

Confirmed List of Technical Presentations- ICNSS 2026

Updated on 22nd May 2026

Oral presentations

Abstract id	Title of the presentation	Theme	Name of Presenting Author
7129286	Integrated Decentralised Anaerobic Digestion And Constructed Wetland For Blackwater Treatment	Theme -1	Dr. Rajashree R. Yaragal
7136764	Solution Developer Perspectives On China's Toilet Revolution And Adapting Proven Non-Sewered System For The Global South	Theme -5	Ms. Jiao Li (Cecilia Li)
7143797	Down-flow Hanging Sponge Reactors: An Innovative Solutions For Efficient Black Water And Sewage Treatment	Theme -1	Dr. Vinay Tyagi
7144162	Sanitation Services Under Water: How Container-Based Sanitation In Haiti Adapts To Flooding	Theme-5	Ms. Maya Lubeck-Schricker
7144175	Who Deserves A Discount? Exploring How Subsidy Targeting Choices Shape Access To Sanitation In Northern Haiti	Theme-3	Ms. Maya Lubeck-Schricker
7144178	Sectoral Learnings From A Successful Pilot Of Results-based Financing For Container-Based Sanitation In Haiti	Theme-3	Ms. Maya Lubeck-Schricker
7144180	Sanitation Beyond The Physical: Quality Of Life Among Container-Based Sanitation Users In Cap Haitien, Haiti	Theme -4	Ms. Maya Lubeck-Schricker
7144436	Implementation, Optimisation And Maintenance Of NEWGenerator 800 And Multiplier In Communities	Theme -1	Ms. Ntwanano Mandlazi
7144932	Reconfiguring Service Delivery Models For Informal Settlements In South Africa: User Pay Household Sanitation	Theme-3	Ms. Ruth Cottingham
7145333	Do Emerging Pollutants Alter Nitrogen Removal Dynamics In Constructed Wetlands?	Theme -1	Dr. Ashmita Patro
7145335	Sustainable Fertilization With Biosolids: A Field Study Framework For Crop Performance And Soil Gas Fluxes	Theme -5	Ms. Jayalekshmi T.R
7145642	Pathways Of Creating Green And Long-term Decentralised Wastewater Treatment Solutions	Theme -2	Ms. Asmita Saha
7145866	Centrifuge As Most Optimum Solution For Post Dewatering In Mesophilic And Thermal Hydrolysed Mesophilic Digested Sludge.	Theme -1	Mr. Dinesh Gehani
7145873	Sanitation Inequalities Revealed Through CWIS Tools In Low-income Areas (favelas)	Theme -2	Ms. Caroline Eloi Oliveira Da Silva
7147208	Bridging The Gap: Leveraging I&D For Used-Water Management In Non-Sewered Urban Towns Of Karnataka	Theme -5	Ms. Aparna Unni
7147232	City-wide Domestic Nitrogen Flow Analysis Under Data-Limited Conditions: A Case Study Of Lusaka, Zambia	Theme -2	Dr. Wutyi Naing
7147445	Evaluating Factors Which Affect Filling Rates Of Household Tiger Worm Toilets In Rwanda	Theme -1	Mr. Govind Agrawal
7147980	Biosolids Management In India: Global Evidence And Pathways For Sustainable Sanitation	Theme -2	Ms. Lakshmi Priya B S
7148803	Using Cultural Mascots To Transform Community Mindsets On Faecal Sludge Management In India	Theme -2	Ms. Barnali Ghosh
7148911	Decentralised Sludge Treatment Center Achieves Higher Throughput And Resource Recovery -- A Scandinavian Case Study	Theme -2	Dr. Indra Mitra
7149037	Johkasou Based Modular Systems For Non Sewered Urban Sanitation In East Africa	Theme -1	Ms. Sally Njambi
7149216	Bridging The Last Mile: Entrepreneurship In Rural Sanitation Supply Chains	Theme -2	Ms. Barnali Ghosh
7149301	Pilot Operation Of A Decentralized Circular Water System For Water-fed Sanitation In An Informal Settlement	Theme -1	Dr. Devi Buehler

7149308	Translational Insights From Pee Power Technology And Microbial Hydroponics	Theme -1	Dr. Aradhana Singh
7149383	Decentralised Planning For Non-Sewered Sanitation In A Himalayan State: Lessons From Uttarakhand, India	Theme -3	Mr. Harshvardhan Nigam
7149387	Effective Decentralised Treatment And Reuse Of Wastewater Through SIBF System - A Nature Based Sustainable Technology	Theme -2	Mr. Rahul Babar
7149388	Scaling Citywide Inclusive Sanitation For Low-Income Settlements In Uttarakhand: A Rapid Assessment In Dehradun Slums	Theme -2	Mr. Shantanu Padhi
7149393	Landscape Assessment Of Occupational Health And Safety (OHS) Of Sewer And Septic Tank Workers (SSWs) In Uttarakhand	Theme -3	Ms. Vanshika Bajaj
7149438	Integrated Model-free And Model-fitting Kinetic, Mechanistic And Thermodynamic Insights Into Faecal Sludge Pyrolysis	Theme -1	Ms.Shemeera K H, Dr. Gokul Gopan
7149458	Decentralized Dry And Wet Sanitation: Developing A Multi-Criteria Decision Tool	Theme -2	Ms. Carolina Castro
7149461	Greenhouse Gas Emissions From Sanitation: A Case Study Of Lahan Municipality, Nepal	Theme -5	Ms. Seema Rajouria
7149499	Algal-Bacterial Symbiosis System For Combined Nutrient Removal And Aerobic Sludge Digestion	Theme -1	Ms.Aishwariya R.P
7149502	Effect of Sulfamethoxazole on simultaneous removal of carbon, nitrogen, phosphorus and sulfur in an aerobic micro granular sludge based treatment system	Theme -1	Ms.Shameem K.S
7149504	Performance Enhancement Of A Pilot Scale SBR Through A Step Feeding Strategy	Theme -1	Ms.Bency M
7149530	Sanitation And Climate: Assessing Resilience Of Onsite Systems Through The Theory-informed SCARE Framework	Theme -5	Prof. Juliet Willetts
7149537	Impact Of Spatial And Social Variability On The Performance Of Water Efficient Sanitation Solutions In South Africa	Theme -5	Dr. Anu Thomas
7149539	Decentralised Treatment Of Greywater Using Submerged Aerated Filter For Recycling And Reuse.	Theme-1	Ms. Richa Agarwal
7149543	Floating Wetlands And Aeration For Phosphorus Control In A Non-sewered Urban Lake, Bengaluru	Theme -1	Mr. Jayanth Shivaramgowda
7149546	Integrated Hydroponics-Microbial Electrochemical Technology For Managing Domestic Wastewater At Point Sources	Theme -1	Dr. Ravi Yadav
7149554	High-rate (tertiary) Nitrification In Packed-bed Biofilm Reactor At Low Water Up-flow Velocities	Theme -1	Ms Keerthi Narayanappa Saraswathi
7149555	Assessing The Sludge Accumulation Rate In Pit Latrines Through Field Evaluation In Bihar And Madhya Pradesh In India	Theme -2	Ms. Anushka Patodi
7149556	Integrating Non-sewered Sanitation Into Urban Services: Citywide Inclusive Sanitation (CWIS) Status And Future Direction	Theme -2	Prof. Juliet Willetts
7149557	Pseudomonas Putida-Lemna Minor Consortium For Efficient Nutrient Attenuation Into Vertical Gardens For Decentralised WWT	Theme -1	Mr. Mahesh Pala
7149565	System Architecture And Process Design Of An Integrated Back-end System For Urinals	Theme -1	Ms. Sangeetha Vivekanandan
7149572	Innovative Dry Toilet System With Circular Sanitation In Cold And Arid Regions	Theme -1	Mr.Amit Kumar
7149576	Scaling Sanitation Innovation In Developing Countries : The South African SASTEP Transformative Innovation Policy Model	Theme -3	Dr. Valerie Naidoo
7149580	Decentralised Urban Sanitation Systems For Low-Income Settlements: A Circular Used Water Management Approach	Theme -2	Ms. Anju Varghese
7149581	Performance Evaluation Of Decentralized Hybrid Constructed Wetland For Faecal Sludge Treatment	Theme -1	Dr.Prashant
7149586	Innovative, Low-Energy "High Performance Biodigester--Downflow Hanging Sponge (HPBD-DHS) System" For On-Site And Decent	Theme -1	Mr. Anurag Tomar
7149595	Integrating Sanitation Into Climate Adaptation: Lessons From Chintamani Town	Theme -5	Ms. Jane Thomas K
7149600	Microbial Drivers In Water Efficient Non-Sewered Sanitation Systems: Insights From Two Durban Sites	Theme -2	Prof. Sheena Kumari
7149601	Emissions From Onsite Sanitation Services And A National Estimate Of Emissions In Indonesia	Theme -5	Prof. Juliet Willetts
7149604	Reimagining Citywide Sanitation Planning For Sustainability And Resilience Through The Lens Of Scaled Decentralization	Theme -2	Dr. Shweta Lokhande
7149611	Nature-Based Integrated Technologies For Non-Sewered Wastewater Management: Comparative Overview & Application Prospects	Theme -1	Dr. Sunil Patil

7149620	GHG Emission Along Sanitation Service Chains: Direct Measurement Of Septic Tanks And Scenario Analysis	Theme -5	Prof. Hidenori Harada
7149632	From Passive Regulation To Data-Driven Governance: A Roadmap For Groundwater-Safe Non-Sewered Sanitation	Theme -3	Dr. Chaya Ravishankar
7149642	Sustainable Environmental Strategies For Wastewater Treatment Advanced Biotechnological Solutions For Phenol Surfactant	Theme -1	Mr. Qamaruz Khaki
7149644	Nitrogen-Doped Iron Absorbed Biochar-Mediated Dual Cathode Heterogeneous Electro-Fenton System For Enhanced Eradication	Theme -4	Mr. Yasser Bashir
7149653	Research And Demonstration Projects For Advancing Sustainable Sanitation In Australia, India And United States.	Theme -2	Dr. Anish R. Jantrania
7149659	Development Of Gender Intentionality Framework To Audit The Sanitation Innovations And Programmes In South Africa	Theme -4	Dr. Valerie Naidoo
7149660	Operationalising ISO 30500 In Practice: Certification Pathways And Cross-Standard Insights For NSSS	Theme -3	Ms. Yue Yang
7149682	Gathering Empirical Evidence In CWIS For Indian Cities: Reflection On Testing The CWIS Framework For Cities In Gujarat	Theme -2	Mr. Siddh Doshi
7149696	Improving Safely Managed Sanitation In Narrow-Roads Through Three-Wheeler Vacutag	Theme -2	Mr.Md. Yeasin Arafat
7149698	Climate-resilient Sanitation Via Integrated Sewered And Non-sewered Wastewater Treatment And Sanitation Systems	Theme -5	Mr. Gnanaraj Augustine
7149712	Slow Sand Filtration As A Nature-Based Solution For Citywide Inclusive Sanitation: Evidence From Khulna City, Bangladesh	Theme -1	Dr. Nazia Hassan
7149715	Antibiotic Removal And Antibiotic Resistance Gene Dynamics In A Membrane Bioreactor Treating Real Sewage	Theme -4	Mr. Sri Harsha Narsingu
7149723	Statistical Modeling And Optimization Of PHB Production Using Industrial Waste As A Carbon Source	Theme -1	Mr. Akhil Gupta
7149725	Experimental Investigation Of Greywater Treatment Using Floating Treatment Wetlands Coupled With Nature-based Biocarrier	Theme-1	Ms.Vrinda K Kumar
7149749	From Targets To Readiness: Enabling Small Towns In India's Circular Water Transition	Theme -3	Ms. Anju Varghese
7149791	The Challenge Of Managing Faecal Waste In Kerala: The Case Of Alappuzha	Theme -3	Dr. Pares Chhajer- Picha
7149802	What Drives Methane Emissions From Sanitation Containment Systems? Lessons From An Empirical Study In Four Countries	Theme -5	Mr.Jack Dalton
ICNSS#02	Building Citywide Inclusive Sanitation: Evidence from Cities of Uttarakhand, India	Theme -2	Mr. Shantanu Kumar Padhi
ICNSS#05	Nutrient Recovery from Sewage Sludge: Development of Slow-Release Phosphorus Biochar Fertilizer	Theme -4	Ms. Ashma Parween
ICNSS#06	Variability of physicochemical characteristics of Faecal Sludge across datasets	Theme -2	Ms. Mercy Hinga
ICNSS#08	Nature-Based DEWATS in India: Geography, Performance, and Path to Safe Water	Theme -1	Dr. Kalyana Chakravarthy Sama
ICNSS#10	Application of Thermal Hydrolysis Process (THP) in Versova (Mumbai) Wastewater Treatment Facility	Theme -1	Dr.Indra Mitra
ICNSS#11	Reuse of Sewage Sludge for Activated-Biochar Synthesis: Assessment of adsorption and surface characteristics	Theme -4	Mr. Satya Priya

Poster presentations

Abstract ID	Title of Abstract	Theme	Registered Presenting Author
7114124	Silver-Infused Polymer Nanocomposite Membrane For Bioelectricity Production And Biofouling Mitigation	Theme -1	Dr.Vaidhegi Kugarajah
7134475	Bio-Nano Synergy: Entangled Bacillus Cells And RGO--Fe/Ni For High-Efficiency Chlorophenol Removal	Theme -1	Dr. Chris Felshia
7134788	Phosphorus Recovery From Wastewater For Sustainable Economy	Theme -1	Ms. Vidhya Lakshmi M
7135506	Biological Treatment Of Wastewater: Harnessing Steel-Slag As A High-Performance Media In A Submerged Aerated Filter.	Theme -1	Mr Vardhman Lunawat

7144020	Do Ascaris Eggs Survive Within The Vermicompost Produced By Tiger Worm Toilets?	Theme -1	Yogesh Badekar
7144366	Investigation Of Membrane Aerated Bioreactor For Decentralized Wastewater Treatment	Theme -1	Subhajit Das
7145375	DEGRADATION OF SANITARY LANDFILL LEACHATE TREATMENT BY ELECTROCHEMICAL ADVANCED OXIDATION PROCESS POWERED BY MICROBIAL FUEL CELL	Theme -1	Selvabharathi Gopal
7145458	Advances, Gaps, And Practical Pathways In Pathogen Detection And Disinfection For Non-Sewered Sanitation Systems	Theme -1	Dr.Priya Sharma
7145725	Aquatic Weed Assisted Green Synthesis Of Copper Nanoparticles And Its Antibacterial And Photocatalytic Activity In Water	Theme -1	Ms Ritu Kshatriya
7145804	Electrochemical Oxidation Of Dibutyl Phthalate From Water: Influence Of Operational parameters	Theme -1	Mr Koran Barman
7146658	Performance And Mechanisms Of Nature-Based Drying Beds For Faecal Sludge Dewatering From On-Site Sanitation	Theme -1	Mr Harishvar Jothinathan
7146668	Integrated Approach For Faecal Sludge And Septage Management In India: Micropollutant Challenges And Future Pathways	Theme -1	Ms K Sangamithra
7148578	Unlocking High-rate Nitrification In SAFs: Performance Under Varying Salinity And Up-flow Velocity Regimes	Theme -1	Mr Saquib Sarosh
7149371	Evaluation Of Leaf Extracts As Sustainable Natural Coagulants For Turbidity Removal	Theme -1	Mr.Mahesh
7149425	Targeted Pathogen Control In Decentralized Wastewater Using Plant Biofilters With Bacteriophage Cocktails And PGPR	Theme -1	Mr Noel Longhinos
7149563	Innovative Hybrid Constructed Wetlands For Decentralized Urban Sanitation: Enhancing Community Wastewater Management	Theme -1	Hymavathi P
7149573	Innovative Solid-liquid Separation Of Faecal Sludge/septage Along With Treatment And Resource Recovery Options	Theme -1	Mr.Aakash Patwa
7149587	Nitrification Of Source-separated Urine Using Packed Bed Biofilm Reactor	Theme -1	Atith Chitnis
7149589	Rice Straw As A Natural Plant-based Coagulant For Water Treatment	Theme -1	Ms.Bhavana G
7149594	Effect Of Flower Immersion Practice On The Quality Of Receiving Water Bodies	Theme -1	Mr. Dunna Jaswanth Joshi
7149618	Comprehensive Physico-chemical Characterization Of Faecal Sludge For Soil Improvement And Energy Recovery	Theme -1	Ms.Shemeera K.H
7149658	Decentralized Recovery Of Fertilizer And Water From Source-Separated Human Urine	Theme -1	Mr Mayank Kumar
7149681	Evaluation Of Diclofenac Removal Characteristics In Synthetic Sewage Treatment Using UASB-DHS And DHS Systems	Theme -1	Ms Yukino Soga
7149694	Evaluation Of Biosolids From FSTPs And STPs For Energy Recovery Applications	Theme -1	Mr. Byrareddy Hulugumanahalli Venkatesh
7149710	Evaluating Grey Water As An Alternative Water Source For Nutrient Garden - A Study From Rural Odisha	Theme-1	Mr. Amit Kumar Paikray
7149721	Electrochemical Phosphorus Removal And Recovery From Urine Via Vivianite Crystallization	Theme -1	Ajay Singh
7149739	Development Of A Solar Photovoltaic-driven Biocarrier Based Pilot-scale Pond For Blackwater Treatment	Theme -1	Mr K Nirmal Das
7149746	LakeRevive: Bridging Non-Sewered Sanitation And Nature-based Solutions For Urban Lake Health	Theme -1	Dr. Priyanka Jamwal
7149758	Resource Recovery From Source-Separated Human Urine In Non-Sewered Sanitation Systems	Theme -1	Mr Jay Narang
7149772	Monitoring And Evaluation Of Faecal Sludge Treatment Plants In Karnataka And Telangana States.	Theme -1	Ms Meghana Palyam
7149785	Ni/NiO/N Doped Graphene Coated NF For Advancing Urea Degradation And Hydrogen Production In Urea Rich Wastewater	Theme -1	Ms Padmavathy Bagavathi
ICNSS#03	Use of SANI-PRENEUR® for liquefaction and ex-situ removal of settled faecal sludge in spatially constrained urban environments	Theme -1	Mr.Rakesh Kasaba

ICNSS#09	Transforming Faecal Sludge into Biosolids: High-Value Soil Amendments	Theme -1	Ms.Saumya T
ICNSS#12	Harnessing broad-spectrum phage in synergy with algae for improved pathogen reduction	Theme -1	Ms.Shruti Prabhakar Bhanse
ICNSS#13	Synergistic Pathogen Reduction of Escherichia coli ST155 Using a Microalgae–Bacteriophage Consortium.	Theme -1	Mr Ethula Himamsu
ICNSS#14	Metagenomic Assessment of Phage-Mediated Microbiome Engineering for Pathogen Control in Domestic Wastewater from Non-Sewered Sanitation Systems	Theme -1	Ms. Lalitha Anandkumar
7145875	Collaborative Solutions For Urban Wellbeing: Building Resilient Utilities And Inclusive Sanitation	Theme -2	Mr.Preetham Salian
7149570	Reinforcing CWIS & WASH Education In India: Strategic Reflections & Pathways From The GSGS Regional Hub Consultations	Theme -2	Mr Siddh Doshi
ICNSS#01	Implementation Challenges under the NAMASTE Scheme: Bridging the Gap Between Judicial Mandate and Ground Realities	Theme -2	Mr.Abhilash Khobragade
7149372	The Parvat Manthan Hill Forum -- A Collaborative Model For Advancing Non-Sewered Sanitation In India's Himalayan Regions	Theme -3	Ms Tanya Ahmed
7149782	Scaling Non-sewered Sanitation Through Convergence Of Policy Instruments -- The Case Of FSM In India	Theme -3	Dr Pares Chhajed- Picha
7144956	Electrooxidation Of 17 Alpha-Ethinylestradiol: From Parametric Optimisation To Toxicity Assessment	Theme -4	Ms Neha Sharma
7145056	APPLICATION OF ELECTROCHEMICAL OXIDATION FOR PARABEN REMOVAL: INVESTIGATING OPERATIONAL PARAMETERS	Theme -4	Ms Nehaun Zargar
7145397	Sustainable Nutrient Recycling From Biosolids: Environmental And Agronomic Microplastic Thresholds	Theme -4	Ms Sajitha A.S
7148051	Analysing Electrochemical Peroxidation For Polyvinyl Chloride Microplastics Degradation Through Phytotoxicity Study	Theme -4	Ms Almeenu Rasheed
7148507	Using GIS-based Flood Vulnerability Assessment For Planning Sustainable Flood Mitigation Strategies	Theme -4	Mrs. Reshma Antony
7149397	Phased,Gender-Responsive Planning For Non-Sewered Sanitation Systems in Darjeeling City-Addressing Hill City Complexities	Theme -4	Mr Anant Mitra
7149472	Formulation Of Effluent Quality Index And Its Application To Assess Seasonal Treatment Efficacy Of STPs In Delhi-NCR	Theme -4	Mr Dipansh Jain
7149704	Removal Of Methylene Blue Dye Using Niobium MXene Modified Carbon Felt Electrode Via Capacitive Deionization	Theme -4	Ms. Hibu Munku
7149709	Assessing Climatic Effects On Water Quality And Management For Different Use Cases In Periyar Basin	Theme -4	Ms.Neha Krishna C.K
7149711	Spatio-temporal Dynamics Of River Water Quality: Insights From The Sacred And Ancient Paisuni River	Theme -4	Mr. Pankaj Thakur
7149738	Evaluating Faecal Sludge-Based Amendments As Sustainable Alternatives To Synthetic Fertilisers And Traditional Manures	Theme -4	Ms Girija R
7135356	Neuromorphic Hyperdimensional Computing With Rule 90 For Ultra-Low-Power Sanitation Monitoring	Theme-5	Mr Amalan Joseph J
7145319	GHG Emissions From On-Site Sanitation Systems In Flood And Cyclone-Prone Coastal Areas	Theme-5	Mr Satyajit Ghosh
7149780	Sea Level Prediction Using Long Short Term Memory And Risk Mapping For Climate-Resilient Sanitation Planning In Kochi	Theme -5	Dr. Sweta Shukla