



**20<sup>th</sup> International  
and 32<sup>nd</sup> National  
Chemistry Conference**  
on "Chemical Sciences and  
Sustainable Development Goals"

**Conference Dates:  
November 2-4, 2022**



Patron in Chief  
Prof. Dr. Muhammad Suleman Tahir  
Vice Chancellor-KFUEIT

**Organized by:**  
Khwaja Fareed University of Engineering  
and Information Technology  
and  
The Chemical Society of Pakistan

## Tentative Schedule of the Conference

Day 1 November 02, 2022 (Wednesday)	
8:00 AM – 9:00 AM	REGISTRATION
9:00 AM-10:15 AM	INAUGURAL CEREMONY
10:15 AM-10:30 AM	ADDRESS OF CHIEF GUEST
<b>10:30 AM-11:00 AM</b>	<b>TEA BREAK</b>
11:00 AM – 01:00 PM	PLENARY LECTURES (Main Conference Hall)
Chair:	Prof. Dr. Rashid Ahmad
Co-Chair:	Prof. Dr. Khalid Mohammed Khan



Time	Speaker /Title
<b>11:00 AM – 11:30 AM</b>	<b>Modern Approaches to Modulate the Hsp90 Chaperone for the Treatment of Disease</b> <i>Prof. Dr. Brian S. J. Blagg</i> The University of Notre Dame 305 McCourtney Hall Notre Dame, Indiana USA
<b>11:30 AM – 12:00 PM</b>	<b>Power of New Generation Dynamic Supercritical Fluid System (DSS) in The Extraction of Bioactive Compounds from Medicinal Plants</b> <i>Prof. Dr. Hüseyin Kara</i> Selcuk University, Turkey
<b>12:00 PM - 12:30 PM</b>	<b>Rare Earth Elements: Are We Ready?</b> <i>Dr. Mohamad Azmi Bustam</i> Universiti Teknologi Petronas 32610 Sri Iskandar, Perak, Malaysia
<b>12:30 AM – 1:00 AM</b>	<b>The Bee Venom in The Anticancer Application: Recent Advances and Trends</b> <i>Prof. Dr. Zeliha Selamoglu</i> Nigde Ömer Halisdemir University Campus 51240 Turkey
<b>1:00 PM -2:00 PM</b>	<b>PRAYER AND LUNCH BREAK</b>



**2:00 PM - 3:30 PM**

**Concurrent Keynote cum Invited Lectures**

**Session-A**

**Session-B**

**Session-C**

**Session-D**

**Session-E**

Organic/Medicinal/Natural Products: <b>Room: Civil auditorium</b> <b>Chair: Dr. Farah Naz Talpur</b> <b>Co-Chair: Dr. Ameer Fawad Zahoor</b>	Inorganic/ Material/Nano/Nuclear Chemistry: <b>Room: CIEN.1.03R</b> <b>Chair: Dr. Irshad Hussain</b> <b>Co-Chair: Dr. Amber R. Solangi</b>	Physical/Radio/Electro/Computational Chemistry/Nutritional/Food/Agricultural Chemistry: <b>Room: CIEN.1.03L</b> <b>Chair: Prof. Dr. Abdullah Ijaz Hussain</b> <b>Co-Chair: Prof. Dr. Tajnees Pirzada</b>	Analytical /Environmental /Green Chemistry/Applied/Industrial/Polymer/Textile Chemistry: <b>Room: CIEN.2.03R</b> <b>Chair: Prof. Dr. Haq Nawaz Bhatti</b> <b>Co-Chair: Dr. Shahzad Ali Shahid Chatha</b>	Biotechnology/Chemical engineering/Biochemistry/Renewable energy <b>Room: CIEN.2.03L</b> <b>Chair: Prof. Dr. Shahzad Murtaza</b> <b>Co-Chair: Prof. Dr. Saeed Gul</b>
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Time	Speaker and Title	Speaker and Title	Speaker and Title	Speaker and Title	Speaker and Title
2:00 PM – 2:30 PM	<b>Dr. Khalid Mohammed Khan</b> University of Karachi, Karachi-75270, Pakistan  Syntheses of Novel $\alpha$ -Amylase and $\alpha$ -Glucosidase Inhibitors	<b>Dr. Safeer Ahmed</b> Quaid-i-Azam University Islamabad  Synthesis of Nanostructured CuSCN and Adaptation in Electrochemical and Optical Properties by Yttrium Addition	<b>Dr. Jan Nisar</b> University of Peshawar, Pakistan  Pyrolytic degradation of biomass and plastic waste via pyrolysis	<b>Prof. Dr. Syed Ghulam Musharraf</b> University of Karachi, Karachi-75270, Pakistan  Mass spectrometric approaches in combatting with the complexity of phytochemicals	<b>Dr. Syed Javaid Khurshid,</b> Advisor Regional Rapport, Fellow Chemical Society & Pakistan Nuclear Society  Climate Change-Net Zero Emission and Renewable Energies
2:30 PM – 2:50 PM	<b>Dr. Jameel Ahmed Baig</b> University of Sindh, Jamshoro 76080, Pakistan  Biosynthesis of Aluminum oxide Nanobiocomposite and its application for the removal of toxic metals from drinking water	<b>Dr. Muhammad Imran Malik</b> University of Karachi, Karachi 75270, Pakistan  Polymer Stabilized Metallic Nanoparticles: An Efficient and Selective Platform for Sensing Drugs and Pesticides	<b>Mujahid Mehdi</b> University of Sindh, Jamshoro,76060, Pakistan  Structural Color Technique: Silver nanoparticles as future green colorants for natural and synthetic textile materials	<b>Hira Zulfiqar</b> Government College University, Faisalabad, Pakistan  Nutritional potential and biological activities of wildy grown accessions of Cucumis melo var. Agrestis	
2:50 PM – 3:10 PM	<b>Dr. Sajjad Hussain</b> University of the Punjab, Lahore, Pakistan  Analytical approaches for synthesis and characterization of vanadium nano-ferrites and their application for electrochemical detection of neurotransmitter drugs	<b>Iram Javed</b> Government College University Faisalabad-38000, Pakistan  Evaluation of growth in cirrhinus mrigala after inclusion of black pepper in fish feed	<b>Shakoor Ahmed Solangi</b> University of Sindh, Jamshoro  Environmental monitoring and assessment of heavy metals in paddy fields treated with synthetic and mixed fertilizer	<b>Tahira Faiz</b> University of Agriculture, Faisalabad-Pakistan  Surface-Enhance Raman Spectroscopy (SERS) For Monitoring Drug Resistance Bacterial Strains	<b>Irsa Zafar</b> Government College University Faisalabad, Faisalabad 38000, Pakistan  Inter-Varietal Variation in Phenolic Profile, Sugar Contents, Antioxidant, Anti-Proliferative and Antibacterial Activities of Selected Brassica Species
3:10 PM –	<b>Abdullah Shoaib</b> University of Management and Technology, 54770, Lahore, Pakistan	<b>Dr. Mujtaba Ellahi</b> Balochistan University of Information Technology, Engineering and	<b>Kashaf Memon</b> University of Sindh, Jamshoro Pakistan	<b>Dr. Muhammad Adnan Ayub</b> University of Sahiwal, Sahiwal, Pakistan	<b>Inam ul Haque</b> University of Engineering and Technology Lahore



<b>3:30 PM</b>	Comparative Study of Sensing Properties of Zinc Oxide Nanoparticles, Nanowires and Nanorods	Management Sciences (BUIITEMS), Quetta Chemical characterization and biological activities of clove (Syzygium aromaticum L.) essential oil: Comparison of conventional extraction techniques with superheated steam extraction	Green synthesis of gold nanoparticles via medicinal plants extract	Chemical characterization and biological activities of clove (Syzygium aromaticum L.) essential oil: Comparison of conventional extraction techniques with superheated steam extraction	Electro-Oligomerization of Vindoline
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<b>3:30 PM – 4:00 PM</b>	<b>Poster Session/Evaluation</b>
<b>4:00 PM – 5:30 PM</b>	<b>Concurrent Keynote cum Invited Lectures</b>

<b>4:00 PM – 5:30 PM</b>	<b>Concurrent Session Lectures</b>			
<p><b><u>Session-A1</u></b> Organic/Medicinal/Natural</p> <p>Product: <b>Room: Civil</b></p> <p><b>Auditorium</b></p> <p>Chair: <b>Dr. Azhar Rasool</b> Co-Chair: <b>Dr. Muhammad Arif</b></p>	<p><b><u>Session-B1</u></b> Inorganic/ Material/Nano/Nuclear Chemistry:</p> <p><b>Room: CIEN-1.03L</b></p> <p>Chair: <b>Dr. Safeer Ahmad</b> Co-Chair: <b>Dr. Muhammad Khalid</b></p>	<p><b><u>Session-C1</u></b> Physical/Radio/Electro/Computational Chemistry/ Bio/Nutritional/Food/Agricultural Chemistry:</p> <p><b>Room: CIEN-1.03R</b></p> <p>Chair: <b>Dr. Aamna Balouch</b> Co-Chair: <b>Dr. Sarfaraz Ahmed Mahesar</b></p>	<p><b><u>Session-D1</u></b> Analytical /Environmental /Green Chemistry/ Applied/Industrial/Polymer/Textile Chemistry:</p> <p><b>Room: CIEN-2.03L</b></p> <p>Chair: <b>Dr. Farah Naz Talpur</b> Co-Chair: <b>Dr. Jan Nisar</b></p>	<p><b><u>Session-E1</u></b> Biotechnology/Chemical engineering/Biochemistry/Renewable energy</p> <p><b>CIEN-2.03R</b></p> <p>Chair: <b>Syed Javaid Khurshid</b> Co-Chair: <b>Dr. Touseef Ahmad</b></p>



Time	Speaker and Title	Speaker and Title	Speaker and Title	Speaker and Title	Speaker and Title
<b>4:00 PM – 4:30 PM</b>	<b>Dr. Muhammad Nadeem Akhtar</b> , Ghazi University DG Khan  Acetylcholinesterase Inhibitors from the Malaysian Medicinal Plants	<b>Dr. Amber R. Solangi</b> , University of Sindh, 76080 Jamshoro, Pakistan Exploitation of Role of Capillary Electrophoresis as A Characterization Tool for Nanomaterials	<b>Dr. Farah Naz Talpur</b> University of Sindh, Jamshoro, 76080-Pakistan Biodegradation of Endocrine disruptor Phthalate Esters by Bacillus thuringiensis Strain Isolated from cotton field Soil	<b>Prof. Dr. Abdullah Ijaz Hussain</b> Government College University Faisalabad. Chemical Composition and Pharmaceutical Applications of Lamiaceae Essential Oils: A Comprehensive Study	<b>Prof. Dr. Muhammad Sultan</b> Kohsar University Murree Pakistan  Interfacial Modifications in Perovskite Solar Cells
<b>4:30 PM – 4:50 PM</b>	<b>Dr. Muhammad Athar Abbasi</b> College University Lahore, Pakistan.  Convergent Synthesis of Indole-N-ethyltriazole hybrids amalgamated with N-arylated ethanamides as Medicinal Scaffolds	<b>Dr. Maleeha Wajid</b> University of Agriculture, Faisalabad, Pakistan  Effective removal of Brilliant Blue G by using orange peel-based Composites from wastewater	<b>Sahar Javed</b> Government College University Faisalabad-38000, Pakistan  Phenolic profile and anti-inflammatory activity of different parts of Aegle marmelos	<b>Sajid Awais</b> Kohat University of Science & Technology, Kohat, Pakistan  HSM via TLR4/COX-2/IL-1 $\beta$ Signaling Attenuates Scopolamine-Induced Cognitive Impairment in Adult Mice	<b>Dr. Muhammad Pervaiz Bhatti</b> Government College University Lahore  Design and Synthesis of Schiff Base Homobimetallic-Complexes as Promising Antimicrobial Agents
<b>4:50 PM – 5:10 PM</b>	<b>Sidra Mubeen</b> Women University Multan, Multan, Pakistan  Synthesis and Characterization of Sulfonamides Based Pyrimidoquinoline Derivatives	<b>Aftab Alam</b> University of Malakand, P.O. Box 18800, Dir Lower, Khyber Pakhtunkhwa, Pakistan  Bio-oriented Synthesis of Novel (S)-Flurbiprofen Clubbed Hydrazone Schiff's Bases for Diabetic Management: In vitro and In silico Studies	<b>Dr. Asma Khurshid</b> Quaid-I-Azam University, Islamabad 45320, Pakistan  Unexpected formation of aminophenazone based cocrystal: A study supported by detailed spectroscopic analysis, single crystal X-ray crystallography and Hirshfeld surface analysis	<b>Dr. Hina Raza</b> Bahauddin Zakariya University, Multan, Pakistan.  Determination of uremic toxins using carbon/ormosil as adsorbent	<b>Nida Yasmeen</b> Research Laboratory of Chemistry Department, Government College University Faisalabad-38000, Pakistan  Bioactivity-guided extraction of flavonoids from Atriplex crassipes
<b>5:10 PM – 5:30 PM</b>	<b>Muhammad Furqan Farooq</b> Government College University, Faisalabad, Pakistan  Extraction, Modification and Characterization Of Cellulose From Peanut Shell For Pharmaceutical Applications	<b>Fahad Abbasi</b> University of Sindh, Jamshoro 76080, Pakistan  Simultaneous quantification of essential and toxic elements from mangoes fruit and its juices	<b>Muhammad Zubair</b> University of Alberta  Keratin Derived Bio-Adsorbents for Heavy Metals Remediation	<b>Samia Kausar</b> University of Gujrat, Hafiz Hayat Campus, Gujrat 50700, Pakistan,  Isopropyl Ammonium Based Lead Halides for Photocatalytic Lignin Depolymerization into Valuable Products	<b>Talha Mumtaz</b> Government College University, Lahore, Pakistan  Synthesis, characterization and biological studies of octadecylamine derivatives of Schiff base metal complexes



<b>05:00 to 6:00 PM</b>	<b>General Body Meeting of Chemical Society of Pakistan (Venue: Conference Hall)</b>
<b>7:00 PM – 9:00 PM</b>	<b>Conference Gala Dinner (Dinner Coupon is required)- Venue: KFUEIT FUTSAL Ground</b>
	<b>PROGRAM OF THE 1<sup>ST</sup> DAY IS FINISHED</b>





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### Tentative Schedule of the Conference

Day 2 November 03, 2022 (Thursday)	
9:00AM – 10:00 AM	Plenary Lectures (Conference Hall)
Chair:	Prof. Dr. Syed Tufail Hussain Shah
Co-Chair:	Prof. Dr. Shahzad Murtaza
Time	Speaker /Title
9.00-9:30	Prof. Dr. Rashid Ahmad VC University of Malakand, Chakdara Dir (L), Pakistan  Coal based activated carbon for ciprofloxacin removal abatement
9:30-10:00	Prof. Dr. Ch. Jamil Anwar University of the Punjab, Lahore  Climate Change (Role of Academic Institutions)



**10:30 PM - 1:00 PM**

**Concurrent Keynote cum Invited Lectures (Conference Hall)**

<b>10:30 PM – 01:00 PM</b>		<b>Concurrent Session Lectures</b>				
<p><b><u>Session-A2</u></b> Organic/Medicinal/Natural Product: <b>Room: Civil Auditorium</b>  <b>Chair: Prof. Dr. Syed Ghulam Musharraf</b> <b>Co-Chair: Dr. Atta ul Haq</b></p>	<p><b><u>Session-B2</u></b> Inorganic/Material/Nano/Nuclear Chemistry: <b>Room: CIEN-1.03L</b> <b>Chair: Dr. Ghulam Mustafa Kamal</b> <b>Co-Chair: Dr. Muhammad Saqib</b></p>	<p><b><u>Session-C2</u></b> Physical/Radio/Electro/Computational Chemistry/Bio/Nutritional/Food/Agricultural Chemistry: <b>Room: CIEN-1.03R</b> <b>Chair: Dr. Tasneem Gul Kazi</b> <b>Co-Chair: Dr. Muhammad Shahid</b></p>	<p><b><u>Session-D2</u></b> Organic/Medicinal/Natural Product:  <b>Room: CIEN-2.03R</b> <b>Chair: Dr. Basharat Ali</b> <b>Co-Chair: Dr. Adnan Khaliq</b></p>	<p><b><u>Session-E2</u></b> Analytical /Environmental /Green Chemistry Applied/Industrial/Polymer/Textile Chemistry: <b>Room: CIEN-2.03L</b> <b>Chair: Dr. Zafar Hussain Ibupoto</b> <b>Co-Chair: Dr. Sarfraz Ahmed Mahesar</b></p>	<p><b><u>Session-F2</u></b> Biotechnology/Chemical engineering/Biochemistry/Renewable energy  <b>Room CIEN-</b>  <b>Chair: Dr. Muhammad Sagir</b> <b>Co-Chair: Dr. Naem Akhtar Qaisrani</b></p>	
<b>Time</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>





<p><b>10:30 AM – 11:00 AM</b></p>	<p><b>Dr. Wahid Bux Jatoi</b> Shah Abdul Latif University Khairpur, Sindh, Pakistan  Asymmetric Synthesis of Trifluoromethylated Piperidines: Applications to the first asymmetric synthesis of Tfm_pipelic acids and piperidine-based <math>\gamma</math>-aminoacids</p>	<p><b>Prof. Dr. Aamna Balouch</b> University of Sindh, Jamshoro  Magnetic Molecularly Imprinted Polymers: Synthesis and Applications for the Selective removal of toxic metal ions</p>	<p><b>Dr. Sarfaraz Ahmed Mahesar</b> University of Sindh, Jamshoro, Pakistan  Recent Trends in Trans Fat Analysis by FTIR Spectroscopy</p>	<p><b>Dr. Muhammad Shahid Cholistan</b> Government College University, Lahore, Pakistan  Antibacterial and anti-oxidant screening of Nerium oleander leaves extract</p>	<p><b>Dr. Shahzad Ali Shahid Chatha</b> Government College University Faisalabad,  Smog and fly ash: Challenges and opportunities for value addition</p>	<p><b>Dr. Zafar Hussain Ibupoto</b> University of Sindh Jamshoro  Development of Nano hybrid materials for energy and environmental applications: An experimental perspective</p>
<p><b>11:00 AM – 11:20 PM</b></p>	<p>Muhammad Waseem Mumtaz University of Gujrat, Gujrat, Pakistan  Modified carbon felt electrode for increased bioelectricity generation and wastewater treatment in microbial fuel cell</p>	<p><b>Sofia Laraib</b> Fatima Jinnah Women University, Rawalpindi, Pakistan.  Synthesis of Room Temperature Ionic Liquids Based on imidazolium cation and Their Potential Application as Extractants of Sulfur-Compounds from Coal</p>	<p><b>Suryia Manzoor</b> Bahauddin Zakariya University, Multan, Pakistan.  Adsorption characteristics, recognition properties of Tribenuron methyl by molecularly imprinted polymer and modified sol-gel surface imprinting technology</p>	<p><b>Mahwish Iqbal,</b> University of Agriculture, Faisalabad, Pakistan Synthesis of CuSe nanoparticles and CuSe/GO nanocomposite with high solar light driven photocatalytic efficiency towards Methyl Green</p>	<p><b>Aftab Aziz</b> Quaid-i-Azam University, Islamabad-45320, Pakistan  4-Alkoxybenzoate Based Calamitic Liquid Crystals (LCs) with Antiparallel Packing as Potential Low Molecular Mass LC Alignment Materials</p>	<p><b>Muhammad Ayaz</b> University of Malakand, P.O. Box 18800, Dir Lower, Khyber Pakhtunkhwa, Pakistan  Novel Bis-Schiff's Base Derivatives of 4-nitroacetophenone as Potent <math>\alpha</math>-glucosidase Agents: Design, Synthesis and In silico Approach</p>
<p><b>11:20 AM – 11:40 PM</b></p>	<p><b>Iqbal Ahmed</b> Government College University Faisalabad  Assessment of Oxidative Stability of Various Commercial Oils Under Different Storage Conditions</p>	<p><b>Muhammad Ali Hassan Khan,</b> University of Agriculture Faisalabad, Pakistan  Mitigation of Groundwater Pollution from Wastewater Drains in Faisalabad using A Modeling Approach</p>	<p><b>Faiza Aslam,</b> Quaid-i-Azam University, Islamabad, Pakistan  MWCNTs/Fe-Doped ZnO Based Electrochemical Sensing Platform for the Detection and Degradation Monitoring of Brilliant Green</p>	<p><b>Warda Nazneen Showkat</b> Kohat University of Science and Technology, Kohat Pakistan  Effects of Gamma Irradiation on the Antioxidant Activities of the Selected Seeds, Charnagaz, From Pakistan</p>	<p><b>Muhammad Nadir Saleem,</b> Quaid-i-Azam University Islamabad, Pakistan  Detection and Degradation Studies of Nile Blue Sulfate and Ethyl Violet Using Electrochemical and UV-Vis Spectroscopic Techniques</p>	<p><b>Ghulam Ali,</b> University of Peshawar, 25120, Peshawar, Pakistan  Fuel oil production from decomposition of waste polystyrene: their kinetics and products distribution</p>



<b>11:40 AM – 12:00 PM</b>	<b>Muhammad Dilshad</b> Electroanalysis of Ibuprofen and Its Interaction with Bovine Serum Albumin	<b>Dr. M.T. Saddique</b> National Textile University, Sheikhpura Road, Pakistan  Synthesis of chitosan-Sodium Alginate blend beads and their surface Properties in removal of heavy metals from aqueous media	<b>Muhammad Zahid Iqbal</b> Government College University Faisalabad  Formation of Terpenoids Base Nanoemulsions and Their Role in Food Applications	<b>Meher-Un-Nisa Khilji</b> University of Sindh, Jamshoro 76080, Pakistan Synthesis of Novel Visible Light Driven MgO@GO Nanocomposite photocatalyst for Degradation of Rhodamine 6G	<b>Ramsha Afzal</b> Government College University, Faisalabad  Antioxidant and Tyrosinase Inhibition Potential of Polyphenols Based Formulation	<b>Dr. Muhammad Nazir Uddin</b> University of Swat.  Efficacy of Antibacterial Potentials Medicinal Plants Against Molecular Characterized MDR-Pseudomonas aeruginosa Isolated from Hospital Dry Waste
<b>12:00 PM – 2:00 PM</b>	<b>Poster presentations/Evaluation</b>					

<b>1:00 pm -2:00 pm</b>	<b>PRAYER AND LUNCH BREAK</b>
<b>02:00 PM - 03:45 PM</b>	<b>Concurrent Keynote cum Invited Lectures (Conference Hall)</b>



02:00 PM – 03:45 PM		Concurrent Session Lectures				
<b>Session-A3</b> Organic/Medicinal/Natural Product: Room: Civil auditorium Chair: Dr. Muhammad Athar Abbasi Co-Chair: Dr. Madiha Irfan		<b>Session-B3</b> Inorganic/ Material/Nano/Nuclear Chemistry: Room: CIEN-1.03L Chair: Dr. Muhammad Bilal Tahir Co-Chair: Dr. Riffat Jawaria	<b>Session-C3</b> Physical/Radio/Electro/Computational Chemistry/ Bio/Nutritional/Food/Agricultural Chemistry: Room: CIEN-1.03R Chair: Dr. Muhammad Khalid Co-Chair: Dr. Basharat Ali	<b>Session-D3</b> Analytical /Environmental /Green Chemistry Applied/Industrial/Polymer/Textile Chemistry: Room: CIEN-2.03L Chair: Prof. Dr. Najam ul Haq Co-Chair: Dr. Abdul Ghaffar Watto	<b>Session-E3</b> Biotechnology/Chemical engineering/Biochemistry/Renewable energy Room: CIEN-2.03R Chair: Dr. Muhammad Arif Co-Chair: Dr. Jallat Khan	<b>Session-E3</b> Organic/Medicinal/Natural Product: Room: CIEN: Chair: Co-chair:
Time	Speaker and Title	Speaker and Title	Speaker and Title	Speaker and Title	Speaker and Title	Speaker and Title
02:00 PM – 02:30 PM	<b>Dr. M. Raza Shah</b> University of Karachi, Karachi Supramolecular Nanocarriers for Drug Delivery	<b>Prof. Dr. Shahid Rafiq</b> UET Lahore Dye degradation using plasma treated AgTiO <sub>2</sub> catalysts	<b>Dr. Tajnees Pirzada</b> Shah Abul Latif University, Khairpur, Sindh Interactions of essential metal ions with Humic Acids isolated from agriculture soils of Sobhodoro, effect of pH, ions concentrations and their chemical properties	<b>Dr. Muhammad Shahid</b> University of Agriculture, Faisalabad-38040, Pakistan Applications and Current Trends of Biopolymers in Food, Pharmaceuticals and Agriculture	<b>Dr. Hassan Imran Afridi</b> University of Sindh Jamshoro Toxic elemental levels in different types of Cannabinoid and Opioid drugs and their effect on the health of drug abuse subjects	<b>Dr. Syed Muhammad Saqib Nadeem</b> A volumetric study of ionic interactions of ammonium sulfate in water and aqueous DMF at different temperatures
02:30 PM – 02:50 PM	<b>Muhammad Imran</b> Government College University, Lahore, Pakistan. Graphene oxide-based silver Nanoparticles as a promising agent for biomedical, catalytic, electrochemical detection and treatment of water	<b>Unha Tahir</b> University of Agriculture, Faisalabad, Pakistan Synthesis of Orange peels based composites for the efficient removal of 2,4-dichlorophenoxyacetic acid from wastewater	<b>Dr. Zahid Hussain Laghari</b> University of Sindh, Jamshoro-76080, Pakistan Microencapsulation of bioactive components extracted from deodorizer distillate of vegetable oil by spray drying technology	<b>Ammara Abbas</b> Government College University, Faisalabad, Pakistan Fabrication of banana stem biochar-alginate composite for wastewater treatment	<b>Ashfaq Hussain</b> Government College University, Faisalabad, Pakistan Analytical method development and validation for aflatoxin in betelnut	<b>Muhammad Azam,</b> University of Agriculture, Faisalabad-Pakistan Efficacy of soil and foliar applications of chemically synthesized ZnO Nano fertilizer on the morphological and nutritional quality of Zea mays crop: A comparison



<b>02:50 PM – 03:10 PM</b>	<b>Bilal Haider</b> Government College University, Faisalabad, Pakistan  Synthesis of Na-Alginate and Parthenium Biochar Based Composite For Wastewater Treatment	<b>Fida Muhammad</b> Government College University, Faisalabad, Pakistan  Synthesis of Conocarpus leaves biochar-alginate composite for wastewater treatment	<b>Khaqan Ameer</b> Government College University, Faisalabad, Pakistan  Fabrication of walnut shell biochar-alginate composite for wastewater treatment	<b>Asma Sabir</b> Government College University, Faisalabad, Pakistan  Extraction, Modification and Characterization of Pectin From Punica Granatum Peel	<b>Maham Fatima</b> Government College University, Faisalabad, Pakistan  Synthesis of carboxymethyl cellulose metal composites for pharmaceutical applications	<b>Iqra Rani</b> Government College University, Faisalabad, Pakistan  Effect of Maturity Stages On Phenolic Profile, Carotenoid Content and Antioxidant Potential Of Ziziphus Mauritiana
<b>03:10 PM – 03:30 PM</b>	<b>Muhammad Azhar Islam</b> Government College University, Faisalabad, Pakistan Investigation of cadmium stress response and its alleviation by selenium application in Lycopersicon Esculentum phenolics and antioxidant enzymes	<b>Muhammad Zeeshan</b> Government College University, Faisalabad, Pakistan Impact of Cadmium stress on growth, bioaccumulation of heavy metals and antioxidant enzymes in Brassica Oleracea and its alleviation by foliar application of Selenium	<b>Muhammad Muneeb Ahmad</b> Government College University, Faisalabad, Pakistan Amidation and antioxidant activities of Carissa Carandas fruit polysaccharides	<b>Muzammil Hussain</b> Government College University, Faisalabad, Pakistan Cost-effective synthesis and characterization of chitosan functionalized Acacia Nilotica bio-composite for real industrial effluents treatment and significance of RSM model for parametric optimization	<b>Nabeel Shahzad</b> Government College University, Faisalabad, Pakistan Edge functionalization of phosphorene with polythiophene and its optoelectronics properties	<b>Maria Khalid</b> University of Agriculture, Faisalabad, Pakistan Effect Of Economically Viable Chemical Stripping Treatment On Unevenness Of Natural Dyed Cotton Fabric

<b>03:30 PM – 05:00 PM</b>		<b>Concurrent Session Lectures</b>				
<b>Session-A4</b> Organic/Medicinal/Natural Product: <b>Room: Civil auditorium</b>  <b>Chair: Dr. Madiha Irfan</b> <b>Co-Chair: Dr. Shazia Kausar</b>	<b>Session-B4</b> Inorganic/ Material/Nano/Nuclear Chemistry:  <b>Room: CIEN-1.03L</b> <b>Chair: Dr. Muhammad Bilal Tahir</b> <b>Co-Chair: Dr. Farhan Chughtai</b>	<b>Session-C4</b> Physical/Radio/Electro/Computational Chemistry/ Bio/Nutritional/Food/Agricultural Chemistry:  <b>Room: CIEN-1.03R</b> <b>Chair: Dr. Yasir Niaz</b> <b>Co-Chair: Dr. Jaleel</b>	<b>Session-D4</b> Analytical /Environmental /Green Chemistry Applied/Industrial/Polymer/Textile Chemistry:  <b>Room: CIEN-2.03L</b> <b>Chair: Dr. Umair Azhar</b> <b>Co-Chair: Dr. Abid Hussain</b>	<b>Session-E4</b> Biotechnology/Chemical engineering/Biochemistry/Renewable energy  <b>Room: CIEN-2.03R</b> <b>Chair: Dr. Aslam Khan</b> <b>Co-Chair: Dr. Muhammad Arif</b>	<b>Session-E4</b> Organic/Medicinal/Natural Product:  <b>Room: CIEN:</b> <b>Chair: Dr. Tasneem Gul Kazi</b> <b>Co-Chair: Dr. Muhammad Shahid</b>	
<b>Time</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>		



<b>03:30 PM – 04:00 PM</b>	<b>Dr Azeem Rana,</b> University of Management and Technology, Lahore  Electrochemically exfoliated graphene-modified natural gum as a swelling control additive for drilling fluids	<b>Dr. Abdul Rauf,</b> University of Management and Technology, Lahore, 54770, Pakistan  Highly synergistic antibacterial activity of Copper (II)-based Copper (II)-based coordination polymer nanofibers	<b>Atta ul Haq,</b> Government College University Faisalabad, Pakistan  Biosorption of metribuzin pesticide by Cucumber (Cucumis sativus) peels-zinc oxide nanoparticles composite: Kinetic, equilibrium and thermodynamic studies	<b>Dr. Muhammad Ahmad,</b> Not given  Polyelectrolyte multilayers coating of aliphatic polyamide anion-exchange membranes to increase monovalent/divalent anions selectivity in electro dialysis	<b>Muhammad Nadir Saleem</b> Quaid-i-Azam University Islamabad, Pakistan  Detection and Degradation Studies of Nile Blue Sulfate and Ethyl Violet Using Electrochemical and UV-Vis Spectroscopic Techniques	<b>Dr. Shumila Shaheen</b> Government College University, Lahore Pakistan  Synergistic applications of graphene based metal nanocomposite green synthesized by aloe vera extract
<b>04:00 PM – 04:20 PM</b>	<b>Sanam Sadiq</b> Government College University, Faisalabad, Pakistan  Synthesis of fly ash- based zeolites and their photocatalyst- assisted application	<b>Seemab Javed</b> Government College University, Faisalabad, Pakistan  Synthesis of fly ash-based zeolites for metal purging activity from synthetic wastewater	<b>Shahid Sharif</b> Government College University, Faisalabad, Pakistan  Investigation of Heavy Metals Accumulation, Growth and Antioxidant Enzymes in Lycopersicon Esculentum Grown In Tanneries Water Stress and Its Alleviation By Silicon	<b>Talha Murtaza</b> Government College University, Faisalabad, Pakistan  Synthesis of Na-Alginate and Jatropha Curcas Biochar Based Composite For Wastewater Treatment	<b>Zahid Asghar Bajwa</b> Government College University, Faisalabad, Pakistan  Investigation of Antioxidant Enzymes and Bioaccumulation of Heavy Metals in Lycopersicon Esculentum Growth Under Textile Effluent Stress and Its Alleviation By Silicon Treatment	<b>Mushkbar Zahra</b> Government College University, Lahore, Pakistan  A Sustainable Approach for the Multi-dimensional exploitation of mixed Biochar based Nano-Composites
<b>04:20 PM – 04:40 PM</b>	<b>Suraya Samejo</b> University of Sindh Jamshoro Pakistan  Green synthesis of Iron oxide and its Nanobiocomposite for the Adsorptive Removal of Toxic metals from the Drinking water	<b>Dr. Mohammad Afzal,</b> University of Central Punjab  Phytochemical analysis, medicinal and traditional uses of Capparis decidua	<b>Mian Bilal Haider,</b> Not given  Synthesis, characterization, and biological evaluation of novel Pyrazoline- hybrid acyl thiourea analogs	<b>Dr Mohsin Javed,</b> University of Management and Technology, Lahore.  Te-ZnO@S-g-C3N4 Heterojunction with Spatial Charge Separation for Efficient Removal of Organic Pollutant and Inactivation of Pathogens	<b>Dr Bushra Parveen,</b> Rawalpindi Women University, Rawalpindi, Pakistan  Effect of Cobalt and Nickel doping on Physical properties of SnS	<b>Rana Rashad</b> Government College University Lahore, Pakistan, 54000  Biological and photocatalytic degradation of a diazo sulfonated substituted dye: Congo red
<b>04:40 PM – 05:00 PM</b>	<b>Dr. Sohail Nadeem,</b> University of Management and Technology Lahore,  Acrylic acid-functionalized cellulose diacrylate-carbon nanocomposite thin film, preparation, characterization and its applications	<b>Dr. Hamid Raza,</b> University of Management and Technology, Lahore  Integration of Cu-based MOF with polysulfone to prepare mixed-matrix membranes for carbon capture applications from post combustion gas	<b>Muhammad Ishtiaq Jan,</b> Kohat University of Science and Technology, Kohat, Pakistan  Serum and Hematological Changes In Hypertensive, Diabetic and Cardiac Patients As a Rapid Diagnostic Markers For Covid-19	<b>Dr. Manzar Zahra,</b> Lahore Garrison University, Lahore, Pakistan  Improving Mechanical and Thermal Resilience in Selected Thermoplastic Polymeric Matrices	<b>Dr. Muhammad Riaz</b> University of Central Punjab, Lahore 54000, Pakistan  HPLC, LC-MS analysis, evaluation of the antioxidant, thrombolytic, hemolytic, and antimicrobial activity of Raphanus sativus leaves extracts	<b>Nazia Rasool</b> Government College University, Lahore, Pakistan  Evaluation of essential oil extracted from ginger, cinnamon and lemon leaves for antioxidant and biological activities



**5:00PM-7:00PM**

**Cholistan Desert Tour**

**PROGRAM OF THE 2<sup>nd</sup> DAY IS FINISHED**



## 20<sup>th</sup> International and 32<sup>nd</sup> National Chemistry Conference

on "Chemical Sciences and  
Sustainable Development Goals"

**Conference Dates:  
November 2-4, 2022**



Patron in Chief  
**Prof. Dr. Muhammad Suleman Tahir**  
Vice Chancellor-KFUEIT

**Organized by:**  
Khwaja Fareed University of Engineering  
and Information Technology  
and  
The Chemical Society of Pakistan

### Tentative Schedule of the Conference

Day 3 November 04, 2022 (Friday)	
9:00AM – 09:30 AM	Plenary Lectures (Conference Hall)
Chair:	Dr. Khalid M. Khan
Co-Chair:	Dr. Syed Tufail Hussain Shirazi
Time	Speaker /Title
Plenary Lectures	
9:00AM – 9:30 AM	<b>Functionalized Materials in Diversified Diagnostic Strategies</b> <i>Prof. Dr. M. Najam-ul-Haq</i> Bahauddin Zakariya University, Multan Pakistan
09:30 AM – 12:45 PM	<b>Concurrent Session Lectures</b>





<b>Session-A3</b> Organic/Medicinal/Natural Product: <b>Room: Civil auditorium</b> <b>Chair: Dr. Madiha Irfan</b> <b>Co-Chair: Dr. Aslam Khan</b>		<b>Session-B3</b> Inorganic/ Material/Nano/Nuclear Chemistry: <b>Room: CIEN-1.03L</b> <b>Chair: Dr. Muhammad Sagir</b> <b>Co-Chair: Dr. Naeem Akhtar Qaisrani</b>		<b>Session-C3</b> Physical/Radio/Electro/Computational Chemistry/ Bio/Nutritional/Food/Agricultural Chemistry: <b>Room: CIEN-1.03R</b> <b>Chair: Prof. Dr. Haq Nawaz Bhatti</b> <b>Co-Chair: Dr. Shahzad Ali Shahid Chatha</b>		<b>Session-D3</b> Analytical /Environmental /Green Chemistry Applied/Industrial/Polymer/Textile Chemistry: <b>Room: CIEN-2.03L</b> <b>Chair: Prof. Dr. Shahzad Murtaza</b> <b>Co-Chair: Prof. Dr. Saeed Gul</b>		<b>Session-E3</b> Biotechnology/Chemical engineering/Biochemistry/Renewable energy <b>Room: CIEN-2.03R</b> <b>Chair: Prof. Dr. Abdullah Ijaz Hussain</b> <b>Co-Chair: Prof. Dr. Tajnees Pirzada</b>	
<b>Time</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>	<b>Speaker and Title</b>
<b>09:30 AM – 10:00 AM</b>	<b>Prof. Dr. Haq Nawaz Bhatti</b> University of Agriculture, Faisalabad-Pakistan  Microalgal mediated bioremediation of wastewater: A sustainable route for the removal of pollutants	<b>Dr. Muhammad Akhyar Farrukh</b> University of Central Punjab Lahore  Optimization of reaction parameters for the synthesis of nanomaterials and Development of nanoproducts for commercialization	<b>Prof. Dr. Syed Tufail Hussain Shah</b> University of Sindh, Jamshoro  Unsaponifiable Part of Vegetable Oil Deodorizer Distillate: A Novel Capping and Reducing Agent for Fabrication of the Silver Nanoparticles	<b>Prof. Dr. Tasneem Gul Kazi</b> University of Sindh, Jamshoro  Exposure of toxic element via facial cosmetics	<b>Dr. Muhammad Tariq</b> Bahauddin Zakariya University, Multan  Synthesis, characterization, biological screening and catalytic application of organotin(IV) Carboxylates				
<b>10:00 AM – 10:20 AM</b>	<b>Anfal Munir,</b> Government College University, Lahore, Pakistan  Amalgamation, scrutinizing, and biological evaluation of the antimicrobial aptitude of thiosemicarbazide Schiff bases derivatives metal complexes	<b>Affifa Tajammal,</b> University of the Punjab, New Campus, Lahore, Pakistan;  Synthesis, antioxidant, in silico and computational investigation of 2,5-dihydroxyacetophenone derived chloro-substituted hydroxychalcones, hydroxyflavanones and hydroxyflavindogenides	<b>Aemin Ali,</b> Government College University, Lahore, Pakistan  Synthesis, characterization, and biological studies of Schiff base derivative of 4-dimethylaminobenzaldehyde metal complexes	<b>Adnan Amjad,</b> University of Management and Technology, Lahore, Pakistan  Binary ZnFe <sub>2</sub> O <sub>4</sub> /S-g-C <sub>3</sub> N <sub>4</sub> heterojunction enriching spatial charge carrier separation for efficient removal of organic pollutants under sunlight irradiation	<b>Saima Perveen</b> University of Sindh, Jamshoro Pakistan,  Electrochemical Detection of Paracetamol by Biosynthesized Na <sub>2</sub> Fe <sub>4</sub> O <sub>7</sub> /glassy carbon electrode				



<b>10:20 AM – 10:40 AM</b>	<b>Dr. Saifullah Bullo</b> The Begum Nusrat Bhutto Women University Sukkur, Sindh, Pakistan  Inorganic nanolayers as the drug delivery vehicles for the Anti-Tuberculosis Drugs	<b>Komal Shahzadi</b> University of Agriculture, Faisalabad-Pakistan  Spectrophotometric Method Development and Validation of Moxifloxacin In solid dosages	<b>Muhammad Saleem</b> Ghazi University Dera Ghazi Khan-32200 Punjab Pakistan  Synthesis and Molecular Docking Studies of 2, 4, 6-Triarylpyridine Analogues as Antibacterial and Anti-urease agents	<b>Hina Memon</b> University of Sindh, Jamshoro  Impact of blending and ratio of different oils on the frying performance	<b>Ayaz Ali Memon</b> University of Sindh, Jamshoro, Sindh Pakistan  Bio-Inspired synthesis of Highly Stable silver nanoparticles using base hydrolyzed extract of wheat flour: A high impact Antimicrobial agent against microorganisms
<b>10:40 AM – 11:00 AM</b>	<b>Dr. Sadaf Sarfraz,</b> Lahore Garrison University, Lahore, Pakistan  Extraction of Chromium (III) ions using a synergistic green membrane having a binary combination of D2EHPA and Kerosene	<b>Ghulam Shabir,</b> QAU, Islamabad  Tuning the Aggregate Induced Emission of Smart Push-pull Luminophores to the Far-red /NIR through Variation of the Electron-Acceptor Group	<b>Hazqail Umar Khan,</b> Government College University, Lahore, Pakistan  Calotropis gigantea leaves extract as potent biological agent	<b>Iqra Zubair Awan</b> University of the Punjab, Lahore, Pakistan  Layered Double Hydroxides and their Mixed Oxides for the Removal of Arsenic from Drinking Water	<b>Khalida Naseem,</b> University of Central Punjab Lahore, Pakistan  Core@shell hybrid microgel nanocatalyst for the reduction of toxic dyes
<b>11:00 am -1:00 pm</b>	<b>Closing Ceremony</b>				



## Poster Presentations

Poster Number	Presenter	Affiliation	Title
P 1	<b>Faiza Saleem</b>	University of Karachi, Karachi-75270, Pakistan	Pyridines as potential and dual inhibitors of $\alpha$ -amylase and $\alpha$ -glucosidase enzymes: Synthesis, characterization, in vitro, in silico, and kinetics studies
P2	<b>Mehwish Solangi</b>	University of Karachi, Karachi-75270, Pakistan	University of Karachi, Karachi-75270, Pakistan
P3	<b>Sara Saleem</b>	The Islamia University of Bahawalpur, Pakistan	Extraction of beta carotene and analysis of different components from carrots by physicochemical methodology
P 4	<b>Zehra Amjad</b>	University of Management and Technology, Lahore-54770, Pakistan.	Comparative Study of Egg White Mediated Synthesis of Metallic Oxide Nanoparticles
P 5	<b>Faiqa Arshad</b>	University of Management and Technology, Lahore-54770, Pakistan	Comparison of Photo-Catalytic Efficiency of Ni-ZnO Nanocomposites for Dye Degradation
P 6	<b>Sana Mansoor</b>	University of Management and Technology, Lahore-54770, Pakistan	Fabrication of MnO-GO-Ag Nanocomposite and Evaluation of its Biological Activities
P 7	<b>Sehrish Afzal</b>	University of Management and Technology, 54770, Lahore, Pakistan	Comparison of Synthesis Methods of Gold Nanowires
P 8	<b>Sadia Khatoon</b>	Federal Urdu University of Arts, Science and Technology Karachi, Pakistan	Green Synthesis of Lysophosphatidylcholine Containing n-3 Polyunsaturated Fatty Acid by Enzyme



P 9	<b>Shehryar Hameed</b>	University of Karachi, Karachi-75270, Pakistan	Hydrazinyl thiazole linked indenoquinoxaline hybrids: Potential leads to treat hyperglycemia and oxidative stress; Multistep synthesis, $\alpha$ -amylase, $\alpha$ -glucosidase inhibitory and antioxidant activities
P10	<b>Madaraqa Aftab</b>	University of Management and Technology, Lahore-54782, Pakistan	Electrochemical Reduction of CO <sub>2</sub> through Metal Sulphide Nanomaterials- A Comparative Study
P11	<b>Saba Ali</b>	University of Sindh, Jamshoro Pakistan	Plant Material protected Cobalt oxide Nanoparticles: A Sensitive Electrocatalyst for Tramadol Detection
P12	<b>Rabia Akram Bajwa</b>	University of the Punjab, Lahore, Pakistan	ZIF-67/rGO Based Carbon Paste Electrode for Metoclopramide Hydrogen Chloride
P13	<b>Masood Rehman Halepoto</b>	University of Sindh, Jamshoro 76080, Pakistan	Evaluation of Capacitive Performance and Characterization of Prepared Black Phosphorus
P14	<b>Komal Uris</b>	University of Agriculture, Faisalabad-Pakistan	Green Synthesis, morphological and optical studies of Zinc Oxide (ZnO) Nanoparticles and their Application



P15	<b>Komal Shah</b>	University of Sindh Jamshoro Pakistan 76080	Green Synthesis of Copper Oxide Nanoparticles via <i>Prosopis glandulosa</i> for removal of Eriochrome black
P16	<b>Ali Hyder</b>	University of Sindh, Jamshoro Pakistan	Highly Efficient Graphene Oxide-based Functionalized Membranes for Removal of Toxic Dyes, Salts and Heavy Metal ions from Water
P17	Shoaib Ahmed	Not mentioned	Leaching of phthalates from medical devices
P18	Noor Zaman	University of Sindh Jamshoro	Synthesis & Characterization of Organoclay Reinforced Polyester Based Nanocomposite Materials
P19	Nida Yasmeen	Government College University, Faisalabad, Pakistan	Bioactivity-guided extraction of flavonoids from <i>Atriplex crassipes</i>
P20	Arifa Khanam	Government College University Faisalabad, Faisalabad 38000, Pakistan	Variation in Phenolic Profile, Antioxidant, and Anti- Inflammatory Activities of <i>Salvadora oleoides</i> Decene. and <i>Salvadora persica</i> L. Fruits and Aerial Part Extracts
P21	Neelam Iftikhar	Government College University, Lahore, Pakistan	Antioxidant, Anti-obesity and Hypolipidemic Effects of Star Anise ( <i>Illicium verum</i> ) Polyphenols in High-Fat- Sugar Diet-induced Obesity Rat Model

