

# Program

## 4<sup>th</sup> International Conference on Materials Science and Nanotechnology 2020 (MSNANO-20)

<b>Day 2 04 March, 2020</b>			
	<b>Parallel Session I Hall I</b>	<b>Parallel Session II Quaid-e-Azam Auditorium, Hall II</b>	<b>Parallel Session III STC Hall III</b>
	<b>Session Chair: Dr. Sadia Munza Faraz (NED, Karachi)</b>	<b>Session Chair: Dr. GN Wattoo (UoG, Gujrat)</b>	<b>Session Chair: Dr. M. Azhar Khan (IUB, Bahawalpur)</b>
10:00-10:30	<b>M. Hassan Sayyad (GIK, Topi)</b> <i>New directions and applications of photonic technologies in communication, health, agricultural, industries, military, energy and research</i>	<b>Syed Salman Hussain (Islamabad)</b> <i>Micro Plasma: A Cost/Time Effective Methodology for the Synthesis of Metal Oxide Nanostructures</i>	<b>Mazhar Danish (China)</b> <i>Ultrahigh thermoelectric performance of 2-Dmultilayered bulkWSe2 byNb doping</i>
10:30-10:50	<b>Zahid Usman (UE, D.G Khan)</b> <i>“Prospects of Density Functional Theory in Materials Science</i>	<b>Kausar Shaheen (China)</b> <i>Mixed Metal Oxides for Humidity Sensing and Photocatalytic Applications</i>	<b>U.A Qurashi (UoS, Hyderabad)</b> <i>Lignocellulose biomass : a renewable and sustainable source for generating activated carbons and composites for the removal of emerging contaminants</i>
10:50-11:10	<b>M. Umair Farooq (China)</b> <i>Spin-related Photoluminescence and Magnetic anisotropy in Mn(II) doped ZnO nanowire</i>	<b>Munazzah Yaqoob(UAF, Faisalabad)</b> <i>Theoretical calculation of Selenium N-heterocyclic carbene compounds through DFT studies: Synthesis, characterization and biological potential</i>	<b>M. Adnan Iqbal (UAF, Faisalabad)</b> <i>Synthesis, Structure, and Anticancer Activity of Symmetrical and Non-symmetrical Silver(I)-N-Heterocyclic Carbene Complexes</i>
11:10-11:30	<b>Tea</b>		
	<b>Session Chair: Dr. Amir Shehzad (GCUF, Faisalabad)</b>	<b>Session Chair: Dr. Abdul Rasheed (GCUF, Faisalabad)</b>	<b>Session Chair: Dr. Ijaz Ahmed Khan (GCUF, Faisalabad)</b>
11:30-12:00	<b>Anwar ul Haq (HED, Lahore)</b> <i>“TBA</i>	<b>Khalil Ahmed (IUB, Bahawalpur)</b> <i>Dipicolinic Acid Based Metal Organic Framework (DPA-MOF) as Excellent Adsorbent for Organic Pollutants</i>	<b>Abdul Salam (NTU, Karachi)</b> <i>Development and Characterization of Self-Cleaning PVA/TiO2 and PVA/ZnO Electrospun Nanofibers “</i>
12:00-12:20	<b>Waqar Mahmood (FJWU, Rawalpindi)</b> <i>”Role of AgI + substitutional defects on the electronic and optical properties of n-type CdS thin films semiconductor for sustainable and stable window layer in solar cells technology</i>	<b>Arshad Rahi (UET, Taxila)</b> <i>A nanomagnet friendship with high field magnet</i>	<b>Haydayt Ullah (UoP, Peshawar)</b> <i>“Crystallographic Point Groups, Space Groups and their inter-relationship</i>

12:20-12:40	<b>Dr. Fozia Irum (LCWU, Lahore)</b> <i>“Hemicelluloses as reducing and dispersing agents for fabrication of noble metals nanoparticles</i>	<b>Yousf Iqbal (University of Poonch, Rawalakot)</b> <i>Application of magnetic nanoparticles in magnetic hyperthermia of cancer treatment</i>	<b>Bilal Javaid (Arid Agi, Rawalpindi)</b> <i>Biological Applications of Silver Nanoparticles and Modular Synthesis of Photo-active Janus Dendrimers and Glycodendrimers as a Platform for Drug Delivery and Mimics of the Plasma Cell Membrane</i>
12:40-14:00	<b>Lunch</b>		
	<b>Special Session on Modeling and Simulation in Materials Science</b> <b>Coordinator: Dr. M. Imran</b> <b>Session Chair: Prof. Dr. Iftikhar Ahmed (University of Malakand)</b>	<b>Session Chair:</b> <b>Dr. Hadia Noor (PU, Lahore)</b>	<b>Session Chair:</b> <b>Dr. Zahid Usman (UE, D.G Khan)</b>
14:00-14:30	<b>Rana M. Arif Khalil (BZU, Multan)</b> <i>“Ab-initio study of the structural, vibrational and optoelectronic properties of LiBH<sub>4</sub> for hydrogen storage purpose</i>	<b>Khawaja Imtiaz (BZU, Multan)</b> <i>“Spinel Ferrite – Hexa Ferrite Nano-composite: Synthesis and Characterization for High Frequency Devices Fabrication</i>	<b>Fareeda Tahir (COMSATS, Islamabad)</b> <i>Introduction of particle physics</i>
14:30-14:55	<b>Afaq Ahmad (PU, Lahore)</b> <i>Density Functional Theory and its application to SmXO<sub>3</sub> (X=Al, Co) Perovskites for IR-devices</i>	<b>Ammara Naseem (UAF, Faisalabad)</b> <i>Raman spectroscopy for the qualitative and quantitative analysis of solid dosage forms of sitagliptin”</i>	<b>Mirza Nadeem Ahmed (GCUF, Faisalabad)</b> <i>Synthesis and characterization of poly(o-ansidine)/MWCNTs Hybrid nanocomposites for enhanced electrical conductivity</i>
14:55-15:20	<b>Sardar Sikandar Hayyat (IIU, Islamabad)</b> <i>Pre-melting in the Presence of Small Heterogeneous Adatoms Cluster on Ag(111) Surface</i>	<b>Saira Nasir (UAF, Faisalabad)</b> <i>Surface enhanced Raman spectroscopy of RNA samples for quantification of Hepatitis C viral loads</i>	<b>M. Jawwad Saif (GCUF, Faisalabad)</b> <i>Computational investigations on CdTe quantum dots</i>
15:20-15:40	<b>Mehvish Abbasi (UAF, Faisalabad)</b> <i>DFT Based Theoretical Investigation on NLO (Non-linear optics) Properties and Antioxidant Potential of Designed Diazene Molecules</i>	<b>Tabassum Hussain (GCUF, Faisalabad)</b> <i>Microwave Assisted Hydrothermal Synthesis of Aluminosilicate Materials via Recycling of Rice Husk Ash</i>	<b>Waqar Tahir (NFC, Multan)</b> <i>Fault analysis of DFIG based wind turbine model</i>
15:40-16:00	<b>Dr. M. Imran (GCUF, Faisalabad)</b> <i>Effect of vacancy defects on the mechanical and thermal behaviour of carbon nanotubes: A molecular dynamics study</i>	<b>Umer Sheikh (NTU, Faisalabad)</b> <i>Zagreb indices of carbon nanostructures</i>	<b>Niaz Ahmed Niaz (BZU, Multan)</b> <i>Improved electrical performance of Cubic Silicon Carbide via Schottky contact with Graphene</i>
17:00-20:00	<b>Cultural Night</b>		

# Program

## 1<sup>st</sup> International Hands on Training/workshop (MSNANO-20)

Venue Physics Department, Old Campus

4<sup>th</sup> March, 2020

Inaugural Session				
09:15	Guests to be seated			
09:15-09:30	Recitation from the Holy Quran & Naat-e- Rasool (P.B.U.H)			
09:30-10:00	Lecture-I Dr. Na Lu Thermoelectric Materials characterization			
10:00-10:30	Lecture-II Dr. Bo Cui Fabrication Techniques of Hybrid Plasmonic Plateforms			
10:30-11:00	Lecture-III Dr. J B Scanning Electron Microscopy (SEM)			
11:00-11:30	Lecture-IV Dr. Javed Ahsan Bhatti Vacuum Science & Technology			
11:30-11:40	Certificate Distribution & Group Photo			
<b>11:40-12:00</b>	<b>Refreshment Break</b>			
Hands on Training				
	Session-I Thermoelectric Materials characterization hands on Training	Session-II Fabrication of Hybrid Plasmonic Platform	Session-III Scanning Electron Microscopy (SEM)	Session-IV Vacuum Science & Technology
12:00-13:00	<b>Group-I</b>	<b>Group-II</b>	<b>Group-III</b>	<b>Group-IV</b>
13:00-14:00	<b>Group-II</b>	<b>Group-III</b>	<b>Group-IV</b>	<b>Group-I</b>
<i>14:00- 15:00</i>	<i>Lunch Break</i>			
15:00-16:00	<b>Group-III</b>	<b>Group-IV</b>	<b>Group-I</b>	<b>Group-II</b>
16:00-17:00	<b>Group-IV</b>	<b>Group-I</b>	<b>Group-II</b>	<b>Group-III</b>
17:00-17:20	<i>Closing &amp; Tea</i>			

