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Tentative Program

2nd International Conference on

Fluid Dynamics & Aerodynamics

Rome, Italy October 19-20, 2017

Theme: Decoding the Grey Shades of Fluid Dynamics & Aerodynamics



Interactive Sessions | Keynote Lectures | Plenary Lectures | Workshops | Exhibitors | B2B Meetings

For available speaker slots

fluiddynamics@enggconferences.com

http://fluid-aerodynamics.global-summit.com/

Program at a Glance

Day 1

Reception/Registration	08.00-09.00	
	Time	General Session
Least of 3 Keynote/Plenary Talks	09.00-09.15	Inaugural Address
	09.15-09.45	Keynote/Plenary Talk 1
	09.45-10.15	Keynote/Plenary Talk 2
	10.15-10.45	Keynote/Plenary Talk 3
Panel Discussions/Group Photo		
Coffee/Tea Break 10.45-11.00 (Networking)		
11.00-12.40		
	5 Speakers (20 Mins Each)	
Lunch Break 12.40-13.30		
13.30-15.30		
	6 Speakers (20 Mins Each)	
Coffee/Tea Break 15.30-15.45 (Networking)		
15.45-17.25		
	5 Speakers (20 Mins Each)	

Morning Sessions / Evening Sessions

19 Speakers for Day 1

Day 2

	Time	Session 1	Session 2
09.00-10.40			
		5 Speakers (20 Mins Each)	
Coffee/Tea Break 10.40-10.55 (Networking)			
10.55-12.35			
		5 Speakers (20 Mins Each)	
Lunch Break 12.35-13.25			
13.25-15.05			
		5 Speakers (20 Mins Each)	
Poster Sessions			
15.20-17.00		5 Speakers (20 Mins Each)	

Morning Sessions / Evening Sessions

20 Speakers on Day 2

Awards & Closing Ceremony

FEATURED SPEAKERS

Title: Development Of Control Systems Of Sintering Processes In Rotary Tubular Kilns On Base 2d-Modelling With Using thermovisors Scanning
I.V. SHARIKOV, Saint Petersburg Mining University, Russia

Title: Near-wall domain decomposition in turbulence modeling: current state-of-the-art and perspectives
Sergey Utyuzhnikov, The University of Manchester, U.K

Title: Numerical Analysis of Flame Characteristics and Stability for the Conical Nozzle Burner
Sam M Dakka, Sheffield Hallam University, U.k

Title: LES predictions of self-sustained oscillations in round free jets
Andrzej Boguslawski, Czestochowa University of Technology, Poland

Title: High speed aerodynamic phenomena and interactions including their control
Konstantinos Kontis, University of Glasgow, UK

Title: Jet manipulation using unsteady minijets
Yu Zhou, Harbin Institute of Technology (Shenzhen), China

Title: large-eddy simulation of a dual axial counter rotating swirler with focus on the swirler inner flow behaviour
Foad Vashahi, National University Jeonju, South Korea

Title: Isochronal Synchronization in Complex Network with Propagation DelayEliza Wajch, Siedlce Elbert E. N. Macau, National Institute for Space Research, Brazil

Title: Wavy interface behavior and droplet entrainment of annular two-phase flow in rod-bundle geometry with spacers
Tomoaki Kunugi, Kyoto University, Japan

Title: A perspective of shock waves: with examples in aerodynamics and granular flows
Xinjun Cui, Sheffield Hallam University, UK

Keynote Slots Available

FEATURED SPEAKERS

Title: Simultaneous Aerodynamic Pressure Measurements and Modern Structural Design for Wind
Emil Simiu, National Institute of Standards and Technology, USA

Title: Challenges and Recent Progress in Small Fixed-Wing Unmanned Aircraft Unsteady Aerodynamics and Flow Control Research
Dr. Vladimir V. Golubev, Embry-Riddle Aeronautical University

Title: edge noise reduction in turbulent boundary—layers and mitigation strategies for wind turbines
Daniele Ragni, TU Delft, Netherlands

Title: Operation and heat transfer characteristics in closed-loop pulsating heat pipe
Xiangdong Liu, Yangzhou University, China

Title: Hydrodynamics of double emulsion droplets in microfluidics
Yongping Chen, Suzhou University of Science and Technology, China

Title: Slider Bearings Lubrication with MHD Couplestress Fluids
N.B.Naduvinamani, Gulbarga University, Kalaburagi, INDIA

Title: A Roadmap to Well Posed and Stable Problems in Computational Physics
Jan Nordström, Linköping University, Sweden

Title: LES predictions of self-sustained oscillations in round free jets
Artur Tyliszczak, Czestochowa University of Technology, Poland

Title: Aerodynamic swirling jet impingement: connection between flow and heat transfer
Zahir U Ahmed, Khulna University of Engineering & Technology, Bangladesh

Title: Experimental Study on EHD Heat Transfer Enhancement of Thermal Systems
Alami nia Amin, PhD, Tabriz, Iran

Speaker Slots Available

FEATURED SPEAKERS

Title: Helicopter main rotor vibration analysis with varying rotating speed
Salvador Castillo-Rivera, PhD, City University London, UK

Title: Dynamic impact on a frozen support caused by natural and quasinatural oscillations of an ice plate
Aleksei Greshilov, Lavrentyev Institute of Hydrodynamics, Russia

Title: Midfield drag prediction method with surface integral to account for wave drag due to shock discontinuities
Shi-Xiang Ji, Tsinghua University, Beijing, China

Title: Power Consumption of Liquid Atomization Device by using Rising Film Flow along a Rotating Cone Disk
Yutaro Takahashi, Akita University, Japan

Title: Blood Flow Analysis In Presence Of Static Magnetic Field Of 3.0 T
J. Alfredo Soto, University of Guanajuato, Mexico

Title: Vortex force approach for general airfoils of compressible flow
Juan Li, Tsinghua Univercity, China

Title: Effective use of nanofluids in microfluidics for electronic packaging
Tanuja Sheorey, IIITDM Jabalpur, India

Title: New similarity solution of micropolar fluid flow problem over an upper horizontal surface of a paraboloid of revolution in the presence of quartic kind of autocatalytic chemical reaction
I. L. Animasaun, Federal University of Technology, Akure

Title: A Numerical Investigation on the Performance of Wind Turbine Airfoils with Gurney Flaps and Airfoil Shape Alteration
Obai Younis, Engineering University of Khartoum, Sudan

Title: Improvement of Single Cell Structure of Molten Hydroxide Direct Carbon Fuel Cells by CFD Simulation Molten.
Jiamao Hao, Inner Mongolia University of Technology, China

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Glimpses of Fluid & Aerodynamics 2016



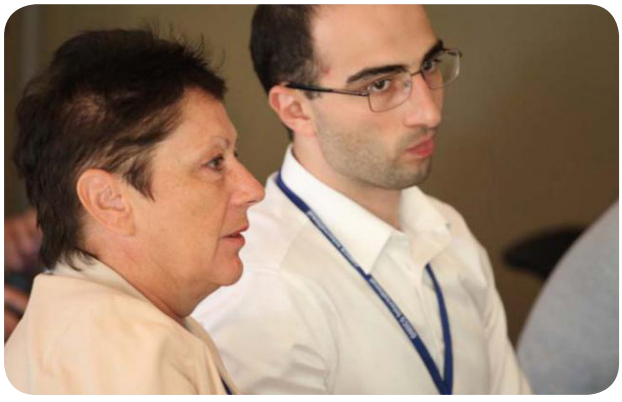












Glimpses of Fluid & Aerodynamics 2016










City Attractions



Foro di Traiano (Forum of Trajan)



pantheon



Vatican City



Roman Forum



spanish-steps



Trevi Fountain



The Colosseum

About Rome

Rome is known as global city, it is one of the most visited cities of the world. Being the capital city of Italy, many international institutions are located in Rome, especially cultural and scientific one, such as the American Institute, the British School, the French Academy, and the Scandinavian Institutes. Rome has been ranked 32nd in the global city index in 2014, it holds 6.7% of the total GDP of Italy, and if Rome were to be a country, it would be 52nd richest country in the world in terms of GDP. Rome grows +4.4% annually and continues to grow at a higher rate in comparison to any other city in the rest of the country.

Economy of the Rome is characterised by high-technology companies such as IT Aerospace, defence telecommunication, research and commercial activities. Rome is the international centre for higher education containing numerous academies, colleges and universities. La Sapienza (founded in 1303), is one of the largest in the world, with more than 140,000 students attending in 2005, it ranked as Europe's 33rd best university. Hence being a composite platform of industries, education, business centre Rome will be an excellent opportunity for exchange of ideas in a vibrant atmosphere. Moreover Rome is great place to visit in October, when leaves are turning red and chilling freshness in the air. Rome houses some of major historical structure like colosseum, Vatican museum and the holy Vatican City.

Venue

Holiday Inn Rome - Aurelia
Via Aurelia Km 8,400
00163 Roma
Italy

Important Dates

Abstract submission opens: November 16, 2016
Registration opens: November 16, 2016
On spot registration: October 19, 2016

Contact Details:

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Day 1 August 15, 2016

09:30-10:00 Registrations

Training room 1

conferenceseries.com 10:00-10:20 **Opening Ceremony**

Keynote Forum

10:20-10:25 **Introduction**

10:25-11:05 **Title: Recent developments in train aerodynamics**

Hassan Hemida, University of Birmingham, UK

Networking and Refreshments Break: 11:05-11:25 @ Foyer

Group Photo

11:25-12:05 **Title: Active flow control from fluidic oscillators to future applications**

Josep M Bergada, Polytechnic University of Catalonia, Spain

Major Sessions:
Fluid Dynamics | Numerical Methods | CFD Methodology & Models

Session Chair: Olga V. Mitrofanova, National Nuclear Research University MEPhI, Russia
Session Co-chair: Yeng-Yung Tsui, National Chiao Tung University, Taiwan

Session Introduction

12:05-12:30 **Title: A study of the fluidic movement of the hydrated products from the early carbonation curing in cementitious paste and the effects on the mechanical and porosity properties**

Alex Neves Junior, Federal University of Mato Grosso, Brazil

12:30-12:55 **Title: Development of mathematical models of technological processes with using heat flux calorimetry**

Iurii Sharikov, National Mineral Resources University, Russia

Lunch Break 12:55-13:35 @ Orwell's Brasserie

13:35-14:00 **Title: A finite element approach derived from the simplified variational principle**

Asher Yahalom, Ariel University, Israel

14:00-14:25 **Title: Research on sheet cavitation numerical predicted and estimation of tip vortex cavitation inception of ducted propeller with pre-swirl stator**

Zhengfang Qian, Naval Academy of Armament, China

14:25-14:50 **Title: Active flow control applied on a NACA 2412 profile, possible devices to use and its expected performance efficiency**

Josep M Bergada, Polytechnic University of Catalonia, Spain

14:50-15:15 **Title: A fluid dynamics approach to the dynamics of microscopic systems**

Eric Suraud, Université Paul Sabatier, France

15:15-15:40 **Title: Numerical prediction of the integral length scale of isotropic turbulence**

Kaifu Ye, Naval Academy of Armament, China

Networking & Refreshment Break 15:40-16:00 @ Foyer

16:00-16:25 **Title: Hydrodynamic performance prediction of submarine considering fluid-structure interaction via CFD/FEM**

Jingwei Jiang, Naval Academy of Armament, China

16:25-16:50 **Title: Studies of the mechanisms of vortex generation in nature and in engineering**

Olga V. Mitrofanova, National Nuclear Research University MEPhI, Russia

16:50-17:15 **Title: Simulations of non equilibrium flows by kinetic methods and non classical effects**

V V Aristov, RAS - Federal Research Centre "Computer Science and Control", Russia

Closing Ceremony

Training room 1

Sessions:
Aerodynamics | Wind Tunnel | Thermo-Fluid Dynamics

Session Chair: Mohamed A. Samaha, Rochester Institute of Technology, Dubai Campus, UAE
Session Co-chair: Iurii Sharikov, National Mineral Resources University, Russia

Session Introduction

10:00-10:25	**Title: Modeling of the coupled conduction-convection ice formation on a horizontal finned tube under density inversion conditions** **Mohamed A. Samaha,** Rochester Institute of Technology, Dubai Campus, UAE
10:25-10:50	**Title: Aerodynamic investigations of low speed tailless mini unmanned aerial vehicle** **Wanchai Jiajan,** Royal Thai Air Force Academy, Thailand

Networking & Refreshment Break 10:50-11:10 @ Foyer

11:10-11:35	**Title: Onset of flow instability and turbulence development over distributed sinusoidal 2D and 3D roughness** **Leonardo P. Chamorro,** University of Illinois at Urbana-Champaign, USA
11:35-12:00	**Title: Heat transfer enhancement by corona discharge** **Yeng-Yung Tsui,** National Chiao Tung University, Taiwan
12:00-12:25	**Title: Methods to measure CO_2 captured in cement applications** **Alex Neves Junior,** Federal University of Mato Grosso, Brazil
12:25-12:50	**Title: Line preserving flows in the Euler potentials formalism** **Przemyslaw Figura,** Space Research Centre - Polish Academy of Sciences, Poland

Lunch Break 12:50-13:30 @ Orwell's Brasserie

Young Research Forum

13:30-13:50	**Title: Fluidic oscillators performance evaluation when modifying its internal dymensions** **Carlos Andres Candelo,** Polytechnic University of Catalonia, Spain
13:50-14:10	**Title: Numerical study to improve the numerical instability of lattice Boltzmann method** **Bo AN,** Polytechnic University of Catalonia, Spain
14:10-14:30	**Title: Numerical investigation on instability of flow around planar cascade of aerofoils based on energy gradient theory** **Hui Yang,** Zhejiang Sci-Tech University, China
14:30-14:50	**Title: Numerical study of hydrodynamic characteristics of gas-liquid slug flow in vertical pipes** **E Z Massoud,** University of Strathclyde, UK

Session Discussion

Thanks giving & Closing ceremony

Bookmark your dates

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October 19-20, 2017 Rome, Italy

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