

19th IBCAST 2022: Aerostructures Track

16-20 August 2022

Technical Program

Updated on: 13-07-2022

	16-August-2022			17-August-2022			18-August-2022			19-August-2022				
	Day-1	# of Talks:		Day-2	# of Talks:		Day-3	# of Talks:		Day-4	# of Talks:			
		Invited:02	Contrib : 04		Invited: 03	Contrib: 08		Invited: 03	Contrib :07		Invited: 01	Contrib: 02		
09:00 - 10:30	Departure to Bhurban			Session 2.1 (Session Chair: Dr. Mohsin Haider)	Invited Talk:03 Local Invited Speaker 01 Dr. Hamayat Ullah “Damage and Failure Analysis of Composite Structures”	Session 3.1 (Session Chair: Dr. Sohail Malik)	Invited Talk:06 Local Invited Speaker 02 Dr. Yasir Zahoor “Wing Morphing: Opportunities and Challenges”	Session 4.1 (Session Chair: Dr. Abdul Manan/ Dr. Waqas Anwar)	Invited Talk:09 Prof. Dr. Yavuz Yaman (Talk #02) “Some Recent Studies About Aeroelasticity and Aerospace Structures in the Department of Aerospace Engineering METU, Turkey”					
TEA				TEA				Contrib # 05 Paper ID # 782: Simulation and Development of an Autonomous Drone for Delivery of Medicine during Covid-19 M.M Khan		Contrib # 13 Paper ID # 540: Multiple Damage Detection of cantilever Wing using Classification Machine Learning and Neural Network Architecture Zia ur Rehman		Contrib # 21 Paper ID # 496: Vibration Simulation of SMA Embedded Composite Panels Rehan Jamshed		
11:00 - 12:30						Session 2.2	Contrib # 06 Paper ID # 680: Effect of Various Geometric Modifications on Adhesive Stress Profile in Lap Joint Hassan Ejaz	Session 3.2	Contrib # 14 Paper ID # 683: Optimization of firing rate of a vehicle mounted Rocket Launcher Ali Yaseen	Closing Ceremony				

			(Session Chair: Dr. Zubair Khan)	<p>Contrib # 07 Paper ID # 682: Damage Detection in Structure using Frequency Response Function and Modal Strain Energy M. Wasif Khan</p> <p>Contrib # 08 Paper ID # 99: A Figure Merit Based Computational Heat Transfer Method for Aerothermal Analysis of Airborne Electronic System LRU M.H. Noor</p>	(Session Chair: Dr. Wolfgang Lubert)	<p>Contrib # 15 Paper ID # 156: Influence of Wing Kinematics on Lateral Dynamic Stability of Bioinspired Flapping Wing Micro Air Vehicle involving Multibody Dynamics Muhammad Yousaf Bhatti</p> <p>Contrib # 16 Paper ID # 226: Comparative Study of Aeroelastic Response of Flat Plate Using Frequency & Time Domain Methods Ahsan Ayaz</p>	
LUNCH							
14:00 - 15:30 (Session Chair: Dr. Yavuz Yaman)	Session 1.1	Invited Talk:01 Dr. Wolfgang Lubert "Structure Design of Military Aircraft Vertical Tail Including Dynamic Loads from Wing and Air Brake Separated Flow"	Session 2.3 (Session Chair: Dr. Ali Nasir/Dr. Abid)	Invited Talk:04 Dr. Yavuz Yaman (Talk #01) "A Finite Element Proposal for the Solution of Panel Flutter Problems"	Session 3.3 (Session Chair: Dr. Yasir Zahoor)	Invited Talk:07 Local Invited Speaker 03 Dr. Baseer Ullah "Topology Optimization for Additive Manufacturing"	Departure to Islamabad
		Contrib # 01 Paper ID # 617: Numerical Simulation of progressive Damage in Composite Wind Turbine Blade under Aerodynamic Loads Dr. Himayat Ullah		Contrib # 09 Paper ID # 194: Applications of Super Element Technique in FE Analysis of Aerostructures Zeeshan Ali		Contrib # 17 Paper ID # 501: Determination of Heat Fluxes for Fairing Separation of Space Vehicles Sadia Anum	
		Contrib # 02 Paper ID # 118: Effect of Various Heat treatments on Lap Shear Strength of Adhesive Joints Hassan Ejaz		Contrib # 10 Paper ID # 681: Row Geometric Variation Sensitivity Evaluation for In-Plane Crashworthiness Characteristics of a Regular Hexagonal Cell Honeycomb Panel Nayab Saeed		Contrib # 18 Paper ID # 139: Damage mechanism of Aluminosilicate glass under low-velocity hard impact: An experimental and numerical investigation Muhammad Aamir Raza	

TEA						
16:00 - 17:30 (Session Chair: Dr. Himayat Ullah)	Session 1.2	Invited Talk: 02 (Online) Prof. Dr. Muzio Gola “Rational Unified Approach to Solid Under Platform Dampers”	Session 2.4 (Session Chair: Dr. Haroon Awais Baluch/Dr. Yavuz Yaman)	Invited Talk:05 Dr. Mohsin Haider “Advanced Materials for Aerospace Applications”	Session 3.4 (Session Chair: Dr. Baseer Ullah)	Invited Talk:08 Local Invited speaker 04 Dr. Sohail Malik “Urban Air Mobility (UAM); The Future of Sustainable City” / Dr. Muhammad Abid
		Contrib # 03 Paper ID # 400: Effect of GNP and MWCNT Addition on Lap Shear Strength of Adhesively Bonded Joints Hassan Ejaz		Contrib # 11 Paper ID # 589: Design and Optimization of Composite Prismatic Pressure Vessel with Different Fiber types and Orientation Naeem ur Rehman		Contrib # 19 Paper ID # 813: Structural Health Monitoring System for Aluminum structures using Electromagnetic Acoustic Transducers Umair Dildar
		Contrib # 04 Paper ID # 685: Modal Parameter Sensitivity of a Wing with Tip Mass Variation Murad Alam		Contrib # 12 Paper ID # 624: Parametric Optimization of TIG Welding in Low Alloy Steel Sheets Asif Butt		Contrib #20 Paper ID # 840: Dynamic Nonlinear Buckling Of Viscoelastic Plate Considering Higher Order Modes Yuanxiang Sun
17:30 - 19:30	Technical Discussion (18 Aug 2022): Opportunities and Challenges of Advanced Materials and Associated Manufacturing Technologies towards Aerostructure Applications <i>by</i> Dr. Mohsin Haider					
DINNER						