

<b>International Conference on Sustainable Urban Water Management in Fast Growing Cities, 2024</b> <b>DAY 1: 21st October 2024, Monday</b> <b>Registration 9:00-9:30 AM at registration desk near F206</b>					
Event	Time	Venue			Agenda
Inauguration	9:30 AM	F206			Welcoming the delegates
					Inaugural Address by Chief Guest
					Project Introduction
					Conference briefing by Convener
<b>Photograph, Tea Break and Networking Session (10:30 AM-11:00 AM)-F206</b> <b>Session 1</b>					
Event	Time	Speaker	Venue	Chair and Co-chair	Title of the talk
Keynote Address	11:00 AM	Prof. Gora Dutta, University of California, Berkeley	G204	Chair: Prof Rajiv Gupta Prof. Lavanya Suresh	
<b>Break (11:45 AM – 12:00 PM)</b>					
Keynote Address	12:00 PM	Prof. ML Kansal, IIT Roorkee	G204	Chair: Prof Abdul Malik Prof. Soundharajan B	Sustainable Urban Water Management in Secondary Cities of India
<b>Session 2: Interaction Session with Prof. Mihir Shah (F-206)</b>					
<b>Lunch Auditorium Foyer 1:00 PM – 02:00 PM</b>					
Keynote Address	2:00 PM	Prof. Mihir Shah	F206	Chair: Prof. Biswanath Dash	Urban Water Management in India Demands a Radical Break from the Past

<b>DAY 1, 21st October 3:00 PM- 5.00 PM</b>				
<b>Parallel Sessions</b>				
<b>Tea Break and Networking (3:45 PM – 4:00 PM)</b>				
<b>Session No.</b>	<b>Name of Presenters</b>	<b>Time</b>	<b>Title of presentation</b>	<b>Room No.</b>
Parallel session 1 Chair: Prof. A. Vasan Co-Chair: Prof. Kunaljeet Roy	Invited Talk by the chair: Prof. Vasan Arunachalam	3:00 PM – 3:45 PM	Systems Approach for Sustainable Water Resources Planning and Management	<b>F206</b>
	A. K. Thawait	4:00 PM – 4:20 PM	Impacts of Climate Change and Weather Extremes on Urbanization's Effects on Runoff and Erosion and Its Mitigation	
	Ambiliy P	4:20 PM – 4:40 PM	Blue Green Infrastructure for Urban Flood Resilience: A Paradigm Shift	
	Zoha Jafar	4:40 PM– 5:00 PM	Integrated Urban Water Management: Assessing Urban Impact and Dynamics in Relation to Seismic Microzonation with Special Reference to Rishikesh	
Parallel session 2  Chair: Prof. Abdul Malik Co-chair: Dr. Pullana	Talk by the chair: Prof. Abdul Malik	3:00PM – 3:45PM		<b>K119</b>
	Pooja. G	4:00 PM – 4:20 PM	A Comparative Study on the Removal of Emerging Contaminants in Water Systems Using Bio-synthesized and Chemical Surfactant-assisted Flotation Process	

	Cindrella Joy Joseph	4:20 PM – 4:40 PM	Minimum Inhibitory Concentrations of Selected Antibiotics Against Escherichia coli* Isolated from Muvattupuzha River, Central Kerala, India	
	Shirin Akhtar	4:40 PM– 5:00 PM	Assessment of Water Quality of the River Ganges at Garhmukteshwar, Uttar Pradesh	
Parallel session 3 Chair: Prof. B. Soundharajan Co-Chair: Dr. Deshbhusan	Talk by the chair Dr. B. Soundharajan	3:00PM – 3:45PM		<b>K219</b>
	Dr. Habibur Rahman Laska	4:00 PM – 4:20 PM	Management Control System for Stakeholders Involvement in Water Governance	
	Dr. Farhan Khan	4:20 PM – 4:40 PM	Growth Analysis of E. coli Bacteria in Groundwater	
	Dr. Quamrul Hassan	4:40 PM– 5:00 PM	Overcoming the Challenges in Blue-Green Infrastructure for Urban Water Management in the Cities of India	

## Undergraduate Poster/Oral Competition (3:00 PM – 05 :00 PM)

Track	Presenter's name	Title	Managing Team	Room No.
<b>Track 1</b>	Sai Ganesh Rejeti	Water Quality management using Artificial Intelligence (AI)	FIC: Prof. Debajit Bora	F106
	P. Ramu	AI-Driven Solutions for Water Resource Management and Sustainability	Technical Assistance: Sarita and Om	
	C. Charitha,	Untangling the Web of Water Pollution: How Industry and Agriculture Shape Water Quality	Co-coordinators: Purba and Ashwini	
	Aiswarya Suresh P P	Treatment of Hostel Greywater Using Hydrodynamic Cavitation Process	<b>Srishti Srivastav to evaluate the Best Poster</b>	
	Maheshwar Veladi,	Artificial Intelligence in Water Management for Sustainable Farming: A Review		
	S. Vikram Chawan	Adaptive Governance using Technology for Urban Water Challenges		
	Palamari Yuvateja	Digital Water: Enabling a More Resilient, Secure, and Equitable Water Future		
<b>Track 2</b>	G. Vishwanadh	Study on "Environment and Accountability Impact of Industrial Pollution on Rural Communities	FIC: Prof. Ufaque	F109
	Sahil Pillai	Innovative Approaches to Enhance Water Quality: Emerging Issues and Remedial Measures	Technical Assistance: Chhay Verma and Apurba	
	G.Gundappa	AI-Driven Waterscapes: Rethinking Urban Water Infrastructure	Co-coordinators: Ayesha Senjuti <b>Farhan Khan to evaluate the Best Poster</b>	
	A.Abhiram	Study on Addressing Industrial and Agricultural Contributions to Global Water Pollution		
	Adabala Pavan Kumar,	Sustainable Urban Water Management Through Digital Innovation		
	Daragani Laxmi Sahasra	Enhancing Cybersecurity in IoT and SCADA Systems for Critical Infrastructure Protection		
<b>Track 3</b>	T.Suresh	Integrating AI and IoT for Urban Water Monitoring and Management	FIC: Prof. Tony Sebastian	F207

	G. Tejaswini	The Water Management Aspect of Blue-Green Infrastructure in Cities	Technical Assistance: Ambika and Rohit Jha Co-coordinators: Archita  <b>Prof. Rajiv Gupta to evaluate the Best Poster</b>	
	Ansh Kalucha	Understanding the Socio-economic Drivers of Water Conservation; A Study Household Behaviour in Madurai, India		
	B. Narendra	An Exploratory Study on Technological Advancements Shaping Urban Water Systems		
	Geedi Haritha	Innovative Water-Free Cooling Solutions for Sustainable Data Centres		
	Chepuri Lalitha Alekhya	Artificial Intelligence Underpins Urban Water Infrastructure of the Future: A Holistic Perspective		
	M. Saideep	The Price of Progress: Addressing Water Pollution in the Age of Industry and Agriculture		
<b>Track 4</b>	M. Bhavya Reddy	Characterization of Distillery Effluent, Its Effect on Maize and Post-Harvest Soil Properties	FIC- Prof. Madhavi Jha Technical Assistance: Laxmi Kirshnana and Neha Srivastava Co-coordinators: Anwasha Mohanty and Nandana  <b>Akshay kumar to evaluate the Best Poster</b>	J115
	Mohammad Zaid Qamar	AI-Powered Inversion and Big Data Scenario Analysis for River Management		
	K. Nitheesha	A Study on Innovation Approaches to Integrated Urban Water Management Enhancing Water Security in Smart Cities		
	Kohir Varun Reddy	Smart Water Management Framework for Irrigation in Agriculture		
	Sandanaboina Anusha	Strategies for Combating Water Pollution from Industries in Expanding Villages		
	G. Sugamani	Environmental management of construction projects in Coastal regulation zone of Kakinada using QGis		

## Poster competition

**Chair: Prof. Rajiv Gupta**

**All the presenters would assemble at room No. F207 for Best Poster Presentation Certificates**

**DAY 2: 22nd October 2024, Tuesday**

**Registration 9:00 AM-9:30 AM Registration Desk near F206**

	Keynote speaker	9.30 AM	Prof. Arvind Susarla, Hyderabad Central University	F206	Chair: Prof Rajiv Gupta	How do social scientists understand 'water'?
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**Tea Break (10:15 AM-10:30 AM)-F206**

**Session 4: Water governance and Management (10:30 AM – 12:00 PM)**

	Invited Speaker	10:30AM - 12:00PM	Matthew Idiculla, National Law School of India University (NLSIU)	<b>K119</b>	Chair: Prof. Maya Vinai	Governing Urban Water: Legal and Planning Frameworks for Water- Resilient Cities
	Invited Speaker		Prof. Anjal Prakash, ISB Hyderabad		Prof. Spandan Bhattacharya	Prof. Suchismita

**Session 5**

<b>Keynote speaker</b>	12.00 PM	<b>Prof. Elizabeth Grohmann-</b> Professor of Molecular Microbiology at the Berlin University of Applied Sciences, Berlin, Germany.	Online- F206	Chair: Prof. Abdul Malik Co-chair: Prof. Pranesh Bhargava	<b>Antibiotic Resistance Gene Abundance and Transfer in Wastewater-Irrigated Soils</b>
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**DAY 2, 22nd October 10.30 AM- 12.00 PM**  
**Parallel Sessions**

Session No.	Name of Presenters	Time	Title of presentation	Room No.
Parallel session 4	Chair: Prof. Soundharajan Co-chair: Dr. Deshbhushan Patil			<b>K220</b>
	Abhijeet Das	10:30 AM – 10:50 AM	Integrated Study of GIS and Random Forest Algorithm to Identify Potential Sites for Assessing Surface Water Quality.	
	Subhashish Dey	10:50 AM – 11:10 AM	Synthesis And Characterizations of Biosorbent Materials For Removals of Sulphates from Contaminated Water for Better Aquatic Environments.	
	Rohit Jha	11:10 AM – 11:30 PM	Socio-spatial Analysis of the Peri-urban Waterscape: A Study of Hyderabad	
	Girish Girilal	11: 30 AM – 11:50 AM	Integrated Performance Management Systems (IMPS) for Pumping Stations	
<b>10.30 AM- 12.00 PM</b>				
Parallel session 5	Chair: Prof. Abdul Malik Co-chair: Prof. Rajiv Gupta			<b>F206</b>
	Prathamesh Deshmukh	10:30 AM – 10:50AM	A Review on Bio-rack Constructed Wetlands: Emerging Decentralized Wastewater Treatment System	

	Akshay Kumar	10:50 AM-11:10AM	Mapping and Assessing the Impacts of the Floods Using Microwave Remote Sensing and Google Earth Engine	
	P. Ramesh Chandra Phani	11:10 AM – 11:30 PM	Quality of Water in Himayat Nagar Lake of Hyderabad, Telangana	
	Supreet Jorawar	11: 30 AM – 11:50 AM	The Challenges of Waste-Water Infrastructure: A Case Study of Pune City	

**Lunch Auditorium Foyer 1:00 PM – 02:00 PM**

**Parallel Sessions 02:00PM – 04:00PM**

Parallel Session 6	Chair by Prof. Madhusree Co-chair: Prof. Abdul Malik			
	Hrushikesh	2:00 PM – 2:20 PM	Water Sustainability Using Geospatial Technologies	<b>K219</b>
	Mahima John Horta	2: 20 PM –2:40 PM	Cotransport of Clay and Microplastics in Saturated Porous Media	
	Dr. Deshbhushan Patil	2:40 PM – 3:00 PM	Domestic Wastewater Treatment Using Concentric Three three-chambered Septic Tank	



	Vikas Sonkar	3:00 PM – 3:20 PM	Tracking Antimicrobial Resistance in Hyderabad's Musi River: Identifying Simple Markers for Wastewater-Driven AMR Pollution	
	Srishti Srivastava	3:20 PM – 3:40 PM	Assessment of Water Quality and Emergence of Multidrug-Resistant Bacteria in Drinking Water of Jaipur, Rajasthan	
<b>02:00PM – 04:00PM</b>				
Parallel Session 7	Chair by Prof. Soundharajan Co-chair: Prof. Kunaljeet			<b>F206</b>
	Dr. Pradeepta Kumar Samanta	2:00 PM – 2:20 PM	Community Engagement and Citizen Participation in Ensuring Water Governance: A Case of 'SUJAL' Scheme of Odisha	
	Prof. Alluri Venkata Nagavarma	2:20 PM – 2:40 PM	Barriers in Participatory Water Governance-A Critical Analysis of Community Development Approaches: Issues and Challenges	
	A B Mirajkar	2:40 PM – 3:00 PM	Diversion Canal Flow Simulation Study and Inundation Mapping for Flood Condition for a Proposed Mining Site	
	Dr. Pullanna Vidyapogu	3:00 PM – 3:20 PM	Urban Planning, Caste, and Water: The Interplay at Shaikpet Kothacheruvu of Hyderabad	
	Samuel Kaki	3:20 PM – 3:40 PM	Synthesis & Evaluation of Bacterial Cellulose Membrane for Liquid Filtration	

Parallel Session 8	Chair- Prof. Rajiv Gupta Co-Chair Krishnaunni		<b>K220</b>	
	Rima Manik	2: 00 PM – 2:20 PM		Co-Transport of Engineered Nanoparticles and Bacteria in Water-Saturated Porous Media
	Pratik Shashwat	2:20 PM – 2:40 PM		Urban Flood Runoff Prediction Using Convolutional Neural Networks: A Case Study of Jaipur, India
	Swarnadipta Das	2:40 PM – 3:00 PM		Artificial Neural network-based Smart Water Quality Classification and Irrigation System
	Abhijeet Das	3:00 PM – 3:20 PM		Application of Entropy-Water Quality Index (E-WQI) and Ensemble Ranking (ER) Method for Assessment of Water Quality Around Mahanadi River in Odisha Region, India
Dr. Samridhi Rana	3:20 PM – 3:40 PM	Estimation of Drinking Water Intake and Source Pattern among IIT Delhi Residents		

**Tea Break and Networking 04:00 PM – 04:15 PM**

**Parallel Sessions 04:15 PM – 05:15 PM**

<b>Parallel Sessions 04:15 PM – 05:15 PM</b>				
Parallel session 9			Chair: Prof. Soundhrajn Co-chair: Prof. Suchismita	<b>G204</b>
	J Jayaraj	4:15 PM – 4:35 PM	Modeling the Transport and Retention of Nanoparticles in a Single Partially Saturated Pore in Soil	
	Prof. Shanu Raina	4: 35 PM – 4:55 PM	Urbanization and Traditional Water Systems: Comparative Study of Tank Cascade Systems in South India	
	Dr. Shyam Kumar Inturi	4:55 PM – 5:15 PM	Comprehensive Review of Water Production from Gas-Hydrate Reservoir	
<b>Break</b>				
Parallel session 10			Chair: Prof. Subramaniam Co-chair: Prof. Abdul Malik	<b>K220</b>
	Gaurav Kumar	4:15 PM – 4:35 PM	Dimensionality Reduction and the Development of a Suitability Model for Drinking Water Samples in Jaipur	
	Prof. Monomoy Goswami	4: 35 PM – 4:55 PM	Future Precipitation Characteristics of Designated Smart Cities of India for Integrated Urban Water Management Under Selected ‘Shared Socio-Economic Pathways’ of Climatic Variations	
	Yerramilli Sai Rama Krishna	4:55 PM – 5:15 PM	Effect of Temporal Variations in Velocity and Ionic Strength on Colloid Remobilization in Saturated Porous Media	

**DAY 3, 23rd October 2024, Wednesday****Registration 9:00 AM-9:30AM at Registration Desk near F206****Session 5: Water Stress and Water Overage**

1	Keynote Speaker	9.30 AM	Prof. Maheswaran R, IIT Hyderabad	G204	Chair: Prof. Abdul Malik Prof. Lavanya Suresh	Case study on Integrated flood water management through engineered rejuvenation of tanks in Vizianagaram: A step towards sustainable water management
	<b>Tea Break and Networking Session (10:15AM- 10:30 AM) - G204</b>					
2	Keynote speaker	10.30 AM	Prof. Shashidhar, IIT Hyderabad	F206	Chair: Prof. Rajiv Gupta Prof. Soundaryarajan	The Prevalence And Spread Of Waterborne AMR In River Musi, Hyderabad, India
	Keynote speaker	11:30 AM	Prof. Soumyo Mukherji	F206	Chair: Vijay Kumar Prof. Madhushree	Sensors And Instrumentation System For Detection Of Antibiotics In Water
<b>Lunch Break (1.00 PM-2.00 PM)-Auditorium Foyer</b>						
	Closing Session	3:30 PM-4:30PM		F206		Address by Prof. Rajiv Gupta
						Best three papers prize
						Vote of thanks

**DAY 3, 23rd October 2.00- 3.30 PM****Parallel Sessions**

<b>Session No.</b>	<b>Name of Presenters</b>	<b>Time</b>	<b>Title of presentation</b>	<b>Room No.</b>
Parallel session 11  Chair: Prof. Santosh Mohapatra	Invited talk by: Prof. Rishi Kumar	2:00 PM - 3:30 PM	Assessing the Bundled Impact of Water and Sanitation Interventions: A Study of the AMRUT Policy	G204
	Invited talk by: Prof. Geetilaxmi Mohapatra		Assessment of Urban Water Stress Using Water Poverty Index: A Comparative Analysis of India States	

Parallel session 12	Chair: Prof. Adbul Malik			
	Co-chair: Farhan Khan			
	Girish Girilal	2:00 PM – 2:20 PM	AI-based Sewage Block Predictor System (SBPS)	K220
	Pala Niteesh Sai	2:20 PM – 2:40 PM	Smart Contracts for Efficient Water Resource Allocation in Fast-Growing Cities a Sustainable Approach	
Srilekha Ati	2:40 PM-3:00 PM	Factors Detrimental to Citizens’ Willingness to Participate in Water Governance		

**Online Sessions**

Parallel session 13	Chair: Pranesh Bhargava <b>2.00 PM -3.30 PM</b>		
	Suryansh M.	2:30 PM – 2:50 PM	Hydrological Analysis and Sustainable Water Strategies in Expanding Indian Cities: Integrated Water Resource Management for Indian Urban and Peri-urban Regions Using Earth Observation and Field Data
	Ankit Kumar	2:50 PM – 3:10 PM	Groundwater and Beyond: Sustainable Solutions for Water Body Rejuvenation in Gautam Buddha Nagar, India
	Nibedita Verma	3:10 PM – 3:30 PM	Assessment of Assimilation Capacity of the Urban River reach of Delhi, India
	Adwitiya Roy	2.10 PM -2.30 PM	Evaluating the Application of the Decomposition Method in Conjunction with Optimization Techniques to Determine Cost-Effective Water Distribution Strategies in Urban Water Supply Systems
Chair: Kunaljeet Roy <b>2.00 PM -3.30 PM</b>			
Parallel session 14	Srishti Saxena	2:30 PM – 2:50 PM	Influence of Demographic and Socio-Economic Factors on Perceived Water Governance: Insights from a Cross-Sectional Study in Visakhapatnam, India
	Gopika L.	2:50 PM – 3:10 PM	Developing a Visualization Toolkit for Water-Sensitive Urban Planning in Secondary Indian Cities: The Case of Kozhikode, Kerala
	Vaisakh Petchinath M.	3:10 PM – 3:30 PM	Advancements in Machine Learning Techniques for Water Quality Index Prediction in Cauvery Basin: A Paradigm Shift in Environmental Assessment
Chair: Prof. Subhramanium <b>2.00 PM -3.30 PM</b>			
Parallel Session 15	Dr. Nisikant Nayak	2:10 PM – 2:30 PM	An Evaluation of Water Security in Urban Coastal Areas: A Comprehensive Case Study of Bhubaneswar, Odisha
	Dr. Nasir Ahmad Ganaie	2:30 PM – 2:50 PM	Innovative Approaches to Sustainable Urban Water Management: Enhancing Water Quality in Srinagar, Jammu & Kashmir
	Huma Khan	2:50 PM – 3:10 PM	Sustainability Analysis of Urban Water Management in Himalayan Region
	Faiza Khalil	3:10 PM – 3:30 PM	Assessment of Groundwater Quality in Shimla District: Analysis of Physicochemical Parameters and Water Quality Index (WQI) in Pre and Post Monsoon Seasons of 2021 and 2022