



**1ST NATIONAL CONFERENCE ON EMERGING
HORIZONS IN SCIENCE AND TECHNOLOGY
26-27 DECEMBER, 2022
(NCEHST-2022)**




Schedule for Day 1 – December 26, 2022

Time	Plenary Session, Venue: Main Auditorium
09:30 – 10:00	Arrival & Registration of Participants
10:00	Inaugural Session
10:00 – 10:05	Recitation of Quran-e-Hakeem
10:05 – 10:10	National Anthem
10:10 – 10:20	Welcome Note by Dr. Hafiza Rizwana Kausar, Dean FOST, UCP
10:20 – 10:35	Keynote Speech by Dr. Nassar Ikram, Pro Rector UCP
10:35 – 10:45	Address by Chief Guest Prof. Dr. Shahid Munir, Chairman PHEC
10:45 – 10:50	Remarks by Guest of Honor Dr. Khalid Saeed, Chief Qarshi Research International
10:50 – 11:00	Souvenir Presentation to Guests & Keynote Speakers
11:00 – 11:30	Tea Break
	Session Chair: Dr. Shahid S. Siddiqi
11:30 – 12:00	Prof. Dr. Imran Pasha Director General, NIFSAT, University of Agriculture, Faisalabad. <i>Topic: Food Systems to Ensure Food & Nutrition Security for the World Population; Recent Trends.</i>
12:00 – 12:30	Dr. Muhammad Ansar Former Chairperson, Department of Biochemistry, Quaid e Azam University, Islamabad <i>Topic: Identification of Genes in Pakistani Families with Next Generation Sequencing (NGS).</i>
12:30 – 13:00	Prof. Dr. Muhammad Sharif Former Dean, Faculty of Sciences, University of the Punjab, Lahore <i>Topic: Reality of Black Holes.</i>
13:00 – 14:00	Lunch
14:00 – 17:00	Poster Display, Venue: Auditorium Corridor
	Session Chair: Dr. Syed Karrar Haider
14:00 – 14:30	Prof. Dr. Irshad Hussain Chair, SBASSE, LUMS & Chair of NNEP at PCST, Lahore <i>Topic: Functional Nanomaterials – Tuning the Size and Surface Chemistry for Applications in Renewable Energy Technologies, Biomedical and Environmental Sciences.</i>
14:30 – 15:00	Prof. Dr. Waqas Masood Professor, Plasma Physics, COMSATS, Islamabad. <i>Topic: Solar System Through the Eyes of a Plasma Physicist.</i>




15:00 – 15:30	Dr. Faisal Nouroz Chairperson Department of Bioinformatics, Hazara University, Mansehra <i>Topic: Exploring the Diverse World of Mobile Genetic Elements</i>
15:30 – 16:00	Dr. Nousheen Zehra Zaidi Director of Cancer Research Center, Associate Professor University of the Punjab, Lahore <i>Topic: Examining the Misconceptions and Beliefs about Cancer among Pakistanis: From Artificial Sweeteners to Cell Phone Use</i>
16:00 – 16:30	Dr. Rizwan Raza Associate Professor, Department of Physics, COMSATS, Islamabad <i>Topic: The Climate Change: The Role of Fuel Cells and Chemical Looping</i>
16:30 – 17:00	Engr. Siddiq-Ur-Rehman Rana CEO Technology Exchange & Coordination (Pvt.) Ltd. Lahore <i>Topic: Academia – Industry Linkages: Self-sustainable 4-Pronged Strategy to Turn Around the Economy</i>
18:00 – 20:00	Dinner (by Invitation)



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Schedule for Day 2 – December 27, 2022

Themes: Biotechnology, Microbiology, Zoology/Botany.

Parallel Session A, Venue: Main Auditorium

**Session Chair: Dr. M. Imtiaz Shafiq
Co-Chair: Dr. M. Babar Khawar**

09:00 – 09:25 Talk 1	Dr. M. Babar Khawar Department of Zoology, University of Narowal, Narowal, Pakistan <i>Topic: Role of Sirt1-Mediated Autophagy in Testosterone Biosynthesis.</i>
09:25 – 09:50 Talk 2	Dr. M. Imtiaz Shafiq Center for Bioinformatics and Drug Design, University of the Punjab, Lahore <i>Topic: Exploring the Therapeutic Potential of Curcumin Based Derivative Using Different Drug Design and Delivery Systems.</i>
09:50 – 10:10 Talk 3	Dr. Aamir Riaz Microbiology and Molecular Genetics, University of Okara, Pakistan <i>Topic: Genome Engineering for Food Security: A Way Forward for Sustainable Development.</i>
10:10 – 10:30 Talk 4	Dr. Hammad Arshad <i>Topic: Salvadora Persica Mediated Synthesis of Silver Nanoparticles for Antimicrobial Applications.</i>
10:30 – 10:45 Talk 5	Mr. Hammad Ullah Department of Pharmacy, University of Naples Federico II, Naples, Italy. <i>Topic: Preclinical Assessment of Plant-Based Nutraceutical Formulation for The Prevention of Periodontal Diseases.</i>
10:45 – 11:00 Talk 6	Ms. Maha <i>Topic: Molecular Sequencing of Multiple Drug-Resistant Staphylococcus Aureus and Screening of Selected Medicinal Plants For Antibiogram.</i>
11:00 – 11:30	Tea Break

Parallel Session A, Venue: Auditorium

**Session Chair: Dr. Aatif Amin
Co-Chair: Dr. Imran Sajid, Dr. Azmat Ullah**

11:30 – 11:55 Talk 7	Dr Imran Sajid Institute of Microbiology and Molecular Genetics, University of Punjab, Lahore. <i>Topic: 21st Century Expedition: Exploring Indigenous Microbial Resources for Novel Antibiotics.</i>
11:55 – 12:20 Talk 8	Dr. Azmat Ullah Department of Biochemistry & Biotechnology, University of Gujrat, Gujrat. <i>Topic: Controlling the Geminiviruses through CRISPR/Cas9 system.</i>
12:20 – 12:35 Talk 9	Ms. Fiza Younas <i>Topic: Characterization of Slfsr Gene in Tomato by Using Different Bioinformatics Tools.</i>
12:35 – 12:50 Talk 10	Ms. Hareem Mohsin <i>Topic: Isolation and Characterization of Mercury-Resistant Isolates from Various Water Sites in Lahore.</i>



12:50 – 13:00 Talk 11	Ms. Shahzadi Arhum <i>Topic: Cardiac Stress Induced by Depression Leads to Atrial Fibrillation, Cardiomyopathies, And Heart Failure In Mice.</i>
13:00 – 14:00	Lunch Break
	Parallel Session A, Venue: Auditorium
	Chair: Dr. Amjad Farooq Co-Chair: Dr. Sohail Afzal
14:00 – 14:25 Talk 12	Dr. M. Sohail Afzal Department of Life Sciences, School of Science, University of Management and Technology, Lahore. <i>Topic: Evaluation of Epidemiological Risk Factors Associated with Severe COVID-19 in Pakistan.</i>
14:25 – 14:40 Talk 13	Mr. Ahmed Bakhsh <i>Topic: Evaluation of Biochemical and Hematological Parameters of Immunoglobulins in Children with Celiac Disease.</i>
14:40 – 14:50 Talk 14	Dr. Nida Firdous <i>Topic: Advances in Formulation, Functionality, and Application of Edible Coatings On Fresh Produce And Fresh-Cut Products: A Review.</i>
14:50 – 15:00 Talk 15	Ms. Syeda Izma Makhdoom <i>Topic: Interpretation of Top2a/Ube2c/Cks2 Genes as Mutually Inclusive Theragnostic Signatures of Bladder and Prostate Cancer: The Therapeutic Potential of Drug-Drug Conjugate.</i>
15:05 – 15:15 Talk 16	Ms. Iram Newsheen <i>Topic: Identification and Characterization of Antibiotic Resistant Bacteria from The Gut of Honey Bee Apis Mellifera.</i>
15:15 – 15:30 Talk 17	Mr. Usman Hameed <i>Topic: Identification of mutation in consanguineous families with microphthalmia from the region of Punjab</i>
	Closing Ceremony: Main Auditorium



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Schedule for Day 2 – December 27, 2022

Themes: Chemistry, Food Sciences, Biochemistry

Parallel Session B, Venue: Webinar Room, C Building


Session Chair: Dr. Sumera Zaib

Co-Chair: Dr. Muhammad Mustafa ; Dr. Anjum Murtaza

09:00 – 09:25 Talk 1	Dr. Muhammad Mustafa Kausar Abdulla Malik School of Life Sciences, Forman Christian College, Lahore. <i>Topic: Biological Implications of Emotional Stress in Fueling Breast Cancer Metastasis.</i>
09:25 – 09:50 Talk 2	Dr. Mian Anjum Murtaza Institute of Food Science & Nutrition, University of Sargodha, Sargodha. <i>Topic: Health Impacts of Cheese with Focus on Bioactive Peptides Institute of Food Science & Nutrition</i>
09:50 – 10:05 Talk 3	Mr. Usman Mir Khan <i>Topic: Development of Miniature Cheese With Plant Proteases As Rennet Alternatives.</i>
10:05 – 10:20 Talk 4	Dr. Hiba Naveed <i>Topic: The Dioscorea Genus (Chinese Yam): An Innovative Non-Conventional Nutraceutical Tuber.</i>
10:20 – 10:35 Talk 5	Ms. Zunaira Ejaz <i>Topic: Banana Peel Extract: An Excellent Antimicrobial Agent</i>
10:35 – 10:50 Talk 6	Mr. Zahid Bashir <i>Topic: Effects of Dietary Fibre on Gut Microbiota in patients with Type 2 Diabetes.</i>
10:50 – 11:00 Talk 7	Ms. Rabia Muazzam <i>Topic: Plasma-based ozonolysis of lignin waste materials for the production of value-added chemicals</i>
11:00 – 11:30	Tea Break
Parallel Session B, Venue: Engineering Conference Hall	
Session Chair: Prof. Dr. Muhammad Akhyar Farrukh	
Co-Chair: Dr. M. Umair Arshad Bajwa	
11:30 – 11:55 Talk 8	Prof. Dr. Muhammad Umair Arshad Bajwa Director, Department of Food Science, Government College University (GCU) Faisalabad, Faisalabad. <i>Topic: Recommended Strategies & Innovations for Agriculture And Food Industry To Promote Healthier Food In Pakistan</i>
11:55 – 12:20 Talk 9	Ms. Zakia Akram <i>Topic: Current Application of Nanotechnology in Food Industry</i>
12:20 – 12:35 Talk 10	Ms. Areeba Irfan <i>Topic: Gastro Esophageal Reflux Disease: Acid Reflux Foods to Avoid</i>
12:35 – 12:50 Talk 11	Ms. Mahnoor Shah <i>Topic: Exploring the application of nanotechnology in food and food processing</i>




12:50 – 13:00 Talk 12	Mr. Hamdan Rashid <i>Topic: Pomegranate peel extraction by high voltage technique and its applications</i>
13:00 – 14:00	Lunch Break
Parallel Session B, Venue: Engineering Conference Hall	
Session Chair: Dr. Kanza Aziz Awan Co-Chair: Dr. Aamna Baloch	
14:00 – 14:25 Talk 13	Dr. Aamna Baloch National Center of Excellence in Analytical Chemistry, University of Sindh, Jamshoro, Pakistan <i>Topic: Metal Nanocatalyst: Controlled Synthesis, Morphological Study and Catalytic Performance.</i>
14:25 – 14:40 Talk 14	Dr. Tanzeela Riaz <i>Topic: Facile Synthesis, Characterization and Biological Activities of Nanoparticles and Nanocomposite.</i>
14:40 – 14:55 Talk 15	Ms. Hina Abid <i>Topic: Development of Natural Polymer Based Contact Lens Materials.</i>
14:55 – 15:05 Talk 16	Dr. Muhammad Pervaiz <i>Topic: A Theoretical Study for the Degradation 2, 3, 7, 8-Tetrachlorodibenzo-p-Dioxin (TCDD) by Density Functional Theory using Gaussian.</i>
15:05 – 15:20 Talk 17	Dr. Nida Hassan Ansari <i>Topic: Crystal Structure of a Novel Furo-Furan Lactone from Heliotropium eichwaldi.</i>
15:20 – 15:30 Talk 18	Mr. Khalil Ahmed <i>Topic: Synthesis and Characterization of MOFs and Investigation on Adsorptive Removal of Water Pollutant.</i>
Closing Ceremony: Main Auditorium	



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Schedule for Day 2 – December 27, 2022

Themes: Physics, Mathematics	
Parallel Session C, Venue: Conference Room- Building A	
Session Chair: Dr. Zafar Wazir Co-Chair: Dr. Khurram Shabbir	
09:00 – 09:30 Talk 1	Dr. Zafar Wazir Department of Physics, Ghazi University, Dera Ghazi Khan. <i>Topic: Phase Transition of Nuclear Matter</i>
09:30 – 10:00 Talk 2	Prof. Dr. Khurram Shabbir Department of Mathematics, Government College University (GCU), Lahore. <i>Topic: Homotopy Invariants</i>
10:00 – 10:30 Talk 3	Dr. -Ing. Ali Asif Department of Physics, Government College University (GCU), Lahore. <i>Topic: Direct Interfacing of Sensors with Embedded Systems.</i>
10:30 – 10:40 Talk 4	Mr. Ihsan Ul Ghafoor <i>Topic: Long term simulations of the outer Solar System using ERKN pairs with round-off error control technique.</i>
10:40 – 10:50 Talk 5	Dr. Amal <i>Topic: Decoupled Solutions in Self-Interacting Brans-Dicke Gravity.</i>
10:50 – 11:00 Talk 6	Ms. Amina Komal <i>Topic: Prediction of Boiling Points of Alcoholic Isomers.</i>
11:00 – 11:30	Teak Break
Parallel Session C, Venue: Conference Room- Building A	
Session Chair: Dr. Mujahid Co-Chair: Dr. Khurram Shabbir	
11:30 – 12:00 Talk 7	Dr. Mujahid Abbas Director General, Abdus Salam School of Mathematical Sciences, GC University Lahore, <i>Topic: Approximation of Common Solutions of Certain Nonlinear Operator Equations Using Inertial-Type Aa-Viscosity Algorithms with Applications</i>
12:00 – 12:15 Talk 8	Dr. Ayesha Ikram <i>Topic: Existence of Static Wormholes in $f(G, T)$ Gravity.</i>
12:15 – 12:30 Talk 9	Ms. Asfar Nisar <i>Topic: Dynamically Consistent Numerical Model for Transmission Dynamics of Rubella Virus</i>
12:30 – 12:40 Talk 10	Ms. Humaira Ghazal <i>Topic: Structural and Mechanical Properties of Organic Additive Stabilized Zirconia.</i>
12:40 – 12:50 Talk 11	Dr. Usman Ali <i>Topic: Some Zagreb Connection Indices of Sudoku Networks.</i>
12:50 – 13:00 Talk 12	Ms. Saba Javed <i>Topic: Numerical Calculations of Nonequilibrium Spacecraft Charging at GEO Altitudes with Two Temperature Non-Extensive Distribution.</i>



13:00 – 14:00	Lunch Break
	Parallel Session C, Conference Room- Building A
	Chair: Dr. Shahid Siddiqi Co-Chair: Dr. Afaq Ahmad
14:00 – 14:20 Talk 13	Dr. Ghazala Akram Department of Mathematics, University of Punjab, Lahore. Topic: <i>Travelling Wave, Solitary Wave and Soliton Solutions of Nonlinear Partial Differential Equations.</i>
14:20 – 14:45 Talk 14	Dr. Afaq Ahmad Centre of Excellence in Solid State Physics. University of the Punjab, Lahore. Topic: <i>Transfer Matrix Method for Thin Film Optics</i>
14:45 – 15:00 Talk 15	Dr. Waheed Ahmad Topic: <i>Computationally Efficient Optimal Control Analysis for the Mathematical Model of Coronavirus Pandemic.</i>
15:00 – 15:10 Talk 16	Ms. Samra Topic: <i>Reliable Numerical Analysis of Rotavirus Epidemic Model with Vaccination Strategy.</i>
15:10 – 15:20 Talk 17	Ms. Qurat ul Ain Topic: <i>Knot Coloring</i>
15:20 – 15:30 Talk 18	Ms. Alvena Shahid Topic: <i>Cobalt oxide Thin Films: Synthesis, Characterization and Applications.</i>
	Closing Ceremony: Main Auditorium

Schedule for Conclusion Ceremony – December 27, 2022

Time	Venue: Main Auditorium
15 30 – 16 30	Concluding Ceremony
	Recitation of Quran-e-Hakeem Conference Reflection by Dr. Muhammad Naveed (Chief Organizer) Distribution of Certificates by Dr. Nassar Ikram (Pro Rector, UCP) Vote of Thanks by Dr. Hafiza Rizwana Kausar (Dean FOST)

