

# 15<sup>th</sup> IBCAST 2018: Advanced Materials

## Technical Program

### Overview

		09:30– 13:00											14:00– 16:30												
Day-1 January 09, 2018 Tuesday	<b>REGISTRATION</b>											<b>Lunch</b>	<b>Invited Talks</b>		<b>Advanced Materials 1</b>				<b>Prof. Mehmet Karahan,</b> Uludag University, Turkey		18AM 354	18AM 59	18AM 114	18AM 312	18AM 508
	Day-2 January 10, 2018 Wednesday	<b>Invited Talks</b>																							
<b>Dr. Wang Lifung,</b> NUAA, China		<b>Dr. Dai Zhendong,</b> NUAA	18AM 58	18AM 676	18AM 613	18AM 104	18AM 303	18AM 501	18AM 98	18AM 315	18AM 616		18AM 489	18AM 126	18AM 556										
Day-3 January 11, 2018 Thursday	<b>Invited Talks</b>																								
	<b>Prof. Dr. Hu Zhiyu,</b> SJTU, China	<b>Prof. Lu Jipang,</b> BIT China	18AM 617	18AM 223	18AM 677	18AM 514	18AM 549	18AM 675	18AM 156	18AM 655	18AM 664		18AM 159	18AM 609	18AM 681	18AM									

		Poster Presentations					
Day-2 January 10, 2018 Wednesday		18AM665	18AM285	18AM383	18AM467	18AM654	18AM

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### Day 1: January 09, 2018

09:30-13:00		REGISTRATION	
13:00–14:00		LUNCH	
14:00–14:50 <b>Session Chair:</b> DR. ZAFFAR M KHAN IST ISLAMABAD	Time	“ Low velocity impact on composite materials”	<b>Prof. Mehmat Karahan,</b> Uludag University, Turkey
14:50 – 16:10 <b>Advanced Materials-I</b>  <b>Session Chair:</b> DR. ZAFFAR M KHAN IST ISLAMABAD	1450-1510	<b>18AM354</b> Prediction of Elastic Behavior of Woven Fabric Reinforced Plastics Composites using Two-Step Homogenization	<b>K. Hayat,</b> UOL, Lahore
	1510-1530	<b>18AM59</b> An alternate fabrication technique for PEM Fuel cell bipolar plates using graphite polymer composite material	<b>Noor Ul Hassan,</b> CESAT
	1530-1550	<b>18AM114:</b> Analysis of Load Distribution in Multi-bolt Composite Joints with Liquid Shim	<b>Guo-qiang Gao,</b> NUAA ,China
	1550-1610	<b>18AM312:</b> Investigation Of Temperature Response Of Photopolymer Material Used For Holographic Sensor	<b>M. Irfan,</b> Dublin Institute of Technology, Kevin Street, Dublin 8, Ireland
	1610-1630	<b>18AM508</b> Preparation, characterization and properties of ball mill functionalized nanodiamond composites.	<b>Muhammad Khan,</b> Northwestern Polytechnical University, Xian 710072, China

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**Day 2: January 11, 2018**

09:30 – 10:20 Invited Talks Session Chair:	Time	“Light weight structure & Materials”	<b>Dr. Dai Zhendong</b> , NUAA
	1020-1040	<b>18AM58:</b> Development of high performance Hybrid matrix/Glass fabric composites for self-healing properties	<b>M. Latif</b> , Changwon National university Changwon, Gyeongsangnam-do South Korea
	1040-110	<b>18AM676</b> Effect of Hybridisation on Ballistic Properties of Aramid Fabrics	<b>Abul Jabbar</b> , University of uludag Turkey
11:00 – 11:20	T E A		
11:20 – 13:00 Advanced Materials-II  Session Chair:	11:20-1140	<b>18AM613</b> : Fabrication of Microfluidic Device for Production of Silver Nanoparticles	<b>Uzair Masood</b> , PIAES, Islamabad
	1140-1200	<b>18AM104:</b> Effect Of Tool Drop On Composite Aerospace Structures	<b>Junaid Najmi</b> , CAE, Nust Risalpur
	1200-1220	<b>18AM303:</b> Water Immersion/Liquid Permeation Resistance Analysis of Micro/Nano-SiO <sub>2</sub> filled Silicone Rubber and Epoxy Composites for High Voltage Insulation Applications	<b>Hidayatullah Khan</b> , CESAT Islamabad
	1220-1240	<b>18AM501</b> Enhanced current density through addition of CdTe in TiO <sub>2</sub> based photoanode for dye sensitized solar cell	<b>Muhammad Shakeel Ahmad</b> , University of Malaya, 59990 Kuala Lumpur, Malaysia

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	1240-1300	<b>18AM98:</b> Simulation Studies of a phosphor-free Monolithic Multi-Wavelength Light-Emitting diode	<b>Sidra Jabeen</b> , NUST Islamabad
13:00 – 14:00	LUNCH		

### Day 2: January 10, 2018

14:00 – 14:50 <b>Session Chair:</b>	1400-1450	“Nano Mechanics & Nano Tube”	<b>Dr. Wang Lifung</b> , NUAA, China
14:45 – 16:30 <b>Advanced Materials-III</b> <b>Session Chair:</b> Dr. Rizwan Hussain CESAT Islamabad	1450-1510	<b>18AM315:</b> A Comprehensive Study of 18 -19 field Aged modules for Degradation Rate Determination along with defect Detection and Analysis Using IR, EL, UV	<b>Saddam Ali</b> , UET Peshawar
	1510-1530	<b>18AM616</b> A Comparative Study on the Measurement of Verdet Constant of Magneto-Optic Glass by Different Techniques	<b>Muhammad Basharat</b> , BIT China
	1530-1550	<b>18AM489:</b> Exploring Silicon Oxycarbide Films for Photonic Waveguides	<b>Faisal Ahmed Memon</b> , Mehran University of Engineering & Technology Jamshoro 76062 Pakistan
	1550-1610	<b>18AM126</b> Plasma flow optimization for 7YSZ quasi-columnar coating by plasma spray-physical vapor deposition	<b>Aleem Anwaar</b> , Beihang University, China
	1610-1630	<b>18AM556:</b> The Effect of Pulse Frequency on Geometry, Microstructure, Pores and Tensile Properties of Arc Additive Manufacturing Al-5Si alloy	<b>Donghai Wang</b> , BIT China

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**Day 3: January 11, 2018**

09:30 – 10:20 Invited Talks Session Chair:	Time	“The effect of pulse frequency on geometry, microstructure, pores, and tensile properties of Arc additive manufacturing Al-5Si alloy”	<b>Prof. Lu Jipang</b> , BIT China
10:20 – 11:00 Advanced Materials-IV Chair:	1020-1040	<b>18AM617:</b> Abradable Coatings In Gas Turbine Engines	<b>Dr. Farooq Zafar</b> , CESAT, Islamabad
	1040-110	<b>18AM223:</b> Effect of Micro and Nano Sized additives on Densification and Cytotoxicity of Metal Injection Molded 316L Stainless steel	<b>Muhammad Aslam</b> , CESAT Islamabad
11:00 – 11:20	<b>T E A</b>		
11:20 – 13:00 Advanced Materials-IV Session Chair:	1120-1140	<b>18AM677:</b> Tuning the ablation and thermos-mechanical aspects of the fine Quercus suber impregnated NBR composites	<b>Dr. Sadia Sagar Iqbal</b> , Punjab University, Lahore
	1140-1200	<b>18AM514:</b> Effect of laser remelting on surface composite layer of nickel aluminide coated medium carbon steel	<b>Naveed Akhtar</b> , NINFAST
	1200-1220	<b>18AM549:</b> Effect of Grain Sizes and Structure on Corrosion Behavior of Low Carbon Steel (AISI 1010) in Lime Salt Aqueous Media	<b>Shakeel Ahmad</b> , UET Peshawar
	1220-1240	<b>18AM675:</b> Investigation Of Quasi-Static Behavior Of 3-Dimensional Integrated Core Sandwich Composites Under 3-Point Bending	<b>Mehmat Karahan</b> , University of uludag , Turkey
	1240-1300	<b>18AM156:</b> Classical molecular dynamic study for defect sink behavior in oxide dispersed strengthened alloys	<b>Qazi M Nouman Amjad</b> , University of Wah, Islamabad
13:00 – 14:00	<b>LUNCH</b>		

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### Day 3: January 11, 2018

14:00 – 14:50 Invited Talks Session Chair:	1400- 1450	<b>“Nano constructed 2D functional materials and application”</b>	<b>Prof. Dr. Hu Zhiyu,</b> SJTU China
14:50 – 16:30 Advanced Materials-V  Session Chair: DR. ZUBAIR BZU MULTAN	1450-1505	<b>18AM655:</b> Precise review on fiber reinforced composites: problems for processing and possible solutions.	<b>Ahmer Hussain Shah,</b> Harbin Engineering University Harbin, China
	1505-1520	<b>18AM664:</b> Development of Intumescent Coating for Military Use.	<b>Nayyar Jabeen ,</b> CESAT , Islamabad
	1520-1535	<b>18AM159:</b> Synthesis of amine modified MOF materials for CO2 adsorption applications.	<b>Aisha Asghar,</b> US-Pakistan Center for Advances Studies in Energy, NUST, Pakistan
	1535-1550	<b>18AM609:</b> Thermally assisted coating of PVA for hydrophilic Surface modification of PMMA microchannel for oil in water emulsion.	<b>Iqra Shehzadi,</b> PIEAS , Islamabad
	1550-1605	<b>18AM681:</b> Microstructure and phase transformations of Fe-Ni-Cr mixed powder by laser cladding on Q235 mild steel	<b>Tengfei Han,</b> NUAA , China
	1605-1630	<b>18AM:</b> Development of ZrB <sub>2</sub> ultra high temperature ceramic (UHTC)	<b>M Rashid Mirza</b> CESAT, Islamabad

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### P-Session

**Day 2: January 10, 2018**

<b>11:00 - 16:00</b> <b>P-Session</b>	<b>18AM285:</b> Performance Estimation Of Polycrystalline Photovoltaic Module During Summer	<b>Muhammad Yasar Javaid</b> NFC Institute of Engineering and Fertilizer research Faisalabad
	<b>18AM383:</b> Temperature Effect on the Efficiency of Different Solar Panel	<b>Muhammad Abubakr</b> , NFC IEFR
	<b>18AM467:</b> Buckling analysis of woven Glass/Epoxy Composite Laminated Panels with a circular hole	<b>Munib Zia</b> , Suparco, Islamabad
	<b>18AM654:</b> Development of Optimized Flame Retardant Carbon Epoxy Composites using Phosphate based Flame Retardant	<b>Mohsin Ali Fakhar</b> , CESAT , Islamabad
	<b>18AM665:</b> Multiple step synthesis & Characterization of N’N-Diphenyl-p-Phenylenediamine DPPD purified by Vacuum Distillation	<b>Dr. Rafia Iftikhar</b> , CESAT, Islamabad
	<b>18AM:</b> Study the effect of B-site dopant on dielectric properties of lead free piezo ceramics with high cure temperature	<b>Naeem Hussain</b> CESAT, Islamabad