

ICSS-2026



21ST
INTERNATIONAL
CONGRESS OF
**SOIL
SCIENCE**



**SOIL RESILIENCE
FOR SUSTAINABLE
DEVELOPMENT**



Rawalakot, Azad
Jammu & Kashmir



**Scientific Program
(Tentative)**

**Jointly
Organized by:**



Soil Science Society
of Pakistan



Faculty of Agriculture, University
of Poonch Rawalakot, AJ&K

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Technical Program

Day-1	
May 05, 2026 (Tuesday)	
Inaugural Session	
8.00-9-45	Registration
09:45	Guests to be seated
10:00	Recitation from the Holy Quran
10:05	Welcome Address Prof. Dr. Kaleem Abbasi (Ex-President SSSP, EX-VC UPR & UAJKM)
10:10	Keynote Address by Prof. Dr. Azeem Khalid, President, Soil Science Society of Pakistan
10:25	Students’ Gold Medals Award Presentation Ceremony
10:35	Research Idea Award & Society Awards Presentation
10:45	Acknowledgement of Sponsors/Services Dr. M. Tariq Siddique (Ex-General Secretary SSSP)
10:50	Message by the Industrial Representative
10:55	Address by Vice Chancellor, University of Poonch, Rawalakot, AJK
11:05	Address by the Chief Guest
11:20	Presentation of Memento to Chief Guest
11:25	Vote of Thanks by Prof. Dr. Imtiaz Hussain (Dean, Faculty of Agriculture UPR)
11:30	Group Photo & Hi-Tea

Day 01, 05th May 2026 (Tuesday) Plenary Session	
12:00 - 13:30	<p>Chairs: Dr. Shahid Mahmood (Ex-President SSSP) Prof. Dr. Zahir Shah, (Ex-President SSSP) Prof. Dr. M. Kaleem Abbasi (Ex-President SSSP) Dr. Fauzia Yousaf Hafeez, (Prof. Retd. COMSATS University, Islamabad) Prof. Dr. Khalid Saifullah Khan, Pro-Vice Chancellor, PMAS-AAUR Prof. Dr. Intiaz Hussain, Dean Faculty of Agriculture., UPR, AJK Rapporteur: Dr. Farrukh Hussain, First Biotech Pvt. Ltd.</p>
1.	<p>Potential Fertilizer Zinc and Boron Requirement in Pakistan is Multiple Times Greater than Their Current Use Level Dr. Abdul Rashid Ex-President SSSP, PAS Fellow and Ex-DG, NARC, PARC, Islamabad</p>
2.	<p>Research Directions in Addressing Climate Change in Pakistan Prof. Dr. Tariq Mahmood Ex-Director ICESCO, Ex-Advisor (R&D) HEC, Ex-Vice Chancellor (UoN), Prof (Retd.) PMAS-AAUR</p>
3.	<p>Bacterial Allelopathy for Resilient Soils and Sustainable Farming Systems Prof. Dr. Zahir Ahmad Zahir Ex-President SSSP, PAS Fellow, Prof (Retd.) UAF, Director ORIC University of Faisalabad</p>
4.	<p>Drylands and Desertification: Insights from the Project “Sustainable Approaches to Land and Water Management in Mediterranean Drylands” Prof. Dr. Mauro Centritto Ex-Director Institute for Sustainable Plant Protection - CNR, Italy</p>
13:30- 14:30	Lunch & Prayer

Day 01, 05 th May 2026, Tuesday Technical Session 1 (14:30-16.00)			
14:30-16.00	<p>1A: Soil Fertility and Plant Nutrition Venue: Hall A <i>Chairpersons</i> Prof. Dr. Nasir Rahim (UPR AJK) Mr. Naseerullah Khan or Representative Fatima Fertilizer Dr. Khalil Ur Rahman, UAE <i>Rapporteur:</i> Prof. Dr. Dost Muhammad, Chairman SES, UAP</p>	<p>1B: Soil Microbiology, Biochemistry and Biotechnology Venue: Hall B <i>Chairpersons</i> Prof. Dr. Zahir A Zahir, UF/UF Dr. Nadeem Tariq (First Biotech, Lahore) Dr. Muhammad Akmal, PMAS-AAUR <i>Rapporteur:</i> Dr. Aqila Shaheen, Chairperson SES, UPR, AJK</p>	<p>1C: Climate Smart Agriculture Venue: Hall C <i>Chairpersons</i> Prof. Dr. Sher Muhammad, Dean Faculty of Sciences, AIU, Islamabad Dr. Atab Naseem or Representative FFC (Sona) Dr. Muhammad Saleem, Deputy Chief Scientist, NIAB Faisalabad <i>Rapporteur:</i> Dr. Shahid Hussain, BZU</p>
	<p>1. Enhancing Nitrogen Use Efficiency in Forage and Potato Production Systems in Boreal Climate <i>Mumtaz Cheema</i> School of Science and the Environment, Memorial University of Newfoundland, Canada (<i>Invited Talk</i>)</p>	<p>Microbial and Enzymatic Drivers of Microplastic Biodegradation in Agricultural Soils: A Systematic Review <i>Siti Suhaila Harith</i> Faculty of Applied Sciences, Universiti Teknologi MARA (UiTM) Cawangan Pahang, Malaysia (<i>Invited Talk</i>)</p>	<p>Climate-Resilient Wheat Production through Integrated Nutrient Management Approaches <i>Javaid Ahmed Shah</i> Nuclear Institute of Agriculture (NIA) Tandojam (<i>Invited Talk</i>)</p>

2.	<p>Pressmud Application Restores Soil Health and Enhances Wheat Productivity in Wastewater-Irrigated Soils <i>Muhammad Imran</i> Soil and Environmental Sciences Division, Nuclear Institute for Agriculture and Biology, Faisalabad (<i>Invited Talk</i>)</p>	<p>Isolation and Characterization of Rice Rhizosphere Microbes for Rice Residues Management <i>Prof. Dr. Hafiz Naeem Asghar</i> Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad (<i>Invited Talk</i>)</p>	<p>Performance Evaluation of Indigenously Developed Enhanced Efficiency Fertilizers under Farmer Field Conditions <i>Aftab Naseem</i> Fauji Fertilizer Company Limited, Commercial Group, Lahore</p>
3.	<p>Soil Carbon and Nitrogen Stocks under Contrasting Land-Use Systems of a Western Himalayan Valley <i>Majid Mahmood Tahir</i> Department of Soil & Environmental Sciences, University of Poonch, Rawalakot</p>	<p>Potentials of Bioactivated Co-Composted Biochar for the Remediation of Chromium and Nickel-Contaminated Soil <i>Allah Ditta</i> Department of Environmental Sciences, Shaheed BB University Sheringal, Upper Dir, Khyber Pakhtunkhwa, Pakistan</p>	<p>Potassium-Mediated Stress Tolerance in Crop Plants: A Climate-Smart Nutrient Strategy for Sustainable Agriculture in Pakistan <i>Ifra Saleem</i> Soil Chemistry Section, ISCES, AARI, Faisalabad</p>
4.	<p>Response of NPK and Zinc Fertilizers Combinations on Growth, Yield and Nutrient Use Efficiency of Upcoming Wheat Genotypes <i>Dr Mahendar Kumar</i> Soil Fertility Research Institute, Agriculture Research Center, Sindh</p>	<p>Enhanced Biodegradation of Microplastic in Soil Using Bacteria Isolated from Mangrove Ecosystem <i>Zainab Bibi</i> Department of Environmental Sciences, PMAS-Arid Agriculture, University, Rawalpindi</p>	<p>Improving Cereals Yield And Productivity With Boron-Fortified Climate-Smart Urea <i>Qudsia Nazir</i> Soil Chemistry Section, AARI, Faisalabad</p>

5.	<p>Organic Vermicompost as a Sustainable Alternative to Chemical Fertilizers for Enhancing Productivity and Oil Quality of Mustard <i>Saibrina Sethar</i></p> <p>Soil Fertility Research Institute, Agriculture Research Center, Tando Jam</p>	<p>Precursor–Inoculum Synergy for Enhanced Glyphosate Degradation and Legumes Performance in Naturally Contaminated Soils <i>Qammar Farooq</i></p> <p>Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad</p>	<p>Influence of Cropping Systems on Soil Organic Carbon Fractions, Aggregate-Associated Carbon, and Nutrient Dynamics in Semi-Arid Drylands of Pakistan <i>Kashif Ali Kubar</i></p> <p>Lasbela University of Agriculture, Water And Marine Sciences, Uthal, Balochistan, Pakistan</p>
6.	<p>Potential Role of Copper Sulphate Foliar Application on Wheat Yield, Quality, and Nutrient Content <i>Khalid Hussain Khokhar</i></p> <p>Soil Fertility Research Institute, Agriculture Research Center, Tandojam</p>	<p>Field-Based Assessment of Nano-DAP as an Alternative Phosphorus Source for Sustainable Maize Production <i>Muhammad Arshad</i></p> <p>Institute of Environmental Sciences and Engineering, NUST, Islamabad</p>	<p>Effect of Different Levels of Nitrogen and Phosphorus on the Growth and Yield of Maize <i>Adeel Waheed Wahocho</i></p> <p>Department of Agronomy, Sindh Agriculture University, Tandojam</p>
7.	<p>Soil-Specific Optimization of Nitrogen and Sulphur Fertilization for Enhanced Maize Growth and Nutrient Use Efficiency <i>Dr Ibad Ullah</i></p> <p>The University of Agriculture, Swat, Pakistan</p>	<p>Integrated Application of Salicylic Acid and Beneficial Bacterial Cultures for Sustainable Mungbean Production under Salinity Stress <i>Laiba Kamal</i></p> <p>Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad</p>	<p>Zinc Extraction from Recycling of Alkaline and Zinc-Carbon Batteries for Agricultural and Environmental Sustainability <i>Abdul Basit</i></p> <p>Department of Agronomy, Engro Fertilizers Limited, Pakistan</p>

8.	<p>Vermicomposting of Rock Phosphate with Phosphate-Solubilizing Microbes: A Climate Smart Strategy for Improving Soil Health and Crop Yield <i>Fazli Wahid</i></p> <p>Soil and Environmental Sciences, The University Of Agriculture, Swat, Pakistan</p>	<p>Developing Climate-Resilient Rice Production Systems through Integrated Biochar, Plant Growth Promoting Rhizobacteria, and Fertilizer Management <i>Dr. Qurban Ali Panhwar</i></p> <p>Nuclear Institute Of Agriculture (NIA), Tandojam</p>	<p>Effect of Foliar-Applied Nano-Hydroxyapatite on Growth and Phosphorus Use Efficiency of Maize under Alkaline Soil Conditions <i>Faisal Zahid</i></p> <p>Sindh Agriculture University, Tandojam</p>
9.	<p>Integrated Soil and Foliar Sulphur Application Enhances Growth, Yield, and Oil Content in Mustard Crop (<i>Brassica Juncea</i>) <i>Muhammad Aslam Panhwar</i></p> <p>Soil Fertility Research Institute, Tandojam</p>	<p>Impact of Gibberellic Acid and Cytokinin in Improving Growth and Physiology of Maize under Drought Stress <i>Muhammad Mueen Akram</i></p> <p>Department of Soil Science, Bahauddin Zakariya University, Multan</p>	<p>Envisaging Spatial and Temporal Changes in Soil Physico-Chemical Properties of Research Farm of the University of Agriculture, Peshawar <i>Muhammad Daud</i></p> <p>Soil And Environmental Sciences, University of Peshawar, Peshawar</p>
10.	<p>Engineering Soil Resilience: A Nano-Enabled Strategy for Rhizospheric Modulation, Stress Alleviation, and Sustainable Soil Health <i>Muhammad Ansar Farooq</i>, IESE, National University of Sciences & Technology (NUST), Islamabad</p>	<p>Synergistic Use of Biochar and Zinc Solubilizing Bacteria under Cadmium Stress in Spinach <i>Muhammad Hanzala Mansha</i></p> <p>Department of Soil Science, The Islamia University of Bahawalpur, Bahawalpur</p>	<p>Influence of Eucalyptus and Hemp Plant Residues on Nitrification Inhibition and Wheat (<i>Triticum aestivum</i> L.) Yield <i>Khalid Mehmood</i></p> <p>Department Of Agronomy, University of Poonch, Rawalakot</p>

11.	<p>The Nitrogen Paradox in South Asia: Balancing Food Security, Climate Mitigation and Environmental Sustainability <i>Tariq Aziz</i></p> <p>Institute Of Soil & Environmental Sciences, University Of Agriculture, Faisalabad, Pakistan</p>	<p>Synergistic Application of Arsenic Resistant Endophytic Bacteria and Ag-Fe-CNTs Composite to Improve Growth and Yield of <i>Zea mays L.</i> in Arsenic Contaminated Soil <i>Rafia Anam Saeed</i></p> <p>Institute of Soil and Environmental Sciences, University of Agriculture Faisalabad</p>	<p>Enhancing Zinc and Phosphorus Use Efficiency through Biochar for Wheat Crop in Calcareous Soil <i>Abida Saleem</i></p> <p>Department of Soil Science, Gomal University, D.I. Khan</p>
12.	<p>Sustainable Nutrient Management of <i>Taxus Wallichiana</i> (Himalayan Yew) of Moist Temperate Forest of Galiyat-Himalayan-KP-Pakistan <i>Samina Siddiqui</i></p> <p>National Centre of Excellence in Geology, University of Peshawar, Peshawar</p>	<p>Stimulating Native Microbial Electrical Networks To Reduce Methane Emissions In Flooded Rice Paddy Soils <i>Abdul Suboor</i></p> <p>PMAS-Arid Agriculture University, Rawalpindi</p>	<p>Integrated Effect of Sugarcane Bagasse Biochar and Vermicompost on Soil Properties and Maize Growth <i>Muhammad Farhan</i></p> <p>Department of Soil Science, PMAS Arid Agriculture University, Rawalpindi</p>
13.	<p>Effect of Graphene Oxide on Growth and Biomass Production of Maize (<i>Zea mays L.</i>) Crop <i>Dr Kashif Ali</i></p> <p>Agriculture Soil Science, Lasbela University of Agriculture, Water and Marine Sciences, Uthal</p>	<p>Unravelling Mechanisms by Which Iron-Doped Silicon Nanoparticles Regulate Uptake, Transport and Detoxification of Cd in Rice <i>Muhammad Kashif Irshad,</i></p> <p>Government College University, Faisalabad</p>	<p>Enhancing Soil Nitrogen through Soybean Cultivation to Improve Soil Health for Sustainable Agriculture <i>Dr Nazia Rais</i></p> <p>Soil & Environment Research Institute, Tandojam</p>

14.	<p>Improving Fertilizer Use Efficiency, Effectiveness, and Sustainability in Rice through 4R Nutrient Stewardship, Enhanced Efficiency Fertilizers, and Biofertilizers <i>Humair Ahmed</i></p> <p>Land Resources Research Institute, NARC, Islamabad</p>	<p>Growth Response of Onion Seedlings to Zinc Solubilizing Bacteria <i>Durshana Khan</i></p> <p>Sindh Agriculture University, Tandojam</p>	<p>Comparative Effects of Pressmud and Conventional Chemical Fertilizers on Wheat (<i>Triticum aestivum</i> L.) Production and Soil Physico-Chemical Characteristics under Field Conditions <i>Saima Kalsoom Babar,</i></p> <p>Department of Soil Science, Sindh Agriculture University, Tandojam</p>
15.	<p>Qualitative Characterization of Different Pearl Millet (<i>Pennisetum glaucum</i> L.) Genotypes for Nutritional Improvement of Fodder <i>Muhammad Ibrar Ahmad,</i> Fodder Research Institute, Sargodha</p>	<p>Evaluating the Efficiency of <i>Centella asiatica</i> L. in Extracting Heavy Metals from Wastewater <i>Dr. Iram Gul</i></p> <p>National University of Sciences and Technology, Islamabad</p>	<p>Synergistic Effects of N-Fertilization on Crop Productivity and Soil Quality in Wheat-Pea Intercropping System <i>Hashir Najeed,</i> Government College University, Faisalabad</p>
16.	<p>Production of Vermicompost for Improving Soil Health and Soybean Growth <i>Ajmal Khan</i></p> <p>PMAS-Arid Agriculture University, Rawalpindi</p>	<p>Rhizospheric Colonization and PGP Trait Expression of <i>Bacillus safensis</i> Strains: A Pathway to Reduce Chemical Use and Environmental Impact <i>Afshan Majeed,</i> University of Poonch, Rawalakot</p>	<p>Tillage and Intercropping Interventions Altered Soil Properties <i>Nadia Sabir,</i> Department of Soil and Environmental Sciences, University of Poonch, Rawalakot</p>
16:30-16:45	Tea Break		

Day 01, 05 th May 2026, Tuesday (16:45-18:00) Technical Session-2			
16:45- 18:00	<p>2A: Soil Fertility and Plant Nutrition Venue: Hall A <i>Chairpersons</i> Dr. Muhammad Akram Qazi, Chief Scientist, Soil Fertility Lahore Mr. Muhamamd Asif Ali, United Agro Chemicals Dr. Abdur Rahim, Chairman Soil Science, BZU <i>Rapporteur:</i> Dr. Muhammad Usman, Assoc. Prof./DSA MNSUAM</p>	<p>2B: Soil Microbiology, Biochemistry & Biotechnology Venue: Hall B <i>Chairpersons</i> Dr. Sarfraz Hussain, Chief Scientist, ISCES, AARI, KSK Mr. Asif Majeed, CEO Evyol Group Multan Dr. Maqshoof Ahmed, Chairman SES, IUB <i>Rapporteur :</i> Dr. Ambrin Baby Rajput, SFI, Tandojam</p>	<p>2C: Climate Change, Soil and Water Conservation Venue: Hall C <i>Chairpersons:</i> Prof. Dr. Abdul Khaliq, UPR AJK Dr. Siti Suhaila Binti Harith Universiti Teknologi, Malaysia Dr. Abdullah Niaz, Pesticide Residue Laboratory, Kala Shah Kaku <i>Rapporteur:</i> Dr. Muhammad Adnan, Uni of Swabi (Councilor, KP)</p>
	<p>Mitigating Abiotic Stress in Crops of Pakistan: The Imperative of Potassium Fertilization for Climate-Smart Agriculture <i>Muhammad Aamer Maqsood, ISES, University of Agriculture Faisalabad, Pakistan. (Invited Talk)</i></p>	<p>Biodegradation of Hydrocarbons and Mitigation of Greenhouse and Toxic Gas Emissions from Anaerobic Environments <i>Tariq Siddique</i> Department of Renewable Resources, University of Alberta, Canada <i>(Invited Talk)</i></p>	<p>Strategies for Enhancing Agricultural and Water Productivity for Ensuring Food and water Security in Middle East Region <i>Khalil Ur Rahman</i> The Private Office of HH, The Ruler of Dubai. UAE <i>(Invited Talk)</i></p>

<p>2.</p>	<p>Humic and Fulvic Acid Integration Improves Phosphorus Availability and Wheat Productivity in Calcareous Soils <i>Siraj Ahmed</i> Department of Soil Science, Sindh Agriculture University, Tandojam</p>	<p>Temporal Dynamics of Soil CO₂ Emissions in Response to Organic Amendment Application <i>Sara</i> Agriculture Research, KPK</p>	<p>Economic Evaluation of Natural Vegetation of Kheri Murat National Park, Tehsil Fateh Jung, District Attock <i>Hafiz Hassan Ali Mian</i> Department of Environmental Sciences, PMAS Arid Agriculture University, Rawalpindi</p>
<p>3.</p>	<p>Nano-Zinc for Cereal Biofortification: Advances, Challenges, and Future Directions <i>Inzamam Ali Jamali</i> Agriculture Extension Wing, Government of Sindh</p>	<p>Phosphate-Solubilizing Bacteria from the Maize Rhizosphere: Potential for Rock Phosphate Utilization and Plant Growth Promotion <i>Muhammad Manzoor</i> Engro Fertilizers (Pvt) Limited</p>	<p>Assessment of Climatic Parameter Variation and Its Impact on Sustainable Agriculture in Dir Upper Pakistan with Mitigation and Adaptation Strategies <i>Riaz Khan</i> Soil and Climate Sciences, University of Haripur, Pakistan</p>
<p>4.</p>	<p>Zinc Dynamics and Accumulation Pattern in Standard and Zn-Biofortified Wheat Cultivars Across Eight Growth Stages under Soil Zinc Application <i>Shahid Hussain</i>, Department Of Soil Science, Bahauddin Zakariya University Multan</p>	<p>River-Polluted Water Transformation into Agronomically Beneficial Vermiwash via Eisenia fetida-based Vermifiltration System and Its Impact on Spinacia oleracea <i>Saiqa Andleeb</i>, University of Azad Jammu and Kashmir, Muzaffarabad, Pakistan</p>	<p>Evaluating Cotton Genotypes for Heat Stress Tolerance through Physiological and Yield Metrics <i>Bushra Urooj Panhwar</i> Pakistan Central Cotton Committee, Multan</p>

5.	<p>Enhancing Fruit Retention and Fiber Quality in Cotton through Combined Boron and Silicon Supplementation under Controlled Temperature Stress <i>Abdullah Keerio</i></p> <p>Central Cotton Research Institute, Sakrand</p>	<p>Alternative Growth Media for Culturing Bacillus Spp. to Enhance Wheat Growth and Productivity <i>Muhammad Usman Jamshaid, Muhammad Nawaz Shareef</i></p> <p>University of Agriculture, Multan</p>	<p>Impact of Climate Change on Soil Microbial Diversity under Organic Farming Systems <i>Aqeel Ahmad</i></p> <p>Department of Agronomy, Faculty Of Agriculture, University of Poonch, Rawalakot</p>
6.	<p>Nutrient Status of Citrus and Guava Fruits Grown in Alkaline Calcareous Soils of Punjab <i>Nisa Mukhtar</i></p> <p>Ayub Agricultural Research Institute, Faisalabad</p>	<p>Enhancing Viability and Storage Stability of Bacillus and Rhizobium Bio-Inoculants for Sustainable Agriculture <i>Javed Iqbal</i></p> <p>MNS University of Agriculture, Multan</p>	<p>Effect of Different Nitrogenous forms During Crop Residue Management on Soil Microbial Activities and GHG Emissions <i>Ahmad Mujtaba</i></p> <p>Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad</p>
7.	<p>Nano-Engineered TiO₂ and Fe₃O₄ Fertilizers: A Sustainable Strategy for Crop Yield Enhancement and Microbial Control in <i>Capsicum annuum</i> <i>Aamna Balouch</i></p> <p>National Centre of Excellence in Analytical Chemistry, University of Sindh, Jamshoro</p>	<p>Screening of Native Rhizobial Isolates for Symbiotic Effectiveness and Plant Growth Promotion in Common Bean <i>Tehmina Zafar</i></p> <p>University Of Poonch, Rawalakot</p>	<p>Biodiversity Conservation and Sustainable Utilization of Wild Rubus Species in the Himalayan Region of Pakistan <i>Mehdi Maqbool</i></p> <p>University of Poonch, Rawalakot</p>

8.	<p>Integrated NP Management for Sustainable Soil Fertility and Crop Productivity <i>Muhammad Adnan</i> University of Swabi</p>	<p>Thermotolerant Bacillus and Alcaligenes Improve Physiological and Yield Attributes of Wheat under Heat Stress Conditions <i>Muhammad Baqir Hussain,</i> MNS University of Agriculture, Multan</p>	<p>Growth Response of Ziziphus mauritiana as Impacted by Water Stress <i>Rizwan Khan</i> Forestry Range and Wildlife, Ghazi University, Dera Ghazi Khan</p>
9.	<p>Physio-Chemical Characterization of District Swabi Soils <i>Hamza Zaman</i> Department of Soil Science, University of Swabi</p>	<p>Impact of PGPR and Nutrient-Enriched Compost on Growth Parameters of Maize under Pot Trial Conditions <i>Rana Asad Jabbar</i> The Islamia University of Bahawalpur, Bahawalpur</p>	<p>Influence of Surface Residue Cover on Soil Erosion Dynamics in a Maize Wheat Cropping System: Field Measurements Versus RUSLE-Based Estimates <i>Nadia Afsar</i> Department of Soil and Environmental Sciences, University of Poonch, Rawalakot, AJK</p>
10.	<p>Integrated Nitrogen and Phosphorus Management for Improving Wheat Productivity and Soil Health <i>Abdul Basir</i> University of Swabi</p>	<p>Accumulation of Arsenic in Response to Bacterial Inoculation under Wastewater Irrigation <i>Asia Naeem</i> Soil and Environmental Sciences, College of Agriculture, University of Sargodha, Sargodha</p>	<p>Canal Irrigation System Management: Global Lessons for Improving Efficiency and Equity <i>Nida Maqbool</i> Institute Of Environmental Sciences and Engineering (IESE), National University of Sciences and Technology (NUST), Islamabad</p>

11.	<p>Digital Mapping of Soil Fertility Parameters in Adaptive Research Cum Demonstration Institute Matora, Lakki Marwat <i>Huma Aziz</i></p> <p>Pakistan Agricultural Research Council, Islamabad</p>	<p>Optimizing Soil and Crop Health through Reclamation of Poor-Quality Irrigation Water Using Bio Amendments <i>Muhammad Hamza Khalil</i>, Institute of Soil and Environmental Sciences, University of Agriculture, Faisalabad</p>	<p>Assessing the Impact of Darawat Dam on Vegetation, Land Use/Land Cover, and Soil Fertility: A Temporal Analysis of The Command Area <i>Osama Shaikh</i></p> <p>US-Pakistan Center for Advance Studies in Water, Mehran University of Engineering and Technology, Jamshoro, Sindh</p>
12.	<p>Humic Acid Treated Acidified Rock Phosphate Enhances Phosphorus Diffusion, Availability and Use Efficiency in Alkaline Soil Conditions <i>Dost Muhammad</i></p> <p>The University of Agriculture, Peshawar</p>	<p>Impact of Microbially Enriched Vermicompost in Various Combinations on Growth and Yield of Garlic <i>Muhammad Rizwan Khan</i></p> <p>The University of Peshawar, Peshawar</p>	<p>Synergistic Effects of Reduced Tillage and Leguminous Green Manure on Soil Carbon Fractions, Nutrient Content and Crop Yield under Semi-Arid Conditions <i>Mah-Noor Azad</i></p> <p>Institute of Soil and Environmental Sciences, PMAS-AAUR</p>
13.	<p>Synthesis of Boron-Chelated Humic Acid and Its Effect on Maize Yield as Foliar Spray and Soil Application <i>Maria Mussarat</i></p> <p>The University of Agriculture, Peshawar</p>	<p>Mitigation of Heavy Metal Toxicity in Maize Crop by Spent Mushroom Substrate Biochar and Plant Growth Promoting Rhizobia under Contaminated Soil <i>Khadim Dawar</i>, The University of Agriculture, Peshawar</p>	<p>Field Experiments to Estimate Hydraulic Soil Erosion in Pothwar <i>Shahzada Sohail Ijaz</i></p> <p>Institute of Soil & Environmental Sciences, PMAS-Arid Agriculture University, Rawalpindi</p>

14.	<p>Comparative Study on Zn-HA: Boosting Maize Early Growth, Root, Shoot Biomass, and Zn Uptake via Soil and Foliar Application, and Seed Priming in Alkaline Soils <i>Javaid Hassan</i> The University Of Agriculture, Peshawar</p>	<p>Inducing Drought Tolerance in Wheat Genotypes through Microbial Biostimulants under Water Deficit Conditions <i>Hafiz Muhkam Hammad</i> MNS University Of Agriculture Multan</p>	<p>Green Synthesis of Carbon Nanotubes Using Rice Stubble-Derived Biochar as a Sustainable Carbon Source <i>Waqar Ahmed Pahore</i> National University of Sciences and Technology (NUST), Islamabad</p>
15.	<p>Influence of Different Levels of Silicon Applied to Soil and Foliar Application with Various Levels of Nitrogen on Yield and Yield Parameters of Wheat <i>Zobia Jama</i> Soil and Environmental Science, University of Agriculture, Peshawar</p>	<p>Harnessing Soil Microbiome and Nanobiotechnology to Improve Wheat Productivity under Drought Stress <i>Noshin Ilyas</i> PMAS-Arid Agriculture University, Rawalpindi</p>	
19:30-22:00	<p>Gala Night and Dinner Dinner followed by Cultural Performances of Students and Sufi Night</p>		

Day 02, 6th May 2026, Wednesday (09:00-11:00)

Technical Session-3

09:00-11:00	<p>3A: Soil Fertility and Plant Nutrition Venue: Hall A Chairpersons Prof. Dr. Anawar ul Haq, UAF Dr. Nizamuddin Debar, (VP, SSSP, Sindh), Nuclear Institute of Agriculture, Tandojam Mr. Ijaz Ahmed, ENGRO Rapporteur: Dr. Saima Kalsoom Babar, SAU Tandojm</p>	<p>3B: Soil Salinity and BioSaline Agriculture Venue: Hall B Chairpersons Prof. Dr. Fauziah Shahul Hamid, Universiti Malaya, Malaysia Prof. Dr. Tanvir Shahzad, Director ORIC, GCUF Dr. Abdul Basir, Chairman Department of Agriculture, University of Swabi Rapporteur: Dr. Nisa Mukhtar, Scientific Officer, ISCES, AARI Faisalabad</p>	<p>3C: Climate Change Venue: Hall C Chairpersons Dr. Muhammad Ashraf, Chairman SES, UOS Mr. Ghulam Ahmad Pr�sident APFDA Dr. Jam Niaz Ahmed, Former Vice President SSSP Rapporteur: Dr. Shahid Mahmood PMAS-AAUR</p>
	<p>1. The Impact of Soil Resilience on Food Security in Pakistan: A Case Study of Challenges and Opportunities Dr. Zafar Ahmed Siddiqui Director, ORIC ISRA University, Hyderabad, Sindh (<i>Invited Talk</i>)</p>	<p>Management Strategies for the Efficient Use of Salt Affected Soils and Poor Quality Water for Meeting Food Security in Semiarid Climates Muhammad Ashraf Department of Soil and Environmental Sciences, College of Agriculture, University of Sargodha, Sargodha, Pakistan (<i>Invited Talk</i>)</p>	<p>Synergistic Effects of Biochar and Biostimulants on Soil Water Retention and Plant Drought Resistance across Soil Textures Muhammad Ayaz, Development of the Bioeconomy Research Centre of Excellence (BIOTEC), Vytautas Magnus Univeristy, Lithuania (<i>Invited Talk</i>)</p>

2.	<p>Climate-Smart Innovations in Vulnerable Agro-Ecosystems through Integrated Nutrient Management <i>Abid Niaz</i> Soil Chemistry Section, Institute of Soil Chemistry and Environmental Sciences, Ayub Agricultural Research Institute, Faisalabad (<i>Invited Talk</i>)</p>	<p>Advanced Remote Sensing Surveillance for Sustainable Soil and Water Management <i>Mohamed Hosny Hassan Abdelkader</i> Agricultural Research Center – Ministry of Agriculture and Land Reclamation, Egypt (<i>Invited Talk</i>)</p>	<p>Improved Production Technologies for Oil Palm in Coastal Sindh and Baluchistan to Enhance Soil Resilience and Support Edible Oil Self-Sufficiency <i>Allah Wadhayo Gandahi</i> Department of Soil Science, Sindh Agriculture University, Tandojam (<i>Invited Talk</i>)</p>
3.	<p>Assessing Zinc Requirement of Newly Developed Wheat Variety “NWB-50” <i>Ghulam Fareed</i> Department of Soil Science, Sindh Agriculture University, Tandojam</p>	<p>Role of Compost for the Conservation of Water to Evaluate Ecological Intensification and Yield Forecasting of Wheat under Changing Climate Scenarios <i>Muhammad Anwar-Ul-Haq</i> Institute of Soil and Environmental Sciences, University of Agriculture Faisalabad</p>	<p>Improving Soil Health through Regenerative Agriculture Approaches in Cotton-Wheat Cropping System <i>Hafiz Muhammad Waleed Iqbal</i> Department of Agronomy, MNS University of Agriculture, Multan</p>
4.	<p>Recycling Banana Pseudostem Waste into Biochar and Compost for Sustainable Crop Production <i>Azam Solangi</i> Sindh Agriculture University, Tandojam</p>	<p>Biochar Application Enhances Chemical Properties and Nutrient Availability in Saline-Alkali Soils: A Meta-Analysis <i>Mukesh Kumar</i>, Soil Fertility Research Institute, Agriculture Research Centre, Tandojam</p>	<p>Effects of Irrigation Water Quality on Soil Properties, Nutrient Uptake, and Wheat (<i>Triticum aestivum</i> L.) Productivity under Semi-Arid Conditions in South Punjab, Pakistan <i>Muhammad Imran</i>, MNS-University of Agriculture, Multan</p>

5.	<p>Spatial Assessment of Organic Carbon Stocks in Urban Green Spaces on Medium Textured Soils <i>Muhammad Shaheer Faiz</i> Government College University, Faisalabad</p>	<p>Operational Soil Salinity Monitoring in Monsoon-Irrigated Basins: Open-Source SAR-Optical Fusion Workflow for Drought Resilience and Yield Forecasting Rechna Doab, Punjab: Case Study (2015–2025) <i>Raiha Fatima Sheikh</i> Centre for Geographical Information System, University of The Punjab, Lahore</p>	<p>Enhancing Crop Productivity through Climate-Resilient Approach Using Salicylic Acid under Water Deficit Conditions <i>Dr. Ana Aslam</i> Ayub Agricultural Research Institute, Faisalabad</p>
6.	<p>Mitigating Premature Fruit Drop in Apple through Targeted Magnesium and Boron Nutrition in Azad Jammu and Kashmir <i>Dr Noosheen Zahid</i> University of Poonch, Rawalakot</p>	<p>Harnessing Salt-Tolerant Rhizobacteria to Improve Salinity Tolerance in Canola (Brassica napus) <i>Aftab Tabasum</i> Department of Soil Science, PMAS UAAR</p>	<p>Evaluation of Biochar-Coated Urea for Improving Nitrogen Efficiency and Wheat Yield <i>Amina Kalsom</i> Ayub Agricultural Research Institute, Faisalabad</p>
7.	<p>Assessment of Soil Physico-Chemical Properties of Mastung and Musakhail Districts, Balochistan <i>Dr Kashif Ali</i>, Department of Soil Science, Lasbela University of Agriculture, Water and Marine Sciences, Uthal</p>	<p>Salicylic Acid Enhances Growth and Yield of Pea (Pisum sativum L.) under Saline Conditions <i>Abdullah Shahid</i> Department of Agronomy, University of Swabi</p>	<p>Impact of Management Practices on Available Phosphorus and Potassium in Lasbela <i>Qamar Sarfaraz</i>, Lasbela University of Agriculture Water & Marine Sciences, Uthal</p>

8.	<p>Growth Inhibition and Stress Physiology Alterations in Wheat Exposed to Chromium Toxicity <i>Fozia Allah Ditta</i></p> <p>Government College University, Faisalabad</p>	<p>Biochar Improves Soil Properties and Wheat Growth under Saline Conditions: A Growth Chamber Study <i>Adeel Ahmad</i></p> <p>Department of Agriculture, University of Swabi</p>	<p>Can Compost Buffer Wind Stress? Impacts of Wind Velocity on Growth and NPK Uptake in Maize (Zea mays L.) <i>Asif Ali Mastoi</i></p> <p>Sindh Agriculture University, Tandojam</p>
9.	<p>Evaluation of Natural and Synthetic Nitrification Inhibitors For Regulating N Transformations, Nitrification Inhibition, and their Potential Use in Crop Production <i>Almas Khizer</i></p> <p>University of Poonch, Rawalakot</p>	<p>Response of Various Exotic and Local Wheat Lines/Varieties to Natural Field Salinity under Diverse Agro-Climatic Conditions <i>Waseem Jan</i></p> <p>Department of Soil and Environmental Sciences, University of Peshawar, Peshawar</p>	<p>Maize Cultivation and Consumption Practices in Azad Jammu and Kashmir: Insights from Farmers <i>Jahanzaib Shahzad</i></p> <p>University of Poonch, Rawalakot</p>
10.	<p>Unraveling the Effect of Synthetic and Biodegradable Micro-Plastic on Plant Growth and Soil Biochemical Functions <i>Fatima</i></p> <p>Government College University, Faisalabad</p>	<p>Exploring the Potential of Quinoa as a Food Security Crop for Salt-Affected and Dry Land Farming Systems <i>Dr. Ghulam Abbas</i></p> <p>Department of Biosciences, COMSATS University, Islamabad</p>	<p>Climate-Resilient Nursery Techniques Improve Establishment and Productivity of Rice Varieties <i>Zahoor Palijo</i></p> <p>Department of Agronomy, Sindh Agriculture University, Tandojam</p>

<p>11.</p>	<p>Growth and Selenium Uptake in Maize as Influenced By Nitrogen Sources and Application Rates in Selenium-Amended Soil <i>Muhammad Imran</i> NIAB, Faisalabad</p>	<p>Soil and Maize Resilience Enhancement for Sustainable Development by Osmolytes to Mitigate Salt Stress in Changing Climate <i>Inam Irshad</i> Department of Soil and Environmental Sciences, University of Sargodha, Sargodha</p>	<p>Remote Sensing-Based Evaluation of Wheat Cultivars and Nitrogen Management Using Normalized Difference Vegetation Index <i>Dr. Rifat Sultana</i> Ghazi University, Dera Ghazi Khan</p>
<p>12.</p>	<p>An Evaluation of the Effectiveness of Nano-Silicon Derived from Rice Husks as a Fertilizer for Wheat Production and Phosphorous use Efficiency <i>Hassan Ali Shujrah</i> J-Fertilizers (Pvt.) Ltd.</p>	<p>Role of Halopriming in Improving Physiological Responses and Yield of Wheat under Salt Stress <i>Yousaf Jamal</i> University of Swabi</p>	<p>Interactive Controls of Climatic Conditions, Soils' Physicochemical Properties, and Quality of Residue Inputs on Priming Effect of Soil Organic Matter <i>Tanvir Shahzad</i> Department of Environmental Sciences, Government College University, Faisalabad</p>
<p>13.</p>	<p>Soil Health Improvement through Green Manuring in Rice-Berseem Rotation under Calcareous Soils <i>Raheela Naz</i>, Institute of Soil Chemistry & Environmental Sciences, AARI, Faisalabad</p>	<p>Evaluating the Impact of Managed Aquifer Recharge on Groundwater Quality in Semi-Arid Climate <i>Muhammad Zahid</i>, Department of Soil and Environmental Sciences, University of Sargodha, Sargodha</p>	<p>Assessment of Effect of Raw City Effluents on Concentration of Potentially Toxic Heavy Metals and Soil Enzymes In Peri-Urban Areas <i>Muhammad Sabir</i>, Institute of Soil and Environmental Sciences, UAF</p>

14.	<p>Comparative Effects of Conservation and Conventional Tillage Systems on Soil Physicochemical Properties under Maize in Alkaline Calcareous Soils of Faisalabad <i>Farah Rasheed</i>, Institute of Soil Chemistry and Environmental Sciences, AARI Faisalabad</p>	<p>Selection and Characterization of Advanced Wheat Mutants for Yield Improvement in Saline Environment <i>Sajida Bibi</i> Nuclear Institute for Agriculture & Biology, Faisalabad</p>	<p>Wheat Growth, Yield and Postharvest Nutrient Status in Relation to Phosphorus and Sulphur in Alkaline-Calcareous Soils <i>Inzamam Ul Haque Khanzada</i> Soil & Environment Research Institute, Tandojam, Sindh</p>
15.	<p>Response of Wheat to Phosphate Fertilizer Sources in Multi-Location Trials <i>Muhammad Saleem</i> NIAB, Faisalabad</p>	<p>Evaluation of Maize (<i>Zea mays</i> L.) Genotypes for Salinity Tolerance by Using Line × Tester Analysis <i>Naeem Akhtar</i> College of Agriculture, University of Sargodha, Sargodha</p>	<p>Wastewater Reuse in Agriculture: Effects on Soil Health and Spinach Growth <i>Mohibe</i> Soil and Environmental Sciences, University of Agriculture, Faisalabad</p>
16.	<p>Legume-Based Diversified Cropping Systems Increase Soil Organic Carbon Labile Pools and Microbial Carbon Use Efficiency under Long-Term Field Trial <i>Muhammad Nadeem Ashraf</i> University of Agriculture, Faisalabad</p>	<p>Genetic Evaluation of Quantitative Traits in Segregating Generations of Okra under Salt Stress <i>Ikram-Ul-Haq</i> College of Agriculture, University of Sargodha, Sargodha</p>	<p>Effect of Phosphorus Fertilization on Micronutrients Availability and Uptake in Maize Grown in Alkaline-Calcareous Soil <i>Farmanullah Khan</i>, Directorate General Soil and Water Conservation, Khyber Pakhtunkhwa, Pakistan</p>
11:00-11:20	Tea Break		

Day 02, 6th May 2026, Wednesday (11:20-13:30)

Technical Session-4

Day 02, 6 th May 2026, Wednesday (11:20-13:30)			
Technical Session-4			
11:20-13:30	<p>4A: Soil Fertility and Plant Nutrition Venue: Hall A <i>Chairpersons</i> Prof. Dr. Tanveer ul Haq, MNSUA Multan Prof. Dr. Abdul Wakil, ISES, UAF Dr. Qurban Ali Panhwar, NIA Tandojam <i>Rapporteur :</i> Dr. Shahzada Sohail Ijaz, PMAS-AAUR Rawalpindi</p>	<p>4B: Soil, Water and Environmental Chemistry Venue: Hall B <i>Chairpersons</i> Dr. M. Tariq Siddique, Former General Secretary SSSP Prof. Dr. Tariq Aziz, Director Campus Depalpur, UAF Mr. Amir Raza, Deputy Chief Scientist, NIFA Peshawar <i>Rapporteur :</i> Dr. Kashif Ali Kubar (Councilor SSSP / LUAWMS, Balochistan)</p>	<p>4C: Others Venue: Hall C <i>Chairpersons</i> Prof. Dr. Allah Wadhayo Gandahi, Sindh Agri. Uni. Tandojam Dr. Abid Niaz, AARI Faisalabad Dr. M. Sharif, Balochistan Agri College, Quetta <i>Rapporteur:</i> Dr. Munazza Yousra, LRRI, NARC</p>
1.	<p>Advances in Foliar Fertilization: Scientific Principles and Field Practices <i>Asif Naeem</i> NIAB Faisalabad (<i>Invited Talk</i>)</p>	<p>Assessing the Effects of Bioinoculant and Herbicide Applications on Rhizospheric Soil Bacterial Communities <i>Nurul Shamsinah Mohd Suhaimi,</i> Faculty of Science, Universiti Malaya, 50603 Kuala Lumpur, Malaysia (<i>Invited Talk</i>)</p>	<p>Design and Synergistic Engineering of Biomass-Derived Carbon/Metal Oxide Composites for Durable Supercapacitor Applications <i>Siti Rohana Binti Majid</i> Faculty of Science, Universiti Malaya, 50603 Kuala Lumpur, Malaysia (<i>Invited Talk</i>)</p>

2.	<p>Phosphorus Availability in Soil-Plant System as Influenced by Farmyard Manure and Soil Temperature Regimes in Wheat-Maize Cropping System <i>Sajid Masood</i> Department of Soil Science, Bahauddin Zakariya University, 60800-Multan (<i>Invited Talk</i>)</p>	<p>Emerging Pollutants and Soil Resilience: Challenges for Sustainable Development in Pakistan <i>Shahid Mahmood</i> Department of Environmental Sciences, PMAS-Arid Agriculture University, Rawalpindi-46300, Pakistan (<i>Invited Talk</i>)</p>	<p>Soil as a Pathway to Sustainable Development: A Qur’anic Ethical Perspective <i>Dr. Foyasal Khan</i> Adjunct Faculty, Department of Economics, Southeast University, Dhaka, Bangladesh (<i>Invited Talk</i>)</p>
3.	<p>Isolation and Characterization of Rice Residue Decomposing Bacteria and their Role in Enhancing Soil Fertility and Wheat Productivity <i>Muqarrab Ali</i> MNS University of Agriculture, Multan</p>	<p>Potassium Adsorption and Desorption Characteristics of Some Selected Soil Series <i>Qudrat Ullah Khan</i> Gomal University, Dera Ismail Khan (<i>Invited Talk</i>)</p>	<p>Microplastics in Soils: Emerging Threats to Soil Resilience and Sustainable Development <i>Fauziah Shahul Hamid</i> Institute of Biological Sciences, Faculty of Science, Universiti Malaya, Kuala Lumpur, Malaysia (<i>Invited Talk</i>)</p>
4.	<p>Slow Mineral Nitrogen Release from Boron Coated Urea Improves Productivity of Sunflower Grown in Alkaline Soil <i>Sajid Mahmood</i> NIAB, Faisalabad</p>	<p>UAV-Based Soil Moisture Estimation for Precision Agriculture: Advanced Remote Sensing Approach Using Totram Method <i>Amna Yaseen</i>, Center For Geographical Information System, University of the Punjab, Lahore</p>	<p>Geo-Spatial Characterization of Potentially Toxic Lead, Zinc, and Copper Contaminated Soils along A Highway <i>Hamaad Raza Ahmad</i> ISES, University of Agriculture, Faisalabad</p>

5.	<p>Foliar Application Macro- and Nano-Silicon to Improve Wheat Growth in Herbicide-Contaminated Soil <i>Sajida Sana</i> COMSATS University Islamabad, Vehari Campus</p>	<p>Evaluating the Impact of Biochar on Spinach Growth under Lead Stress <i>Hafiz Tanvir Ahmad</i> Department of Soil Science, ISWR, The Islamia University of Bahawalpur, Bahawalpur</p>	<p>Utilization of Benzophenone Contaminated Wastewater as Substrate for Microalgae to Produce Biolipids <i>Fatima Zainab</i> Department of Environmental Sciences, PMAS Arid Agriculture, University, Rawalpindi</p>
6.	<p>Long-Term Raw Crop Residue Incorporation Improves Soil Multifunctionality in Semi-Arid Agroecosystems <i>Anjum Zahid</i> Government College University, Faisalabad</p>	<p>Phosphorus Supply from Rock Phosphate in Poultry Litter Compost Mediated by Microbes for Sustainable and Resilient Soil Fertility <i>Hafiz Imran Iqbal</i> LRRRI, National Agricultural Research Centre, Islamabad</p>	<p>Assessing Land Degradation and Soil Moisture Dynamics Using Remote Sensing Indicators for Sustainable Land Management in the Thal Desert, Punjab, Pakistan <i>Syed Aun Abbas</i>, CGIS, University of The Punjab, Lahore</p>
7.	<p>Effect of Compost Tea Application on Soil Health and Plant Growth <i>Tanveer Iqbal</i> PMAS Arid Agriculture University, Rawalpindi</p>	<p>Characterization of Designed Biochar for Stabilization of Heavy Metals in Agricultural Soil <i>Myra Nazeer</i> Department of Soil and Environmental Sciences, University of Agriculture, Peshawar</p>	<p>Synthesis of Fe Doped GO-ZnO Nanoparticles for the Photocatalytic Degradation of Pharmaceutical Drugs <i>Hafsa Batool</i>, Department of Environmental Science, PMAS Arid Agriculture University, Rawalpindi</p>

8.	<p>Soil Health Responses to the Burning and Retention of Crop Residues in Wheat–Rice Cropping Systems <i>Muhammad Arfan Ul Haq</i> Ayub Agricultural Research Institute, Faisalabad</p>	<p>Untreated Contaminated Irrigation Water as a Critical Point Source Hazard: Heavy Metal Bioaccumulation and Carcinogenic Health Risks in Soil Plant Continuum of Khyber Pakhtunkhwa, Pakistan <i>Muhammad Rashid</i>, Agriculture Research Institute Tarnab, Peshawar</p>	<p>Waste-Derived TiO₂–ZNF/CP Bioaerogel for Photo-Electrocatalytic Treatment of Polyethylene Contaminated Effluents <i>Sumbal Zaheer</i> Department of Environmental Sciences, PMAS-Arid Agri. University, Rawalpindi</p>
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10.	<p>Integrated Nutrient Management Strategies for Plant Growth under Stress Environment <i>Hina Javed</i> Ayub Agricultura Research Institute, Faisalabad</p>	<p>Influence of Thermal and Acid Activation on the Adsorptive Performance and Mechanism of Bentonite for Azithromycin Removal <i>Shah Rukh</i> National Centre of Excellence in Geology, University of Peshawar</p>	<p>Vermicompost Application: A Promising Approach to Boost Spinach Growth in Soil Affected by Chromium Contamination <i>Sanaullah Yasin</i> Department of Soil & Environ. Sciences, Ghazi University, Dera Ghazi Khan</p>

11.	<p>Bio-Fortification of Zn and Cu Improves the Yield and Quality of Sorghum (<i>Sorghum bicolor</i> L.) Fodder <i>Muhammad Asif</i> University of Sargodha, Sargodha</p>	<p>Synergistic Role of Wheat Safflower Intercropping and Copper Nanoparticles in Mitigating Cadmium Toxicity <i>Amama Noor</i> University of Agriculture Faisalabad</p>	<p>Quantitative Morphological Analysis and Genotypes Evaluation of Groundnut (<i>Arachis hypogaea</i> L.) for Enhanced Yield under Calcareous Soil <i>Kashif Ahmad,</i> Department of Agriculture, University of Swabi</p>
12.	<p>Appraisal of Best Method For Zn Biofortification in Selected Wheat Varieties in Sindh <i>Muhammad Asif Siddiqui</i> Soil Salinity and Reclamation Research Institute, Tandojam</p>	<p>Synergistic Role of Zinc Oxide and Hydroxyapatite Nanoparticles in Mitigating Cadmium Stress in Wheat <i>Haseeb Tariq,</i> University of Agriculture, Faisalabad</p>	<p>Engineering Metal–Organic Frameworks (MOFs) Catalysts for Sustainable Environmental Remediation <i>Muzammil Anjum,</i> Department of Environ. Sciences, PMAS Arid Agriculture University, Rawalpindi</p>
13.	<p>Evaluating Zinc Bio-Fortification Potential of Newly Evolved Rice Genotypes under Agro-Climatic Conditions of Tandojam <i>Nizamuddin</i> NIA, Tandojam</p>	<p>Residual Impacts of Nano Hydroxyapatite and Iron Nanoparticles on Maize Growth and Yield under Cadmium Stress <i>Saman Nawaz</i> University of Agriculture, Faisalabad</p>	<p>Biosorption of Trace Metals from Freshwater Using Cultured Periphyton Biofilms <i>Khurram Shahzad</i> PMAS-Arid Agriculture University, Rawalpindi</p>

14.	<p>Soil Physicochemical Properties and Maize Yield Responses to Organic Nutrient Amendments <i>Zohaib Ur Rehman Bughio</i> Agriculture Extension Wing, Agriculture and Price Department, Government of Sindh</p>	<p>Response of Maize to Varying Levels of Cadmium at Seedling Stage <i>Qurat-Ul-Ain</i> COMSATS University Islamabad, Vehari Campus</p>	<p>Legacy Effect of Long-Term Urban Wastewater Irrigation on Topsoil Multifunctionality via Microplastic Littering Pathway <i>Muhammad Saleem Arif,</i> Department of Environmental Sciences, GC University, Faisalabad</p>
15.	<p>Optimization of Nitrogen, Phosphorus and Potassium Fertilizer Levels for Yield and Mineral Content of Okra (<i>Abelmoschus esculentus</i> L.) Genotypes <i>Dr Ishaq Ahmad Mian</i> University of Peshawar</p>	<p>Phosphate Sorption and Desorption Dynamics: A Comparative Study of Soil Series and Biochar <i>Muhammad Arsalan Nawaz</i>, Gomal University, D. I. Khan</p>	<p>Improving Composting Efficiency of Municipal and Kitchen Wastes Using Bioinoculants and Labile Organic Amendments <i>Tanvir Shahzad,</i> Department of Environmental Sciences, Government College University, Faisalabad</p>
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17.	<p>Foliar Applied Biostimulants and Micronutrients and Physiological and Growth Responses of Maize Under Drought Stress <i>Rehab Noor</i>, Department of Soil and Environmental Sciences, MNSUA, Multan</p>	<p>Synergistic Effects of Copper Nanoparticles and Biochar on Cadmium Immobilization in Cd Contaminated Soil <i>Muhammad Zia Ur Rehman</i>, University of Agriculture, Faisalabad</p>	<p>Bioremediation of Rawal Lake Water Using Indigenous Microalgae: Physicochemical Characterization and Biomass Valorization Potential <i>Anum Shafique</i>, PMAS Arid Agriculture University, Rawalpindi</p>
18.		<p>Charge Transfer Engineering in Pd Based Nano Aerogels for Enhanced Electro Oxidative Degradation of Recalcitrant Di Butyl Phthalate <i>Sammia Khurshid</i>, PMAS Arid Agriculture University, Rawalpindi</p>	<p>Evaluation and Treatment Strategies for Emerging Micropollutants in Wastewater <i>Farzana Kausar</i>, Environmental Sciences, PMAS Arid Agriculture University, Rawalpindi</p>
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Day 02, 6th May 2026, Wednesday (14:30-16:00)

Consultative Session: Industry-Academia-Research Linkages

14:30-16:00

Session Chairs:

Dr. Abdul Rashid,

Former Member Biosciences PAEC, Former President SSSP

Dr. Zahir Shah,

Ex-President SSSP, Former Vice Chancellor University of Chitral, Chitral

Dr. Shahid Mahmood,

Former President SSSP

Dr. Sajid ur Rehman,

Chief Scientist, DG Agricultural Research Punjab

Moderator:

Dr. Zahir Ahmad Zahir,

Ex-President SSSP, PAS Fellow, Prof (Retd.) UAF, Director ORIC University of Faisalabad

Panelists:

Govt Agencies/Research

Dr. Amjad Hussain, *Director General HEC*

Dr. Saqib Nasir, *Pakistan Science Foundation*

Dr. Akram Qazi, *Chief Scientist/Director Soil Fertility Research Institute, Lahore*

Dr. Hafeezullah Babar, *SFI Tandojam*

Dr. Obaid ur Rehman, *CS/Adl DG, SWACRI*

	<p><u>Industry</u></p> <p>Dr. Nadeem Tariq, <i>First Biotech Pvt Ltd</i></p> <p>Mr. Ghulam Ahmad, <i>All Pakistan Fertilizer Dealers Association (APFDA)</i></p> <p>Dr. Munir Zia, <i>FFC</i></p> <p>Rep from Fatima</p> <p>Mr. Ijaz Ahmed, <i>Engro</i></p> <p><u>Academia</u></p> <p>Prof. Dr. Muhammad Arshad, <i>Associate Dean SEECS NUST</i></p> <p>Dr. Saleem M. Bhatti, <i>SAU Tandojam</i></p> <p>Dr. Mohsin Zafar, <i>Mirpur University of Science & Technology</i></p> <p>Dr. Tariq Aziz, <i>Uni of Agri. Faisalabad Sub-Campus Depalpur</i></p>
16:00-17:30	Concluding Session

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Poster No. 02	Comparative Effects of Soil and Foliar Applied ZnO and FeO Nanoparticles on Yield and Nutrient Acquisition in Wheat Ambrin Rajput International Centre for Chemical and Biological Sciences, University of Karachi, Pakistan
Poster No. 03	Screening for Resilience: Hydroponic Selection of Waterlogging-Tolerant Cotton Javed Iqbal Department of Soil and Environmental Sciences, MNS University of Agriculture, Multan, Pakistan
Poster No. 04	Corruption Destroys Soil and Agriculture Mohiuddin Dilshad Soil and Water Testing Laboratory, Rawalpindi
Poster No. 05	Upcycling Sugarcane Filter Cake into Phosphorus-Enriched Liquid Fulvic Acid for Sustainable Phosphorus Management in Calcareous Soils Hina Panhwar Department of Soil Science, Sindh Agriculture University, Tandojam

Poster No. 06	Evaluating the Potential of Various Potassium Fertilizers for Wheat (<i>Triticum aestivum</i> L.) Grown on Haplocambid Soil Sheraz Khadim Department of Soil Science, Bahauddin Zakariya University, Multan
Poster No. 07	Mitigation of Lead Uptake in <i>Zea mays</i> L. through Soil Amendments with Elemental Sulfur and Bagasse-Derived Biochar Wishah Zafar Department of Environmental Science, PMAS Arid Agriculture University, Rawalpindi
Poster No. 08	Geospatial Analysis of Soil Characteristics and Nutrients Shows the Need for Site-Specific Soil Management Practices Zain Rauf Department of Agronomy, Engro Fertilizers Limited, Pakistan
Poster No. 09	Humic and Fulvic Acids and their Mixtures: Effects on Soil Properties and Phosphorus Availability in Calcareous Soils Siraj Ahmed Department of Soil Science, Sindh Agriculture University, Tandojam
Poster No. 10	Iron Bio-fortification through Integrated Agronomic Approaches for Improving Growth, Yield and Iron Content of Cereal Crops Ifra Saleem Soil Chemistry Section, ISCES, AARI, Faisalabad
Poster No. 11	Improving Maize Productivity and Nutrient Use Efficiency by Boron-Fortified DAP Qudsia Nazir Soil Chemistry Section, AARI, Faisalabad

Poster No. 12	Wastewater Irrigation Impact on Heavy Metal Contamination of Vegetables: A Potential Threat to Food Security Nisa Mukhtar Ayub Agricultural Research Institute, Faisalabad
Poster No. 13	Effect of Different Levels and Methods of Application of ZnSO ₄ on Yield and Yield Components of Maize Manzoor Ahmad Bacha Khan University, Charsadda
Poster No. 14	Enhancing Climate-Resilient Crop Production through Organic Matter Types and Optimized Fertilizer Rates: Effects on Soil Microbial Populations and Yield Faisal Mukhtiar Department of Soil Science, Sindh Agriculture University, Tandojam
Poster No. 15	Isolation of Rhizobia Capable of Producing Biosurfactants to Improve Growth of Lentil under Water-Stressed Conditions Aqsa Ahmed Barq Department of Environmental Sciences, PMAS Arid Agriculture University, Rawalpindi
Poster No. 16	Effect of Humic Acid-Enhanced Phosphate Fertilizers on Phosphorus Diffusion and Availability Irshad Ali The University of Agriculture, Peshawar
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Poster No. 18	Assessing Long-Term Yield and Soil Fertility under Organic Farming Systems Amir Raza Nuclear Institute For Food and Agriculture, Peshawar
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