TECHNICAL PROGRAM - 20th IBCAST 2023 (Fluid Dynamics Activity)

	0930-1010	1010-1030	1030-1050	1050-1110	1110-1125	1125-1145	1145-1205	1210-1300	1300-1400	1400-1440	1440-1500	1500-1520	1520-1540	1540-1600	1600-1640	1640-1700	1700-1720	1720-1740
										REGIS	TRA	TIO	N		Invited Talk	1	2	3
Day – 1 22 nd Aug	- -							Assistant Prof. Dr. Talha Irfan (IST)	ID-193	ID-184	ID-579							
D 0	Invited Talk (Online)	4	5	6		7	8	Invited Talk	СН	Invited Talk	9	10	11	12				
Day – 2 23 rd Aug	Prof. Dr. Liang Guozhu <i>(BUAA)</i>	ID-11	ID-112 No Show	ID-143	A	ID-94	ID-119	VADM(R) Ahmed Saeed	LUNG	Prof. Dr. Qun Zheng (Harbin,China)	ID-224	ID-331	ID-476 No Show	ID-448				
	Invited Talk (Online)	13	14	15	T E													
Day – 3 24 th Aug	Prof. Dr. Gang Wang (NPU, China	ID-366	ID-359	ID-188			CHE	CK-OUT										
Day – 4 25 th Aug						•												

TECHNICAL PROGRAM - 20th IBCAST 2023 (Fluid Dynamics Activity)

DAY-1	SESSION – I [Chaired by Dr. Muhammad Rafique]	22 nd August 2023
16:00 – 16:40	Invited Talk - Use of CFD for Mechanical Circulatory Support System Design	Assistant Prof. Dr. Talha Irfan, IST
16:40 – 17:00	#1 [ID-193] - Effect of Rack Arrangement on Energy Consumption in a Data Center using Numerical Analysis	Fahad Butt, NUST
17:00 – 17:20	#2 [ID-184] - Numerical Simulation of Thermal Performance Enhancement of a PCM Hea <u>t S</u> ink Under Different Heat Loads	Ozair Ghufran Bhatti, CESAT
17:20 – 17:40	#3 [ID-579] - CFD Analysis of Vacuum Membrane Distillation for Saline Water	Faisal Iqbal, GIKI

D A Y - 2	S E S S I O N – I [Chaired by Dr. Muhammad Rafique]	23 rd August 2023
09:30 - 10:10	Invited Talk – Numerical Investigation of the Effect of Inlet Total Pressure on H2/Air Non-Premixed Rotating Detonation Combustor	Prof. Dr. Liang Guozhu, BUAA (Online via Zoom)
10:10 - 10:30	#4 [ID-11] - On Dynamics Mode Decomposition: Application on flow past an Oscillatory Cylinder	Faheem Chughtai, NUST
10:30 – 10:50	#5 [ID-112] – Energy Harvesting in The Wake of Two Tandem Arranged Cylinders with Downstream Vibrating Cylinder	Arslan Ahmed, NUST (No Show)
10:50 – 11:10	#6 [ID-143] - Numerical Investigation of PCM Melting Performance in Concentric Tube Heat Exchanger Using Y-Shaped Fins	Aurang Zaib, NUST
11:10 – 11:25	TEA BREAK	
	S E S S I O N – II [Chaired by Dr. Basharat Ali Haider]	
11:25 – 11:45	#7 [ID-94] - Stability Augmentation of Micro Air Vehicle in Flying Wing Configuration under Propeller Slip Stream Effects	Azhar Abbas, NUST
11:45 – 12:05	#8 [ID-119] – Investigation and Design Improvement of Wind Farm and Multi-Rotor Arrangement of Hybrid VAWT for Energy Harvesting	Ahsan Iqbal, NUST
12:10 – 13:00	Invited Talk – Titan: A Trail of Errors & Omissions [Plenary Session of UW Track]	Vice Admiral(R), Ahmed Saeed, ні(м)
13:00 - 14:00	LUNCH BREAK	
	S E S S I O N – III [Chaired by Dr. Muhammad Rafique]	
14:00 – 14:40	Invited Talk – A Highly Loaded Axial Helium Compressor Design Method	Prof. Dr. Qun Zheng, Harbin
14:40 – 15:00	#9 [ID-224] — Aerodynamic Shape Optimization of Omni-Directional Anemocone for Max Power Extraction	Durr-e-Shahwar, IST
15:00 – 15:20	#10 [ID-331]— Numerical Analysis Of Buffet-Causing Phenomenon In Hammerhead Shaped Body	Dr. Shamoon Jamshed, IST
15:20 – 15:40	#11 [ID-476]— Cavity Noise Reduction through Fluid-Structure Interaction of Wall Mounted Elastic Panel	Irsalan Arif, NUST (No Show)
15:40 – 16:00	#12 [ID-448]— Bio-Heat Transport Analysis of Radiating Jeffery Fluid Under the Application of Peristaltic Motion	Dr. Abdul Samad Khan, NPU

DAY-3	S E S S I O N – I [Chaired by Dr. Syed Bilal]	24 th August 2023
09:30 - 10:10	Invited Talk - Numerical analysis of transonic buffeting on aerospace vehicle configurations	Prof. Dr. Gang Wang, NPU, XI'AN, China (Online via Zoom)
10:10 - 10:30	#13 [ID-366] – Numerical Investigation of the Effect of Inlet Total Pressure on H2/Air Non-Premixed Rotating Detonation Combustor	Prof. Dr. Liang Guozhu, BUAA (Online via Zoom)
10:30 – 10:50	#14 [ID-359] – Numerical Study on Working Process of Gas-filled Accumulator	Tong Shi, Beihang
10:50 – 11:10	#15 [ID-188] — Spike Based Aerodynamic Shape Optimization Analysis of ICBM using Machine Learning and CFD Techniques	Amna Khan, IST
	C H E C K - O U T	