

# 16<sup>th</sup> IBCAST 2019: Aerostructures

8-12 January 2019

Technical Program

Updated on:  
January 03, 2019

	0930 – 1110		1130 – 1250		1400 – 1630
<b>Day-1</b> January 08, 2019 Tuesday	REGISTRATION				<b>Invited Talk</b> <b>Aerostructures-I</b>
					Dr. Haroon Awais Baluch CESAT, Pak
					AS-20 AS-468 AS-169 AS-170 AS-802
<b>Day-2</b> January 9, 2019 Wednesday	<b>Invited Talk</b> <b>Aerostructures-I</b>		<b>Invited Talk</b> <b>Aerostructures-I</b>		<b>Invited Talk</b> <b>Aerostructures-I</b>
	Dr. Jianfu Zhang Tsinghua, China	AS-276 AS-12	Dr. Sohail Malik GIKI, Pak	AS-500	Dr. Himayat Ullah CESAT, Pak
					AS-797 AS-492 AS-319 AS-437 AS-606 AS-362
<b>Day-3</b> January 10, 2019 Thursday	<b>Invited Talk</b> <b>Aerostructures-I</b>		<b>Invited Talk</b> <b>Aerostructures-I</b>		<b>Invited Talk</b> <b>Aerostructures-I</b>
	Dr. Manfred Schmid Switzerland	AS-148 AS-316	Dr. Baseer Ullah CESAT, Pak	AS-662	Dr. AB Spierings Switzerland
					AS-660 AS-743 AS-456 AS-85 AS-40

## Day 1: January 08, 2019

09:30-12:50	REGISTRATION	
12:50-14:00	LUNCH	
<b>14:00 – 16:30</b> Chair: <b>Dr. Jianfu Zhang</b>	Commercial UAVs and Urban Mobility; Future and Challenges	Dr. Haroon Awais Baluch CESAT, Pak
	<b>AS-20:</b> Research on Design and FE Simulations of Novel Ultrasonic Circular Saw Blade (UCSB) Cutting Tools for Rotary Ultrasonic Machining of Nomex Honeycomb Composites	Shahzad Ahmad Tsinghua Uni, China
	<b>AS-468:</b> Bearing Failure Analysis of Carbon Fiber Reinforced Composite to Metal Bolted Joint at Elevated Temperature	Abdus Salam BUAA, China
	<b>AS-169:</b> An investigation into the influence of process parameters on the surface quality of AISi10Mg parts by SLM process	Arfan Majeed NPU, China
	<b>AS-170:</b> Design and Implementation of a Mini Ultrasonic Cutting System for Nomex Honeycomb Composites	Ke Ma Tsinghua Uni, China
	<b>AS-802:</b> Directional Tensile properties of steel structure manufactured by robotic assisted GMAW additive manufacturing	Ali Waqas NPU, China

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Day 2: January 09, 2019

<p><b>9:30 – 11:00</b> Chair: <b>Dr. Abdul Manan</b> CESAT, Islamabad</p>	<p>Damage formation and suppression in rotary ultrasonic drilling of hard and brittle materials &amp; ceramic matrix composites</p>	<p><b>Dr. Jianfu Zhang</b> Tsinghua Uni, China</p>
	<p><b>AS276:</b> Affordable Modal Testing</p>	<p><b>Louw Van Zyl</b> DPSS, CSIR South Africa</p>
	<p><b>AS12:</b> Estimation of Rolling Effectiveness and Control Reversal for Aeroelasticity Effects</p>	<p><b>Yaser Javed</b> NUST, Pakistan</p>
<p><b>11:00 – 11:30</b></p>	<p><b>T E A</b></p>	
<p><b>11:30 – 13:00</b> Chair: <b>Dr. Abdul Manan</b> CESAT, Islamabad</p>	<p>Roadmap to Applied Research using Numerical Methods</p>	<p><b>Dr. Sohail Malik</b> GIKI, Pak</p>
	<p><b>AS500:</b> Reliability and Quality Control Approach for Collaborative Assembly Process</p>	<p><b>Altaf Ahmed</b> BUAA, China</p>
<p><b>13:00 – 14:00</b></p>	<p><b>LUNCH</b></p>	
<p><b>14:00 – 16:30</b> Chair: <b>Dr. Fazal Ahmed Khalid</b> VC Punjab Tianjin University of Technology</p>	<p>Structural Integrity Analysis of a Long Composite Wind Turbine Blade</p>	<p><b>Dr. Himayat Ullah</b> CESAT, Pak</p>
	<p><b>AS-797:</b> Crashworthiness Parameters' Evaluation of Metallic Tubes with Multiple Inner Tubes Arrangements</p>	<p><b>Ammara Mustafa</b> CESAT, Pak</p>
	<p><b>AS-492:</b> Static structural and modal analysis of Micro Air Vehicle flapping wing with varying stiffness structures</p>	<p><b>Rizwan Yousaf</b> NUST, Pak</p>
	<p><b>AS-319:</b> Dynamic Response of a Composite Strut of a landing gear of an aircraft against impact velocity</p>	<p><b>Benazir Zia</b> CESAT, Pak</p>
	<p><b>AS-437:</b> Comparative Analysis of Various Hyperelastic Models for Neoprene Gasket at Ranging Strains</p>	<p><b>Rana Fahad Latif</b> NUST, Pak</p>
	<p><b>AS-606:</b> Optimal Cross-section of Cross Member for Increased Torsional and Bending Stiffness of Ladder Frame Chassis</p>	<p><b>Waqas Afzal</b> PIEAS</p>
	<p><b>AS-362:</b> Comparison of Damping Estimation Techniques for Flight Test Data</p>	<p><b>Usman Zaheer</b> CESAT, Pak</p>

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Day 3: January 10, 2019

<b>09:30 – 11:10</b> <b>Invited Talks</b> Chair: <b>Dr. AB Spierings</b> Inspire AG, Switzerland	<b>Additive Manufacturing / 3D printing of plastics – process characteristics and crucial material properties</b>	<b>Dr. Manfred Schmid</b> Inspire AG, Switzerland
	<b>AS-148: Designing an efficient commuter vehicle using finite element analysis and computational fluid dynamics</b>	<b>Syed Saadat Shakeel</b> NUST, Pak
	<b>AS-316: Homogenization of Honeycomb Core for Static and Dynamic FE Analysis; A Review</b>	<b>Naveed Ahmed</b> CESAT, Pak
<b>11:10 – 11:30</b>	<b>TEA</b>	
<b>11:30 – 12:50</b> <b>Invited Talks</b> Chair: <b>Dr. AB Spierings</b> Inspire AG, Switzerland	<b>Structural Optimization – Concepts and Applications</b>	<b>Dr. Baseer Ullah</b> CESAT, Pak
	<b>AS-662: Challenges in Investigation of Interlaminar Shear Failure in 3D Woven Composites</b>	<b>M Rizwan ul Haq</b> CESAT, Pak
<b>12:50 – 14:00</b>	<b>LUNCH</b>	
<b>14:00 – 16:30</b> Chair: <b>Dr. Manfred Schmid</b> Inspire AG, Switzerland	<b>Selective Laser Melting – Opportunities and limitations</b>	<b>Dr. AB Spierings</b> Inspire AG Switzerland
	<b>AS-660: Design Optimization, Manufacturing and Testing of UAV Pneumatic Catapult</b>	<b>Hammad Rehman</b> PAC, Kamra, Pak
	<b>AS-743: Study of effect on static longitudinal stability of an aircraft with change in wing configuration</b>	<b>Mateen Javed</b> NUST, Pak
	<b>AS-456: Design and analysis of 11:1 centrifugal compressor impeller for a small turbofan engine</b>	<b>Mohsin Rehman</b> IST, Pak
	<b>AS-85: Effect of Directional Stiffness on Control Reversal Speed</b>	<b>Musawar Hussain</b> NUST, Pak
	<b>AS-40: Design of thrust measurement system on test beds of a gas turbine engine using strain gauges</b>	<b>Syed Asad Abbas</b> CAE, NUST, Pak