

EASC 2009 6 - 7 July in Munich

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Preliminary Program

Welcome & Opening Remarks			
Plenary Sessions			
Bodo Durst	BMW Group	Germany	The BMW Vision and Strategy in Engine Simulation
Christoph Schoettl	MAN Truck & Bus	Germany	CAE in the Product Design Process
Sandro Wartzack	BROSE Vehicle Technology	Germany	Demands and Visions for future Works with ANSYS Workbench
Torbjoern Larsson	BMW-Sauber F1	Switzerland	2009 Formula One Aerodynamics / BMW Sauber F1.09 – Fundamentally Different
Dipankar Choudhury	ANSYS Inc.	USA	ANSYS Corporate Update - Vision, Strategy and Technology
User Contributions (presented in parallel sessions)			
Acoustics			
Hervé Dechitre	Volkswagen AG	Germany	Aeroacoustics Simulation of an Automotive A-Pillar Rain Gutter
Stefan Becker	University of Erlangen	Germany	Fluid-Structure-Acoustic Simulation of the Flow past a Flexible Structure
Christoph Steffens	FEV Motorentechnik	Germany	Active Noise Cancellation at a Powertrain Component
Aerodynamics			
Lennart Loeffdahl	Chalmers University, Gothenburg	Sweden	Air Brake Influence on the Road Holding of the 1955 Le Mans Mercedes-Benz 300 SLR
Giovanni Lombardi	University of Pisa	Italy	Use of CFD for the Aerodynamic Optimization of a Car Shape
Johnathan Kennedy	University of Strathclyde	Great Britain	Optimisation of Front Turning Vanes and Drag Reduction for a Land Rover Discovery MK3
Marco Biancolini	University of Rome Tor Vergata	Italy	Industrial Application of the Meshless Morphing rbf-Morph to a Motorbike Windshield Optimisation
Attila Schwarczkopf	Abbott Risk Consulting Ltd.	United Kingdom	Determination of Drag Increase due to Wheels by Means of Different Turbulence Models
Janusz Piechna	Warsaw University of Technology	Poland	CFD Analysis of the Central Engine Generic Sports Car Aerodynamics
Joy Pathak	University of Windsor	Canada	The Role of CFD in the Design of Super Mileage Car
Peter Leitl	University of Graz, Racing Team	Austria	Using ANSYS CFX in Formula Student Racing
Stan Posey	Panasas	USA	Cluster Scalability of FLUENT 12 for a Large-Scale Aerodynamics Case
Electromagnetics			
Tobias Heidrich	University of Ilmenau	Germany	Simulation of Auxiliary Drives in Motor Vehicles
Georg Pledl	Finepower	Germany	Modelling and Simulation of Electronic Power Devices
Andrea Vezzini	University of Bern	Switzerland	Iron Loss Calculation of an Internal Permanent Magnet Synchronous Machine for a Fuel Cell Car
Engine Design			
Dirk Linse	BMW Group	Germany	Simulating Combustion in Spark-Ignition Engines with ANSYS CFX
Dalibor Jajcevic	University of Graz	Austria	Simulation Strategy and Analysis of a Two Stroke Engine using FLUENT
Guenther Lang	CFDnetwork	Germany	In-Cylinder Flow Simulations using ANSYS-CFX Piston Grid
Valentina Peselli	Enginsoft	Italy	Thermal-Structural Analysis on Cylinder Head using Workbench Platform as Calculation Environment
Riccardo Testi	Piaggio	Italy	CAE Analysis of an Intake Valve for Bike Application
Martin Kessler	ESSS	Brasil	CFD analysis of fuel injection on a cold start system
Manufacturing			
Qiaoyan Ye	Fraunhofer Institute IFF	Germany	Numerical Simulation of Turbulent Heat Transfer for Industrial Drying Processes
Stephan Blum	DYNARDO	Germany	Optimization of Process Parameters for Automotive Paint Application
Gerhard Zelder	CADFEM	Germany	Virtual Paint Shop: Digital Manufacturing for Painting Processes
Esther Dongmo	University of Stuttgart	Germany	Numerical Approach and Optimization in High Velocity Suspension Flame Spraying
Cord Steinbeck-Behrens	CADFEM	Germany	Simulation helps Optimizing the Paint Drying in Automotive Manufacturing
Andreas Junk	CADFEM	Germany	Arc Welding: From Process Simulation to Structural Mechanics

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Optimization			
Markus Olhofer	Honda Research Institute	Germany	Evolutionary Optimisation of an Exhaust Mixing Element with Free Form Deformation
Andreas Veiz	DYNARDO	Germany	Parametric Optimization of an Oil Pan
Regis Ataides	ESSS	Brasil	Numerical Analysis of Fluid Flow inside an Air Intake System
Markus Stephan	FE-Design	Germany	CFD Topology Optimization of Automotive Components
Marco Biancolini	University of Rome Tor Vergata	Italy	Optimisation of Reed Valves Dynamics by Means of Fluid Structure Interaction
André Schneider	Fraunhofer Institue IIS	Germany	Towards more Insight with Functional Digital Mockup
Lasse Christoffersen	Chalmers University, Gothenburg	Sweden	Optimizing the Cooling Air Flow of a Formula Car using CFD
Christian Kussmann	qpunkt, Graz	Austria	Vacuum Cleaner for Inner-City Respirable Dust
Powertrain			
Klaus Vehreschild	AUDI	Germany	Consistent Improvement of the Charging Technology of Audi TFSI Engines by CFD
Florian Frese	Voith Turbo	Germany	Fluid-Structure Interaction on a Turbocharger Turbine
Tom Heuer	BorgWarner Turbo Systems	Germany	Conjugate Heat Transfer Analysis of a Radial Turbine Wheel for Turbochargers
Andreas Bartold	CFTurbo Software & Engineering	Germany	Rapid Design and Flow Simulations for Turbocharger Components
Federico Brusiani	University of Bologna	Italy	Evaluation of Air/Cavitation Interaction inside a Vane Pump
Vittorio Verda	Politecnico di Torino	Italy	Optimal Design of a Solid Oxide Fuel Cell for Hybrid Vehicle Application
Structural Analysis			
Thomas Seifert	Fraunhofer Institute IWM	Germany	Fatigue Life Prediction of High Temperature Components in Combustion Engines
Michael Probst	ISKO Engineering	Germany	Characteristics of Door Locking System during Side Crash
Giovanni Morais	ESSS	Brasil	Applying ANSYS to solve a Suspension Trailer Problem
Johannes Guggenberger	Mueller-BBM	Germany	Model Updating using Operational Data
Venkatesh Raja	College of Engineering, Tiruchengode	India	Effect of Mesh Refinement and Selection of Element Type over Hertzian Contacts
Thermal Management			
Wolfram Kühnel	BEHR	Germany	Methodology Transfer of Transient Charge Air Cooler Thermal Cycle Analysis to FLUENT
Zafer Tastan	Ford	Germany	Underhood Thermal Management - Simulation Process at Ford Europe
HanumaKumar Oleti	Tata Auto	India	Impact of Defrost/Demist Duct Shape on Deicing and Demisting Performance
Regis Ataides	ESSS	Brasil	CFD Study of a Passenger Car HVAC System
Gabriela Huminic	Transilvania University of Brasov	Romania	CFD Study of the Heat Pipes with Water-Nanoparticles Mixture
Alberto Deponti	Enginsoft	Italy	Modelling of Condensate Formation and Disposal inside an Automotive Headlamp
Christian Rauch	Virtual Vehicle	Austria	Local Sensitivity and Uncertainty Analysis for View Factor Calculations in FLUENT
Peter Baker	Flowmaster	USA	An Optimised Thermal Design and Development Process for Passenger Compartments
Evgeny Rudnyi	CADFEM	Germany	Thermal Management of a Control Unit
Technology & Best Practice Sessions			
<i>Progress in Turbulence Modelling</i>			
<i>Acoustic Modal Analysis</i>			
<i>Advanced Meshing Approaches</i>			
<i>Wrapping and IB-Approach for Rapid Flow Modelling</i>			
<i>In-Cylinder Flow and Combustion</i>			
<i>Optimization in Virtual Product Development</i>			
<i>Simulation for Hybrid Drive Train Systems</i>			
<i>Suspension & Multibody Dynamics</i>			
<i>Coupled Multidisciplinary Simulations</i>			
<i>Managing Simulation Data & Processes</i>			
Exhibition and Poster Session			