

TIME		INAUGURAL SESSION		
08.30 – 09.30 am		Registration		
09.30 – 09.35 am		Guests to be seated		
09.35 – 09.40 am		Recitation from Holy Quran		
09.40 – 09.50 am		Welcome Address by Conference Patron		
09.50 - 10.00 am		Address by Keynote Speaker-1		
10.00 - 10.20 am		Address by Keynote Speaker-2		
10.20 – 10.30 am		Address by Vice Chancellor		
10.30 – 10.40 am		Address by Chief Guest		
10.40 - 10.45 am		Presentation of Memento		
10.45 – 10.55 am		Vote of Thanks by Convener		
10.55 – 11.25 am		Hi Tea		
TECHNICAL SESSIONS OF THE CONFERENCE				
TECHNICAL SESSION-I (11.30 AM– 02.30 PM)				
Chairman: Prof. Dr. Sohail Ahmed Soomro			Secretary: Dr. Ahsanullah Soomro	
Time	Type of Presentation	Name of Speaker	Affiliation	Title of Talk/Research
11.30am – 12.00 noon	Keynote Speech	Prof. Ir. Dr. Andrew Ragai Henry Rigit	Universiti Malaysia Sarawak (UNIMAS), Malaysia	Optimizing Biogas Utilization from Palm Oil Mill Effluent in Dual-Fuel Engines: A CFD Simulation Approach
12.00 noon 12.30 pm	=	Dr. Mehmood Ali	NED University Karachi	Microalgae as a part of an integrated approach to carbon dioxide sequestration, as a source for biofuel production and wastewater treatment
12.30-pm 12.45 pm	Research Paper	Engr. Sajjad Ali Soomro	SIDA Hyderabad	Flood Surface Profile through HEC-GeoRAS Modelling from Guddu to Arabian Sea of the Indus River
12.45-pm 01.00 pm	Keynote Speech	Prof. Dr. Muzaffar Ali	UET, Texila	Sustainability through Active and Passive Solar Air Conditioning: A Step towards Green Buildings
01.00 pm-01.15pm	=	Engr. Sooraj Kumar	MUET, Jamshoro	Utilizing Sulfonated Biochar Catalyst Derived From Date Seeds to Enhance Biodiesel Production
01.15 pm–01.25 pm	=	Engr. Ali Murtaza Ansari	Hamdard University Karachi	Feasibility of Green Alcohol Blend Fuel with gasoline on the Exhaust Emission in Spark Ignition Engine
01.25pm–01.35pm	=	Dur-e-Nayab Urf Sabeen Bibi	QUEST, Nawabshah	Efficacy of Building Performance: A Case Study of Public Sector Infrastructure
01.35 pm-01.45 pm	=	Mr. Zahid Yousif	QUEST Nawabshah	A Comprehensive Review of IoT-Based Environmental Monitoring: Challenges, Advances, and Future Directions
01.45 pm– 02.30 pm		LUNCH AND PRAYER BREAK		
TECHNICAL SESSION-II (02.30 PM-4.35 PM)				
Chairman: Prof. Ir. Dr. Andrew Ragai Henry Rigit			Secretary: Dr. Ghulam Sarwar Kaloi	
02.30 pm–02.50 pm	Key Note Speech	Assoc. Prof. Ir. Dr. Mohd Danial Bin Ibrahim	Universiti Malaysia Sarawak (UNIMAS), Malaysia	Energy Sustainability through Mechanical System Optimizations: UNIDO Projects in Malaysia
02.50 pm-03.10 pm	Research Paper	Dr. M. Safar Korai	MUET Jamshoro	Floods and Droughts: Challenges, Impacts, and Sustainable Solutions
03.10 pm–03.30 pm	=	Dr. Ali Asghar Mahessar	SIDA Hyderabad	Emergency Preparedness Plan (EPP)-Guddu Barrage for Adaption of Climate Change
03.30 pm–03.40 pm	=	Ms. Sameena Hanif Rajput	SBBU, Shaheed Banarizabad	From Pollution to Solution: Nanotechnology’s Sustainable Approach to Environmental Cleanup
03.40 pm-03.50 pm	=	Engr. Adeel Mukhtar Arain	MUET Jamshoro	Exploring the Evolution and Benefits of Geopolymer Concrete in low thermal conductivity, high strength and light weight Block Production. Review
03.50 pm-04.00 pm	=	Prof. Dr. Ahmad Hussain	Dean FEAS, DHA Suffa University, Karachi	Utilization of Agricultural Wastes – A promising way to convert Waste to Wealth
04.00 pm-04.10 pm	=	Ms. Nimra Manzoor	QUEST Nawabshah	Reduction of Turbidity from Synthetic Water using Natural Coagulants
04.10 pm-04.20 pm	=	Mr. Zeeshan	QUEST Nawabshah	Influences of Green Alcohol Blend Fuels on Sound Emission in Spark Ignition Engine
04.20 pm – 04.35 pm		HI TEA		
TECHNICAL SESSION-III (04.35 PM-6.00 PM)				
Chairman: Prof. Ir. Dr. Mohd Danial Bin Ibrahim			Secretary: Dr. Shakeel Ahmed Kamboh	
04.35 pm–04.50 pm	Key Note Speech	Dr. Sardar Sarfaraz	Ex-Chief Meteorologist, PMD Karachi	Investigating the Crops Yield and Climate Parameters Regression Model Based On Akaike Information Criteria
04.50 pm-05.00 pm	Research Paper	Engr. Pritam Das	SIDA Hyderabad	Management of Environmental Flow at Downstream of Kotri Barrage, Sindh
05.00 pm-05.10 pm	=	Dr. Sadam H. Jakhrani	BBSUTSD Khairpur Mirs	A comparative study on effect of different roof-cooling materials on internal temperature of a room in a building
05.10 pm-05.20 pm	=	Ms. Sameena Hanif Rajput	SBBU, Shaheed Banarizabad	Sustainable Green Synthesis of TiO2 Nano materials for Water and Air Pollution Control
05.20 pm-05.30 pm	=	Mr. Tasawar Ali Chandio	Geological Survey of Pakistan, Karachi	Valorization of Mining, Industrial & Natural Alkaline Mineral Waste Resources to Combat Climate Change
05.30 pm-05.40 pm	=	Dr. Tahseen Fatima Miano	SAU Tandojam	Innovative Waste Management Strategies for Mitigating Climate Change and Pollution: A Sustainable Approach
05.40 pm-05.50 pm	=	Engr. Ubaidullah Khan	QUEST Nawabshah	Investigating Rainfall-Induced Degradation and Policy Implications in Climate Resilience of Reinforced Concrete Buildings in Sindh
05.50 pm-06.00 pm	=	Ms. Maryam Afridi	QUEST Nawabshah	Assessment of Piston Crown Accumulation in Compression Ignition Direct Injection Engine

DAY TWO (APRIL 10, 2025)

TECHNICAL SESSION-IV (09.00 AM-11.50 AM)				
Chairman: Prof. Dr. Abdul Nasir Laghari			Secretary: Dr. Abdul Rehman Jatoi	
Time	Type of Presentation	Name of Speaker	Affiliation	Title of Talk/Research
09.00am – 09.20 am	Key Note Speech	Dr. Shah Jahan Leghari	Northwest A&F University, Yangling, Shaanxi, 712100, China	What should we do for water security? A technical review on more yield per water drop
09.20 am- 09.40 am	=	Engr. Danish A. Khokhar	QUEST Nawabshah	Evaluation of Removal Efficiency of Anthracene from Water Using Mixed Pumice and Charcoal Based Column
09.40 am- 10.00 am	=	Dr. Shaista Mahmud	Bahria University Karachi Campus	Resilient Futures: Managing Groundwater Resources in a Changing Climate
10.00 am- 10.20am	Research Paper	Mr. Hizbullah Mangrio	SIDA Hyderabad	Groundwater Quality Assessment Using Geo-spatial and Statistical Tools: A Case Study of Badin District, Coastal Belt of Sindh, Pakistan
10.20 am – 10.35 am	=	Mr. M. Amin Khushk	SIDA Hyderabad	Surface Water Quality Evaluation Using Water Quality Index and Geospatial Tools: A case study of Manchar Lake, Sindh Pakistan
10.35 – 10.50am	=	Dr. Faheem Ahmed Solangi	QUEST, Nawabshah	Evaluation of Engine Exhaust Valve Debris in Single Cylinder Diesel Engine
10.50 – 11.05 am	=	Engr. Zuhebullah Soomro	The University of Larkano	Simulation and Experimental Analysis of Power Factor of Phase Angle Controlled AC-AC Converters
11.05am – 11.20 am	=	Mr. Noor Zaman Shar	PCRWR, Regional Office Hyderabad	Monitoring Report of Drinking Water Filtration Plants District Hyderabad
11.20 am – 11.50 am		HI TEA		
TECHNICAL SESSION-V (11.50 AM-02.30 PM)				
Chairman: Prof. Dr. Abdul Qayoom Jakhrani			Secretary: Dr. Jam Shahzeb Sahito	
11.50am – 12.10 pm	Key Note Speech	Prof. Dr. Muhammad Arif	Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan	Highly active sites of CoFeB nanosphere encapsulated with graphene nanosheets towards efficient electrocatalysts for nitrogen reduction reaction applications
12.10 pm- 12.30 pm	=	Dr. Mukesh Kumar Soothar	Northwest A&F University, Yangling, Xianyang 712100, China	Response of Soil Chemical Properties in Response to Biochar Application under Saline-Alkali Soils-A global meta-analysis
12.30 pm- 12.45 pm	Research Paper	Syed Muhammad Ahmad Bukhari	Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan	Computational Investigation of Energy Dissipation through Coastal Vegetation: Comparing Cylindrical and Crown-inclusive Tree Models Using CFD
12.45 pm – 01.00 pm	=	Dr. Jawad Abdullah Butt	Bahria University Karachi Campus	Coal and Rice Husk Co-Combustion Effects on Gaseous Emissions for Environmentally Sustainable Energy Generation
01.00 pm- 01.10 pm	=	Dr. Mahmood Laghari	SAU Tandojam	Recovery of Phosphorus and Potassium from Municipal Sewage Sludge and Buffalo Manure via Pyrolysis
01.10 pm- 01.20pm	=	Mr. Noor Zaman Shar	PCRWR, Regional Office Hyderabad	Synthesis and Characterization of Organoclay Reinforced Polyester Nanocomposite Materials
01.20 pm – 01.30 pm	=	Engr. Razia Begum	MUET, Jamshoro	Sustainable Biomethane Production: Maximizing high energy content biomass Potential in Pakistan
01.30 pm – 01.40 pm	=	Dr. Ghulam Raza Sargani	Sichuan Agricultural University, Chengdu, China	No Farmer No Food, Assessing Farmers Climate Change Mitigation, and Adaptation Behaviors in Farm Production
01.40 pm – 01.50 pm	=	Dr. Abdul Ghaffar Shar	QUEST Nawabshah	Effects of Different Organic Amendments and Mineral Nutrients Addition on Soil Organic Carbon Sequestration in Aeolian Sandy Soil
01.40 pm – 02.30 pm		LUNCH AND PRAYER BREAK		
TECHNICAL SESSION-VI (02.30 PM-04.30 PM)				
Chairman: Prof. Dr. Shahid Hussain Siyal			Secretary: Dr. Abdul Rafy Khatri	
02.30 pm– 02.45 pm	Key Note Speech	Dr. Yasmin Nergis	Bahria University Karachi	Groundwater Dynamics in Karachi: Comparative Analysis of More than Two Decades of Extraction, Quality Changes, and Seawater Interruption in Water Table
02.45 pm– 03.00 pm	Research paper	Dr. Glulam Murtaza Arain	SIDA Hyderabad	Weak Enforcement of Environmental Water Laws to Control Disposal of Wastewater into Irrigation Channels and Fresh Water Bodies of Sindh province
03.00 pm– 03.15pm	=	Syed Muhammad Ahmad Bukhari	Khwaja Fareed University of Engineering and Information Technology, Rahim Yar Khan	Investigating the Role of Submerged and Emergent Vegetation in Mitigating Tsunami and Flood Currents
03.15 pm- 03.25 pm	=	Engr. Ruquia Zardari	QUEST Nawabshah	Performance and Economic Feasibility of Grid-Connected Residential Solar PV Systems with Net Metering for HESCO Consumers
03.25 pm- 03.35 pm	=	Dr. Tasawar Ali Chandio	Geological Survey of Pakistan Karachi	Impact of Climate Change on Pakistan's Environment, Agriculture, Communities, and Economy
03.35 pm- 03.45pm	=	Engr. Murtaza Hassan	QUEST Nawabshah	Design and Performance Analysis of Parabolic Trough Solar Water Heating System
03.45 pm- 03.55 pm	=	Mr. Noor Zaman Shar	PCRWR, Regional Office Hyderabad	Development of a Groundwater Treatment System for Removal of Arsenic
03.55 pm- 04.05 pm	=	Mr. Talib Hussain	SEPA Regional Office Shaheed Benazirabad	Development of DAC4/MXene Composite Membrane for the Sustainable Treatment of Industrial Waste Water
04.05 pm – 04.30pm		HI TEA		
TIME		CONCLUDING SESSION		
04.30 – 04.40 pm		Guests to be Seated		
04.40 – 04.45 pm		Recitation from Holy Quran		
04.45 - 04.55 pm		Overview by Conference Patron		
04.55 – 05.10 pm		Distribution of Shields & Certificates to Authors and keynote speakers		
05.10 – 05.20 pm		Address by Vice Chancellor		
05.20 – 05.30 pm		Address by the Chief Guest		
05.30- 5.35 pm		Presentation of Memento to Chief Guest		
05.35 – 05.40 pm		Vote of Thanks by Convener		
05.40 – 06.00 pm		HI TEA		