

## Annual Activities Report – 2025 UNESCO Chair on Knowledge Systems for IWRM



### CUI Wah Campus – Pioneering Initiatives

#### Campus Operations Initiatives towards Green Matric Indicators and SDGs

##### 1. Energy Efficiency

- Solar Power Generation Plant
- Energy Efficient Windows
- Double Glazed Windows and Vent is used
- Energy Efficient LEDs and Motion Sensors
- Efficient Heating System

##### 2. Waste Management

- Waste Management

##### 3. Water Conversation

- Rain Water Harvesting
- Ground Water Recharge System

##### 4. Wellbeing and Work Sustainability

- Student Operations (One Window )
- Community Wellbeing
- HealthCare Services
- UNESCO Chair on Knowledge Systems for (IWRM)
- Healthy Sustainable Food Systems
- Subsidized Transport Facility

##### 5. Green Campus Buildings and Infrastructure

- Minimization of Carbon Footprint
- Design Features- New Academic Block 1
- Sustainable Transportation
- Transport Parking
- Class Room and Laboratories



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# UI GREENMETRIC RANKING

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The certificate has been awarded from **UI GreenMetric** in recognition of **CUI Wah Campus' first-ever inclusion in the UI GreenMetric World University Rankings 2025**, showcasing its commitment to sustainability and highlighting its strong standing among the world's most environmentally responsible universities.



## MEETINGS

### Organized/Attended /Participated

#### Meeting with President ECO Science Foundation, September 2025

Prof. Dr. Muhammad Abid, T.I., UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) and Director, Interdisciplinary Research Center (IRC), attended a meeting with Prof. Seyed Komail Tayebi, President and Economic Cooperation Organization Science Foundation (ECOSF) at the ECOSF Headquarter on September 9, 2025. Engr. Khalil Raza, Program Manager (Energy & Climate) and Mr. Ghulam Abbas Rahar, Manager (Administration) was also in attendance. The meeting focused on exploring opportunities to strengthen bilateral collaboration between COMSATS University Islamabad, Wah Campus and universities from ECOSF member countries. Both sides discussed potential avenues of cooperation in the areas of Climate Change and Water–Energy–Food Nexus. Deliberations were held considering the organization of joint events, conferences and continuing professional development events for youth capacity building in collaboration with ECOSF at CUI Wah Campus.



## Meeting with newly appointed UNESCO Representative in Pakistan, October 2025

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Prof. Dr. Muhammad Abid, T.I., UNESCO Chair on Knowledge Systems for Integrated Water Resources Management, COMSATS University Islamabad, Wah Campus, attended a meeting with His Excellency Mr. Fuad Pashayev, the newly appointed UNESCO Representative in Pakistan, at the UNESCO Islamabad Office on October 1, 2025. Mr. Raza Shah, National Professional Officer (Natural Sciences), was also present.



During the meeting, Dr. Abid, in his capacity as UNESCO Chair, presented the Annual Activities Report for 2024 along with the CUI Wah Campus SDGs Newsletter. He also shared the current and upcoming plans of activities under the UNESCO Chair. The UNESCO Representative appreciated these initiatives and expressed his full support for enhancing collaboration and strengthening coordination among UNESCO Chair holders in Pakistan. As a goodwill gesture, Dr. Abid presented the CUI Wah Campus souvenir to His Excellency Mr. Fuad Pashayev and expressed his thanks.

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## Consortium Meeting on Climate Change Technologies & MSW, October 2025

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The Director, Interdisciplinary Research Center (IRC), accompanied by Dr. Attah ur Rehman from the Department of Mechanical Engineering, attended the Consortium Meeting on October 3, 2025, at Lahore Leeds University, Islamabad Campus. The meeting focused on exploring the potential of academic–industry linkages to support Pakistan’s transition towards sustainable and climate-friendly solutions through joint research and development (R&D) opportunities in Municipal Solid Waste (MSW) and Fruits & Vegetables Market Waste Management Solutions. Key discussion points included advocacy with the Ministry of Climate Change (MoCC), Environmental Protection Agency (EPA) and other relevant authorities; alignment with Nationally Determined Contributions (NDCs) and carbon credit targets. The strategies for technology transfer, commercialization, and adoption to accelerate sustainable impact.

## 2<sup>nd</sup> UNESCO Chair Holder's Coordination Meeting at MNS University of Agriculture, Multan – November 2025

Prof. Dr. Muhammad Abid, T.I., UNESCO Chair (IWRM) at CUI Wah Campus attended the 2<sup>nd</sup> UNESCO Chair Holders' Coordination Meeting held at MNS University of Agriculture, Multan, on November 18, 2025. The meeting was organized by the UNESCO Chair on Low Carbon and Sustainable Agriculture in Biosphere Reserves and was followed by a seminar marking International Biosphere Reserve Day under the theme "People, Nature, and Harmony: Pakistan's Biosphere Reserves in Focus."

The Vice Chancellor, Prof. Dr. Asif Ali (T.I.), and Co-Chair Prof. Dr. Irfan Ahmad Baig welcomed UNESCO Chair holders from across the country and emphasized the importance of collaborative efforts to promote sustainability.

During the coordination meeting, participants discussed key priorities, including low-carbon agriculture, improved collaboration among Pakistan's biosphere reserves, and enhanced planning for climate-resilient communities. Prof. Dr. Abid presented updates on the UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) and invited fellow Chair holders to strengthen joint initiatives for collective benefit.

The seminar featured national and international experts who highlighted strategies for fostering harmony between people and nature, strengthening scientific partnerships, supporting resilient rural communities, conserving desert biodiversity, and advancing sustainable afforestation in South Punjab.

Prof. Dr. Abid appreciated Prof. Dr. Irfan Ahmad Baig and his team for organizing the event and acknowledged the Vice Chancellor's leadership in promoting national cooperation among biosphere reserves. The event reaffirmed the UNESCO Chair holders' commitment to sustainability, environmental stewardship, and meaningful scientific collaboration.





## RESEARCH PROJECTS/COLLABORATION

### Panel Discussion on “Melting Giants: Safeguarding Glaciers for Water Security and Climate Resilience”- April 2025

On the occasion of World Water Day, the UNESCO Chair on Knowledge Systems for IWRM, CUI Wah Campus, in collaboration with the Pakistan Council of Research in Water Resources (PCRWR), organized an impactful event aligned with this year’s global theme, “**Glacier Preservation.**”

The high-level panel discussion titled “Melting Giants: Safeguarding Glaciers for Water Security and Climate Resilience”, was held. The Experts deliberated on the increasing threats to glaciers, emphasized the urgency of coordinated global action, and underscored the vital role glaciers play in sustaining long-term water security and strengthening climate resilience.

The distinguished panelists included:

- Mr. Rab Nawaz, Senior Director Conservation, WWF Pakistan
- Dr. Muhammad Afzaal, Chief Meteorologist (R&D), Pakistan Meteorological Department
- Ms. Qurat ul Ain, Head of Water Resources and Glaciology Section, GCISC, Ministry of Climate Change
- Engr. Muhammad Zaheer, Department of Civil Engineering and Technology, National Skills University
- Dr. Siatara Parveen

The expert insights enriched the discussion, emphasizing the urgent need to conserve glaciers for climate imperative and a vital safeguard for freshwater resources and intergenerational equity. Heartfelt gratitude was extended to the esteemed panelists for their valuable insights and meaningful contributions.





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## Research Publications

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### **International Journal papers**

- Hafiz Abdul Wajid, Muhammad Abid and Tareq Manzoor. Ventilation Optimization Using CFD Analysis for a Sustainable Environmentally Controlled Poultry Shed in Tropical Climates. Mehran University Research Journal of Engineering and Technology. Pp 172-185, Vol 44/4, 2025
- Mukhtar Ahmed Munawwar Ali Abbas, Ahmad Cho, Muhammad Abid, Hafiz Abdul Wajid. Modeling sediment transport on the storage capacity and life prediction of Sadpara dam. Mehran University Research Journal of Engineering and Technology. Pp 13-24, Vol 44/2, 2025

### **Book Chapters**

1. **Chapter authors:** Mukhtar Ahmed, **Muhammad Abid**, Naeem Abbas Malik, Sajid Ali, Adnan Zahid, Amjad Malik et al.  
**Chapter title:** Climate-Resilient Strategies for Sustainable Management of Water Resources and Agriculture  
**Book title:** Climate Resilient and Sustainable Agriculture: Volume 2: Social and Transformative Strategies  
**Book Editor:** Mukhtar Ahmed  
**Publisher:** Springer Cham  
**Website:** <https://link.springer.com/book/10.1007/978-3-032-04141-8>  
**DOI** <https://doi.org/10.1007/978-3-032-04141-8>
2. **Chapter authors:** **Muhammad Abid**, Hafiz Abdul Wajid  
**Chapter title:** Next-Gen Agriculture: How AI-Driven 3D Farming Builds Resilience Against Global Food Crises  
**Book title:** Climate Resilient and Sustainable Agriculture: Volume 2: Social and Transformative Strategies  
**Book Editor:** Mukhtar Ahmed  
**Publisher:** Springer Cham  
**Website:** <https://link.springer.com/book/10.1007/978-3-032-04141-8>  
**DOI** <https://doi.org/10.1007/978-3-032-04141-8>

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## Senior Year Design Project, October 2025

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The UNESCO Cahir on Knowledge Systems for IWRM, Project Supervisor, Engr. Sarmad Manzoor along with students presented their project proposal titled “**Sustainable Groundwater Recharge Using Surface Runoff in Islamabad’s Sector G-13**” to Engr. Muhammad Dilshad Arshad, Director Hydrology, PCRWR on October 22, 2025. The students briefed on their data collection methods, mapping and analysis techniques, as well as the design and simulation process. Engr. Arshad appreciated their efforts and provided valuable guidance and suggestions to enhance the accuracy and outcomes of their research work.

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## Research Projects Submitted

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Prof Dr. Muhammad Abid, T.I. UNESCO Chair on Knowledge Systems for IWRM and his team has submitted proposals with different national and international funding agencies as follows;

### *NRPU HEC*

- Water–Energy–Food Security Nexus: Climate-Induced Sedimentation and Reservoir Sustainability at Satpara Dam, Pakistan, under Call for Research Grant NRPU

### *RASTA-CGP 8.0 Call for Research Ideas*

- Phytoremediation and Water Quality Enhancement for Manka Canal: Modern Strategies for Sustainable Water Management, Dera Ghazi Khan, Punjab
- Climate-Induced Migration and Water Insecurity: Policy Options for Managing Rural-Urban Transitions
- Development of Rice Husk Composite Tiles: A Sustainable Solution to Smog Crisis and Agricultural Waste and Water Quality

### *Pakistan Science Foundation*

- Capacity building with focus on indigenous development of Under Water Vehicles for Health Monitoring of Reservoirs and Canals due to sedimentation - PSF Research Grant

### *Knowledge Sharing Program (KSP) Korea*

- A sustainable solution to optimize the energy efficiency of buildings through local agricultural waste-based insulation material in Pakistan and addressing water conservation using NBS

### *MoST China and MoST Pakistan (PSF)*

- Reservoir Sedimentation Evolution's Monitoring and Assessment with Magneto Inductive Communication based AUV Intelligent Network
- Research and Development of the Collaborative Regulation Mechanism and Intelligent Decision-Making System for Soil Quality Climate Resilience of Cultivated Land in China and Pakistan

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## Research Project Completed

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Project title: **A case study of physicochemical and microbiological assessment of underground water quality based on water quality index through GIS mapping tools: ArcGIS Pro**

This study evaluated the physicochemical and microbiological quality of underground drinking water in the Wah region using Water Quality Index (WQI) analysis and spatial mapping through ArcGIS Pro 3.5. Ninety-two water samples were collected and analyzed at the PCRWR Islamabad Testing Laboratory for a wide range of parameters, including color, electrical conductivity (EC), pH, turbidity, alkalinity, calcium, chloride, nitrate, magnesium, bicarbonates, potassium, sodium, sulphate, total dissolved solids (TDS), hardness, and microbiological indicators (Total Coliforms, Fecal Coliforms, and Escherichia coli), against WHO and PSQCA standards. Microbiological results revealed widespread contamination, with Total Coliforms detected in 83 locations and several sites showing Fecal Coliforms and E. coli. The detection of all three indicators at Fateh Jang Link Road indicates direct sewage intrusion, posing serious risks of waterborne diseases.

Physical and chemical assessments showed that 44 sites exceeded the safe limit of 1000  $\mu\text{S}/\text{cm}$  for EC and TDS, while hardness approached 500 mg/L in some locations. Chemical parameters were generally within limits, though sulphate exceeded the 250 mg/L guideline at one site, possibly due

to geological or anthropogenic sources. Nitrate levels remained below 50 mg/L despite agricultural activity, suggesting protection from deeper aquifers. Microbial contamination was not associated with turbidity, indicating weaknesses in the distribution system.

Concentration, interpolation, and WQI maps were produced using ArcGIS Pro 3.5, revealing spatial variability, with peripheral areas showing good to excellent water quality and central/southeastern zones classified as poor to unfit. The findings highlight progressive deterioration driven by population growth, industrial effluents, and inadequate sewerage. While chemical quality is largely acceptable, microbiological contamination poses a critical health risk, requiring urgent interventions to protect sources and rehabilitate distribution infrastructure

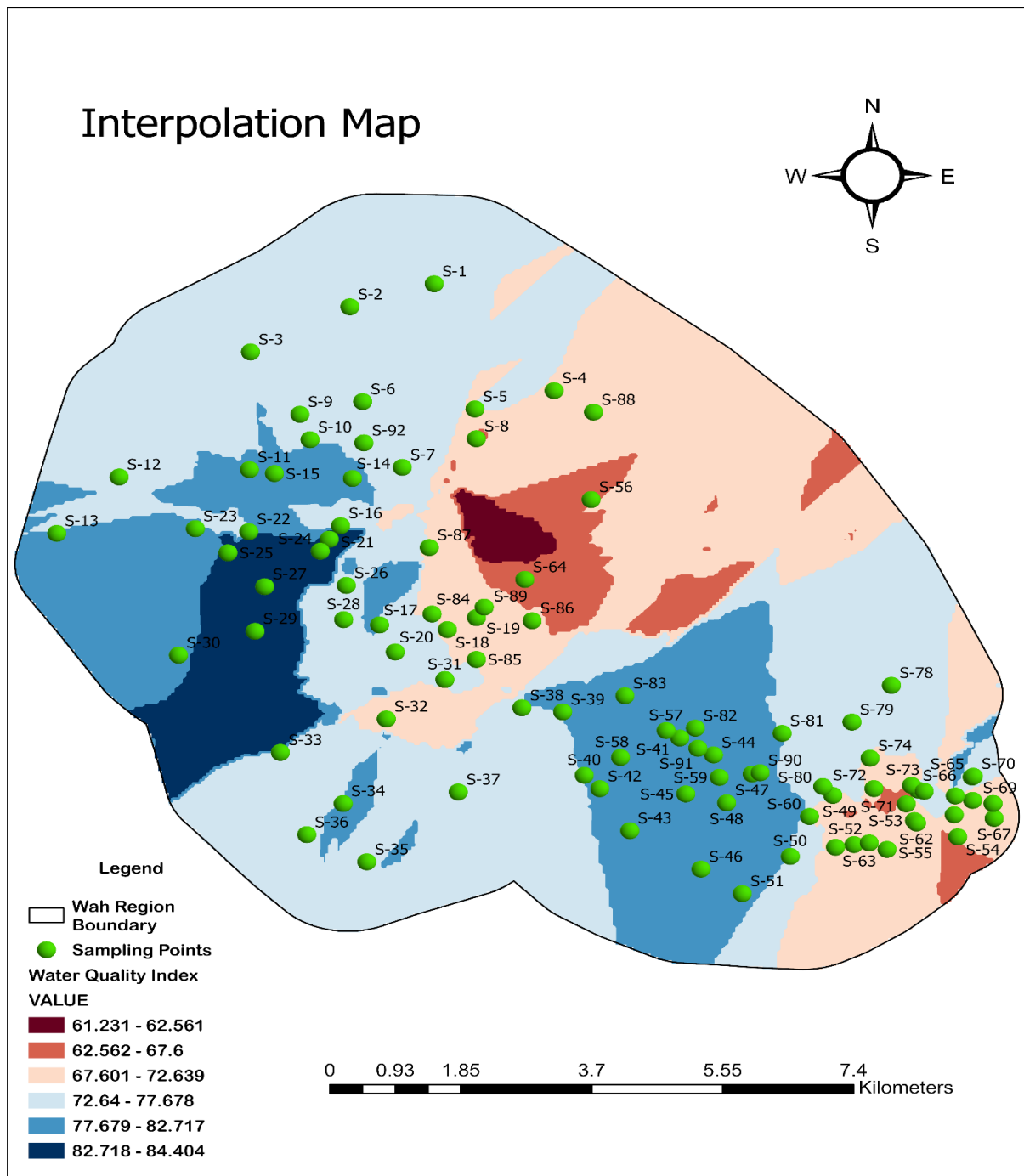


FIGURE: WATER QUALITY INDEX INTERPOLATION MAP OF WAH REGION

## CONFERENCES

### Organized/Attended /Participated

#### ECONEX 2025 – Plenary Session “Groundwater Management in the ECO Region”

On April 18, 2025, the Director Campus/UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof. Dr. Muhammad Abid, T.I., participated in the 2<sup>nd</sup> Day - Plenary Session titled “Groundwater Management in the ECO Region” during the International Conference on Science, Technology and Innovation (STI): Catalysts for Regional Connectivity and Sustainable Development in the ECO Region (ECONEX 2025). The conference was organized by the ECO Science Foundation (ECOSF), Pakistan, in partnership with the Higher Education Commission of Pakistan (HEC) and the Economic, Cooperation Organization (ECO), Iran.

During the session the experts explored innovative solutions, Managed Aquifer Recharge (MAR) and emphasized the importance of regional cooperation and capacity building to address shared groundwater management concerns.

In closing remarks, Prof. Komail Tayebi, President of ECOSF, expressed his sincere appreciation to the key organizers and ECO Member Countries partners, commending their expertise and unwavering commitment in symbolizing the unity for fostering regional connectivity, collaboration and innovation.



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## Panelist at 3rd MTME-2025 International Conference at GIKI

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Prof. Dr. Muhammad Abid, T.I., Director Campus, participated as a panelist in the 3rd International Conference on Modern Technologies in Mechanical and Materials Engineering (MTME-2025), held on April 17, 2025, at the Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI), Topi, Pakistan. The conference was themed “Materials, Design and Manufacturing, Thermo-Fluids, Drives and Control”.

As part of the Industry-Academia Panel Discussion, Prof. Dr. Abid highlighted the growing role of Artificial Intelligence (AI) in higher education and barriers in the education and implementation of AI. He emphasized the need for HEIs to stay aligned with evolving AI trends and industry requirements by integrating AI-focused content into academic curricula, enhancing student skills and encouraging applied AI research. The panel collectively explored strategies to build strong academia-industry collaborations aimed at addressing real-world AI challenges and bridging the gap between academic learning and industrial innovation.

During the closing ceremony, Prof. Dr. Muhammad Abid and other panelists were presented with a shield as a token of appreciation. The awards ceremony was graced by Mr. Omer Akhtar from Fauji Fertilizer as the Chief Guest.

The conference also featured Industry-Academia Panel Discussion that brought together representatives from leading organizations to explore strategies for addressing Pakistan’s engineering and technological challenges. A poster session by emerging scholars showcased pioneering research, reflecting the dynamic growth of scientific inquiry vital for a knowledge-based economy.



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## High – Level Conference “Green Industrialization under CPEC 2.0: Pak – China Cooperation for Green Finance and Low Carbon Development”, September 2025

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Prof. Dr. Muhammad Abid, (T.I.) UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), attended the High-Level Conference on “Green Industrialization under CPEC 2.0: Pak-China Cooperation for Green Finance and Low-Carbon Development” held on September 16, 2025.

The event was organized by the Sustainable Development Policy Institute (SDPI) under the Green CPEC Alliance and provided a premier platform for dialogue on promoting green finance and advancing low-carbon industrialization in the second phase of CPEC.

The conference brought together eminent policymakers, regulators, industry leaders, financial experts, and development partners to discuss collaborative strategies for ensuring sustainable and inclusive economic growth. Prof. Dr. Abid’s participation highlighted the role of academia and research in shaping pathways toward environmentally responsible industrial development.



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## Pakistan Water Week 2025 by IWMI, November 2025

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Prof. Dr. Muhammad Abid, T.I., UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), attended the inaugural ceremony of Pakistan Water Week 2025 (5th Edition) held on November 3, 2025. The event features 24 sessions and side events, including high-level panel discussions in preparation for COP30.

Key themes of the week include the role of media in communicating climate issues, smart solar irrigation, water accounting, groundwater governance and climate-resilient agriculture. The sessions are structured to provide a collaborative platform for developing practical solutions to strengthen water and food security amid increasing climate challenges.

Dr. Abid also participated in the plenary session of the International Conference on “From Scarcity to Sustainability: Collaborative Pathways for Water, Food and Climate Resilience”, held from November 3 - 7, 2025.

The event is organized by the International Water Management Institute (IWMI), Islamabad, in collaboration with PCRWR, CGIAR Policy Innovations, and CGIAR Climate Action, with support from the European Union (EU), FCDO, UNICEF, and ICIMOD.



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## 28<sup>th</sup> Sustainable Development Conference (SDC), November 2025

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Prof. Dr. Muhammad Abid, T.I., UNESCO Chair on Knowledge Systems for Integrated Water Resources, participated in the sessions of the 28<sup>th</sup> Sustainable Development Conference (SDC) held on November 6, 2025. The conference, organized by the Sustainable Development Policy Institute (SDPI) at Allama Iqbal Open University, Islamabad, Pakistan, centred on the theme “Sustainable Development in the Emerging World Dis|Order”.

Prof. Dr. Abid attended the High-Level Plenary Session titled “Annual State of Renewable Energy 2025: Regional Trends and Development Pathways”. The session focused on exploring innovative financing mechanisms to promote renewable energy (RE) development, with contributions from key financial institutions such as the State Bank of Pakistan, which provided insights into regulatory frameworks supporting sustainable financing.

The plenary emphasized the need to strengthen collaboration among stakeholders to mobilize financing for renewable energy (RE) initiatives, while reviewing achievements, challenges, and emerging trends to guide future policy for the industry.



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## The Water Informatics and Communication Technology Technical Session 22nd International Conference on Frontiers of Information Technology (FIT'25), Dec 2025

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The Water Informatics and Communication Technical Session was successfully held on December 15, 2025, during the 22nd International Conference on Frontiers of Information Technology (FIT'25) at the COMSTECH Secretariat, Islamabad, Pakistan.

The session was organized under the Water Informatics and Communication Technology track, with the following distinguished Track Co-Chairs:

- Liu Songzuo, Harbin Engineering University, China
- Niaz Ahmed, National University of Computer & Emerging Sciences
- Prof. Dr. M. Abid (T.I.), COMSATS University Islamabad (CUI), Wah Campus
- Summera Fahmi Khan, CUI Wah Campus

The track highlighted the critical importance of water as a vital resource underpinning climate resilience, underwater acoustics, governance, industry, and everyday life. In close alignment with the objectives of Sustainable Development Goal (SDG) 6, the session emphasized sustainable and efficient water management practices through the integration of informatics and communication technologies.

Serving as a comprehensive interdisciplinary platform, the track facilitated the exchange of research, technological innovation, and expert knowledge in water informatics and communication technologies. It enabled deeper insights into complex water systems, promoted data-driven decision-making, and encouraged the adoption of innovative digital tools for the protection and sustainable use of water resources.

By bringing together participants from academia, research institutions, and government organizations, the session fostered collaborative approaches to contemporary water challenges and supported the development of evidence-based policies.

The session was conducted by Prof. Dr. M. Abid, T.I. (Track Chair) and Dr. Niaz Ahmed (Session Chair) under the auspices of the UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), CUI Wah Campus.



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## Summit on “The University of the Future”, Dec 2025

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Summit on “*The University of the Future*” Prof. Dr. Muhammad Abid, T.I., as UNESCO Chair on Knowledge Systems for IWRM and Senior Academician participated in a high-level summit on December 3, 2025 hosted by CECOS University through its Centre for Digital Governance & Artificial Intelligence (CDGAI), in collaboration with the Chief Minister’s Performance Office (CMPO). The summit, titled “*The University of the Future*,” brought together leading academics, industry experts, and students to discuss the evolving landscape of higher education. The summit marked a key step toward building a shared vision for innovative, inclusive, and future-ready universities in Pakistan.

In his opening remarks, Vice Chancellor Dr. Mohsin Khan emphasized the need for universities to keep pace with rapid technological advancements, shifting workforce demands, and changing learner expectations. During the closing session, Engr. Waqar Khan, Special Secretary to the Chief Minister / COO CMPO, highlighted the importance of stronger collaboration between academia and policymakers, noting that such engagements are essential for shaping Pakistan’s higher education future.



### Organized/Attended /Participated

#### Webinar on Development of SEZs CPEC: Learnings from China's Green Model

Prof. Dr. Muhammad Abid, Director Campus and UNESCO Chair on Knowledge Systems for IWRM, participated as a panelist in a webinar titled “Development of SEZs under CPEC: Learnings from China’s Green Model” on January 20, 2025. The event was organized by the Sustainable Development Policy Institute (SDPI) to discuss raising climate-competitive industries which are crucial for achieving low-carbon development and integrating environmental sustainability with economic growth in line with the global Sustainable Development Goals (SDGs).

The webinar emphasized the need for integrated efforts to establish Green SEZs under CPEC, leveraging international collaborations, green finance and local capacity-building. Panelists underscored the importance of enhancing collaboration between Pakistan and China to develop Green Special Economic Zones (SEZs) under the China-Pakistan Economic Corridor (CPEC). This collaboration presents a significant opportunity to localize Pakistan's renewable energy and electric vehicle markets, which are vital for the country’s low-carbon development goals.

It was discussed that green finance mechanisms, research and development (R&D) initiatives and local business clusters are essential for transitioning towards Green SEZs and ensuring the successful implementation of sustainable technologies.

Prof. Abid emphasized that the transition to eco-friendly SEZs should begin by exploring local capacities and collaborating with the manufacturing industry. He proposed that the process should start with identifying specific areas for development, followed by gradual implementation. He also pointed out that Pakistan has abundant resources to invest in renewable energy solutions, such as solar power, micro-hydropower plants, and wind energy. These investments can significantly contribute to the development of Green SEZs and support the broader goal of sustainable industrial growth.



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## One Day Workshop on Advanced GIS

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The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) at CUI Wah Campus hosted a one-day workshop on Advanced Geographic Information Systems (GIS) on February 27, 2025. The workshop aimed to equip students, academicians, and professionals with the skills needed to apply advanced GIS technologies in their research and professional work.

The event began with a welcome note by Lecturer Engr. Sarmad Manzoor, who highlighted the UNESCO Chair's role as a vital platform for knowledge sharing. Dr. Summera Fahmi Khan, a member of the UNESCO Chair and Lecturer in the Department of Civil Engineering, led the workshop. She provided participants with practical, hands-on training in spatial data analysis and demonstrated techniques for:

- Identifying patterns in road infrastructure,
- Analyzing the environmental impacts on infrastructure,
- Evaluating soil erosion and water flow assessment for dams in specific areas of Pakistan.

The combination of theoretical knowledge and hands-on practice made the session highly informative, engaging participants with a strong focus on the practical applications of advanced GIS and spatial data analysis. Faculty members and students from the University of Wah and the Civil Engineering Department of COMSATS University Islamabad, Wah Campus, actively participated in the workshop.

In his closing remarks, Prof. Dr. Muhammad Abid, T.I., Director of Campus and UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), emphasized the critical importance of capacity building and sustainable research. He highlighted the applications of GIS in various areas, including:

- Measuring greenhouse gas emissions,
- Managing water resources for urban planning and infrastructure development,
- Monitoring temperature variations,
- Assessing dam erosion,
- Predicting earthquakes.

Prof. Dr. Abid acknowledged the valuable contributions of the workshop's resource person and the efforts of the organizing team in making the event a success.





## World Water Day – 2025 and the Launch of the United Nations World Water Development Report

On 29 April 2025, UNESCO Islamabad in collaboration with the Pakistan Council of Research in Water Resources (PCRWR), UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) and other partners, successfully commemorated World Water Day 2025 under the theme “Glacier Preservation.” The event also marked the official launch of the United Nations World Water Development Report 2025 in Pakistan.

The UN World Water Development Report 2025, Mountains and Glaciers: Water Towers, highlights the critical role of glaciers in global water security and warns of severe consequences from their rapid retreat due to climate change. For glacier-dependent countries like Pakistan, this poses serious risks to agriculture, energy, and water supply. The report urges urgent international cooperation, data-driven policy, and regional collaboration to safeguard these vital resources.



Mr. Kar Hung Antony Tam, the Officer-in-Charge of the UNESCO Office in Pakistan, in his opening remarks, stated: “Glacier preservation is critical for global water security and sustainable development. Glaciers, often referred to as the ‘water towers of the world, store nearly 69% of the Earth’s freshwater. Yet, they are melting at an alarming rate, threatening food, energy, and water security, as well as human safety.”

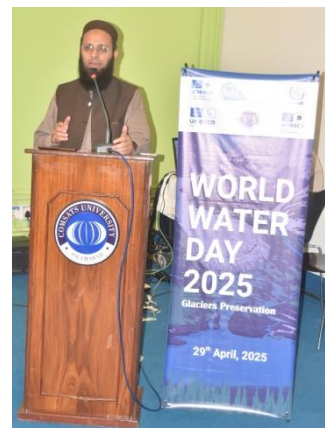
In his welcome address, Prof. Dr. Sajid Qamar, Rector of COMSATS University Islamabad, highlighted the vital role glaciers play in sustaining freshwater resources, especially for countries like Pakistan that depend heavily on glacial meltwater. He underscored the urgency of coordinated research, education, and policy initiatives to address the impacts of climate change on glacial systems. He reaffirmed COMSATS University's commitment to advancing scientific knowledge and fostering collaborative efforts to protect these critical natural assets for the benefit of future generations.



Dr. Hifza Rasheed, Director General of PCRWR, emphasized the increasing vulnerability of Pakistan’s water resources due to the rapid retreat of glaciers in the Himalayan, Karakoram, and Hindu Kush ranges. She noted that glacier preservation is not only an environmental imperative but a national priority with direct consequences for agriculture, livelihoods, and long-term water security. Dr. Rasheed called for enhanced data collection, advanced research, and science-based policymaking, while also advocating for stronger regional cooperation and knowledge-sharing to address common climate challenges.

In her keynote address, H.E. Marilina Armellin, Ambassador of Italy to Pakistan, reiterated Italy’s commitment to climate action and glacier conservation. She shared that Italy had recently updated its glacier inventory to better understand the impacts of climate change. Emphasizing the principle of “leave no one behind,” the Ambassador expressed Italy’s continued support for Pakistan’s efforts in water resource management and climate resilience through technical cooperation and scientific exchange.

Delivering the vote of thanks, Prof. Dr. Muhammad Abid, UNESCO Chair on Knowledge Systems for Integrated Water Resources Management in Pakistan, expressed his appreciation to all speakers, partners, and participants for contributing to the success of the event. He highlighted the critical role of collaborative platforms in tackling shared water challenges and stressed the importance of safeguarding glaciers in the face of accelerating climate change. He also noted the significance of academic and research institutions in generating evidence, shaping policy, and engaging youth in sustainable water practices.



A panel discussion titled “Melting Giants: Safeguarding Glaciers for Water Security and Climate Resilience” brought together experts who examined the threats to glaciers and potential strategies for their preservation. The discussion emphasized the urgent need for global collaboration to combat glacier loss and secure the water future.

In line with this year’s theme, two student competitions were organized: an Inter-University Research Competition and a Youth Video Competition. Both attracted significant youth participation, and the top three entries from each were showcased during the event.

Key partners of the event included UNESCO, the Pakistan Council of Research in Water Resources (PCRWR), the UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) at COMSATS University Islamabad Wah Campus, and the Pakistan National Commission for UNESCO (PNCU).

The event underscored the critical need for coordinated global action to safeguard glaciers, vital lifelines for water security. As climate change continues to accelerate glacier melts, the global community must act urgently and collectively to protect these essential resources for future generations.





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## Seminar on Advanced Water Quality Assessment Using ArcGIS for Groundwater Analysis, September 2025

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The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), in collaboration with the Department of Civil Engineering, CUI Wah Campus, organized a seminar on “*Advanced Water Quality Assessment Using ArcGIS Pro for Groundwater Analysis*” on September 24, 2025.

The event brought together academicians, experts and students to discuss pressing challenges in groundwater quality assessment and explore the role of cutting-edge technologies in ensuring water security. The seminar featured a case study on the *physicochemical and microbiological assessment of underground drinking water quality*, using the Water Quality Index (WQI) and advanced GIS mapping tools (ArcGIS Pro). The study underscored the importance of safe drinking water in alignment with the Sustainable Development Goals (SDGs)

On behalf of Prof. Dr. M. Abid, T.I., UNESCO Chair on Knowledge Systems for IWRM, Dr. Summera Fahmi Khan and Engr. Sarmad Manzoor warmly welcomed the participants. Engr. Sarmad delivered the opening remarks, followed by an insightful presentation by the speaker, Engr. Waleed Tariq, member, UNESCO Chair on Knowledge Systems for IWRM at CUI Wah Campus.

He presented a study emphasizing the significance of clean water in alignment with Sustainable Development Goal 6 – “Clean Water and Sanitation”. The research utilized GIS-based concentration maps, interpolation techniques and Water Quality Index (WQI) analysis to assess overall groundwater quality, visualize trends and support sustainable water management practices for safeguarding public health and environmental protection. The findings highlighted key conclusions and offered practical recommendations for advancing water quality assessment in the specific region using advanced ArcGIS tools. The session concluded with a lively Q&A discussion, where participants gained a deeper understanding of microbiological water contamination in relation to chemical parameters of water hardness, explored practical solutions and identified recommendations to make the outcomes more beneficial for the community.”

In closing, Dr. Adnan Nawaz (Chairperson, Civil Engineering) acknowledged participants from the University of Wah, the R&D Division, Pakistan Metrology Department Islamabad, and students from Civil Engineering, CUI Wah Campus. The presence of Dr. Hassan Ashraf (Head, Department of Civil Engineering) further added to the significance of the event. The seminar ended with a heartfelt vote of thanks.



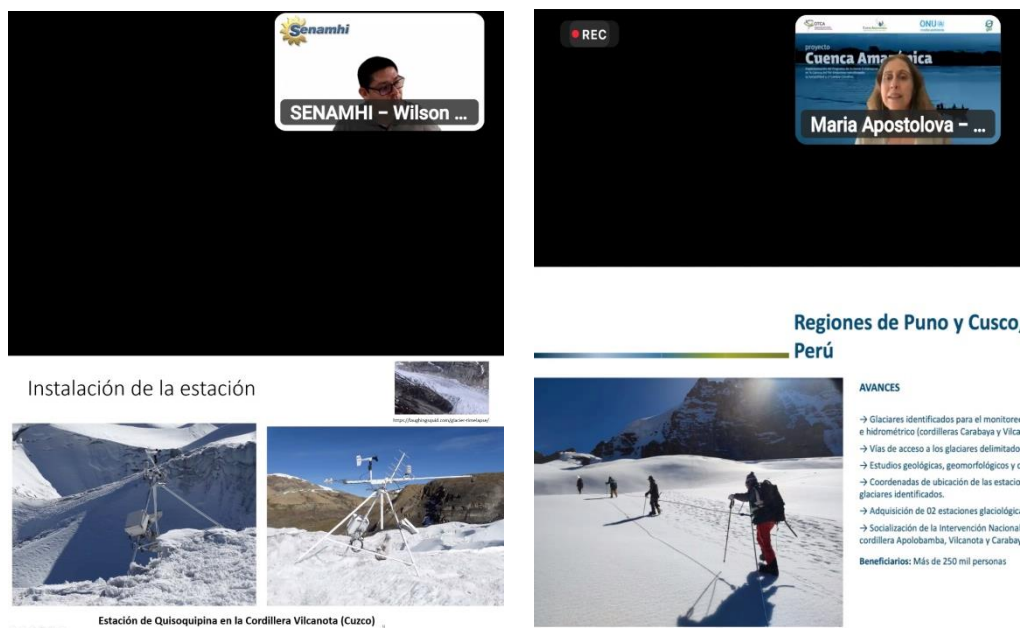


## Online Seminar on “Cooperation and Participation for Preserving Mountains and Glaciers – Focus Europe and North America”, September 2025

The UNESCO Chair on Knowledge Systems for IWRM participated in the online seminar series on “**Mountains and Glaciers: Water Towers**”, held on September 17, 2025. The session highlighted the critical role of mountain water resources -including alpine glaciers -in sustaining both mountain ecosystems and downstream communities. The seminar, titled “COOPERATION AND PARTICIPATION FOR PRESERVING MOUNTAINS AND GLACIERS – FOCUS ON EUROPE AND NORTH AMERICA”, emphasized the importance of collaboration and collective action to ensure the preservation of these vital resources for sustainable development.

## 2025 UNESCO WWAP International Online Seminar Series, October 2025

The UNESCO Chair on Knowledge Systems for IWRM attended the online seminar on October 15, 2025 titled United Nations World Water Development Report on Mountains and glaciers: Water towers Ecosystems, governance and transboundary cooperation – Focus on LAC region. The seminar was organized by the UNESCO World Water Assessment Programme (UNESCO WWAP). The session aimed to equip decision-makers with knowledge and practical tools to formulate and implement sustainable water policies. It highlighted best practices and presented in-depth analyses focused on mountains and glaciers ecosystems, governance, and transboundary cooperation. The discussion was designed to inspire innovative ideas and concrete actions for improved water stewardship and governance at local, regional, and global levels.



The UNESCO Chair on Knowledge Systems for IWRM attended the online meeting on Mountains and Glaciers: Water towers organized by World Water Assessment Programme on October 15, 2025. The session addressed the challenges faced by water users - including those in agriculture, industry and human settlements - as well as the opportunities arising from improved water governance, enhanced climate resilience and stronger ecosystem protection.

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## Awareness Session on the Project “Capacity Building on the Science –Policy – Practice Interface (SPPI) for Achieving Water Security in Pakistan”, October 2025

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The Capacity Building on the Science-Policy-Practice-Interface (SPPI) for Achieving Water Security in Pakistan: UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) at COMSATS University Islamabad, Wah Campus organized an **Awareness Session on “Capacity Building on the Science–Policy–Practice Interface (SPPI) for Achieving Water Security in Pakistan”** on October 8, 2025. The session was led by Engr. Muhammad Kashif Manzoor, Deputy Director, and Mr. Arslan Mumtaz, Assistant Director, from the Pakistan Council of Research in Water Resources (PCRWR).

During the session, Engr. Kashif delivered an insightful and engaging presentation on strengthening the linkages between sciences, policy practices to address critical water security challenges in Pakistan. He elaborated on the Water Resources Utilization Mechanism surface and groundwater management, key principles of SPPI and the existing gaps in monitoring and evaluation frameworks. He also highlighted resilience strategies and shared practical examples and policy frameworks currently in place.

The resource person emphasized that despite the existence of several IWRM-related policies, limited awareness and weak decision-making mechanisms hinder their effective implementation. He stressed the need for collective efforts of academicians, policy makers and community to ensure the sustainable use and protection of water resources for future generations.

The session provided students and faculty members with direct exposure to PCRWR’s expertise, enhancing their understanding of water governance, adaptive management, and policy integration. It also motivated youth to contribute innovative ideas and actively engage in shaping sustainable solutions for the agriculture sector, academia, and community.

Prof. Dr. Muhammad Abid, UNESCO Chair on Knowledge Systems for IWRM, appreciated the PCRWR team’s contribution, and acknowledged PCRWR their valuable insights toward capacity building and activities towards sustainable water management.

The session concluded with Prof. Dr. Ehsan Ullah Munir, Director Campus, presenting a souvenir to the guest speaker in recognition of his valuable contribution.





## Panelist – Joint Workshop on Urban Flooding to Groundwater Replenishment (Commemorating World Cities – Day), October 2025

The Pakistan Council of Research in Water Resources (PCRWR), in collaboration with WWF-Pakistan, hosted a joint workshop titled “Urban Flooding to Groundwater Replenishment: Nature-Based and Engineered Solutions for Sustainable Urban Water Management” on October 29, 2025, at PCRWR Headquarters, Islamabad, to mark World Cities Day 2025.

The workshop brought together experts, researchers and policymakers to explore innovative ways to tackle urban flooding and groundwater depletion in Pakistan’s rapidly growing cities like Karachi, Lahore, and Islamabad. Discussions focused on how nature-based and engineered solutions can help transform floodwater from a hazard into a valuable resource.

During the panel discussion on “*Transforming Floodwater from Hazard to Resource – Pathways for Pakistani Cities*”, Prof. Dr. Muhammad Abid, T.I., UNESCO Chair on Knowledge Systems for IWRM, CUI Wah Campus, shared valuable insights on What are the major drivers of urban flooding in Pakistan’s cities, and how can future city planning and adaptation in already established cities effectively address these challenges?

The dialogue emphasized the urgent need for collaborative action, innovative policy frameworks and holistic water management practices to mitigate urban flood risks and enhance groundwater recharge.

The event concluded with a vote of thanks to all distinguished guests and panelists, reaffirming a collective commitment to advancing sustainable and resilient urban water management in Pakistan. The shield of appreciation was presented to all speakers and panelists.



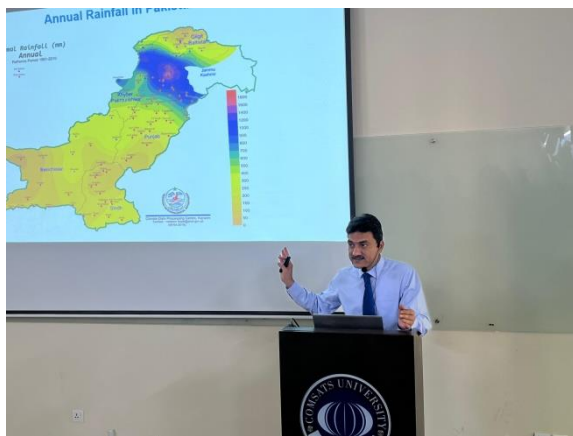
## Seminar on Groundwater Challenges: Leveraging Rainwater for Sustainability, October 2025

The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), On October 22, 2025, the UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), in collaboration with the ICE Student Chapter, ASHRAE CUI Wah Chapter, and PCRWR, organized a seminar on “Groundwater Challenges – Leveraging Rainwater for Sustainability”. The session aimed to enhance understanding of sustainable groundwater management, associated challenges, and urban initiatives aligned with SDG 6.

Engr. Sarmad Manzoor opened the session with welcoming remarks, followed by Dr. Summera Fahmi Khan highlighting the UNESCO Chair’s role in promoting water awareness. Engr. Muhammad Dilshad Arshad, Director Hydrology at PCRWR, delivered a detailed presentation on Pakistan’s groundwater resources, aquifer depletion, water quality, and rising domestic and industrial demands. He emphasized rainwater harvesting, well and boring systems, Managed Aquifer Recharge (MAR), revival of the traditional Karez system in Balochistan, and drip irrigation for efficient water use. He also presented provincial-level analyses and PCRWR’s initiatives in collaboration with CDA to address water scarcity.

The seminar attracted faculty, students, and researchers, including final-year students involved in groundwater projects, and was live broadcast to reach a wider audience.

In concluding remarks, Prof. Dr. Muhammad Abid, T.I., stressed the need for integrated, evidence-based groundwater management. The event concluded with a vote of thanks and presentation of souvenirs to the guest speaker.





## Seminar on Waste to energy Pakistan Engineers Forum (PEF), November 2025

Seminar on Waste to Energy Pakistan Engineers Forum (PEF) : Prof. Dr. Muhammad Abid, T.I., attended online the seminar on Waste to Energy on November 15, 2025, organized by Pakistan Engineers Forum (PEF). The session brought together leading experts who emphasized the strategic significance of converting biomass waste into sustainable energy solutions. The speakers underscored not only the environmental and economic value of waste-to-energy technologies but also the critical challenges technical, financial, and regulatory that must be addressed to unlock Pakistan’s potential in this sector. A key focus of the seminar was the pathway from biomass conversion to the generation of carbon credits, positioning waste-to-energy initiatives as an essential component of national climate action and green-economy development.

**Pakistan Engineers Forum**

**INVITATION TO SEMINAR ON**  
**WASTE-TO-ENERGY**  
 TRANSFORMING BIOMASS WASTE INTO CLEAN ENERGY  
 PATHWAYS TO CARBON CREDITS

**MODERATOR**  
 Naeem Ahmad Subhani  
 CEO S&E | Consultant  
 HSE & ESG Consultant

**SPEAKERS**

Engr. Ahmed Sohail Khan  
 Ex- WB consultant on Renewable Energy  
 Ex- USAID Technical Advisor for USPCASE

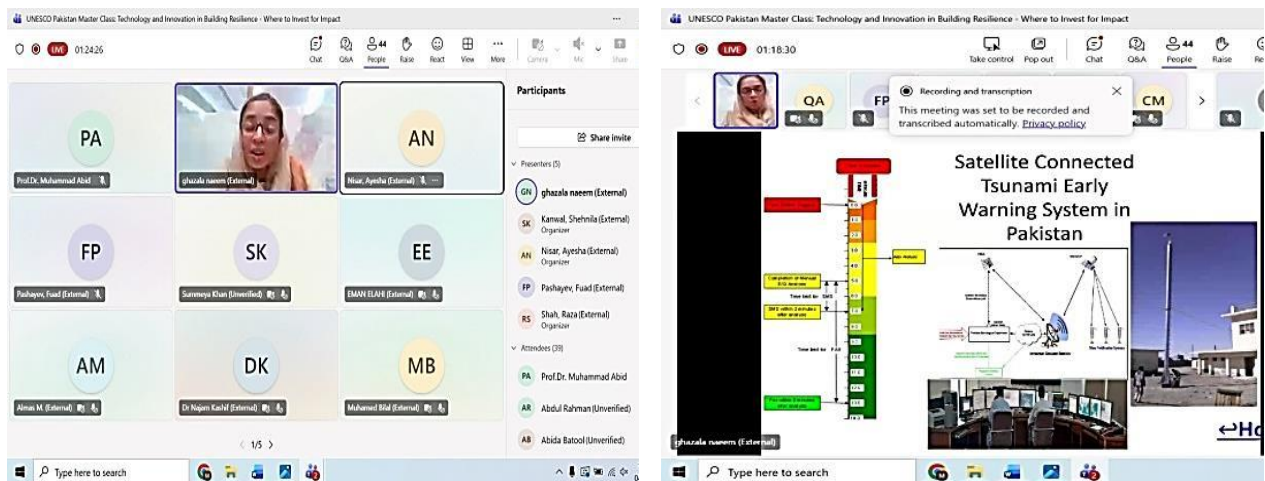
Engr. Dr. Basharat Hassan Bashir  
 CEO INFO D Consulting  
 Renewable Energy and Sustainable  
 Development Specialist

Muhammad Siddique  
 CEO Director  
 Biomass Gasifier Developing Company

## UNESCO Pakistan Master Class: Technology and Innovation in Building Resilience – Where to Invest for Impact , November 2025

On November 4, 2025, the UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM) attended the UNESCO Pakistan MasterClass titled “Technology and Innovation in Building Resilience – Where to Invest for Impact”, delivered by Ms. Ghazala Naeem, UNESCO Consultant on Disaster Risk Reduction, via MS Teams. This innovative e-learning initiative, launched by the UNESCO Office in Pakistan, aims to enhance access to advanced learning and promote educational excellence across Higher Education Institutions in the country.

The Master Class is part of the broader initiative “Empowering Minds for a Sustainable Future” and aligns with the International Day for Disaster Risk Reduction 2025, observed under the global theme “Fund Resilience, Not Disasters.” Participants explored strategies for leveraging technology and innovation to build resilience, discussed areas for impactful investment, and gained insights into effective disaster risk reduction practices that contribute to sustainable development.



“Data is the foundation of technology and innovation” —True resilience is built when data-driven decisions connect technology, institutions, and people



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## Participation in Inception Workshop on Flood Early Warning Systems (FEWS) , November 2025

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The UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof. Dr. Muhammad Abid, T.I., attended the Inception Workshop on Pakistan's Flood Early Warning Systems (FEWS) Review held on November 25, 2025, at the Serena Business Complex, Islamabad. The event was organized by the UNESCO Representative Office in Pakistan. The workshop brought together key institutions and stakeholders including federal and provincial agencies, academia, UN partners and JICA to jointly discuss the scope of the initiative and validate the assessment framework for strengthening Pakistan's multi-hazard early warning capacities. The comprehensive review covered riverine floods, flash floods, urban flooding and GLOFs and assesses the full early warning chain from monitoring and forecasting to last-mile delivery.

In the opening remarks, UNESCO Representative Mr. Fuad Pashayev highlighted the significance of the initiative, stating: "The work we begin today is not only technical - it is about safeguarding communities and ensuring no disaster becomes a tragedy".

As an invited expert, the UNESCO Chair on Knowledge Systems for IWRM contributed valuable insights on the methodology, effectiveness and responsiveness of the FEWS to enhance community resilience.



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## One Day Hands on Training Workshop on Mastering EndNote , December 2025

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A highly successful One-Day Hands-on Training Workshop on "Mastering EndNote" was jointly organized by the Department of Agronomy and ORIC, Pir Mehr Ali Shah Arid Agriculture University, in collaboration with the UNESCO Chair on Knowledge Systems for IWRM, on Thursday, December 18, 2025. The workshop was conducted in hybrid mode, with on-site participation at Pir Mehr Ali Shah Arid Agriculture University.

The workshop was honored by the presence of the Chief Guest, Prof. Dr. Muhammad Abid, T.I., Director, Interdisciplinary Research Center and UNESCO Chair on Knowledge Systems (IWRM), COMSATS University Islamabad, Wah Campus. In his thought-provoking and inspiring address, he highlighted the future of education and emphasized the critical importance of research collaboration in addressing complex academic and societal challenges. He elaborated on key dimensions of research collaboration, including interdisciplinary, inter-institutional and

international and academia–industry partnerships. He discussed their role in enhancing the quality, impact and ethical standards of research, while also shedding light on the associated challenges.

The technical sessions of the workshop provided participants with practical, hands-on training in using EndNote. Participants learned how to create and manage reference libraries, import citations from leading academic databases, organize and annotate PDFs and effectively use Cite While You Write (CWYW) to ensure accurate and professional academic writing.

Dr. Abid extended his sincere thanks to Dr. Mukhtar Ahmed, Assistant Professor, PMAS Arid Agriculture University, for the invitation, and also appreciated the efforts of the organizers, facilitators and participants for their active engagement and valuable contributions, which made this capacity-building initiative a great success.



# COMPETITIONS

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## Participated/Organized

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### Mathematical Olympiad 2025

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The COMSATS Mathematical Olympiad (CMO), organized annually by the Department of Mathematics at COMSATS University Islamabad, Wah Campus, to celebrate the *International Mathematics Day (March 14)*, is held under the flagship of the UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM). The 2025 edition of the Olympiad began with preparatory sessions from February 17 to 20, 2025, followed by the final test on February 22, 2025 and Prize distribution was held on March 13, 2025.

The primary objective of the Olympiad is to ignite a passion for mathematics among high standard students, provide them a competitive platform to demonstrate their problem-solving skills by competing to excel in science and technology and brighten contribute to enhancing their quality of life, empowering girls in the field of mathematics and addressing the achievement of the Sustainable Development Goals (SDGs).

This year, 725 high achieving students registered for the Olympiad, out of them 501 students from 26 colleges across Wah, Taxila, Hassanabdal, and Rawalpindi participated in the preparatory and training sessions from February 17–20, 2025. In addition to academic sessions, participants also engaged in career counseling sessions organized by various departments at CUI Wah Campus to help them to enhance their professional skills. On February 22, 2025, the participants took part in the final written test, and the top five achievers were selected for the final quiz.

In the opening session of Prize Distribution Ceremony on March 13, 2025, HoD Mathematics, Dr. Muhmmad Rafiq Siyal presented the event report. He encouraged all participants to give their best efforts in the competition

The Rector CUI, Prof. Dr. Sajid Qamar, graced the prize distribution ceremony as a Chief Guest at the final competition. He appreciated the efforts of COMSATS University Islamabad, Wah Campus for arranging this event, engaging and giving an opportunity to young to demonstrate their talent and emphasized that such competitions are vital for the development of students' skills and their professional growth.

The Prof. Sajid, distributed certificates of appreciation and CUI Scholarship Award Letters to the top 10 highest-scorer participants, Top three position holders were additionally awarded with the cash prizes and shields.

1<sup>st</sup> Position – Muhammad Hamza Irfan

2<sup>nd</sup> Position – Abdul Wahab Naeem

3<sup>rd</sup> Position – Muhammad Waqas Noori

In his remarks, Prof. Dr. Muhammad Abid T.I., Director Campus, expressed his deep appreciation for the efforts of all participants, highlighting their dedication and commending the winners for gaining valuable experience. He also thanked the Chief Guest, distinguished guests, and the respective college principals for their presence at the event. Prof. Dr. Abid acknowledged the efforts of the event convener Dr. Shabieh Farwa and all members of the organizing team, particularly the faculty from the Department of Mathematics.

At the end the Director Campus presented the shield to the Chief Guest with the vote of thanks.



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## World Water Day 2025: Youth Engagement through Competitions for Glacier Preservation – April 2025

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World Water Day 2025 was commemorated with a series of youth-focused competitions designed to raise awareness and inspire action on this year's theme: "Glacier Preservation". These initiatives emphasized the vital role of young people in addressing the dual crises of climate change and water insecurity.

The competitions aimed to mobilize youth to become climate advocates and innovators by exploring the impact of climate change on glaciers - critical freshwater sources and proposing solutions for their conservation. There are two competitions were announced in which students from around the country has been participated.

### In Inter-University Research Competition

Young researchers from across Pakistan presented impactful research on glacier-related challenges and sustainable water resources management. Their contributions reinforced the scientific urgency of climate action.

#### **Award Winners:**

**1st Place:** Ms. Aliza – Sindh Agriculture University, Tandojam

**2nd Place:** Ms. Ishrat Fatima – University of Baltistan

**3rd Place:** Ms. Ariba Javed – Coordinator, UNESCO Chair on Medicine and Bioorganic Natural Product Chemistry, ICCBS, University of Karachi

#### **Consolation Awards:**

Mr. Abdullah Ikram – KFUEIT, Rahim Yar Khan

Mr. Saif Ullah – IT University, Lahore

Mr. Ibrahim Sadiq – UET Taxila

### In Youth Video Competition

Participants used digital storytelling to creatively highlight the importance of glacier preservation as a critical component of climate resilience and water sustainability.

#### **Award Winners:**

**1st Place:** Mr. Rohan Ahmed – NED University of Engineering & Technology

**2nd Place:** Mr. Yasir Abdullah – Namal University, Mianwali

**3rd Place:** Mr. Mutahir Hussain Shah – Roots International Schools & Colleges

#### **Consolation Awards:**

Mr. Mir Anees – Karakoram International University, Gilgit

Mr. Raheel Ahmad – COMSATS University Islamabad (Wah Campus)

These competitions served as a powerful platform for youth to express their commitment to climate action. Through research and creative expression, participants raised awareness about the accelerating loss of glaciers due to climate change and the urgent need for collective global efforts to protect these vital ecosystems.



## POTENTIAL INTERNATIONAL COLLABORATIONS

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### ESG Nexus Launch Event , April 2025

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Prof. Dr. Muhammad Abid, T.I., Director Campus/UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), attended the launch of the Environmental, Social and Governance (ESG) Nexus Launch Ceremony on April 9, 2025. The event provided valuable insights into Pakistan's ESG landscape and highlighted best practices for implementing the SECP's ESG regulations to foster corporate growth. The event brought together industry leaders, corporate executives and policymakers. The event featured keynote addresses, panel discussions and also provided a platform to establish networking opportunities focused on the upcoming Green Finance Taxonomy for sustainable investments. The gathering aims to explore key pathways for Pakistan to achieve sustainable development, strengthen climate resilience and to promote ethical governance.

### Pakistan Minerals Investment Forum, April 2025

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The Director Campus/UNESCO Chair on Knowledge Systems for Integrated Water Resources Management (IWRM), Prof. Dr. Muhammad Abid, T.I., invited by Siemens Pakistan, attended the Pakistan Minerals Investment Forum 2025, held on April 8, 2025, at the Jinnah Convention Center, Islamabad. Dr. Abid emphasized on fostering collaboration and establishing connections with global policymakers and mineral industry experts. His focus was on exploring academic collaboration opportunities, capacity building and advancing in the field of mineral resources management in co-operation with the mineral industry. Dialogue participated on the challenges faced by the energy industry, such as decarbonisation, wide scale digital industry automobilization and decentralisation.

The event provided a dynamic platform for open debates on policies that will shape the future of the minerals industry. Experts underscored the vast potential of Pakistan's mineral wealth and emphasized the need for sustainable resource management within the sector. The forum featured engaging panel discussions, exhibitions and high-level dialogues, all focused on tapping into the immense opportunities of Pakistan's mineral resources.



## ASHRAE NPL, Officers Installation Ceremony

On the occasion, Dr. Abid, T.I., UNESCO Chair on Knowledge Systems for IWRM was also honoured with a **Certificate of Appreciation** in recognition of his outstanding services and valuable contributions to CUI Wah Campus as Advisor of ASHRAE Student CUI Wah Chapter and the ASHRAE community.

Being the selected member of the Board of Governors (BoG), Dr. Abid also took the oath along with other BoG members.

This achievement highlights the strong academic and professional linkages of CUI Wah Campus with global professional bodies, promoting excellence in research, innovation and industry engagement.

