

16th IBCAST 2019: Fluid Dynamics Activity (Technical Program)

Overview

		09:30– 13:00					14:00– 16:00									
Day-1 January 08,2019 Tuesday	REGISTRATION										Invited Talk	FD Paper				
											Onder ALTUNTAS	19FD 754	19FD 701	19FD 329	19FD 696	
Day-2 January 09,2019 Wednesday	FD Papers					T E A	Invited Talk	FD Papers			L U N C H	Invited Talk	FD Papers			
	19FD 149	19FD 323	19FD 852	19FD 277	19FD 535		Onder ALTUNTAS	19FD 21	19FD 551			Dr. Imran Akhtar	19FD 414	19FD 532	19FD 615	19FD 224
	FD Papers															
Day-3 January 10,2019 Thursday	19FD 13	19FD 388	19FD 256	19FD 42	19FD 691											

Day 1: January 8, 2019

09:30-1:00	REGISTRATION + INAUGURAL CEREMONY (FOLLOWED BY Hi Tea for guests)	
1:00–2:00	LUNCH	
(SESSION-I Chaired by Dr Muhammad Rafiq)		
2:00 – 2:40 Invited Talk	Concept Life Cycle Assessment of Aero Engines	Onder ALTUNTAS
2:40 – 3:00	19FD754 Large Eddy Simulation of Flow over a New Type of Low-Wind-Pressure Conductor Using WALE Model	Zhang Jun (China)
3:00 – 3:20	19FD701 Numerical Prediction of Aeroacoustic Loads on a Hammerhead Nose Cone Configuration	Maryam Ozair (SUPARCO)
3:20 – 3:40	19FD329 Design and Capturing of Shock Wave in Ejector by Numerical Simulations	Ali Abbas Zaidi (NUST)
3:40 - 4:00	19FD696 CFD Analysis of Jet Plume Shock and Sonic Boom Signatures Interaction with Different Nozzle Pressure Ratios	Muhammad Amjad Sohail (IST)

Day 2: January 09, 2019

(SESSION-I Chaired by Onder ALTUNTAS)		
9:30 – 9:50	19FD149 An Overview of Methodologies to Predict Lean Blowout Limits for Gas Turbine Combustors	Yong Huang
9:50 – 10:10	19FD323 Simulation of Flow in the Intake Pipe of an Internal Combustion Engine	Ali Abbas Zaidi (NUST)
10:10 – 10:30	19FD852 Effects of Wavelength and Amplitude Variation of the Plasma Leading Edge Tubercles	Afaq Ahmed Abbasi (China)
10:30 – 10:50	19FD277 Review of Modern Trend for Numerical Model Testing in Worldwide Towing Tanks	Hammad Khan (CESAT)
10:50 – 11:10	19FD535 Temperature Sensing Technologies in Hypersonic Ground Test Facilities for Re-entry Vehicles	Taimur Ali Shams (NUST)
11:10 – 11:30	T E A	
(SESSION-II Chaired by Dr Sajid Raza)		
11:30 – 12:10 Invited Talk	The Evaluation of the Aircraft Engine – Past, Present & Future	Onder ALTUNTAS
12:10 – 12:30	19FD21 Hybrid CFD-CAA Numerical Simulation for Rotor-Stator Interaction Noise	Tayyab Tahir Akhtar (China)
12:30 – 12:50	19FD551 Analysis of Wind Turbine's Velocity Deficit, Recovery and Output Power Losses using a Hybrid CFD-Jensen's Wake Model Scheme	Rana Fahad Latif (NUST)
12:50 – 2:00	LUNCH	
(SESSION-III Chaired by Dr Naveed Durrani)		
2:00 – 2:40 Invited Talk	Micro – Power Generation using Cross – Flow Instabilities: Application in Energy Harvesting.	Dr. Imran Akhtar
2:40 – 3:00	19FD414 Performance Simulation of a Stirling Cryocooler Using CFD	Luqman Ahmed (NUST)
3:00 – 3:20	19FD532 Evaluation of Aerodynamic and Stability Performance Parameters of High Wing Piston Engine Aircraft	Taimur Ali Shams (NUST)
3:20 – 3:40	19FD615 Computational Analysis of Environmental Control System of an Aircraft Using Dry and Moist Air as Medium	Muhammad Ayaz Ahmad (NUST)
3:40 – 4:00	19FD224 Experimental Study of Laminar Natural Convection Heat Transfer from Slender Circular Cylinder in Air Quiescent Medium	Ali Riaz (PIEAS)

Day 3: January 10, 2019

(SESSION-I Chaired by Dr Muhammad Rafiq)		
9:30 – 9:50	19FD13 Climatic Cooling Potential Evaluation and Ventilation Strategies Optimization for City Buildings in China	Yin Zhang (China)
9:50 – 10:10	19FD388 Performance Enhancement of Fully Active Flapping Foil Flow Energy Harvester	Zaheer Abbas (NUST)
10:10 – 10:30	19FD256 Energy Harvesting Potentials of Flow-Induced Vibrations for Trapezoid and Square Bodies- Numerical Simulations and Analysis	Muhammad Hanzala Shahid (NUST)
10:30 – 10:50	19FD42 A Linearly Energy-Preserving Method Based on Energy Quadratic Technique for the Sine-Gordon Equation	Yuezheng Gong (China)
10:50 – 11:10	19FD691 Use of Skewed Radial Basis Functions for Meshless Solutions of Highly Convective One-Dimensional Convection-Diffusion Equations	Ali Baig (NUST)
11:10 – 11:30	T E A	