



Open Source CFD International Conference 2008 Final Programme

Day 1: Thursday 4th December 2008

10:00 – 11:00	Registration & Refreshments / Exhibition
11:00 – 13:00	Session I
11:00	Welcome by Event Organisers ICON S. Weston - ICON Ltd, UK
11:15	The Further Development of OpenFOAM H.Weller - OpenCFD Ltd., UK
11:55	Open Source CFD in Practice – A Path to Industrial Scale Applications E. De Villiers, A. Jackson, F. Campos - ICON Ltd., UK
12:20	Invited Speaker: Building Communities based on Open Standards and Open Source at Red Hat J. Wildeboer - Red Hat
12:45 – 14:00	Buffet Lunch Break / Exhibition
14:00 – 16:00	Session II
14:00	OpenFOAM in Component Development A. Gitt-Gehrke - Volkswagen AG, Germany
14:25	Prediction of Noise in HVAC ducts K. Sandhu - Jaguar Land Rover, UK
14:50	Examples and Applications of Open Source CFD in the Simulation of Automotive Climatization A. Fruehsorger, J. Betz - Audi AG, Germany
15:15	An application of OpenFOAM within Procter & Gamble J. Manton - Procter & Gamble Company, USA
15:35	Poster Presentations (Exhibition Area)
16:00 – 16:30	Discussion Break & Refreshments / Exhibition
16:30 – 18:10	Session III
16:30	Evaluation of Aerodynamic Noise Propagation D. Clasen*, T. Grahs*, R. Leneveu**, J.Manera**, S. Caro** - *Volkswagen AG, Germany, **Free Field Technologies, Belgium
16:55	Use of OpenFOAM within Hydro International: A case study G. Tabor*, D. Jarman**, D. Butler*, M. Faram** - *University of Exeter, **Hydro International Plc, UK
17:20	Computation of Design Pressures for partly filled Cargo-tanks in Ships D. Schmode - Germanischer Lloyd, Germany
17:45	Marine Hydrodynamics Solver in OpenFOAM H. Jasak, H. Rusche - Wikki Ltd, UK
19:00 – 23:00	Evening Entertainment
19:30	Pre-dinner drinks
20:00	Evening Dinner
21:30	Post-dinner drinks and entertainment
23:30	Close of Day 1

Event / Location
Conference Session A Concorde
Conference Session B Vendôme (Day-2)
Poster Presentations Odéon/Galerie
Exhibition Odéon/Galerie
Registration Concorde Foyer
User Training Sorbonne
Program Training Raspail
Lunch Odéon/Galerie
Pre-dinner drinks Lutèce Bar
Evening Dinner Concorde
Evening Entertainment Lutèce Bar

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Invited Speaker



Invited Speaker



Event Organiser Systems Integrator



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Final Programme

Day 2: Friday 5th December 2008

08:30 – 08:50	Refreshments	
08:50 – 10:30	Session IV	
8:50	ENGRID: Open-Source Mesh Generation O. Gloth enGits GmbH., Germany	
9:15	Parallelization and Load Balancing of a Dynamic Mesh Method for Moving Boundary CFD M. Liefvendahl Swedish Defence Research Agency, FOI, Sweden	
9:40	Generic Grid Interface Development and Application to Conjugate Heat Transfer Analysis C. Bianchini*, B. Facchini*, L. Mangani*, M. Maritano** *University of Florence, Italy, **Ansaldo Energia, Italy	
10:05	Development of a Generalized Grid Interface for Turbomachinery simulations with OpenFOAM M. Beaudoin*, H. Jasak** *Hydro-Quebec, Canada, **Wikki Ltd, UK	
10:30 – 11:00	Discussion Break & Refreshments / Exhibition	
11:00 – 12:00	Session V - A	Session V - B
11:00	Fundamental and Applied Studies for Internal Combustion Engine Simulations by OpenFOAM G. D'Errico, G. Montenegro, T. Lucchini, F. Piscaglia Politecnico di Milano, Italy	Implementation of a Moments Model in openFOAM for Polydispersed Multiphase Flow J. Carneiro, V. Kaufmann, W. Polifke TU-Munich, Germany
11:25	CFD Modeling of Large Scale Fires Based on OpenFOAM Toolbox Y. Wang, P. Chatterjee, N. Krishnamoorthy, S. Dorofeev FM Global, USA	Computational Continuum Mechanics for Sediment Transport in Free Surface Flow P. Bohorquez - Universidad de Málaga, Spain
11:50	Implementation of an Alternative Chemistry Library into OpenFOAM *B. Gschaider, **M. Rehm *ICE-Stroemungsforschung, Austria, **TU Bergakademie Freiberg (IEC), Germany	Further Development of the Compressible Flow Solver centralFoam L. Gasparini*, S. Mallikarjunan** *Fondmetal Technologies, Italy, **University of Illinois, USA
12:15	Acoustic Analogy Using LES on a Partially Pre-mixed Turbulent Flame V. Hodor*, R. Benea*, F. Bode*, E. Lupu*, R. Szasz** *Technical University of Cluj-Napoca, Romania, **Lunds Universitet, Sweden	
12:40 – 14:00	Buffet Lunch Break / Exhibition	
14:00 – 15:00	Session VI	
14:00	Sponsor Presentation: Intel® Cluster Ready - Clusters made easy U. Becker-Lemgau Intel	
14:20	Invited Speaker: Adopting Open Source Software in Industry N. Swycher Olswang	
14:45	Closing Remarks D. Green - ICON Ltd., UK	
15:00	Close of Event	

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Program Training	Raspail
Lunch	Odéon/Galerie
Pre-dinner drinks	Lutèce Bar
Evening Dinner	Concorde
Evening Entertainment	Lutèce Bar

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Poster Presentations

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15:30 – 16:30

Session II

- 1 Multiscale Modeling of the Human Respiratory System**
S. Kabilan*, A. Kuprat**, R. A. Corley*, J. B. Bassingthwaight*, D. R. Einstein*
*University of Washington, **Pacific Northwest National Laboratory, USA
- 2 Simulation of Flow Soldering Process Using General Purpose CFD Software**
S. Nakagawa, R. Goto, K. Koizumi, M. Ishizuka
Toyama Prefectural University, Japan
- 3 Numerical Simulation of Cold Flow Fuel Injection of DIPA and Diesel in Diesel-Engine conditions**
S. Kheradmand*, M Emami**, M. Fateminasrabadi*
*Islamic Azad University, Iran **Isfahan University of Technology, Iran
- 4 Open Source Solutions for External Aerodynamics – A Path to Industrial Scale Applications**
E. De Villiers, A. Jackson, F. Campos
ICON Ltd., UK
- 5 Comparison of Turbulence Models in case of Three-dimensional Diffuser**
A. Karvinen, H. Ahlstedt
Tampere University, Finland
- 6 Prediction of Noise in HVAC ducts**
K. Sandhu
Jaguar Land Rover
- 7 Acoustic Analogy Using LES on a Partially Pre-mixed Turbulent Flame**
V. Hodor*, R. Benea*, F. Bode*, E. Lupu*, R. Szasz**
*Technical University of Cluj-Napoca, Romania, **Lunds Universitet, Sweden

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