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Scientific Program

2nd International Conference on

FLUID DYNAMICS & AERODYNAMICS

October 19-20, 2017 Rome, Italy



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Hall Name - Appia 1+2

conferenceseries.com 09:00-09:30

Opening Ceremony

	Keynote Forum	
09:30-09:35		
	Title: Recent developments in accuracy and stability improvement of nonlinear filter	
09:35-10:15	methods for DNS and LES of compressible flows	
	H C Yee, NASA Ames Research Center, USA	
Special Session		
10:15-10:50	Title: LES predictions of self-sustained oscillations in round free jets	
	Andrzej Boguslawski & Artur Tyliszczak, Częstochowa University of Technology, Poland	
	Networking and Refreshments Break @ Foyer 10:50-11:10	
	Plenary Session	
11:10-11:45	Title: Flow-sound interaction mechanisms during the resonance of trapped diametral	
	modes in shallow cavities	
Cassiana, Eluia	Samir Ziada, McMaster University, Canada	
Transfer Syste	d Dynamics Microfluidics Numerical Methods Magneto Hydrodynamics Heat	
	Faik Hamad, Teesside University, UK	
	air: Tomoaki Kunugi, Kyoto University, Japan	
	Session Introduction	
	Title: The liquid-liquid and gas-liquid two-phase flow studies with and without heat	
11:45-12:05	transfer	
	Faik Hamad, Teesside University, UK	
12:05-12:25	Title: Generation of Tollmien-Schlichting waves by free-stream turbulence	
12.00	Maksim V Ustinov, TsAGI, Russia	
	Title: Wavy interface behavior and droplet entrainment of annular two-phase flow in	
12:25-12:45	rod-bundle geometry with spacers	
	Tomoaki Kunugi, Kyoto University, Japan	
12:45-13:05	Title: Development of control systems of sintering processes in rotary tubular kilns on base 2D-modelling with using thermistor's scanning	
12:45-13:05	I V Sharikov, Saint Petersburg Mining University, Russia	
	Lunch Break @ Hotel Restaurants 13:05-14:00	
	Title: Extreme computation of Stokes flow using axial Green function method on refined	
14:00-14:20	axial lines	
	Do Wan Kim , Inha University, South Korea	
	Title: Investigation on the internal two-phase flow induced vibration characteristics of	
14:20-14:40	the marine riser system	
	Qihui Hu, China University of Petroleum, China	
14:40-15:00	Title: Two particle correlation in heavy-ion collisions using momentum kick	
	Jin-Hee Yoon, Inha University, South Korea	
15:00-15:20	Title: Variational principles for topological non-barotropic fluid dynamics	
	Asher Yahalom, Ariel University, Israel	

15:20-15:40	Title: Near-wall domain decomposition in turbulence modeling: Current state of the art and perspectives
	Sergey Utyuzhnikov, University of Manchester, UK
	Title: Mathematical analysis of the exterior problem of Navier-Stokes using weighted
15:40-16:00	Sobolev spaces
	Ulrich Razafison, Université de Bourgogne Franche-Comté, France
	Networking and Refreshments Break @ Foyer 16:00-16:20
16:20-16:40	Title: Numerical simulation of the airfoils icing processes
	Sergey V Alekseyenko, Oles Honchar Dnipro National University, Ukraine
16:40-17:00	Title: Droplet deformation and breakup in the shoulder region of an aerodynamic surface: Experimental characterization
	Adelaida Garcia-Magarino, Isdefe, Spain
17:00-17:20	Title: Traditional and innovative methodologies (UAV-based) for the study of the
	dynamics of atmospheric aerosols
	R Alberto Bernabeo, Abu Dhabi University, UAE
17:20-17:40	Title: Reshaping the future of aircraft design
17:20-17:40	Emiliano Costa, RINA Consulting, Italy
	Title: Design of an active fluidic injection system for jet noise reduction through a hybrid
17:40-18:00	CFD-stochastic approach
	Mattia Barbarino, CIRA, Italy
	Panel Discussion Day 2 October 20, 2017
	Hall Name - Appia 1+2
	Keynote Forum
09:00-09:35 09:35-10:10	Title: Simultaneous aerodynamic pressure measurements and modern structural design for wind
	Emil Simiu, National Institute of Standards and Technology, USA
	Title: Stable detonative combustion of hydrogen in a supersonic flow coming in a convergent –
	divergent nozzle
	Yuri V Tunik, Research Institute for Mechanics of MSU, Russia
	o Dynamics Aero Acoustics CFD- Methodology Thermo- Fluid Dynamics
	: Konstantinos Kontis, University of Glasgow, UK
Session Co-cn	air: I V Sharikov, Saint Petersburg Mining University, Russia Session Introduction
	Title: New meshless formulations for aeroacoustics and compressible aerodynamic
10:10-10:30	computations
	Xesús Nogueira, Universidade da Coruña, Spain
	Title: CFD analysis and experimental tests of a fire safety pressurized smokeproof
10:30-10:50	enclosure
	Piergiacomo Cancelliere, Italian National Fire Rescue and Service – CNVVF – Rome, Italy
	Naturalian and Definition and Denois Proud @ Force 10.50 11.10
	Networking and Refreshments Break @ Foyer 10:50-11:10
11:10-11:30	Title: Optimization analysis of the combinations of concentrator and wind turbine with flap in CFD
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12:30-12:50	T Pyragiene, Center for Physical Sciences and Technology, Lithuania Title: Aerodynamic characterization of new filters of bioaerosol for INTA investigation aerial	
12:50-13:10	platforms	
	Suthyvann Sor, INTA, Spain	
	Lunch Break @ Hotel Restaurants 13:10-14:05	
14:05-14:25	Title: Flow structure in the vicinity of flapping elephants' pinnae and thermal implications Moise Y Koffi, Hostos Community College, USA	
14:25-14:45	Title: Missile-motion performance analysis of gas-steam launch system utilizing multiphase flow model and dynamic grid system	
	Hyun Muk Kim & Jeong Soo Kim, Pukyong National University, South Korea	
	Young Researchers Forum	
14:45-15:00	Title: Finite-time blow-up for the 3-D primitive equations of oceanic and atmospheric dynamics Lin Zheng, Beijing University of Technology, China	
15:00-15:15	Title: The boundary layer problem on the incompressible MHD system with non-characteristic Dirichlet boundary condition for velocity Na Wang, Beijing University of Technology, China	
15:15-15:30	Title: An Investigation of heat transfer performance of rectangular plate-fin heat exchanger by using common flow up & common flow down configurations of vortex generators with different wings attack angle Seyfi Girgin, Istanbul Technical University, Turkey	
15:30-15:45	Title: Blood Flow Analysis in presence of static magnetic field of 3.0 T J Alfredo Soto Á, University of Guanajuato, Mexico	
	Networking and Refreshments Break @ Foyer 15:45-16:05	
	Poster Presentations 16:05-16:25	
Poster Judge:	Piergiacomo Cancelliere, Italian National Fire Rescue and Service — CNVVF — Rome, Italy	
	Title: Power consumption of liquid atomization device by using rising film flow along a rotating cone and disk Yutaro Takahashi, Akita University, Japan	
FAD 2	Title: Pressure drop evaluation of heat exchanger model with disturbance promoters Satoshi Hotta, Akita University, Japan	
FAD 3	Title: Dynamic impact on a frozen support caused by natural and quasinatural oscillations of an ice plate	
	Aleksei Greshilov, Lavrentyev Institute of Hydrodynamics of SB RAS, Russia	
FAD 4	Title: Bi-stability in turbulent wakes past 3D bluff bodies	
	Luc R Pastur, ENSTA ParisTech, France	
Video Presentation		
16:25-17:10	Title: Diffraction of shock waves R S Srivastava, Defence Science Centre, India	
	Panel Discussion	

Awards & Closing Ceremony

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