

POSTER SESSION MONDAY	POSTER SESSION WEDNESDAY
A Numerical Method for the Computation of Hopf Bifurcation Points in Fluid Mechanics AUTHORS: A. Brezillon; G. Girault; Jean-Marc Cadou SPEAKER: Jean-Marc Cadou	A Numerical Study of the Flow in a Cyclone Separator using the k-epsilon Realizable Turbulence Model AUTHORS: Mauricio Carmona; Cristbal Cortes; Antonio Ramirez SPEAKER: Mauricio Carmona
Prediction of Shock Structure by Bimodal Distribution Function Method AUTHORS: Maxim A. Solovchuk; Tony W. H. Sheu SPEAKER: Maxim A. Solovchuk	Optimization of Diffuser with CFX Technology AUTHORS: Ferenc Szlivka; Gergely Éder SPEAKER: Gergely Éder
On the Stability of Locally One-Dimensional Method for Two-Dimensional Parabolic Equation with Nonlocal Integral Conditions AUTHORS: Svajunas Sajavicius SPEAKER: Svajunas Sajavicius	Development of 1D Performance Analysis Tool for a Microturbine Radial Compressor using CFD AUTHORS: Adeel Javed; M. Olivero; J. P. van Buijtenen SPEAKER: Adeel Javed
Uncertainty Quantification of Wildland Fire Propagation AUTHORS: Rita Ervilha; José M. C. Pereira; José C. F. Pereira SPEAKER: Rita Ervilha	Flow Field Simulation of Wind Turbine with More Impellers AUTHORS: Ferenc Szlivka; Péter Kajtár; Ildikó Molnár SPEAKER: Ildikó Molnár
Determination of Model Order for Inverse Scattering Applications AUTHORS: Livia Cerullo; Thomas Rylander; Mats Viberg SPEAKER: Livia Cerullo	Resistance of a Series 60 Vessel Determined by CFD Software AUTHORS: José M. A. Fonfach; C. G. Soares SPEAKER: José M. A. Fonfach
Fast and Stable Treatment of Non-Watertight Geometry for Incompressible Flow Simulation on Cartesian Grid AUTHORS: Kei Akasaka; Kenji Ono SPEAKER: Kei Akasaka	Extended Finite Element Method applied to Aero-Elastic Problems AUTHORS: Henrique C. Gomes; P. M. Pimenta SPEAKER: Henrique C. Gomes
High Order Finite Element Method for Transport Process in the Convection-Diffusion Combined Porous Media AUTHORS: Quanji Cai; R. Mundani; S. Kollmannsberger; E. Rank SPEAKER: Quanji Cai	Application of Optimization Methods in 2D Hydrofoil Design AUTHORS: I. N. Egorov; Ivan N. Klochkov; Y. I. Baby SPEAKER: Ivan N. Klochkov
Sommerfeld Radiation Condition for Incompressible Viscous Flows AUTHORS: Takashi Yoshida; Takashi Watanabe SPEAKER: Takashi Yoshida	Viscous Flow around Two Bodies in Relative Motion AUTHORS: Fatemeh M. Zafarghandi; S. M. H. Karimian; S. Noori SPEAKER: Fatemeh M. Zafarghandi
Numerical Treatment of Cylindrical Coordinate Singularity AUTHORS: Noele Peres; Sébastien Poncet; E. Serre SPEAKER: Noele Peres	Unsteady Solution of a 2D Stator-Rotor Interaction AUTHORS: Petr Straka SPEAKER: Petr Straka
Numerical Simulation of One-Dimensional Pulsatile Flows with a Combined Fourier-Adomian Method AUTHORS: Paulo Rebelo; Amílcar Miranda SPEAKER: Paulo Rebelo	Numerical Simulation of Helium Jet Injection into Supersonic Flow AUTHORS: Natalya N. Fedorova; Irina A. Fedorchenko SPEAKER: Irina A. Fedorchenko
CFD Numerical Simulation of Water Hammer in Pipeline Based on the Navier-Stokes Equation AUTHORS: Jinping Li; Peng Wu; Yang Jiandong SPEAKER: Jinping Li	Turbulent Flowstructure Computation Inside a Pump-Pat using an Industrial Benchmark Test Case AUTHORS: Fábio A. Silva; José C. Páscoa; João S. Pinheiro; Daniel J. Martins SPEAKER: Fábio A. Silva
Numerical Tests of a New Pressure Correction Scheme for the Drift-Flux Model AUTHORS: Walid Kheriji; R. Herbin; J.-C. Latché SPEAKER: Walid Kheriji	A Method for Measuring the Thermal Heat Transfer from a Cylinder in Axial Turbulent Flows for the Best Seven He-Based Binary Gas Mixtures AUTHORS: Mohammad R. Mobinipouya; Mohammad M. Papari; Antonio Campo SPEAKER: Mohammad R. Mobinipouya
Optimization of Spillway Shape and Analysis of Jet Flow Characteristics Based on the VOF Model AUTHORS: Jinping Li; Fei Liu; Yang Jiandong SPEAKER: Fei Liu	The Problem of Boundary Condition on the Outflow for an Incompressible Flow through a Cascade of Profiles AUTHORS: Tomáš Neustupa SPEAKER: Tomáš Neustupa
A Characteristic-Based Split Finite Volume Algorithm for the Solution of Incompressible Flow Problems AUTHORS: Masoud Nickaeen; Ali Ashrafzadeh SPEAKER: Masoud Nickaeen	Thermodynamically Compatible Rate Type Fluid Models for Asphalt AUTHORS: Karel Tuma SPEAKER: Karel Tuma
Evaluation of an Induced Magneto-hydrodynamic Velocity Potential using Dual Reciprocity Boundary Element Method AUTHORS: Mojtaba Barjasteh; Hamid Zeraatgar SPEAKER: Mojtaba Barjasteh	Assessment of Performance of Low Reynolds Turbulence Models in Predicting Natural Convection in Cavities AUTHORS: Mohamed Aksohu; A. Mataoui; N. Seghouani SPEAKER: Mohamed Aksohu
A Pressure-Based Algorithm for the Numerical Solution of the Incompressible Navier-Stokes Equations AUTHORS: Salman Okhovat; Ali Ashrafzadeh SPEAKER: Salman Okhovat	Equilibrium Model of Two-Phase Transonic Compressible CO2 Flow through Heat Pump Ejector and its Experimental Validation AUTHORS: Jacek Smolka; Zbigniew P. Bulinski; Adam Fic; Krzysztof Banasiak; Andrzej J. Nowak SPEAKER: Zbigniew P. Bulinski
An Immersed Boundary Method Embedded in a Pseudospectral Scheme AUTHORS: Aggelos S. Dimakopoulos; Carlos B. da Silva; Rui M. L. Ferreira SPEAKER: Rui M. L. Ferreira	Simulation of Impaction Filtration of Aerosol Droplets in Porous Media AUTHORS: Liliya Ghazaryan; David J. L. Penha; Bernard J. Geurts; S. Stolz; C. Winkelmann SPEAKER: Liliya Ghazaryan
ALE Method for Unsteady Transonic Flow Simulations AUTHORS: Petr Furfánek; Jiri Furst; Karel Kozel SPEAKER: Petr Furfánek	Simulation of Free Surface Flow in a Spillway with the Rigid Lid and Volume of Fluid Methods and Validation in a Scale Model AUTHORS: Anders G. Andersson; Kristoffer Lundström; Patrik Andreasson; T. S. Lundström SPEAKER: Anders G. Andersson
A Simple NVD/TVD-Based Upwinding Scheme for Convection Term Discretization AUTHORS: Giseli A. B. Lima; Laís Corrêa; Miguel A. C. Candeiano; Patrícia Sartori; Valdemir G. Ferreira SPEAKER: Giseli A. B. Lima	Structured and Unstructured Grid Validation of a Bubble Column Reactor CFD Multiphase Model by ANSYS® Workbench V10.0. AUTHORS: Monica Martínez; R. Miró; S. C. Cardona; J. Navarro-Laboulais; Sergio Chiva SPEAKER: Monica Martínez
Numerical Simulation of a Dry Low NOx – LPP Combustor Operating with LPG Fuel AUTHORS: José L. Pinheiro; Carlos A. G. Veras SPEAKER: José L. Pinheiro	Study of the Droplet-Wire System by using a VOF Technique AUTHORS: Jorge M. Marchetti; P. Skjetne; H. F. Svendsen SPEAKER: Jorge M. Marchetti
Combined Injection of Plastic Particles and Heavy Fuel Oil into a Blast Furnace Raceway – Detailed CFD Analysis AUTHORS: Christian Jordan; Michael Harasek; Amal El-Gohari; Christoph Feilmayr; Stefan Schuster SPEAKER: Christian Jordan	Monotone Nonlinear Scheme for Variable Density Groundwater Flow AUTHORS: Dragan Vidovic; Milenko Pusic SPEAKER: Dragan Vidovic
CFD Simulation of the Biomass Syngas Combustion AUTHORS: Kamil Kwiatkowski; Konrad Bajer SPEAKER: Kamil Kwiatkowski	Modelling of Particle Size Segregation and its Applications to Geophysical Problems AUTHORS: Anthony R. Thornton SPEAKER: Anthony R. Thornton
Considering Thermoelectric Power Generation Device Efficiency using Microchannel Heat Sink AUTHORS: L. A. Rosendahl; Alireza Rezaeiakolaei; M. Chen SPEAKER: Alireza Rezaeiakolaei	Multiscale Modelling of Granular Chute Flows AUTHORS: Thomas Weinhart; Onno Bokhove; Stefan Luding SPEAKER: Thomas Weinhart
A Shape Optimisation of Cooling Fins in Electrical Transformer Tank using GA Algorithm AUTHORS: Jacek Smolka; Andrzej J. Nowak SPEAKER: Jacek Smolka	Consistency of SIMPLEC Scheme in Collocated Grids AUTHORS: Antonio Pascau; Nelson Garcia SPEAKER: Antonio Pascau
Direct Numerical Simulation of Quasi-Static Magneto-hydrodynamic Annular Duct Flow AUTHORS: Stijn Vantighem; B. Knaepen; Vincent Moureau SPEAKER: Stijn Vantighem	Numerical Solution of 2D and 3D Stratified Flows in Atmospheric Boundary Layer AUTHORS: Jiri Simonek; Karel Kozel SPEAKER: Jiri Simonek
Effect of Initial Conditions in the Far Field of Spatially Developing Turbulent Planar Jets AUTHORS: Diogo C. Lopes; Ricardo J. N. dos Reis; Carlos B. da Silva; José C. F. Pereira SPEAKER: Diogo C. Lopes	A 3D Human Carotid Artery Simulation using Realistic Geometry with Two-Level Bifurcation and Experimental Inlet Velocity Profile AUTHORS: Senol Piskin; Erke Aribas; M. Serdar Celebi SPEAKER: Senol Piskin
Large Eddy Simulation of Sydney Swirl Non-Reaction Jets AUTHORS: Yang Yang; Søren Knudsen Kær; Chungen Yin SPEAKER: Yang Yang	Modelling Haemodynamics in Patient-Specific Carotid Bifurcations using the Locally Conservative Galerkin (LCG) Method AUTHORS: Rhodri L. T. Bevan; Perumal Nithiarasu; Raoul Van Loon; Igor Sazonov; Heyman Luckraz SPEAKER: Raoul Van Loon
FFOWCS Williams-Hawkins Acoustic Analogy for Simulation of NASA SR2 Propeller Noise in Transonic Cruise Condition AUTHORS: Domenico Caridi; Michele De Gennaro; Mohamed Pourkashanian SPEAKER: Michele De Gennaro	Non-Newtonian Blood Flow Simulation in a Realistic Artery Domain AUTHORS: Hasret Turkeri; Senol Piskin; M. Serdar Celebi SPEAKER: Hasret Turkeri
On a Subgrid Approach for Simulating Industrial Filtration Processes AUTHORS: Aivars Zemitis; Oleg Iliiev; Z. Lakdawala; V. Starikovicius SPEAKER: Aivars Zemitis	Numerical Solution of Incompressible Generalized Newtonian Fluids Flow AUTHORS: Radka Keslerová; V. Prokop; K. Kozel SPEAKER: Radka Keslerová
DNS Simulation of a Planar Jet using a Hybrid MPI-CUDA Strategy AUTHORS: Gil Brandão; Ricardo J. N. dos Reis; Carlos B. da Silva; José C. F. Pereira SPEAKER: Ricardo J. N. dos Reis	Performance Analysis of Flow in an Impeller-Diffuser Centrifugal Pumps using CFD :Simulation and Experimental Data Comparisons AUTHORS: J. Perez; Sergio Chiva; W. Segala; R. Morales; C. Negro; E. Julia; L. Hernandez SPEAKER: Sergio Chiva
A 3D Finite Element Model for the Determination of Vibration Reduction Index for Joints with Floating Floors AUTHORS: Jaime Ramis; E. Segovia; J. Alba; J. Carbajo SPEAKER: Jaime Ramis	Two Dimensional Modelling with CFD of the Behavior of a Ventilated Ceramic Façades AUTHORS: C. Mesado; Sergio Chiva; E. Julia; L. Hernandez SPEAKER: Sergio Chiva
RANS Based Numerical Study of Hydrogen Mild Combustion AUTHORS: Enrico Mollica; E. Giacomazzi; Alessandro Di Marco SPEAKER: Alessandro Di Marco	Validation of CFD Codes for Slamming and Sloshing AUTHORS: Richard Marcer; C. Berhault; C. de Joubette; Nicolas Moïrod; L. Shen SPEAKER: Nicolas Moïrod
	Development of a Cactus CFD Toolkit and its Utilisation on Large-Scale Multi-Block Simulations AUTHORS: Soon-Heum Ko; Prasad Kalghatgi; Erik Schnetter; Sumanta Acharya; Gabrielle Allen; Shantenu Jha; Mayank Tyagi SPEAKER: Soon-Heum Ko