

Preliminary Programme

Multiphase Flows: Simulation, Experiment and Application Dresden, 24 -26 June 2008

| Tuesday, 24 June 2008 | | | | |
|----------------------------------|----------|-----------------------|---|--|
| Short Course on Multiphase Flows | | | | |
| Time | Lecturer | Affiliation | Title | |
| 08:00 | 08:50 | | Registration | |
| 08:50 | 09:00 | E. Krepper | Forschungszentrum Dresden, Rossendorf | Welcome |
| 09:00 | 10:00 | M. Braun | Fluent Deutschland, Darmstadt | Mathematical Models for Multiphase Flows: Overview and Basic Equations |
| 10:00 | 10:30 | | Communication Break with Coffee, Tea & Beverages | |
| 10:30 | 11:30 | T. Frank | ANSYS Germany, Otterfing | Eulerian Multiphase Flow Modelling: Phase Interaction Models |
| 11:30 | 11:45 | | Communication Break with Coffee, Tea & Beverages | |
| 11:45 | 12:45 | T. Frank | ANSYS Germany, Otterfing | Lagrangian Two-Phase Flow Modelling |
| 12:45 | 14:00 | | Lunch | |
| 14:00 | 15:00 | E. Krepper | Forschungszentrum Dresden, Rossendorf | Interfacial Heat and Mass Transfer Models |
| 15:00 | 15:15 | | Communication Break with Coffee, Tea & Beverages | |
| 15:15 | 16:15 | U. Hampel | Forschungszentrum Dresden, Rossendorf | Measurement Techniques and Experimental Investigations for Multiphase Flows |
| 16:15 | 16:30 | | Communication Break with Coffee, Tea & Beverages | |
| 16:30 | 17:30 | T. Frank & E. Krepper | ANSYS Germany, Otterfing & Forschungszentrum Dresden | Practical Calculation of Bubble Column Flow with ANSYS CFX |
| 17:30 | 18:30 | All | | Discussion, Questions & Answers |
| 19:00 | | | Short Course Dinner @ FOUR POINTS by Sheraton Königshof, Dresden | |
| Wednesday, 25 June 2008 | | | | |
| Session A-1 | | | | |
| Chair: | | | | |
| Time | Lecturer | Affiliation | Title | |
| 08:15 | 09:30 | | Registration | |
| 09:30 | 09:40 | F. P. Weiss | Forschungszentrum Dresden, Rossendorf | Welcome & Opening |
| 09:40 | 10:00 | F. P. Weiss | Forschungszentrum Dresden, Rossendorf | Introduction to the Research Centre Dresden |
| 10:00 | 11:00 | D. Quéré | École Supérieure de Physique et de Chimie Industrielles de la Ville de Paris, Paris | Invited Lecture: Strategies for Water Repellency |
| 11:00 | 11:30 | | Communication Break with Coffee, Tea & Beverages | |
| Session A-2 | | | | |
| Chair: | | | | |
| Time | Lecturer | Affiliation | Title | |
| 11:30 | 12:00 | P. W. Guilbert | ANSYS UK, Milton Park | Improved Numerical Discretisation for the Virtual Mass Force in Eulerian Multiphase Flow |
| 12:00 | 12:30 | T. Höhne | Forschungszentrum Dresden, Rossendorf | Post-Test CFD Calculations of Pressurized Air-Water TOPFLOW Hot Leg Experiments |
| 12:30 | 13:00 | V. Hernandez-Perez | University of Nottingham, Nottingham | A Comparison of the Volume-of-Fluid and Two-Fluid Models on the Numerical Simulation of Oil-Water Separation |
| 13:00 | 14:15 | | Lunch | |
| Session A-3 | | | | |
| Chair: | | | | |
| Time | Lecturer | Affiliation | Title | |
| 14:15 | 14:45 | B. Popoff | Fluent Deutschland, Darmstadt | The Dense Discrete Phase Model (DDPM) for Simulation of Dispersed Multiphase Flows |
| 14:45 | 15:15 | S. Pirker | Johannes Kepler Universität Linz, Linz | Modelling Dense Solid-Particle Flows - A Competition Between Accuracy and Feasibility |
| 15:15 | 15:45 | A. Filippov | Nuclear Safety Institute of Russian Academy of Science | Some Applications of Fluent's UDF Technique to Complex Physical Problems |
| 15:45 | 16:00 | | Communication Break with Coffee, Tea & Beverages | |
| Session A-4 | | | | |
| Chair: | | | | |
| Time | Lecturer | Affiliation | Title | |
| 16:00 | 16:30 | C. Bahriawati | Arsenal Research, Wien | Numerical Simulation of Falling Film Flow on a Vertical Plate |
| 16:30 | 17:00 | M. Mavletov | Bashkir State University, Ufa | The Detection of Blocking Phenomena in the Flow of Emulsion with Chemically Simple Component Structure |
| 17:00 | 17:30 | P. Lobanov | Kutateladze Institute of Thermophysics SB RAS, Novosibirsk | Hydrodynamical Characteristics of Downward Liquid Flow over a Stationary Taylor Bubble |
| 17:30 | 18:00 | E. Krepper | Forschungszentrum Dresden, Rossendorf | CFD Modelling of Insulation Debris Transport Phenomena in Water Flow |

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|------------------------|-----------------|--|--|---|
| 18:00 | 19:00 | Transfer by Public Transport: Workshop Venue @ FOUR POINTS by Sheraton Königshof --> Panometer, Gasanstaltstr. 8b, Dresden | | |
| 19:00 | 22:00 | Conference Dinner & Exhibition @ Panometer | | |
| Thursday, 26 June 2008 | | | | |
| Session B-1 | | | | |
| Chair: | | | | |
| Time | Lecturer | Affiliation | Title | |
| 09:00 | 10:00 | M. Podowski | Rensselaer Polytechnical Institute, Troy | Invited Lecture: Multidimensional Modelling of Two-Phase Flow and Heat Transfer: Recent Advances and Future Challenges |
| 10:00 | 10:30 | M. Hussainov | Tallinn University of Technology, Tallinn | Dispersion of Solid Particles in Grid-Generated Turbulent Flow |
| 10:30 | 11:00 | Communication Break with Coffee, Tea & Beverages | | |
| Session B-2 | | | | |
| Chair: | | | | |
| Time | Lecturer | Affiliation | Title | |
| 11:00 | 11:30 | M. Springmann | Brandenburgische Technische Universität Cottbus, Cottbus | Numerical simulation of Quenching Processes for Residual Stress Optimization in Compressor and Turbine Disks |
| 11:30 | 12:00 | M. Javurek | Johannes Kepler Universität Linz, Linz | Multiphase Flows in Continuous Casting of Steel |
| 12:00 | 12:30 | A. Goharzadeh | The Petroleum Institute, Abu Dhabi | Experimental Investigation of Slug Flow on Sand Transport in Pipelines |
| 12:30 | 14:00 | Lunch | | |
| Session B-3 | | | | |
| Chair: | | | | |
| Time | Lecturer | Affiliation | Title | |
| 14:00 | 14:30 | F. Fischer | Forschungszentrum Dresden, Rossendorf | Ultra-Fast Electron Beam X-Ray Computed Tomography For Two-Phase Flow Measurement |
| 14:30 | 15:00 | E. Rivard | Universität Bayreuth, Bayreuth | Droplet Vaporisation Model for Spray Combustion Calculations Using Continuous Thermodynamics |
| 15:00 | 15:30 | E. Dongmo | Universität Stuttgart, Stuttgart | Numerical Approach and Optimization of the Combustion and Gas Dynamics in High Velocity Suspension Flame Spraying (HVSFS) |
| 15:30 | 16:00 | | | |
| 16:00 | 16:15 | G. Scheuerer | ANSYS Germany, Otterfing | Closure of the Workshop |
| 16:15 | 16:45 | Closure of the Workshop | | |