CMND 2009

International Symposium on Coupled Methods in Numerical Dynamics

PROGRAM

Wednesday, September 16, 2009	
8^{00} - ...	Registration
9^{30} - 10^{30}	Opening
10^{30} - 11^{15}	**The Challenges of High Fidelity Industrial CFD** Charles Hirsch, Numeca International, Belgium
11^{15} - 12^{00}	**Radial Basis Function Interpolation for Computational Fluid-Structure Interaction** Hester Bijl et. al., Delft University of Technology, The Netherlands
12^{00} - 14^{00}	*Lunch*
14^{00} - 14^{45}	**From Fluid Mechanics to Acoustics** Wolfgang Schröder, RWTH Aachen University, Germany
14^{45} - 15^{15}	**An Implicit LU-SGS Algorithm for High-Order Spectral Difference Method on Unstructured Grids for Turbulent Compressible Flows** M. Parsani, K. Van den Abeele, D. Vucinic and C. Lacor, Vrije Universteit Brussel, Belgium
15^{15} - 15^{30}	*Coffee break*
15^{30} - 16^{00}	**Active Control of Sound Transmission Through a Model Aircraft Panel** N. Alujević, P. Gardonio and K. D. Frampton, University of Split, Croatia
16^{00} - 16^{30}	**Stress Based Identification of Non-Linear Material Behaviour by Inverse Modelling** I. Vasilakos and H. Sol, Vrije Universteit Brussel, Belgium
16^{30} - 17^{30}	*Reception at FESB*

Thursday, September 17, 2009	
9^{00} - 9^{45}	**A Unified Approach to Trajectory Optimization and Parameter Estimation in Vehicle Dynamics** Carlo L. Bottasso et. al., Politecnico di Milano, Italy
9^{45} - 10^{25}	**Lagrangian Modelling of Electro-Magneto-Mechanical Systems with Hysteresis** A. Müller, University Duisburg-Essen, Germany
10^{25} - 10^{40}	*Coffee break*
10^{40} - 11^{20}	**Differential-Geometric Modeling and Integration of Multibody Systems** Z. Terze, University of Zagreb, Croatia
11^{20} - 12^{00}	**Modeling and Model-Based Controller Design for Vibration Reduction of a Scanning Tunneling Microscope** J. Lu and P. Eberhard, University of Stuttgart, Germany
12^{00} - 14^{00}	*Lunch*
14^{00} - 14^{45}	**Advances in Computational Fluid-Structure Interaction – Formulations and Solvers** Wolfgang A. Wall et. al., Technische Universität Münich, Germany
14^{45} - 15^{15}	**Numerical Fluid-Structure Interaction of Multibody Dynamical Systems in Incompressible Flow** Z. Terze, D. Matijašević and M. Vrdoljak, University of Zagreb, Croatia
15^{15} - 15^{30}	*Coffee break*
15^{30} - 16^{00}	**Symbolic Modeling and Analysis of Elastic Multibody Systems** T. Kurz and P. Eberhard, University of Stuttgart, Germany
16^{00} - 16^{30}	**Virtual Mass Measurement of Cantilever Beam Partially Submerged in Fluid** D. Sedlar, Ž. Lozina and D. Vučina, University of Split, Croatia
	Social program: Banquet dinner

Friday, September 18, 2009	
9^{00} - 9^{45}	**Designing a TransCruiser Aircraft by Simulation: From Specification to Windtunnel Test** Arthur Rizzi et. al., The Royal Institute of Technology (KTH), Sweden
9^{45} - 10^{15}	**Numerical and Experimental Study of the Flapping Wing Induced Flow for Micro-Air-Vehicles Propulsion** M. Ahmadi Bidakhvidi, D. Vucinic, S. Vanlanduit and C. Lacor, Vrije Universteit Brussel, Belgium
10^{15} - 10^{45}	**About the Estimation of the Required Power for a Helicopter in Forward Flight** J. Župan and M. Vrdoljak, University of Zagreb, Croatia
10^{45} - 11^{00}	*Coffee break*
11^{00} - 11^{40}	**Airflow and Aerosol Transport in a Human Mouth-Throat Geometry** S. Jayaraju, C. Lacor, D. Vucinic, F. Maes and S. Verbanck, Vrije Universteit Brussel, Belgium
11^{40} - 12^{10}	**A Non-Destructive Wind Turbine Blade Analysis Based on the Thermal Stress Analysis** L. Krstulović-Opara, B. Klarin and Ž. Domazet, University of Split, Croatia
12^{10} - 14^{00}	*Lunch*
14^{00} - 14^{40}	**Application of Shape Memory Alloys in Middle Ear Surgery** A. Eiber, University of Stuttgart, Germany
14^{40} - 15^{10}	**Control Approaches for a 3D-Pendulum on Display at the EXPO 2010** T. Gorius, R. Seifried and P. Eberhard, University of Stuttgart, Germany
15^{10} - 15^{40}	**Active Vibration Control of Electro-Mechanical System With Step Excitation and Electromagnetic Actuator** Ž. Lozina, D. Vučina and D. Sedlar, University of Split, Croatia
15^{40} - 16^{00}	*Closing remarks*
	Social program: City walk

legend:	invited lecture	keynote paper	open program	preliminary report

Venue: Faculty of Electrical Engineering, Mechanical Engineering and Naval Architecture (FESB), Split, Croatia
`http://cmnd2009.fsb.hr`