



## Conference Program, 4<sup>th</sup> December 2024, Day-I



<b>Timeline</b>	
<b>Inauguration</b> <b>Jinnah Auditorium, GCWUF</b> <b>09:00-09:30 am PST</b>	
09:00-09:30am	Recitation from the Holy Quran by Ms Maham Ijaz Naat-e-Rasool e Maqbool by Ms Sana Rahmat Welcome note by Dr Abida Kausar, Chairperson Department of Chemistry GCWUF Remarks by Chief Guest, Prof Dr Rauf-e-Azam, Vice Chancellor, GC University Faisalabad. Address by Patron in Chief, Prof Dr Kanwal Ameen (T.I.), Vice Chancellor GCWUF Welcome note by Prof Dr Zill-I-Huma Nazli, Pro-Vice Chancellor, GCWUF Distribution of Shields/Certificates
<b>Plenary Lecture</b> <b>Jinnah Auditorium, GCWUF</b> <b>09:30-10:40 am PST</b>	
09:30-10:10am	Prof Dr Mark G. Molony. Professor Emeritus, Department of Chemistry, University of Oxford. Chemistry and its Applications at a Surface
10:10-10:40am	Prof Dr Muhammad Akhyar Farrukh, Dean Faculty of Science and Technology, University of Central Punjab, Lahore. Sustainable Graphene-Based Nanomaterials for Environmental Solutions
<b>Tea Break &amp; Poster Session</b> <b>Apron Lawn of Jinnah Auditorium, GCWUF</b> <b>10:40-11:20 am PST</b>	
Session Convener: Dr Maryam Aslam, Dr Umme Kalsoom	

1. Fatima Ikram, Department of Chemistry, GC Women University Faisalabad. Efficient Removal of Different Pesticides from Aqueous Media through Activated Charcoal/Chitosan Composite
2. Tazeem Fatima, Department of Chemistry, University of Agriculture Faisalabad. Computational Analysis of Ribofuranose Nucleoside Derivatives: Targeting EGFR and VEGFR2 in Cancer Cells
3. Iram Naz, Interdisciplinary Research Center for Biomedical Materials, COMSATS, Lahore Campus, Faisalabad. A field portable electrochemical immunosensor based on multifunctional Ag<sub>2</sub>O/g-C<sub>3</sub>N<sub>4</sub> @MA-DBB covalent organic framework receptor interface for single-step detection of aflatoxin M<sub>1</sub> in raw milk samples
4. Nadia Bibi, Department of Chemistry, GC Women University Faisalabad. Salen based metal-COF and cobalt ferrite decorated electrochemical sensor for the detection of atrazine in ground water
5. Zill-e-Huma, Department of Chemistry, GC Women University Faisalabad. Modification of pencil graphite electrode with POPs-based aptananozyme for the detection of aflatoxin M1 in milk
6. Irsa Zubair, Department of Chemistry, GC Women University Faisalabad. Nano-suspension formation of *Amaranthus Viridis* and *Calotropis Procera* to enhance their bioavailability
7. Noureen Maryam, Department of Chemistry, GC Women University Faisalabad. Removal of pesticides from aqueous solution with magnetic chitosan grafted salicylaldehyde/ nano clay composite
8. Amna Kashif, Department of Chemistry, GC Women University Faisalabad. Green Chemistry in Textiles: Synergistic Effects of Azolium Salts and Metallic Mordants in Natural Cotton Dyeing poster title
9. Noor Fatima, Department of Chemistry, GC Women University Faisalabad. Synthesis of iron oxide/ zinc oxide nanoparticles using banana peel extract and their applications
10. Rahat Asghar, Department of Chemistry, GC Women University Faisalabad. The photocatalytic degradation of textile dyes using green synthesized zinc oxide nanoparticles
11. Arooj Zainab Amir, Department of Chemistry, GC Women University Faisalabad. Development of multifunctional bioactive food packaging based on silver nanoparticles/grape fruit peel extract reinforced PVA composites
12. Noor Fatima, Department of Chemistry, GC Women University Faisalabad. Synthesis and characterization of natural deep eutectic solvents as green extractants for isolation of bioactive flavonoids from *Amaranthus viridis*
13. Asma Jabeen, Department of Chemistry, University of Agriculture Faisalabad. Potential of *Mangifera indica* biomass based Na-alginate and Hybrid composites for the removal of Imidachlopride from wastewater
14. Ayesha Rehman, Department of Chemistry, GC Women University Faisalabad. Comparison of UV protection properties of cotton fabrics treated with aqueous and methanolic extracts of *solanum nigrum* and *Amaranthus viridis* plants
15. Asma Jabeen, Department of Chemistry, University of Agriculture Faisalabad. Bioremediation of 2,4 dichlorophenoxy acetic acid from simulated wastewater by Magnetically active and NaBH<sub>4</sub> based Hybrid composites
16. Muhammad Azam, Department of Chemistry, University of Agriculture Faisalabad. Efficacy of soil and foliar applications of chemically synthesized ZnO Nano fertilizer on morphological and nutritional quality of *Zea mays* crop: A comparison
17. Saira, Department of Chemistry, GC Women University Faisalabad. Evaluation of Nutritional, Bioactive, wound healing and antitumor potential of *Carica Papaya*
18. Fatima, Department of Chemistry, GC Women University Faisalabad. Evaluation of Nutritional, Bioactive, wound healing and antitumor potential of *Ficus Carica*

19. Adila, NIBGE, Faisalabad. A Safe Trash-to-Treasure Approach: Upcycling PPE Waste into Lead-Removing Multifunctional Materials Through Pyrolysis
20. Zeeshan Khan Janjua, NIBGE, Faisalabad. Synthesis of Biomolecules-Capped Silver Nanoparticles for Advanced Antimicrobial Therapies

**Session-I: Natural & Synthetic Medicinal and Pharmaceutical Sciences by Integrated Computational Approach**  
**Committee Room, GCWUF**  
**11:20 am-01:40 pm PST**

Chair: Prof Dr Fazli Rabbi Awan, Principal Scientist, Health Biotechnology Division, NIBGE, Faisalabad.

Co-Chair: Prof Dr Tahir Mehmood. Institute of Microbiology and Molecular Genetics, University of Punjab Lahore

Session Convener: Dr Nusrat, Dr Shagufta Parveen, Dr Maryam

11:20-11:40 am	Invited Talk: Prof Dr Tahir Mehmood. Institute of Microbiology and Molecular Genetics, University of Punjab Lahore. Plants: A Vital Source of Nutraceuticals Functional and Foods
11:40 am -12:00 pm	Invited Talk: Dr Asma Rehman, NIBGE, Faisalabad. Designing Functionalized Nanomaterials for Biomedical and Environmental Applications
12:00-12:20 pm	Invited Talk: Dr Muhammad Imran Tousif, Department of Chemistry, University of Education Lahore, Dera Ghazi Khan Campus. Medicinal Plants and Non-Communicable Diseases (NCDs); Utilization of Multidirectional Approach Probe into the New Nutraceuticals
12:20-12:40 pm	Invited Talk: Sumaira Naeem, Department of Chemistry, Baba Guru Nanak University, Nankana Sahib. Engineering and Physicochemical Characterization of Nanostructured Liposomes based red blood Cells-Mimics as Smart carriers for Drug Delivery Applications
12:40-12:50 pm	Hafsa Javaid, Department of Chemistry, The Multan Women University, Multan. Fabrication and kinetic evaluation of dye adsorption capability of metal Oxide@RGO nanocomposites integrated cellulose triacetate membranes
12:50-01:00 pm	Kiran Mustafa, Department of Chemistry, The Multan Women University, Multan. Highly efficient aramid fiber supported polypropylene membranes modified with reduced graphene oxide based metallic nanocomposites: antimicrobial and antiviral capabilities
01:00-01:10 pm	Nyla Amjed, Department of Chemistry, University of Agriculture, Faisalabad. Modification of Elastollan by Extrusion Process for Improved Thermal, Antimicrobial and Biocompatible Behavior
01:10-01:20 pm	Ariba Farooq, Department of Chemistry, The University of Lahore. Effect of silane modified sepiolite incorporated Plantago ovata hydrogels for controlled delivery of ciprofloxacin
01:20-01:30 pm	Hafiza Memoona Asif, Department of Chemistry, GC Women University Faisalabad. A Comprehensive Update of Anti-COVID-19 Activity of Heterocyclic Compounds

01:30-01:40 pm	Sabra Ikhlas, Department of Chemistry, GC Women University Faisalabad. Recent Advances in the Piperazine based Antiviral Agents: A Remarkable Heterocycle for Antiviral Research
<b>Session II: Interdisciplinary Research Trends</b> <b>Jinnah Auditorium, GCWUF</b> <b>11:20 am-01:40 pm PST</b>	
Chair: Prof Dr Asim Mansha, Department of Chemistry, GC University Faisalabad	
Co-Chair: Prof Dr Matloob Ahmed, Department of Chemistry GC University Faisalabad	
Session Convener: Dr Sana Aslam, Dr Sadia Asim, Dr Farhat Jubeen	
11:20 -11:40 am	Invited Talk: Prof Dr Asim Mansha, GC University Faisalabad. Theoretical exploration of optoelectrical properties of photocatalytic metal compounds, a case study of Metal Vandate Oxide
11:40-12:00 pm	Invited Talk: Prof Dr Matloob Ahmed, GC University Faisalabad. Benzothiazines and Benzimidazoles as anti-diabetic agents: Synthesis & biological activity
12:00-12:20 pm	Invited Talk: Prof Dr Ameer Fawad, GC University Faisalabad. Epoxide Ring Opening Reactions: Gateway to Unnatural Amino Acids and Biologically Potent Molecules
12:20-12:40 pm	Invited Talk: Prof Dr Muhammad Hassan Sayyad, Department of Physics, GIK institute of Engineering Sciences. Light-Matter Interaction Physics: Unraveling the Potential for Research, Medical Innovations, and Industrial Advancements
12:40-01:00 pm	Invited Talk: Dr Hammad Majeed. Director ORIC, University of Management and Technology, Sialkot. Climate Resilience Intelligent Manufacturing Techniques in Chemical Industries
01:00-01:10 pm	Dr. Shumaila Kiran. GC University Faisalabad. Synthesis and characterization of bio-fabricated silver nanoparticles as green catalysts for mitigation of synthetic dyes: A sustainable environmental remedial approach
01:10-01:20 pm	Zill-e-Huma, Interdisciplinary Research Center in Biomedical Materials, COMSATS Lahore Campus, Islamabad. A novel and Universal Functionalized Hazo-POPs@COOH-Apt/PGE-based Electrochemical Biosensor for Detection of Aflatoxins M <sub>1</sub> (AFM <sub>1</sub> ) in Raw Milk sample: A Versatile Peroxidase-Mimicking Aptananozyme Approach
01:20-01:30 pm	Sumayya Akram. Department of Chemistry, GC University Faisalabad. Exploring N-Arylation of Pyrazoles: Synthetic Routes and their Biological Applications
01:30-01:40 pm	Amna Younas, Department of Applied Chemistry, GC University Faisalabad. Ultrasonic-assisted extraction and characterization of natural colorants from plants and evaluation of their therapeutic properties and cytotoxicity
<b>Lunch break</b> <b>Apron Lawn of Jinnah Auditorium, GCWUF</b>	

**01:45-02:30 pm PST**

**Session III: Emerging Technologies in Environmental Sciences**

**Jinnah Auditorium, GCWUF**

**02:30-05:10 pm PST**

Chair: Prof Dr Haq Nawaz Bhattii, University of Agriculture Faisalabad

Co-Chair: Dr Kiran Aftab, Department of Chemistry, GC University Faisalabad

Session Convener: Dr Abida Kausar, Dr Umme Kalsoom, Dr Nadia Noor

02:30-02:50 pm	Invited Talk: Prof Dr Amjad Farid, Department of Physics, GC University Faisalabad. Hierarchical Nanostructures on 3D Porous Frameworks for Sensing Applications
02:50-03:10 pm	Invited Talk: Prof Dr Khurram Saleem Joya, Department of Chemistry, University of Madinah, Madinah, Saudi Arabia. Synthetic Fuels: Innovative Materials for energy conversion and Storage
03:10-03:30 pm	Invited Talk: Dr Mumtaz Khan, Principal Research Specialist. China National Nuclear Cooperation. Emerging Technologies in Environmental Sciences: A paradigm Shift in sustainable Solutions.
03:30-03:50 pm	Invited Talk: Umer Shafique, Department of Chemistry, GC University, Lahore. Perfluoroalkyl Acids: Emerging Pollutants in the Environment
03:50-04:00 pm	Ayesha Yousaf, Department of Chemistry, GC Women University, Sialkot. Photocatalytic activity of Bi Doped CuO-rGO Nanocomposite for Removal of Crystal Violet Dye
04:00-04:10 pm	Tuba Irtaza, Department of Chemistry, GC University Faisalabad. Electro-Oxidation of strontium Tungstate Fabricated Graphitic Carbon Nitride for Hydrogen Production via Water Splitting
04:10-04:20 pm	Muqadas, Department of Chemistry, GC University Faisalabad. Electro-Oxidation of Stannous Tungstate Fabricated Graphitic Carbon Nitride for Hydrogen Production via Water Splitting
04:20-04:30 pm	Esha Ismail, Department of Chemistry, GC University Faisalabad. Study of polyacrylamide mediated peanut shell/alumina ternary composite for removal of dyes from water
04:30-04:40 pm	Malaika Razzaq Khan, Department of Chemistry, GC Women University Sialkot. Removal of Dyes by Bimetallic Nanoparticles incorporated onto Metal Organic Framework: A Sustainable Approach
04:40-04:50 pm	Sana Ijaz, Department of Chemistry, GC Women University, Faisalabad. Synthesis and Application of Rice Husk Derived Cellulose Composite with Graphene Oxide as Potentially Effective Adsorbent for Dyes Removal

04:50-05:00 pm	Hafsa Saleem, Department of Chemistry, GC Women University Faisalabad. Recent synthetic strategies of medicinally important imidazothiadiazoles
05:00-05:10 pm	Eman Fatima, Department of Chemistry, GC Women University, Faisalabad. Eco-Innovation: Green Synthesis of Silver Nanoparticles from Agriculture Byproducts
<b>Session-IV: Nano-Chemistry &amp; Nano-Technology Applications</b> <b>Committee Room, GCWUF</b> <b>02:30-05:20 pm PST</b>	
Chair: Prof Dr Yasir Jamil, Department of Physics, University of Agriculture Faisalabad	
Co-Chair: Dr Muhammad Adnan Iqbal, Department of Chemistry, University of agriculture, Faisalabad	
Session Convener: Dr Maryam Aslam, Dr Faiza Nazir, Dr Huma Munir	
02:30-02:50 pm	Invited Talk: Dr Yasir Jamil, Department of Physics, University of Agriculture, Faisalabad. Green Laser Assisted Synthesis and Photocatalytic Innovations with Gold-Cobalt Nanoparticles
02:50-03:10 pm	Invited Talk: Dr Saima Rehman, Department of Chemistry, GC Women University, Faisalabad. Mxenes based Nanostructures for Electrochemical Sensing
03:10-03:30 pm	Invited Talk: Dr Saba Jamil, Department of Chemistry, University of Agriculture Faisalabad. Carbon Nanodots and its Modification and Applications
03:30-03:50 pm	Invited Talk: Dr Faisal Mehmood, Director Academics, Superior University, Faisalabad Campus. Nanotechnology for Sustainability: Bridging Innovation and the SDGs
03:50-04:10 pm	Invited Talk: Dr Rabia Faridi, Department of Plant Breeding and Genetics, University of Agriculture, Faisalabad. Nanoparticle-Induced Systemic resistance in Mungbean against Yellow Mosaic Virus.
04:10-04:30 pm	Invited Talk: Dr Muhammad Adnan Iqbal, Department of Chemistry, University of agriculture, Faisalabad. Exploring Selenium-N-Heterocyclic Carbene Compounds and Nanoparticles: A Synergy of Synthesis, Computational, and Biological Assessments
04:30-04:50 pm	Invited Talk: Dr Ahsan Nazir, Director ORIC, NTU, Faisalabad. Electrospun Nanomaterials for Biomedical Applications
04:50-05:00 pm	Hafiz Affan, Department of Textile Engineering, National Textile University, Faisalabad. Application of Highly Abrasion Resistant Functional Coatings on Cotton Fabric
05:00-05:10 pm	Amna Kashif, Department of Chemistry, GC Women University, Faisalabad. Eco-Inspired Nanoparticles: Rice Husk-Derived Zinc Oxide for promoting Coriander Growth
05:10-05:20 pm	Rimsha Kanwal, Department of Chemistry, GC Women University Faisalabad. Synthesis of N-Alkyl Azoles Carrying Metal Complexes for Catalytic and Medical Applications

