD08-119: <i>CFD Modelling of Aluminum Mixing in a HDGL Zinc Pot,</i> E.van Vliet, T.Lucas, T.Peeters, M.Huisert & R.Mallens
1100-1130	Coffee Break		
1130-1300	Session R1-09: Meshfree Methods	Session R2-09: Bubble Columns	Session R4-09: Heat & Mass Transfer
1130-1200	<u>Lead paper CFD08-127: Particle-Fluid Multiphase Flow Modelling Using Computational Fluid Dynamics (CFD) and Discrete Element Modelling (DEM),</u> W.S.Wong, S.Cole & J.Favier	<u>Lead paper CFD08-063: Development and Initial Application of a Combined Volume of Fluid and Discrete Phase Modelling Approach to Gas Stirred Vessels,</u> S.W.P.Cloete, J.J.Eksteen & S.M.Bradshaw	<u>Lead paper CFD08-026: A Vof-based 3D Numerical Investigation of Evaporating, Deformed Droplets,</u> J.Schlottke, E.Dülger & B.Weigand
1200-1220	CFD08-016: <i>Ball Motion in a Full Scale Two Chamber Cement Mill,</i> P.W.Cleary	CFD08-039: <i>CFD-Modelling of the Bubble Size in a Bubble Column Using the One-group Interfacial Area Concentration Equation,</i> R.Hansen, T.Solberg & B.H.Hjertager	CFD08-014: <i>CFD-based Adsorption Modelling: From Pilot to Industrial Scale,</i> F.Augier, C.Laroche & E.Brehon
1220-1240	CFD08-093: <i>Finite Pointset Method (FPM): New Meshfree Flow Solver with Applications to Industry,</i> J.Kuhnert	CFD08-082: <i>Design of Bubble Column Reactor by Population Balance Approach,</i> A.S.Kumar, V.Vitankar & B.Basu	CFD08-067: <i>CFD Model for Particulate Fouling – Modelling Particle Adhesion on Surface with XDLVO Theory,</i> U.Ojaniemi, T.Pättikangas, M.Riihimäki & M.Manninen
1240-1300	CFD08-030: <i>Dissipative Particle Dynamics Beyond Polymer Science,</i> J.C.Arce & H-J.Bart	CFD08-083: <i>Computational Fluid Dynamics of Gas-liquid Flows in Bubble-columns Including Bubble Population Balances</i> S.Bove, T.Solberg & B.H.Hjertager	CFD08-121: <i>Flow and Heat Transfer in Pipe Caused by Localized Cold Spot,</i> U.Mme, S.T.Johansen, S.Sarkar, R.Moe, A.Goldszal, H.Holm & Y.Ladam
1300-1400	Lunch		
1400-1445	Keynote: Paul Meakin, Idaho National Laboratory <i>Dissipative particle dynamics and related methods for multiphase fluid flow in fractured and porous media</i>		
1445-1500	Awards / Closing		
1500-1530	Coffee		
1510-1700	Optional Technical Visits (Excursions)		