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4th International Conference on Fluid Dynamics & Aerodynamics

November 11-12, 2019
Madrid, Spain



SCIENTIFIC PROGRAM

DAY 1
Monday 11th November

08:30-09:00 **Registrations**

09:00-09:30 **Introduction**

09:30-09:50 COFFEE BREAK

09:50-11:50
Meeting Hall 01

KEYNOTE LECTURES

MEETING HALL 01

11:50-13:10 **Talks On:**

- Microfluidics
- Fluid Dynamics
- Numerical Methods
- CFD Methodology
- Heat Transfer System

13:10-13:15 GROUP PHOTO

13:15-14:00 LUNCH BREAK

MEETING HALL 01

14:00-16:00 **Talks On:**

- Aerodynamics
- Aero-acoustics
- Hydrodynamics
- Aerodynamics Simulations
- Biofluid Mechanics

16:00-16:20 COFFEE BREAK

MEETING HALL 01 (16:20-17:00)

Young Researchers in Fluid Dynamics & Aerodynamics

DAY 2
Tuesday 12th November

09:00-10:30 Meeting Hall 01 — **KEYNOTE LECTURES**

10:30-10:50 COFFEE BREAK

10:50-12:50 — **MEETING HALL 01**

Talks On:

- Thermo-Fluid Dynamics
- Turbomachinery
- Hydraulics
- Fluid Flow
- Turbine

12:50-13:35 LUNCH BREAK

13:35-15:55 — **MEETING HALL 01**

Talks On:

- Microfluidics
- Fluid Dynamics
- Numerical Methods
- CFD Methodology
- Heat Transfer System

15:55-16:15 COFFEE BREAK

MEETING HALL 01 (16:15-17:00)

Poster Presentations

Awards & Closing Ceremony

Previous Organizing Committee Members



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Capitol Technology University

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Madrid Attractions



















Scientific Program



3rd International Conference on Fluid Dynamics & Aerodynamics

October 25-26, 2018 | Berlin, Germany

UK: Conference Series LLC Ltd
47 Churchfield Road, London, W3 6AY
Toll Free: +1-800-014-8923

DAY-1

October 25, 2018

Meeting Hall: Sylt 3

Registrations

Opening Ceremony

KEYNOTE FORUM

Introduction

Title: Heat pipes with nanocomposites analysis and application

Leonard L Vasiliev, National Academy of Sciences of Belarus, Belarus

Title: Gas turbine flow characterization using non-intrusive acoustic measurements

Wing F Ng, Virginia Tech, USA

Networking & Refreshments @ Sylt Foyer

GROUP PHOTO

Title: The scaling problem of oxide materials hydrothermal synthesis for various autoclave reactors with considering natural convection

I V Sharikov, Saint Petersburg Mining University, Russia

Sessions: Fluid Dynamics | Turbine | Heat Transfer System | CFD Methodology | Hydrodynamics | Aero-acoustics | Aerodynamics Simulations

Chair: Leonard L Vasiliev, National Academy of Sciences of Belarus, Belarus

Co-Chair: I V Sharikov, Saint Petersburg Mining University, Russia

INTRODUCTION

Title: Vortex shedding leading to heat transfer rise in the vicinity of a rotationally oscillating heated plate

Moise Y Koffi, City University of New York, USA

Title: High-accurate meshless formulations for non-smooth compressible flows

Xesus Nogueira, University of A Coruna, Spain

Title: Eliminating anomalies of CFD model results of the powder coating process by refining aerodynamic flow-particle interaction and by introducing a dynamic particle charging model

Boiger Gernot K, Zurich University of Applied Sciences, Switzerland

Lunch Break @ Hotel Restaurant

Title: The Effect of the height of the horizontal layer of a liquid and pressure on hydrodynamic regimes of evaporation/boiling and critical heat flux
Vladimir Zhukov, Novosibirsk State Technical University, Russia
Title: The modification of Ekman-Hartmann layer by the imposition of axial velocity
Satyanarayana Badeti, VIT - AP University, India
Title: Numerical investigation of fluidic active flow control on circular cylinder in transitional regime
Wasim Sarwar, Polytechnic University of Catalonia, Spain

VIDEO PRESENTATION

Title: Flow in curved pipes
R S Srivastava, Defence Science Centre, India

Networking & Refreshments @ Sylt Foyer

Panel Discussion

DAY-2

October 26, 2018
Meeting Hall: **Sylt 3**

KEYNOTE FORUM

Introduction
Title: Aerodynamic implications for twin-wing aircraft at high altitudes
Ian R McAndrew, Capitol Technology University, USA
Title: About convection stability of the gas-vapor mixture at the temperature close to critical
Igor Palymskiy, Siberian State University of Telecommunications and Information Sciences, Russia

Sessions: Aerodynamics | Biofluid Mechanics | Fluid Flow | Turbomachinery | Thermo-Fluid Dynamics | Numerical Methods

Chair: Ian R McAndrew, Capitol Technology University, USA
Co-Chair: Igor Palymskiy, Siberian State University of Telecommunications and Information Sciences, Russia

Title: Quasi-isentropic compressibility of deuterium at pressure region of ~12 Tpa
M A Mochalov, Russian Federal Nuclear Center, Russia

Networking & Refreshments @ Sylt Foyer

Title: Design of the concentrator – wind turbine combinations
Tahir Yavuz, Baskent University, Turkey
Title: Wind wave generation in finite depth
Anouchah Latifi, Qom University of Technology, Iran

Title: Rheological proprieties of bitumen: experimental squeeze flow test
Amal Kraiem, University of Sfax, Tunisia
Title: Extrudate swell under the effect of radial flow and intrinsic factors to the polymer upstream the die
Hela Krir, University of Sfax, Tunisia

Award Ceremony & Certificate Felicitation

Lunch Break @ Hotel Restaurant

PANEL DISCUSSION



Bookmark your Dates

4th International Conference on

Fluid Dynamics & Aerodynamics

November 14-15, 2019 | Madrid, Spain

E: fluiddynamics@enggconferences.com
Website: fluid-aerodynamics.global-summit.com

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1349th Conference

Scientific Program

2nd International Conference on

FLUID DYNAMICS & AERODYNAMICS

October 19-20, 2017 Rome, Italy



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Day 1 October 19, 2017

Registrations

Hall Name - Appia 1+2

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Opening Ceremony

Keynote Forum

Introduction

Title: Recent developments in accuracy and stability improvement of nonlinear filter methods for DNS and LES of compressible flows

H C Yee, NASA Ames Research Center, USA

Special Session

Title: LES predictions of self-sustained oscillations in round free jets

Andrzej Boguslawski & Artur Tyliszczak, Częstochowa University of Technology, Poland

Plenary Session

Title: Flow-sound interaction mechanisms during the resonance of trapped diametral modes in shallow cavities

Samir Ziada, McMaster University, Canada

Sessions: Fluid Dynamics | Microfluidics | Numerical Methods | Magneto Hydrodynamics | Heat Transfer System

Session Chair: Faik Hamad, Teesside University, UK

Session Co-chair: Tomoaki Kunugi, Kyoto University, Japan

Session Introduction

Title: The liquid-liquid and gas-liquid two-phase flow studies with and without heat transfer

Faik Hamad, Teesside University, UK

Title: Generation of Tollmien-Schlichting waves by free-stream turbulence

Maksim V Ustinov, TsAGI, Russia

Title: Wavy interface behavior and droplet entrainment of annular two-phase flow in rod-bundle geometry with spacers

Tomoaki Kunugi, Kyoto University, Japan

Title: Development of control systems of sintering processes in rotary tubular kilns on base 2D-modelling with using thermistor's scanning

I V Sharikov, Saint Petersburg Mining University, Russia

Lunch Break @ Hotel Restaurants

Title: Extreme computation of Stokes flow using axial Green function method on refined axial lines

Do Wan Kim, Inha University, South Korea

Title: Investigation on the internal two-phase flow induced vibration characteristics of the marine riser system

Qihui Hu, China University of Petroleum, China

Title: Two particle correlation in heavy-ion collisions using momentum kick

Jin-Hee Yoon, Inha University, South Korea

Title: Variational principles for topological non-barotropic fluid dynamics

Asher Yahalom, Ariel University, Israel

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 Sobolev spaces

Ulrich Razafison, Université de Bourgogne Franche-Comté, France

Networking and Refreshments Break @ Foyer

Title: Numerical simulation of the airfoils icing processes
Sergey V Alekseyenko, Oles Honchar Dnipro National University, Ukraine
Title: Droplet deformation and breakup in the shoulder region of an aerodynamic surface: Experimental characterization
Adelaida Garcia-Magarino, Isdefe, Spain
Title: Traditional and innovative methodologies (UAV-based) for the study of the dynamics of atmospheric aerosols
R Alberto Bernabeo, Abu Dhabi University, UAE
Title: Reshaping the future of aircraft design
Emiliano Costa, RINA Consulting, Italy
Title: Design of an active fluidic injection system for jet noise reduction through a hybrid CFD-stochastic approach
Mattia Barbarino, CIRA, Italy

Panel Discussion

Day 2 October 20, 2017

Hall Name - Appia 1+2

Keynote Forum

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

Sessions: Aero Dynamics | Aero Acoustics | CFD- Methodology | Thermo- Fluid Dynamics

Session Chair: Konstantinos Kontis, University of Glasgow, UK
Session Co-chair: I V Sharikov, Saint Petersburg Mining University, Russia

Session Introduction

Title: New meshless formulations for aeroacoustics and compressible aerodynamic computations
Xesús Nogueira, Universidade da Coruña, Spain
Title: CFD analysis and experimental tests of a fire safety pressurized smokeproof enclosure
Piergiacomo Cancelliere, Italian National Fire Rescue and Service – CNVVF – Rome, Italy

Networking and Refreshments Break @ Foyer

Title: Optimization analysis of the combinations of concentrator and wind turbine with flap in CFD
Tahir Yavuz, Başkent University, Turkey
Title: The features of the modeling the nanofluid flows
Valery Ya Rudyak, Novosibirsk State University of Architecture and Civil Engineering, Russia
Title: High speed aerodynamic phenomena and interactions including their control
Konstantinos Kontis, University of Glasgow, UK
Title: Computational fluid dynamic simulation of leakage acoustic waves propagation model for gas pipelines
Cuiwei Liu, China University of Petroleum, China
Title: Anticipating of chaotic dynamics via schemes without time-delay terms
T Pyragiene, Center for Physical Sciences and Technology, Lithuania
Title: Aerodynamic characterization of new filters of bioaerosol for INTA investigation aerial platforms
Suthyvann Sor, INTA, Spain

Lunch Break @ Hotel Restaurants

Title: Flow structure in the vicinity of flapping elephants' pinnae and thermal implications
Moise Y Koffi, Hostos Community College, USA
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

Title: Finite-time blow-up for the 3-D primitive equations of oceanic and atmospheric dynamics
Lin Zheng, Beijing University of Technology, China
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
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
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

Poster Presentations

Poster Judge: Piergiacomo Cancelliere, Italian National Fire Rescue and Service – CNVVF – Rome, Italy

FAD 1	**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

Title: Diffraction of shock waves
R S Srivastava, Defence Science Centre, India

Panel Discussion

Awards & Closing Ceremony