



EnginSoft INTERNATIONAL CONFERENCE 2009

CAE Technologies for Industry



AUTOMOTIVE	AEROSPACE/MARINE	POWER/TURBO/IND. EQUIPMENT	OIL&GAS	MCC
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Second Day					
Mechanical - ROOM 1 9.30 Magneti Marelli - Welding Lines stiffness in Loaded Plastics Components @ Burst Conditions 9.55 Piaggio - CAE analysis of an intake valve for bike application 10.20 Dynamore - Car crash simulations and occupant safety with LS-DYNA 10.45 Tube Investments of India Limited - Finite Element Simulation of Ball drifting to induce residual compressive stress in Chain plates 11.10 Coffee Break 11.40 INFN - R&D on carbon fiber systems for evaporative cooling of detector components 12.05 CADFEM - Composites and their numerical Simulation 12.35 e-Xstream engineering - From the Material Lab to the Efficient and Optimal Design of Reinforced Plastic Parts	CFD - ROOM 2 9.30 Tosi - Transient CFD analysis of a full pelton turbine 9.55 Danieli - CFD analysis of a tundish for continuous casting 10.20 Ansaldo Caldaie - Fluid Dynamics Analysis of the Air supply System of a Steam Generator 10.45 Barbalab-CST - Multi-phase CFD study of a reciprocating gas compressor with liquid slag ingestion 11.10 Coffee Break 11.40 Koacaell University Turkey - Design and Flow Simulation of An Open-Circuit wind Tunnel 12.05 Automotive Lighting - Modelling of condensate formation and disposal inside an automotive headlamp 12.35 Avio - CFD aerodynamic and reactive study of the innovative PERM injection system for the AVIO combustor in the frame of the NEWAC Project	Optimization SESSION A - ROOM 3 9.30 Thales Alenia Space - Multi-Objective Optimization of Isoflux Antenna 9.55 Piaggio Aero - Design and Numerical Optimization of Winglets and assessment of optimization algorithms 10.20 GRC - Design space exploration in ship concept design using Paramarine and modeFRONTIER 10.45 Linkoping University - Design Automation Framework for Micro Air Vehicles 11.10 Coffee Break 11.40 Casappa - Delivery Optimization in External Gear Pumps 12.05 Sulzer - Multi Variate Analysis in Systematic Impeller Design Applying modeFRONTIER 12.35 ABB - Stochastic optimization for industrial applications	Demo Room- ROOM 4 9.30 ANSYS EMAG 9.55 ANSYS FLUENT 10.20 ANSYS Meshing/Icem 10.45 MATLAB 11.10 High Performance Computer 11.40 modeFRONTIER 12.05 ANSYS CFX 12.35 ANSYS Mechanical	FORGE - ROOM 5 9.30 Enginsoft - Presentazione del Meeting Italiano Forge/ColdForm 9.55 TRANSVALOR - Forge2009 – presentazione della nuova versione 10.20 Coffee Break 10.45 Zucchetti Mario - La simulazione del processo di stampaggio a caldo di ottone ed alluminio con Forge: esperienze e vantaggi pratici 11.10 Fonderia F.lli Maspero - Ottimizzare i processi di stampaggio di leghe non ferrose 11.40 DIMEG -Università di Padova - Simulazione del processo di ring-rolling: impostazione dei parametri di processo e controllo in real-time delle distorsioni dell'anello	Optimization SESSION B - ROOM 6 9.30 Grontmij - Advanced Techniques for Verification of Hydraulic Sewer Models 9.55 Pole European Plasturgie - Multi-objective optimization applied to the mass reduction of a plastic part 10.20 Cranfield University - An integrated Framework for MEMS design optimization using modeFRONTIER 10.45 Ecole Centrale de Lille - Optimal Design of a Safety Isolating Transformer with modeFRONTIER 11.10 Coffee Break 11.40 TU Delft - Multi-objective optimization of thermal-elastic properties for multi-phase and multi-layer composites 12.05 Czech Technical University - Optimization of 2-stage Turbocharged large-bore SI Engine using modeFRONTIER 12.35 University Freiberg - Advanced Coupling of modeFRONTIER and Aspen Plus in Energy Process Engineering
13.00 Business Lunch					
Mechanical - SOFTWARE UPDATE 14.00 * The ANSYS technology strategy at release 12 and further * New ANSYS elements and contact technologies * New ANSYS solver and postprocessing capabilities * New ANSYS verticalized products: Aqwa, Asas, * STR -Live demo: New Workbench Multiphysics capabilities 14.20 15.30 16.00 16.30 Coffee Break 17.00 New geometry and meshing multiphysics capabilities	CFD - SOFTWARE UPDATE 14.00 PRODUCT UPDATE ANSYS Workbench 14.20 PRODUCT UPDATE ANSYS CFX 15.30 PRODUCT UPDATE ANSYS FLUENT 16.00 PRODUCT UPDATE Advanced meshing - ANSYS ICM CFD, ANSYS T-Grid 16.30 Coffee Break 17.00 EKM (Simulation Data Management)	Optimization - SOFTWARE UPDATE 14.00 modeFRONTIER Philosophy 14.20 Workshop Multi-variate Analysis with modeFRONTIER 15.30 Workshop Radio-Frequency application with modeFRONTIER 16.00 16.30 Coffee Break 17.00 Workshop Robust Design Optimization with modeFRONTIER	Demo Room 14.00 ANSOFT 14.20 Flowmaster 15.30 16.00 16.30 R&D Questions and Answers 17.00 Design Chain	FORGE 14.00 AFV Beltrame - La simulazione del processo di laminazione di prodotti lunghi: analisi di singole gabbie e di un intero treno di laminazione 14.20 TRANSVALOR - Sessione live con spiegazione utilizzo nuovi strumenti di Forge2009 e indicazione del modus-operandi per la più efficace impostazioni dei progetti e la migliore analisi dei risultati 15.30 16.00 Coffee Break 17.00 TRANSVALOR – Tavola Rotonda FORGE/COLDFORM ed eventuali meeting individuali con utenti	

*The computers in the demo room are generously provided by E4 Computer Engineering