

21st IBCAST 2024: Aerostructures Track

20-23 August 2024

Technical Program Updated on: 13-08-2024

Day 01

Time	Session(s)	20 th August 2024	
1600 - 1800	Session 1.1 Chair: Dr. Wesley Cantwell / Local Invited Speaker 01	Invited : 01	Contributed: 02
		Invited Talk 01: A Path off the Beaten Track to Achieve the Best Coupling Between Turbine Blade and Underplatform Damper Dr. Muzio Gola (Online)	
		Contributed 01: Developing of Novel Hybrid Auxetic Structures for Enhanced Compression Properties via Additive Manufacturing Babar Ishfaq (GIKI)	
		Contributed 02: Structural Optimization of Perforated Heat Sink for Active Thermal Management Maiyda Arshad (CESAT)	

Day 02

		21st August 2024	
0900 - 1045	Session 2.1 Chair: Dr. Muzio Gola / Local Invited Speaker 02	Invited : 04	Contributed: 08
		Invited Talk 02: Local Invited Speaker 01 Dr. Sohail Malik	
		Contributed 03: Flight Mechanics of a Supersonic Projectile: A Parametric Investigation Abdul Rafay (NUST)	
		Contributed 04: A Numerical Approach to Predict Roller Follower Valve Trian Frictional Torque Considering the Effects of Roller Sliding Tayyab ul Islam (CESAT)	
TEA BREAK			
1100 - 1300	Session 2.2 Chair: Dr. Muzio Gola / Local Invited Speaker 01	Invited Talk 03: Mechanical Properties of Additively Manufactured Aerospace Structural Parts Dr. Ilhan Sen (Online)	
		Contributed 05: On the Investigation of the Possibility of Converting the Vintage Trent 1000 to Gas Turbine Power Plant Muhammad Shahid (Air University)	
		Contributed 06: Thermal Modelling of the Selective Laser Melting (SLM) 3D Printing Process and Melt Pool Characteristics Kamran Ahmad (PIEAS)	
LUNCH BREAK			

<p>1430 - 1545</p>	<p>Session 2.3 Chair: Dr. Wolfgang Lubner / Local Invited Speaker 03</p>	<p>Invited Talk 04: Energy Absorption in High Performance Composites Dr. Wesley Canttwell / Local Invited Speaker 02 Dr. Aqeel Ahsan</p> <hr/> <p>Contributed 07: Interlock and raster angle optimization for enhanced impact toughness of PLA pro Multi material joining Shafi Ullah (GIKI)</p> <hr/> <p>Contributed 08: Vibrational Analysis of a Reinforced Concrete Structure using Viscous Dampers Shanza Rohan (Air University)</p>
TEA BREAK		
<p>1600 - 1730</p>	<p>Session 2.4 Chair: Dr. Wesley Canttwell / Local Invited Speaker 02</p>	<p>Invited Talk 05: Structural Design of A Combat Aircraft Vertical Tail, including Dynami Loads from Wing and Airbrake Separated Flow Dr. Wolfgang Lubner</p> <hr/> <p>Contributed 09: Designing an Optimal Tuned Mass Damper System for Seismic Vibrations Loveeza (Air University)</p> <hr/> <p>Contributed 10: An Experimental Investigation of the Mechanical Response of Nomex Sandwich Composites Under Bending Loads Sameer Khalid (Air University)</p>

Day 03

		22nd August 2024	
0900 - 1045	Session 3.1 Chair: Dr. Wolfgang Lubert / Local Invited Speaker 03	Invited : 02	Contributed: 04
		Contributed 11: Assessment of ASTM Standards for Investigation of Inter-laminar shear strength in 3D woven angle Interlock Composites Hasnain Tahir (CESAT)	
		Contributed 12: FMI for Sharing NASTRAN Dynamic FEM Models M. Salman (CESAT)	
		Invited Talk 06: Structure Optimization, Smart Structures Dr. Huang Hai	
TEA BREAK			
1100 - 1250	Session 3.2 Chair: Dr. Muzio Gola / Local Invited Speaker 02	Invited Talk 07: Local Invited Speaker 03 Dr. Qasim Zafar	
		Contributed 13: Comparative Study to Investigate Effect of Load Spectrum Characteristics on Fatigue Life of Airborne Store Waqas Anwar (CESAT)	
		Contributed 14: A Hybrid Dynamic Substructuring Approach for Combining Numerical and Experimental Modal Response Zia ur Rehnman (CESAT)	
DEPARTURE TO ISLAMABAD			