

23rd IBCAST 2026: Aerostructures Track

17-20 August 2026

Technical Program Updated on: 30-07-2026

	0900-1030			1030 - 1050	1050-1230			1230- 1400	1400-1700					
Day-1 August17, 2026 Monday								Lunch Break	Registration	Technical Session I				
										Dr. Ali Nasir UET Taxila	AS- 60	AS- 61	AS- 86	
Day-2 August18, 2026 Tuesday	Technical Session II			T E A B R E A K	Technical Session III				Technical Session IV	Tea Break 1530- 1545	Technical Session V		Technical Session VI	
									1400:1530		1545:1715		1715:1830	
	Prof. Dr. Zhaolin Chen NUAA, China	AS- 121	AS- 233		AS- 266	AS- 412	Plenary Talk-I Dr. Ahmed Wagih KAUST, KSA		Plenary Talk-II Prof. Dr. Orkun Hasekioglu TUBITAK, Türkiye		Plenary Talk-III Prof. Dr. Lida Shen NUAA, China	Dr. Waqas Anwar CESAT, Pakistan	AS- 518	
Day-3 August19, 2026 Wednesday	Technical Session VII			T E A B R E A K	Technical Session VIII				Technical Session IX & X					
	Prof. Dr. Muzio Gola Politecnico di Torino, Italy	AS- 215	AS- 309		Dr. Xiaole Li KAUST, KSA	AS- 319	AS- 403		AS- 46	AS- 317	AS- 386	AS- 523	AS- 6	AS- 10

Day 01

Time	Session(s)	17 th August 2026	
1530 - 1800	Session 1.1 Chair: Dr. Ahmed Wagih KAUST, KSA	Invited: 01	Contributed: 03
		Invited Talk 01: Comparative Study of Low Velocity Impact Response of Different 3D-Printed Sandwich Composite Configurations Dr. Ali Nasir (UET Taxila, Pakistan)	
		Contributed 01: Inverse Finite Element Method for Real-Time Shape Sensing and Damage Assessment of Aerospace Structures: A Digital Twin Perspective Ihtisham Khalid (NUST, Pakistan)	
		Contributed 02: Real-Time Aerothermal Field Reconstruction and Thermal Anomaly Detection in Aerospace Structures Using the Inverse Finite Element Method Ihtisham Khalid (NUST, Pakistan)	
		Contributed 03: Computational Framework for Analysis of Critical Flight Loads of Agile Aircraft Chaudry Rohan Rafiq (TAI, Pakistan)	

Day 02

Time	Session(s)	18 th August 2026	
0900 - 1030	Session 2.1 Chair: Prof. Dr. Lida Shen NUAA, China	Invited: 05	Contributed: 05
		Invited Talk 02: Multi-objective Design Optimization of a Martian Rotor System Prof. Dr. Zhaolin Chen (NUAA, China)	
		Contributed 04: Experimental Testing of a Micro Turbojet to Measure Mass Flow Rates, Thrust and Exhaust Pressure Syed Mohammad Ali (TAI, Pakistan)	
		Contributed 05: Control of Turbulent Flow Separation Over a High Lift Airfoil Configuration Using Fluidic Oscillator Sheikh Muhammad Ali Bin Aamir (NUST, Pakistan)	
TEA BREAK			
1050 - 1230	Session 2.2 Chair: Prof. Dr. Zhaolin Chen NUAA, China	Contributed 06: Structural Integrity and Parametric Performance Assessment of an Articulated Industrial Robotic Arm Link Using Finite Element Analysis Muhammad Zaid (NUST, Pakistan)	
		Contributed 07: Design and Simulation of a MEMS Accelerometer Using a Displacement Amplification Mechanism Sohail Iqbal (Air University)	

		Plenary Talk 01: Thin-Ply Thermoplastic Composites: A Path Toward Durable Type V Hydrogen Storage Tanks for Aerostructures Dr. Ahmed Wagih (KAUST, KSA)
LUNCH BREAK		
1400 - 1530	Session 2.3	Plenary Talk 02: Advanced Materials in Additive Manufactured Structural Health Monitoring Prof. Dr. Orkun Hasekioglu (TUBITAK, Türkiye)
TEA BREAK		
1545 - 1715	Session 2.4	Plenary Talk 03: Jet Electrodeposition: Fundamental Research and Aerospace Surface Applications Prof. Dr. Lida Shen (NUAA, China)
1715 - 1830	Session 2.5 Chair: Dr. Hafiz Sana Ullah Butt CESAT, Pakistan	Contributed 08: Design A Small-Scale Prototype of Industry 4.0 for Additive Manufacturing Ahmad Sajjad (NUST, Pakistan)
		Invited Talk 03: A Novel Methodology of Flight Loads Measurement on Aircraft Store Using Instrumented Pylon Dr. Waqas Anwar (CESAT, Pakistan)

Day 03

Time	Session(s)	19 th August 2026	
0900 - 1030	Session 3.1 Chair: Dr. Xiaole Li KAUST, KSA	Invited: 02	Contributed: 10
		Invited Talk 04: Shape Pre-Optimization of Fir-Tree Couplings in Blade-Disk Connections Prof. Dr. Muzio Gola (Politecnico di Torino, Italy)	
		Contributed 9: Two-Dimensional Axisymmetric Transient CFD Analysis of Supersonic Thermal Quenching by Liquid Water Injection in a Cylindrical Duct Salif Aroos (PIEAS, Pakistan)	
		Contributed 10: Thermo-Structural Analysis and Cooling System Design of High-Speed Nozzle M. Talha (PIEAS, Pakistan)	
TEA BREAK			
1050 - 1230	Session 3.2 Chair: Prof. Dr. Muzio Gola Politecnico di Torino, Italy	Invited Talk 05: Evolving Test Methods for Fracture Property Evaluation of Interfaces Dr. Xiaole Li (KAUST, KSA)	
		Contributed 11: Harnessing the Power of Physics-Based Digital Twins for Remaining Useful Life Prediction of Gas Turbine Engines Abdul Haseeb (PIEAS, Pakistan)	
		Contributed 12: Light Weight Sandwich Panel with Composite Grid Laminate for Satellite Applications Saima Manzoor (SUPARCO, Pakistan)	

		Contributed 13: One-Way Coupled CFD–FEA Analysis of Symmetric Composite Laminates for Aerospace Applications Sakhawat Ali (CESAT/ Ural Federal University (UrFU), Russia)
LUNCH BREAK		
1400 - 1700	Session 3.3/3.4 Chair: Dr. Abdur Rauf CESAT, Pakistan	Contributed 14: Mathematical Modeling to Validate the Working of Pressurized-Gas Liquid Feed System Ammarah Bria (CESAT, Pakistan)
		Contributed 15: Experimental and Numerical Analysis of Damage Progression in Woven Fiber Composites Raaid Faisal (CESAT, Pakistan)
		Contributed 16: Remaining Useful Life Prediction of Aircraft Engines using LSTM-Based Conservative Loss Function Muhammad Ahmad (CESAT, Pakistan)
		Contributed 17: Testing and Analyses of Variable Pitch Propeller (VPP) Hub to Meet Strength and Durability Requirements Nabeel Ahmad (CESAT, Pakistan)
		Contributed 18: Damage Detection in Hale Wing Structure Using FRF And Iterative Model Strain Energy Anees Ur Rehman (CESAT, Pakistan)