



22nd International Bhurban Conference on Applied Sciences & Technology

Technical Program (Conducted)

ADVANCED MATERIALS

Venue: Neelum Hall
RAMADA Hotel Murree Hills
Updated: 22 August 2025

0915-1100		1120-1300			1400-1530			1600-1830														
Day-1 August 19, 2025 Tuesday							Registration+ Room Allocation			Prof. Dr. Muzzamal Hussain, <i>NTU Faisalabad</i>		AM-62	AM-52	AM-520	AM-399	AM-524						
Day-2 August 20, 2025 Wednesday	Prof. Dr. Mohd Shukur Bin Zainol Abidin <i>Universiti Sains Malaysia</i>	AM-65 NS	AM-517	AM-156	T E A B R E A K	Prof Dr Umair Manzoor, <i>NUST Islamabad</i>	AM-88	AM-46	AM-110	L u n c h B r e a k	Professor,Dr. Weijin Li, <i>Nanjing University of Science & Technology, China</i>	AM-495	AM-309	T E A B R E A K	AM-360	AM-192 NS	AM-125	AM-222 NS	AM-361	AM-183	AM-431 NS	AM-532
Day-3 August 21, 2025 Thursday	Dr. Chong Wei <i>NPU China</i>	AM-533	AM-444	AM-371 NS	T E A B R E A K	Prof. Dr. Qaiser Abbas Naqvi <i>QAU Islamabad</i>	AM-539	AM-348	AM-161	L u n c h B r e a k	Special Session by Prof. Dr. Hassan Mandal, <i>Turkiye</i>			Special Session by Prof. Dr. Hassan Mandal, <i>Turkiye</i>								
Day-4 August 22, 2025 Friday	Closing Ceremony									NS= No Show (AM-65, AM-192, AM-222, AM-431, AM-371)												



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Day 1: August 19, 2025

14:00–16:00		L U N C H+ REGISTRATION	
16:00–18:30 Session Chair: Professor, Dr. Weijin Li, Nanjing University of Science & Technology, China	Time 1600:1650	Fiber Metal Laminates: Hybrid Innovations for Advanced Structural Applications	Prof. Dr. Muzzamal Hussain , NTU Faisalabad
	1650-1710	25AM62: Improving Strength of Multilayered Carbon Fabric Composite Using Nano - reinforcement	Syed Sarim Ali , CESAT Islamabad
	1710:1730	25AM52: Superior Corrosion Resistance and Mechanical Performance of NiP-Ti Nanocomposite Coatings Synthesized via Pulse Deposition Technique	Dr Khuram Shahzad , NUST Islamabad
	1730: 1750	25AM520: Synthesis, Characterization and Composite Properties of Processable Boron-based High Performance Polymer	Dr. Ghulam Waris , CESAT Islamabad
	1750: 1810	25AM399: Iron Loss Behavior Under Variable Speed in SPM and Spoke-Type Axial Flux Motors Using Soft Magnetic Composites Materials	Tahsinullah , COMSATS University Islamabad, Abbottabad Campus
	1810:1830	25AM524: A Single Run Multi Frequency Methodology to Study the Aging Behavior of HTPB Based Solid Propellant through DMA	Bilal Farooqi , CESAT Islamabad



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Day 2: August 20, 2025

0915 – 1100 Invited Talks Session Chair: Prof. Dr. Chong Wei NPU China	0915-1000	Hybrid CNTs Carbon Fiber Composite For Aircraft Applications	Prof. Dr. Mohd Shukur Bin Zainol Abidin Universiti Sains Malaysia
	1000:1020	25AM65: Fatigue failure mechanism of laser powdered bed fusion Inconel 718 super alloy in high and very high-cycle regimes	Asif Mahmood , BIT China
	1020:1040	25AM517: A New Process For Pyrolytic Graphite Coating On HDIG Graphite	Dr. Muhammad Shoab , CESAT Islamabad
	1040:1100	25AM156: Fatigue Life Assessment and Fracture Mechanism of Carburized Steel under High and Very High Cycle Fatigue regimes.	Muhammad Imran Lashari , BIT China
1100-1120	Tea Break		
1100 – 1300 Session Chair: Prof. Dr. Chong Wei NPU China	1120-1210	Device Making Technique and Advance Applications (Piezoelectric, Piezo-phototronic, and UV sensing) of Single Ultra Long ZnO Nanobelt	Prof Dr. Umair Manzoor , NUST Islamabad
	1210-1230	25AM88: Synthesis of Lead-Free BaSrTiO ₃ (BST) Ceramic Capacitors for Energy Storage Applications	Muhammad Ali , PIEAS, Islamabad
	1230-1250	25AM46: Investigation regarding Elastocaloric Properties of Ni-Ti Shape Memory Alloys (SMAs) at Different Temperatures	Danial Nawaid Siddiqui , HaroBanx Industries Pvt Ltd., Khanpur.
	1250:1310	25AM110: Enhancement of Thermal Insulation Properties of Intumescent Coating Reinforced by Hexamine and Melamine	Sadaf Ali , CESAT Islamabad
1300 – 1400	LUNCH		



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Day 2: August 20, 2025

14:00–15:30 Session Chair: Prof. Dr. Qaiser Abbas Naqvi QAU Islamabad	Time 1400:1450	Conductive metal-organic frameworks for electromagnetic wave absorption	Professor, Dr. Weijin Li, <i>Nanjing University of Science & Technology, China</i>
	1450-1510	25AM495: Tunable Absorption and Reflection in Water-VO ₂ Composite Metamaterials for Adaptive Optical Applications	Abdul Wahab bin Tariq, MUST, Mirpur
	1510:1530	25AM309: Improvement in Mechanical and Ablation properties of C/C-SiC CMC by Post Sintering	Anwar Ihehi Malik , CESAT Islamabad
15:30–15:45	Tea Break		
15:45–18:15 Session Chair: Prof. Dr. Qaiser Abbas Naqvi QAU Islamabad	1545-1605	25AM360: Taguchi-Based Parametric Optimization For Defect-Free Builds Of Aa6061-T6 Using Friction Stir Additive Manufacturing	Arsalan Javaid, NUST Islamabad
	1605-1625	25AM192: Design and Assessment of Microcapsule Self-Repairing Polymers Coatings for Ship Hulls in Sea Locations	Maryam Batool, NUST Karachi
	1625-1645	25AM125: Impact of Stretching Schemes and Residence Times on the Material Properties of PAN Precursor Fibers	Dr. Sattar Ullah, CESAT Islamabad
	1645-1705	25AM222: Design and Performance Enhancement of Eco-Friendly Tandem Perovskite Solar Cells	Sheraz Nisar, UET Peshawar
	1705:1725	25AM361: Evaluating Print Time And Volumetric Behavior Of Cf-Pa6 Composites In Fused Filament Fabrication	Amir Abdullah, NUST Islamabad
	1725: 1745	25AM183: Impact of Temperature on Catalytic Conversion of Ethanol into 1, 3 Butadiene and C4 Impurities	Dr. Rafia Iftikhar, CESAT Islamabad
	1745:1800	25AM431: Engineering MOF-808/Ti ₃ C ₂ T _x Interfaces for Sustainable Oxygen Evolution Electrocatalysis in Alkaline Media	Aziz ur rehman, The islamia university of Bahawalpur
	1800: 1815	25AM532: A comparative study on effect of Oxamide and Ammonium oxalate on rheological and mechanical properties of AP based composite slurry	Muhammad Ayub, CESAT Islamabad



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Day 3: August 21, 2025

0915 – 1100 Session Chair: Prof Dr Umair Manzoor, NUST Islamabad	Time 09:15-1000	High Performance Oriented Structural Design & In Situ Damage Observation Analysis of SiC based composite cladding	Dr. Chong Wei NPU China
	1000-1020	25AM533: In-depth Infiltration of polysilazane preceramic polymer as last step of densification of carbon/carbon composites for improved oxidative thermal stability	Dr. Shameel Farhan, CESAT Islamabad
	1020-1040	25AM444: Effect of H ₂ O ₂ concentration and anodization time on the Raman spectra of Titanium dioxide Nanotubes	Muniba Yaseen Naz, PIEAS Islamabad
	1040 -1100	25AM371: Dielectric Performance and Dynamic Mechanical Behavior of Wave Transparent Composites upon Aging	Malik Adeel Umer, NUST Islamabad
1100 – 1120	Tea Break		
1120 – 1310 Session Chair: Prof Dr Umair Manzoor, NUST Islamabad	1120-1210	Impact of anisotropy, inhomogeneity, and non-integer dimension on the behavior of fields of rotating electromagnetic systems and circuits.	Prof. Dr. Qaiser Abbas Naqvi QAU Islamabad
	1210-1230	25AM539: MXene/Polymer Nanocomposites for Efficient Electromagnetic Interference Shielding	Dr. Shahzad Hussain , COMSATS University Islamabad
	1230-1250	25AM348: AC Breakdown and Mechanical Behavior of XLPE Under Aging and Long-Term Field Exposure: A Study of Crosslinking degree	Dr. Muhammad Yaqoob, Fast Cable Private Limited, Lahore
	1250:1310	25AM161: Computational Investigation of TS, Thermodynamic and Mechanical Properties of Energetic Molecular System	Fauzia Malik , NUST Islamabad
12:50 – 14:00	LUNCH		
1400 --- 1730 Prof Dr Umair Manzoor, NUST Islamabad	1400-1730	Special Session	Prof. Dr. Hassan Mandal, <i>Turkiye</i>