Tentative Scientific Program

Schedule May Vary

Day 1	October 19, 2017
08:30-09:00	**Registrations**
09:00-9:25	**Opening Ceremony**
	Keynote Forum
09:25-09:30	**Introduction**
09:30-10:10	**Title:** Improving efficiency of a Kalina cycle by controlling condensation pressure for low-grade energy utilization **H.C. Yee,** NASA Ames Research Center, USA
10:10-10:50	**Title:** Jet manipulation using unsteady minijets **Yu Zhou,** Harbin Institute of Technology, China
	Coffee Break 10:50-11:10
	Plenary Session
11:10-11:50	**Title:** Flow-sound interaction mechanisms during the resonance of trapped diametral modes in shallow cavities **Samir Ziada,** McMaster University, Canada
	Fluid Dynamics | Micro Fluidics | Numerical Methods | Magneto Hydrodynamics | Heat Transfer System
	Session Introduction
	Session Chair: YTD
	Session Co-Chair: YTD
11:50-12:15	**Title:** The Liquid-liquid and gas-liquid two-phase flow studies with and without heat transfer **Faik Hamad,** Teesside University, UK
12:15-12:40	**Title:** Generation of Tollmien-Schlichting waves by free-stream turbulence **Maksim V Ustinov,** TsAGI, Russia
12:40-13:05	**Title:** Wavy interface behavior and droplet entrainment of annular two-phase flow in rod-bundle geometry with spacers **Tomoaki Kunugi,** Kyoto University, Japan
	Lunch Break 13:05-14:00
14:00-14:25	**Title:** Development of Control Systems of Sintering Processes in Rotary Tubular Kilns on Base 2D-Modelling With Usingthermovisors Scanning **I.V. Sharikov,** Saint Petersburg Mining University, Russian Federation
14:25-14:50	**Title:** Extreme computation of Stokes flow using axial Green function method on refined axial lines **Do Wan Kim,** Inha University, South Korea
14:50-15:15	**Title:** Investigation on the Internal Two-Phase Flow Induced Vibration Characteristics of the Marine Riser System **Qihui Hu,** China University of Petroleum, China
15:15-15:40	**Title:** Two particle correlation in heavy-ion collisions using momentum kick **Jin-Hee Yoon,** Inha University, South Korea
15:40-16:05	**Title:** Variational principles for topological non-barotropic fluid dynamics **Asher Yahalom,** Ariel University, Israel
	Coffee Break 16:05-16:25
16:25-16:50	**Title:** Near-wall domain decomposition in turbulence modeling: current state-of-the-art and perspectives **Sergey Utyuzhnikov,** University of Manchester, UK
16:50-17:15	**Title:** Mathematical analysis of the exterior problem of Navier-Stokes using weighted Sobolev spaces **Ulrich Razafison,** Université de Bourgogne Franche-Comté, France
17:15-17:40	**Title:** Numerical Simulation of the Airfoils Icing Processes **Sergey V Alekseyenko,** Oles Honchar Dnipro National University, Ukraine
17:40-18:05	**Title:** Droplet deformation and breakup in the shoulder region of an aerodynamic surface: Experimental characterization **Adelaida Garcia-Magarino,** ISDEFE, Spain
18:05-18:30	**Title:** Traditional and innovative methodologies (UAV-based) for the study of the dynamics of atmospheric aerosols **R. Alberto Bernabeo,** Abu Dhabi University, UAE
	Special Session
18:35-19:10	**Title:** LES predictions of self-sustained oscillations in round free jets **Andrzej Boguslawski & Artur Tyliszczak,** Czestochowa University of Technology, Poland

Day 2	October 20, 2017
Keynote Forum	
09:00-09:40	**Title:** Simultaneous Aerodynamic Pressure Measurements and Modern Structural Design for Wind **Emil Simiu,** Tokyo National Institute of Standards and Technology, USA
09:40-10:20	**Title:** Stable detonative combustion of hydrogen in a supersonic flow coming in a convergent – divergent nozzle **Yuri V. Tunik,** Research Institute for Mechanics, Russia
Aero Dynamics | Aero Accoustics | CFD- Methodology | Thermo- Fluid Dynamics	
	Session Introduction
Session Chair: YTD	
Session Co-Chair: YTD	
10:20-10:45	**Title:** New meshless formulations for aeroacoustics and compressible aerodynamic computations **Xesús Nogueira,** Universidade da Coruña, Spain
	Coffee Break 10:45-11:05
	Session Continues
11:05-11:30	**Title:** ACFD analysis and experimental tests of a fire safety pressurized smokeproof enclosure **Piergiacomo Cancelliere,** Italian National Fire Rescue and Service – CNVVF – Italy
11:30-11:55	**Title:** Anticipating of chaotic dynamics via schemes without time-delay terms **Tatjana Pyragiene,** Center for Physical Sciences and Thechnology, Lithuania
11:55-12:20	**Title:** The features of the modeling the nanofluid flows **Valery Ya. Rudyak,** NSUACE, Russia
12:20-12:45	**Title:** High speed aerodynamic phenomena and interactions including their control **Konstantinos Kontis,** University of Glasgow, UK
12:45-13:10	**Title:** Computational fluid dynamic simulation of leakage acoustic waves propagation model for gas pipelines **Cuiwei Liu,** University of Petroleum, China
	Lunch Break 13:10-14:05
	Session Continues
14:05-14:30	**Title:** Missile-motion performance analysis of gas-steam launch system utilizing multiphase flow model and dynamic grid system **Jeong Soo Kim,** Pukyong National University, South Korea
14:30-14:55	**Title:** Flow structure in the vicinity of flapping elephants' pinnae and thermal implications **Moise Y Koffi,** CUNY-Hostos CC, USA
14:55-15:20	**Title:** Optimization Analysis of the Combinations of Concentrator and Wind Turbine with Flap in CFD **Tahir Yavuz,** Baskent University, Turkey
	Coffee Break 15:20-15:40
Young Researchers Forum	
15:40-16:05	**Title:** Finite-time blow-up for the 3-D primitive equations of oceanic and atmospheric dynamics **Lin Zheng,** Beijing University of Technology, China
16:05-16:30	**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
16:30-16:55	**Title:** An Investigation of heat transfer performance of rectangular plate-fin heat exchanger by using common flow up & common flow down **Seyfi Girgin,** Istanbul Technical University, Turkey
16:55-17:20	**Title:** Bood Flow Analysis in presence of static magnetic field of 3.0 T **J. Alfredo Soto,** University of Guanajuato, Mexico
Poster Presentations	
17:20-17:45	**Title:** Power Consumption of Liquid Atomization Device by using Rising FilmFlow along a Rotating Cone and Disk **Yutaro Takahashi,** Akita University, Japan
	Title: Pressure drop evaluation of heat exchanger model with disturbance promoters **Satoshi Hotta,** Akita University, Japan
	Title: Dynamic impact on a frozen support caused by natural and quasinatural oscillations of an ice plate **Aleksei Greshilov,** Lavrentyev Institute of Hydrodynamics SB RAS, Novosibirsk, Russia
Video Presentations	
17:45-18:30	**Title:** Diffraction of Shock Waves **R.S. Srivastava,** Defence Science Centre, India
Closing Ceremony	