

Inaugural Session (10:00am - 10:30am)

Opening Remarks by **Dr. Hassan A. Shah** (Dean of Sciences), **Dr. Trimble** (Vice Rector FCC) and Welcome address by **Dr. J. Addleton** (Rector FCC).

Tea Break (10:30pm - 11:00pm)

Session 1		
Chair – Prof. Dr. Sadia Zaheer (Chairperson/Professor, Department of Physics, FCC)		
11:00am - 11:30am	Prof. Dr. M. Shahid Rafique (Dean of Science/Professor of Physic, UET Lahore, Pakistan) "Techniques and tools for conducting cutting edge research"	
11:30am - 12:00pm	Prof. Dr. Shazia Bashir (Chairperson Department of Physics, GCU, Lahore, Pakistan) Femtosecond laser induced nanostructuring of materials	
12:00pm - 12:30pm Online	Dr. Kemal Celebi (Assistant Prof. Department of Physics, Zhejiang University, China) "Ultrathin membranes for chemical separations"	
12:30pm - 1:00pm Online	Prof. Dr. Lukas Schmidt-Mende (Prof, Dept. of Physics, University of Konstanz, Germany) "Perovskite solar cells - Reducing the defect density"	

Lunch Break and Poster session(1:00pm - 2:00pm)

Session 2 Chair - Dr. Hamid Latif (Professor, Department of Physics, FCC)		
2:00pm - 2:30pm	Dr. Javed Iqbal (Chairperson, Department of Physics, AJK University, Muzafrabad, Pakistan) Laser Induced Plasma Spectroscopy (LIPS) as an Emerging techniques for Mineral Exploration and Materials characterization.	
2:30 pm - 3:00 pm Online	Dr. Marianna Kemell (Senior University Lecturer Dept of Chemistry, Univ. of Helsinki, Finland) "Towards perovskite solar cells by atomic layer deposition"	
3:00pm - 3:30pm Online	Prof. Dr. Thomas Markus Ihn (Professor, Department of Physics, ETH Zurich, Switzerland) "Bilayer graphene quantum dots"	
3:30pm - 4:00pm Online	Prof. Dr. Sanjay Mathur (Prof./Chair, Inorganic & Materials Chem. Uni. of Cologne, Germany)	
4:00pm - 4:20pm	Dr. Faryal Idress (Asso. Prof. Polymer Eng. Dept. University of Punjab, Lahore, Pakistan) "Laser flash photolysis study of Nb ₂ O ₅ /g-C ₃ N ₄ Hetero-structures as an Efficient Photo-catalyst"	
Dinner and Musical Night (7:00pm - 10:00 pm)		



Session 1 Chair - Dr. Hamid Latif (Professor, Department of Physics, FCC)		
10:30am - 11:00am	Prof. Dr. Sabeih Anwer (Chairperson, Department of Physics, LUMS, Lahore, Pakistan) "Single photon quantum experiments for enlightening how we teach physics"	
11:00am - 11:30am	Prof. Dr. Rizwan Raza (Head Department of Physics, COMSATS University, Lahore, Pakistan) "The Sustainability: The clean energy devices and recycling of waste"	
11:30am - 12:00pm	Dr. M. Bilal Tahir (Director Institute of Physics, Khwaja Fareed UEIT, Rahim Yar Khan, Pakistan) "Advancements in Material Sciences: A Nano-technological Perspective"	
12:00pm - 12:30pm	Dr. Rustam Ashurov (Senior Scientist, Institute of Ion-Plasma & Laser technology, Uzbekistan) Advancements in Electrochemical Stability and Storage Performance of Silicon Anode Materials for Lithium-ion Batteries	
12:30pm - 1:00pm Online	Prof. Dr. Surjit Mukharjee (Professor, FEEC, Brno Univ. of Tech, Brno, Czech Republic) "Beyond the Atom: Advancements in Activation Analysis for Reactor'	

Lunch Break (1:00pm-2:00pm)

Section 2

Session 2		
Chair - Dr. Ammara Shabbir (Associate Prof./ Graduate Coordinator, Department of Physics, FCC)		
2:00pm - 2:20pm	Dr. Naveed Afzal (Director Centre for Advanced Studies in Physics, GCU, Pakistan) "High performance Metal-Semiconductor-Metal Photo-detectors based Metal Oxide"	
2:20pm – 2:40pm	Dr. M. Arshad (Senior Scientist, National Centre for Physics, Islamabad, Pakistan) "MXene-based Anode Materials: synthesis, characterization and investigation of properties	
2:40pm - 3:00pm	Dr. Sofia Siddique (Assistant. Professor, Depart. of Phys., UET, Lahore, Pakistan) "Developing an appropriate blend of PVDF-Co-HF using solution blending to increase the thermal stability of energy harvesting devices"	
3:00pm - 3:20pm	Prof. Dr. Safia Anjum (Professor Dept of Phy/Principle Lahore College, University) "Investigation of Cerium Ni-Zn Ferrites on cationic distribution in superparamagnetic behavior and its electrochemical performance for Pseudocapacitors"	
3:20pm - 3:40pm	Dr. Syed Sajid Ali Gillani (Assistant Prof. of Physics, GCU, Lahore Pakistan) "Isotropic pressure induced structural, electronic, photocatalytic, elastic and mechanical properties of RbPbF ₃ : GGA-PBE and HSEO ₃ based computational estimation"	
3:40pm - 4:00pm	Dr. M. Rafique (Asst. Prof. Department of Physics, University of Sahiwal, Sahiwal, Pakistan) "Nonlinear Transverse Electric Surface Waves in a Meta-material/Plasma Sandwich Structure"	
4:00pm- 4:20 pm	Dr. Saqib Jabbar (Asst. Prof. Department of Physics, GCU, Lahore, Pakistan) Enhanced Antimicrobial and Optical Activities of MnO Nanoparticles Doped with Various Metal-Atoms	
4:20pm- 4:40 pm	Ms. Sana Tariq (PhD Scholar, Forman Christian College, Lahore, Pakistan) Tissue Engineered Periosteum: Fabrication of a Trilayer Composite Scaffold with Biomimetic Properties for Enhanced Bone Healing	
Concluding Session (4:40 pm-5:00 pm)		

Tea (5:00pm-5:30pm)