

4th Young Researchers National Conference on Water and Environment with special focus on Urban WASH 2021 29th – 30th March, 2021

Day-1: Monday, 29th March 2021 (USPCAS-W, Jamshoro)

9:00	9:45	Registration
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INAUGURAL SESSION (Auditorium)

9:45	10:00	Guests to be seated	
10:00	10:05	Recitation from the Holy Quran	Ms. Samina Laghari
10:05	10:15	Welcome Address	Prof. Dr. Rasool Bux Mahar (Director, USPCASW)
10:15	10:25	Objectives of the conference	Prof. Dr. Kamran Ansari (Convener, NCWE-21)
10:25	10:40	Water, Environmental and Urban WASH Challenges of Pakistan	Ms. Simi Kamal (Online)
10:40	10:50	Presentation of shields & Souvenir	
		Address by the Guest of Honour	Dr. Shaikh Tanveer Ahmed (Chief Executive, HANDS)
10:50	11:05	Address by the Chief Guest	Prof. Dr. Muhammad Aslam Uqaili (Vice Chancellor, MUET)
11:05	11:10	Vote of Thanks	Mr. Ghulam Mustafa Zaor (Chief of Party, WGCB)
11:10	11:30	High Tea and Networking	

PLENARY SESSION - I (Auditorium) WASH (Challenges & Opportunities)

Session Chair		Prof. Dr. Bakhshal Lashari	
Session Co-chair		Prof. Dr. Najma Memon	
Time	Speaker	Organization	Title of Talk
11:30	11:50	Dr. Muhammad Ashraf	PCRWR
11:50	12:10	Dr. Sumayya Sajjad	Tear Fund
12:10	12:30	Dr. M. Naveed Iftikhar	Urban Innovation
12:30	12:50	Mr. Kamran Naem	UNICEF Country Office
12:50	13:15	Questions & Answers Session	
13:15	13:30	Souvenir and Shield Distribution	
13:30	14:30	Lunch/Prayer Break	

TECHNICAL SESSIONS				
Technical Session 1 (A) - Auditorium			Water Wastewater Treatment	
Session Chair			Dr. Khadija Qureshi	
Session Co-chair			Dr. Tanveer Gadhi	
14:30	14:40	Faiza Bhutto	USPCAS-W	Treatment of Wastewater Generated From the USPCAS-W Center By Using Membrane Bioreactor System
14:40	14:50	Aqsa Channa	USPCAS-W	Performance Evaluation of Membrane Bioreactor Using Anaerobic-Aerobic Conditions Combined For Treatment Of Indigo Dye Effluent
14:50	15:00	Altaf Hussain	USPCAS-W	Development of Iron Embedded-Biochar (Acacia Nilotica) For Arsenic Sorption Via Fixed-Bed Column Adsorption
15:00	15:10	Aadil Muneer	USPCAS-W	Adsorption performance of Acacia Nilotica for Arsenic Removal
15:10	15:20	Abdul Manan	USPCAS-W	Photocatalytic Removal of Cod Using Bismuth Oxide Coated Clay Filter
15:20	15:30			Questions & Answers
Technical Session 1 (B) - Conference Room			Irrigation Engineering	
Session Chair			Dr. Muhammad Ashraf	
Session Co-chair			Dr. Muhammad Muneer Babar	
14:30	14:40	Hasnain Gul	USPCAS-W	Designing a System Using Ultrasonic Sensor for Realtime Monitoring of Flow Depth in Canals
14:40	14:50	Fizah Saeed	USPCAS-W	Representative Laboratory Testing of Polymer-Based Seepage Reduction
14:50	15:00	Tarique Aziz	USPCAS-W	Evaluation of Equitable Water Distribution in the Secondary Canals of Jamrao West Branch
15:00	15:10	Mahtab Ahmed	USPCAS-W	Fabrication of Economical Smart Soil Moisture Sensor with Calibration Algorithm for Smart Irrigation
15:10	15:20	Parkash Kumar	USPCAS-W	Quantification of Seepage Losses from Lined and Unlined Distribuataries Using Acoustic Doppler Current Profiller (ADCP)
15:20	15:30			Questions & Answers
Technical Session 1 (C) - Room no 6			Climate Change: Impacts and Analysis	
Session Chair			Dr. Abdul Latif Qureshi	
Session Co-chair			Dr. Arjumand Zaidi	
14:30	14:40	Samina Laghari	USPCAS-W	Rainfall Frequency and Trend Analysis of Rainfall in Tharparker
14:40	14:50	Muhammad Ali Khan	USPCAS-W	Drought Trends in Sindh Province: A Case Study of Tharparker District
14:50	15:00	Nayyab Agha	USPCAS-W	Evaluation of the Tropical Rainfall Measuring Mission (TRMM) 3B42 Version 7 Dataset Performance over the Upper Indus Basin
15:00	15:10	Fehmida Rafi	USPCAS-W	Evaluation of Extreme Precipitation of 2010 over Kabul River Basin Using a Regional Climate Model
15:10	15:20	Talal Naseer	USPCAS-W	A Comparative Analysis of Cmems Derived Water Levels With Tide Gauge Data on Coast of Karachi, Pakistan
15:20	15:30			Questions & Answers
15:30	16:00	High Tea and Networking		

Technical Session 2 (A) - Auditorium				Water & Wastewater Treatment
Session Chair			Dr. Zeeshan Khatri	
Session Co-chair			Dr. Naveed Qambrani	
16:00	16:10	Tufail Ahmed	USPCAS-W	Investigate the Antimicrobial Activity of Synthesized And Characterized Zinc Oxide/Titanium Phosphate Nanocomposite
16:10	16:20	Arsalan Shaikh	USPCAS-W	Evaluation of Fungal Removal in Biofilms Formed on Different Pipe Materials of Drinking Water Distribution System
16:20	16:30	Hamza Hussain	USPCAS-W	Anaerobic Co-Digestion of Textile Sludge With Buffalo Dung for the Production of Bio-Gas Using SAMPTS (Semi Automated Methane Potential Test System)
16:30	16:40	Anira Latif	USPCAS-W	Photocatalytic Decolorization Using Bismuth Oxide Clay Filter
16:40	16:50	Imtiaz A. Bhurt	USPCAS-W	Use of Synthesized Clay Filter Coated With Iron Doped Titanium Dioxide for Dye Decolorization
16:50	17:00	Syed M. Hadi	USPCAS-W	Marine Pollution in Pakistan; A legal perspective
17:00	17:10	Waseem Saleem	USPCAS-W	Photocatalytic Degradation of Organic Dyes Using Nickel/Titanium Phosphate (Ni/Tip) Nanocomposite
Technical Session 2 (B) - Conference Room				Industrial Pollution & Control
Session Chair			Dr. Zubair Ahmed	
Session Co-chair			Dr. Sara Hassan	
16:00	16:10	Mohammad Siddique	CH, MUET	Blending Effect of Biomass an Alternative to Coal in Co-Firing on the Emission of NOx/SOx
16:10	16:20	Nayab Raza	USPCAS-W	Color Removal from Real Textile Wastewater Using Bacteria and Microalgae in Two-Stage Process
16:20	16:30	Muhammad Awais Jamali	CH, MUET	Arsenic Removal from Ground Water Using Solar Capacitive Deionization Electrodialysis Module
16:30	16:40	Saman Zaidi	CH, MUET	Dynamic Study of Lead Adsorption Using Modified Pan Fiber in Fixed Bed Column: A Simulation Based Study
16:40	16:50	Syed Najaf Ali	USPCAS-W	Removal of Lead From Aqueous Solution by Prosopis Juliflora Biochar
16:50	17:00	Tamt ul Nisa	USPCAS-W	Treatment of Formaldehyde Containing Wastewater
17:00	17:10			

Technical Session 2 (C) - Room No 6			Water supply, Sanitation & Hygiene	
Session Chair			Dr. Jamil Ahmed	
Session Co-chair			Dr. Ayesha Tajammul	
16:00	16:10	Noor Un Nisa	USPCAS-W	Antibacterial and Phytochemical Analysis of Lactuca Sativa (Lettuce) Leaves Against Isolated Clarithromycin-Resistant Bacteria
16:10	16:20	Muhammad Aamir	USPCAS-W	Fluoride Level in Drinking Water Sources and Prevalence of Dental Fluorosis in School Children of District Tharparkar Sindh
16:20	16:30	Erum Iqbal	USPCAS-W	Assesment of Chlorine-Tolerant Bacteria from Drinking Water Supply of Latifabad, Hyderabad
16:30	16:40	Noman Ali	USPCAS-W	Identification of Antibiotic-Resistant Bacteria in Hospital Sink of Jamshoro, Pakistan
16:40	16:50	Sadaf Tagar	USPCAS-W	Assessment of Microbial Contamination on the Hands of Poultry Butchers and Determination of Antibiotic Resistant of Salmonella
16:50	17:00	Sanjay Meghwar	USPCAS-W	Identification of Antibiotic Resistance Microbes Emerging from Hospital Laundry Wastewater
17:00	17:10	Tayyab Ahmed	USPCAS-W	Influence of Fe(III) and Al(III) on Struvite Precipitation
17:15	18:00	Tea and Networking		

DAY-2: Tuesday, March 30, 2021 (HANDS Head Office, Karachi)

PLENARY SESSION - II (Auditorium)			Urban WASH: Challenges and Opportunities	
Session Chair		Mr. Ghulam Mustafa Zaor		
Session Co-chair		Dr. Kamran Ansari		
Time	Speaker	Organization	Title of Talk	
10:00	10:20	Mr. Arif Hasan	Urban Planner	Water Supply and Sewage : The Benefit of Decentralization
10:20	10:40	Mr. Imran Yusuf Shami	UNICEF	URBAN WASH & Stainability Development Goals
10:40	11:00	Mr. Faheem Junejo	Sindh MSDP	WASH - Concept and Chanlenges in the context of SDGs
11:00	11:20	Ms. Tania Khan	WSSCC	Addressing Inequalities and Discrimination of WASH
11:20	11:50	Questions & Answers Session		
11:50	12:00	Souvenir and Shield Distribution		
12:00	12:30	High Tea and Networking		

TECHNICAL SESSIONS				
Technical Session 1 (A) - Auditorium			Water Supply, Sanitation & Hygiene	
Session Chair		Dr. Sarwat Mirza		
Session Co-Chair		Mr. Ahmed Bux Dayo		
12:30	12:40	Dr. Ramesh Kumar	HSA, Islamabad	Public-Private Partnership in WASH Opportunities and Challenges
12:40	12:50	Mr. Parkash Malhi	HANDS Pakistan	Comparative Analysis of Wash and Infrastructure Services at Hands
12:50	13:00	Dr. Ramesh Kumar	HSA, Islamabad	Findings from Water Water Accounting study in Jacobabad
13:00	13:10	Noor ul Ain Talpur	USPCAS-W	Comparative Analysis Between Reusable and Disposable Sanitary Pads and Assessing Hygienic Status of Women in Impoverished Community of Sindh
13:10	13:20	Murk Gadehi	USPCAS-W	Assessment of Legionella Specie and its Antibiotic Sensitivity in Drinking and Tap Water of Primary Schools
13:20	13:30	Bakhtawar Pirzada	USPCAS-W	Comparative Study of Euphorbia and Lemon Ficus as Disinfectant Against Sink Microbes
Technical Session 1 (B) - Meeting Room-A			Water Supply, Sanitation & Hygiene	
Session Chair		Dr. Ayesha Tajammul		
Session Co-chair		Mr. Maaz Tanveer		
12:30	12:40	Muhammad Tehseen	USPCAS-W	Use of Bacterial Consortium and Microalgae for the Treatment of Mea Ww in a two Stage Process
12:40	12:50	Ali Husnain Keerio	USPCAS-W	Modified Photosynthetic Microbial Desalination Cell to Enhance Water Desalination
12:50	13:00	Sajad Ali Balal	USPCAS-W	Treatment of RO Membranes Reject Water Using Adsorptive Distillator Technique
13:00	13:10	Afsana Shaheen	USPCAS-W	Study of Cumulative Biogas Production in Anaerobic Digester at Different Ratios of Food Waste and Buffalo Dung
13:10	13:20	Sanam Bhatti	USPCAS-W	Antibiotic Resistance in Pathogens of Biofilms Using Disc Diffusion Method
13:20	13:30	Abdul Hanan	USPCAS-W	Removal Of Arsenic From Water Using Bismuth Coated Biomass Of Algae
13:30	14:30	Lunch and Prayer break		

Technical Session 2 (A) - Auditorium			Water Supply, Sanitation & Hygiene	
Session Chair			Mr. Maqbol Ahmed Rahu	
Session Co-chair			Ms. Rubina Jaffari	
14:30	14:40	Maheen Shaikh	USPCAS-W	Community Acquired Carbapenum Resistant in Urban Latrine Wastewater of Hyderabad Sindh
14:40	14:50	Waseem Lengah	CH, MUET	Application of Hybrid Solar Collector for Wastewater Purification and Desalination by Photocatalytic Material: A Low-Cost Treatment
14:50	15:00	Seher Halema	USPCAS-W	Simultaneous Photocatalytic and Microbial Degradation of Wastewater by α -Bi ₂ O ₃ Particles
15:00	15:10	Komal Soomro	USPCAS-W	Profiling of Carbapenem and Azithromycin Resistant Acinetobacter Baumannii Isolated from Jamshoro
15:10	15:20	Danish Khokhar	USPCAS-W	Removing of Atrazine Herbicide from Water by Titanium Nano-particles
15:20	15:30			Questions & Answers

CLOSING SESSION (Auditorium)				
15:30	15:40	Conference Report	Prof. Dr. Kamran Ansari	(Conference Covener)
15:40	15:55	Recommendations of the Conference	Prof. Dr. Rasool Bux Mahar	(Director, USPCAS-W)
16:10	16:30	Speech by Chief Guest	Dr. Shaikh Tanveer Ahmed	(Chief Executive, HANDS)
16:30	16:50	Prize Distribution and Presentation of Shields	Mr. Ghulam Mustafa Zaor, Ahmed Bux Dayo	
16:50	17:00	Vote of Thanks	Mr. Ghulam Mustafa Zaor	(Chief of Party, WGCB)
17:00	17:30	Networking on High Tea and Departure		