2nd YOUNG WATER PROFESSIONALS EUROPEAN CONFERENCE
14-17 JUNE 2026 MILAN, ITALY

Programme

Sunday June 14th
Registration
Welcome activity

Monday June 15th		
Registration (8:00 - 9:00)		
Opening ceremony (09:00 - 09:30), Room: Aula *De Donato*		
Keynote I (9:30 - 10:15) - Kala Vairavamoorthy (IWA), Room: Aula *De Donato*		
Keynote II (10:15 - 11:00) - Wim Audenaert (AM-Team), Room: Aula *De Donato*		
Coffee (11:00-11:30)		
Room: Aula *De Donato*	**Room: Aula 3.0.2**	**Room: Aula 3.0.3**
Parallel session 1: Emerging and advanced technologies for drinking water and wastewater treatment I (11:30 - 12:30)	Parallel session 2: Sustainability Assessment & Decarbonization of Water Systems (11:30 - 12:30)	Parallel session 3: Risk Management in Water (Re)use (11:30 - 12:30)
Parallel session 4: Smart Monitoring, Asset management & Digital Water Technologies (12:30 - 13:15)	Parallel session 5: Water Reuse, Resource Recovery & Water–Energy Nexus I (12:30 - 13:15)	Parallel session 6: Risk Assessment, Water Safety & Public Health (12:30 - 13:15)
Lunch (13:15 - 14:15)		
Room: Aula *De Donato*	**Room: Aula 3.0.2**	**Room: Aula 3.0.3**
Workshop (14:15 - 15:45) Career Path Workshop	Workshop (14:15 - 15:45) ENEA, Adapting to Climate Change by Rethinking Water: The Role of Non-Conventional Resources	Workshop (14:15 - 15:45) Dutch Water Authority, Design the water future of Europe: Looking for input for the European Knowledge Network!
Coffee & Posters session (15:45 - 16:30)		
Room: Aula *De Donato*	**Room: Aula 3.0.2**	**Room: Aula 3.0.3**
Parallel session 7: WWTPs upgrade for complying with new EU WWT Directive (16:30 - 17:30)	Parallel session 8: Water Reuse, Resource Recovery & Water–Energy Nexus II (16:30 - 17:30)	Parallel session 9: Urban Water Infrastructure, Stormwater Management & Nature-Based Solutions (16:30 - 17:30)
Roundtable (17:30 - 18:30), Room: Aula *De Donato*		

Tuesday June 16th			
Registration (8:00 - 9:00)			
Keynote III (9:00 - 9:45) - Veronica Manfredi (EC), Room: Aula *De Donato*			
Room: Aula *De Donato*	**Room: Aula 3.0.2**	**Room: Aula 3.0.3**	**Lobby**
Parallel session 10: Emerging and advanced technologies for drinking water and wastewater treatment II (9:45 - 10:45)	Parallel session 11: From waste to carbon - biorefineries (9:45 - 10:45)	Parallel session 12: Biogas upgrading, biomethanation and methanotrophs (9:45 - 10:45)	*Coffee with the experts (9:45 - 10:45)*
Coffee (10:45-11:15)			
Room: Aula *De Donato*	**Room: Aula 3.0.2**	**Room: Aula 3.0.3**	**Lobby**
Parallel session 13: Micropollutants and emerging contaminants I (11:15 - 12:35)	Parallel session 14: Water Governance, Policy & Societal Dimensions (11:15 - 12:35)	Parallel session 15: AI, Modelling & Decision Support for Water Systems (11:20 - 12:35)	*Coffee with the experts (11:20 - 12:35)*
Lunch (12:35 - 13:30)			
Room: Aula *De Donato*	**Room: Aula 3.0.2**	**Room: Aula 3.0.3**	
Workshop (13:30-15:00) Career Path Workshop	Workshop (13:30-15:00) Xylem and Scottish Water “It Takes A Network: A Digital Monitoring CoLab With Scottish Water & Xylem”	Workshop (13:30-15:00) ICRA, Using Nat4Wat as a Decision-Support Tool for Nature-Based Solutions in Urban Water Management	
Coffee & Posters session (15:00 - 15:45)			
Room: Aula *De Donato*	**Room: Aula 3.0.2**	**Room: Aula 3.0.3**	
Parallel session 16: Innovation in anaerobic digestion and sludge management (15:45 - 16:45)	Parallel session 17: Advanced Monitoring methods (15:45 - 16:45)	Parallel session 18: Micropollutants & Emerging Contaminants II (15:45 - 16:45)	
Keynote IV (16:45 - 17:30) - Hajar Yagkoubi, Room: Aula *De Donato*			
Awards			
Closing ceremony			
Social dinner (19:30)			

Wednesday 17th – Technical visits

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the international water association
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Oral presentations

☐ Long presentation	☐ Short presentation
Monday June 15th (11:30-12:30)	
Session 1: Emerging and advanced technologies for drinking water and wastewater treatment I	
Francesco Savio	Bioelectrochemical systems for simultaneous nitrate removal and organic micropollutant degradation at low temperatures
Xinyi Ruan	Potential-selective electropolymerization for reclamation of high-strength phenolic wastewater
Mingchong Wang	Can a coupled adsorption and electrochemical oxidation process be used to remove tributyltin?
Marcelina Jureczko	Application of fungal enzymes for anticancer drugs elimination
Richard Šebek	Precision Management: Mastering Aerobic Granular Sludge Cycles via Real-Time Ammonia Monitoring
Ottavia Burzi	Sludge densification without anaerobic zone: performance and perspectives for Crest WWTP
Yuchen Liu	Low temperature anaerobic digestion of long chain fatty acids-containing wastewater with granulated activated carbon
Session 2: Sustainability Assessment & Decarbonization of Water Systems	
Dimitrios Ziotas	Sustainability Assessment of Innovative Materials for Wastewater Treatment Using Life Cycle Assessment
Maria Lera Modino	From Trash to Biogas: Sustainability Assessment of Bioplastic Waste Valorisation in WWTPs through Anaerobic Co-Digestion
Enrico Giuliani	Extended LCA of different post-treatment technologies for nutrient recovery from AnMBR effluents
Daniele Cecconet	Carbon Footprint Assessment of Alfa's Wastewater Treatment Service Under the New EU Directive: A Territorial Model for Decarbonization and Compliance
Session 3: Risk Management in Water (Re)use	
Molly Manship	When the Public Governs Water: Risk, Trust and Communication in Coastal England.
Francesca Mangiagli	Reuse of treated wastewater in agriculture: an interdisciplinary approach to assess its feasibility and safety through a case study in central Italy
Beatrice Bastante	Are bisphenol A analogues a better choice for drinking water and irrigation pipelines? A risk-based approach to support decisions
Pietro Drei	Multi-barrier risk management methodology for agricultural irrigation in water reuse systems
Marco Matracchi	From pipes to plates: Uptake of epoxy- and seal-derived contaminants in sprouts and implications for human health risk
Monday June 15th (12:30-13:15)	
Session 4: Smart Monitoring, Asset management & Digital Water Technologies	
Laura Di Domenico	Grundfos Connect Sewer Insights: A Digital Approach for Proactive Sewer Network Monitoring
Francisco Roca Ribera	Digitalisation of the Sewer Network in Mataró, Spain
Maya Shanti	Digital Rainwater Assets: Global Benchmarking of Smart Rainwater Harvesting for Urban Stormwater Resilience and CSO Mitigation
Pedro Gandia Sanchez	Digitalisation in Asset Management: The Role of Data Analytics and the Seven Pillars of Data Governance in Investment Optimisation.
Vincenzo Scarano	Analysis and optimization of water networks through the evaluation of plant impact on failure frequency: Case study of the municipality of Brescia

Session 5: Water Reuse, Resource Recovery & Water–Energy Nexus I	
David Horňák	Experimental Validation of a Minimal Liquid Discharge System for Dairy Wastewater
Ali Amini	Integrated mechanistic modelling as an enabling tool for the valorization of agri-food residues via purple phototrophic bacteria
Serrano-Tarí	Advanced oxidation solar processes for agrochemical wastewater
Session 6: Risk Assessment, Water Safety & Public Health	
Maria Castiglione	WWTPs as critical infrastructures facing natural hazards: proposal of a methodological approach for risk assessment
Alessio Castagnoli	Building a common language for sediment risk across ports through territorial mini-lab development
Lucia Bellazzi	Microbial and chemical risks trade-off in on-site chemical disinfection treatments: a standardized framework for integrated risk assessment.
Francesca Cutrupi	Wastewater sequencing for Early Outbreaks Alerts: a future Commercial Platform
Anicia Touraine Andersson	Divergent Learning Orientations in Cross-Border Flood Risk Management: A Q-Methodology Study of Practitioner Knowledge Priorities
Monday June 15th (16:30-17:30)	
Session 7: WWTPs upgrade for complying with new EU WWT Directive	
Daniele Cecconet	Full-Scale Optimization and Micropollutant Removal at the Sant'Antonino Ticino WWTP: A Flagship Case for Directive 3019/2024 Compliance
Sara Piraldi	Can micropollutant properties and conventional activated sludge removal predict the most suitable quaternary treatment?
Jessica Ianes	Chasing the 80% target: The cost and reality of removing micropollutants from urban wastewater
Benedetta Sala	Quaternary treatment in Denmark – Status and approach
Nicolas Hernandez-Alcayaga	Assessing Sorption and Biodegradation Mechanisms in a Membrane-Aerated Biofilm Reactor for Micropollutant Removal Under the New EU Wastewater Directive
Alberto Zoccali	Bridging emission inventories and real operation: full-scale greenhouse gas monitoring in wastewater treatment plants
Session 8: Water Reuse, Resource Recovery & Water–Energy Nexus II	
Giuseppe Maistrello	A Standardized Methodology for Large-Scale Wastewater Reuse Planning in Agriculture
Esther Mendoza	Green walls for greywater reuse: performance and user perception in two systems operating under real conditions
Giordana Venanzi	Stable Isotope Analysis as a tool for the evaluation of wastewater reuse in agriculture
Session 9: Urban Water Infrastructure, Stormwater Management & Nature-Based Solutions	
Maddalena De Maio	Assessing Stormwater Attenuation Requirements under Climate Change Scenarios: A Large-Scale Case Study in Northen Italy
Frida Viktor Frandsen	Integrated Hydrological-Hydrodynamic Modelling for High Groundwater, Surface Water and Sewers
Fabrizio Garotta	Sustainable urban planning and NBS solutions in the era of climate change
Daniele la Cecilia	Nature-based solution for desalination brine management
Elaheh Faghih Nasiri	Intensifying retention soil filters as nature-based solutions for micropollutant removal from CSO and WWTP discharges
Jordi Blasco Ferre	Turbines: Empowering smart renewable cities through hydropower technology in urban drinking water supply system

Long presentation	Short presentation
Tuesday June 16th (9:45-10:45)	
Session 10: Emerging and advanced technologies for drinking water and wastewater treatment II	
Jaume Cotoli Sancho	Circular economy applied to nitrate removal in drinking water processes: brine mining and hydrogen production
Qifan Wu	Novel Gas-liquid-solid Triphase Photocatalytic Chlorine Activation for Advancing Emerging Contaminant Removal
Gemma Moncusí-Prieto	Oxidative transformation of humic substances: Balancing disinfection by-products and bacterial regrowth
Joy Ginika-Osuorji	Biological GAC as a reactive barrier to clean up groundwater contaminated by PAHs
Jaume Cotoli Sancho	Evaluating photocatalysis for the degradation of complex pollutant mixtures in drinking water treatment
Wen Yi Chia	Recovery of sodium chloride brine from seawater reverse osmosis (SWRO) brine
Session 11: From waste to carbon - biorefineries	
Ferdos Hajimoradloo	Upgrading Lactose-Rich Industrial Wastewater into Medium-Chain Carboxylic Acids as Bioplastic Precursors through Anaerobic Chain Elongation
Aryan Norouziderazkolaei	Real-world application of High-Rate Contact Stabilization (HiCS) for carbon recovery: moving beyond synthetic wastewater studies
Alessio Castagnoli	Enhanced polyhydroxyalkanoates production from Mixed Microbial Culture through Short Settling Aerobic Dynamic Feeding
Serena Falcioni	Microaerophilic Uncoupled Feeding: Driving High-Yield Polyhydroxyalkanoates Production
Alessio Massimi	Enhanced production of medium-chain carboxylic acids from organic waste: single-stage fixed-bed biofilm application
Marco Pesenti	Strategic valorization of septage in WWTPs: a plant-wide assessment framework for carbon usage and system optimization
Session 12: Biogas upgrading, biomethanation and methanotrophs	
Oriol Casabella-Font	When microbial stress meets micropollutants: graphene oxide drives pharmaceutical transformation at the expense of methane production
Alessandra Scotti	Enhanced anaerobic digestion of waste substrates through combination of bioelectrochemical systems and electrically conductive nanoparticles
Rebecca Serna Garcìa	Coupling AnMBR and Hollow Fibre Membrane Contactors for Biogas Upgrading and Nutrient-Rich Water Reuse
Keerthy Reena Krishna	Optimising H2 transfer in biomethanation MBfRs via controlled venting duration: a pilot-scale study
Cecilia Polizzi	Granular-biomass bioscrubber for biogas desulphurization: a novel core unit for side-stream treatment
Simone Rossi	Biomethanation research and development in RSE – Long-term experiences and expansion of experimental facilities
Tuesday June 16th (11:15-12:35)	
Session 13: Micropollutants and emerging contaminants I	
Julia Stein	Tracking Microplastics Across Urban Drainage Systems
Alessia Torboli	Tunable biochar for quaternary filtration of 1-5 µm microplastics in wastewater compared with conventional adsorbent materials
Nageshwari Krishnamoorthy	Photocatalytic degradation of polystyrene microplastics using a visible light active biogenic nanocompostite
Kristina Mraz	Monitoring PFAS in the Anthropogenic Water Cycle: Optimizing Passive Sampling Approaches
Ayse Humeyra Tatar	PFAS Fate during Sludge Thermal Treatment in Wastewater Treatment Plants

Utku Dide Turkeli	PFAS removal from soil washing waters: can we transfer literature data on different water matrices for performance prediction?
Simon A. Rath	Impact of O_3-Treatment of Textile and Municipal Wastewater on PFAS Transformation and Adsorption on Activated Carbon
Yongtao Xue	Facile fabrication of hierarchical PVDF/Mg-Al LDH/chitosan membrane for textile wastewater remediation: role of LDH in anchoring chitosan
Session 14: Water Governance, Policy & Societal Dimensions	
Payton Te Ngaio	Identifying priority areas for riparian intervention investment to support water quality improvement in regional and urban landscapes.
Valeria Grippo	Demographic Scenarios and Water Service Provision
Emma Mazzotta	The Regime of Offshore Freshened Groundwater: A Scientific, Regulatory and Legal Basis
Denisa Čadková	Regional Peer-to-Peer Collaboration among Young Water Professionals in the Danube Region
Patricia Allgaier	Game On for Water Reuse: The Risk Management Plan Challenge
Session 15: AI, Modelling & Decision Support for Water Systems	
Marta Mulet-Mauleon	From Jar Tests to Full-Scale Operation: A Causal ANFIS-Based Decision Support System for Chemical Dosing Optimization in Drinking Water Treatment
Jessica Ianes	Optimizing Coagulation-Flocculation via an Online Digital Twin: Integrating Gray-Box AI for Enhanced Resilience at the Walem WWTP
Roberta Muoio	Model-Based Process Design for Cost-Effective Optimization of an Industrial WWTP
Frida Viktor Frandsen	Anomaly Detection in Wastewater Treatment Plants: Comparing Univariate and Multivariate Methods for NH_4-N Sensor Data
Jessica Ianes	Turning a drinking water treatment digital roadmap into reality in Northern Netherlands: the first digital twin for UV/H2O2 treatment
Sait Mutlu Karahan	Ensemble-Based Uncertainty Quantification for Electrical Conductivity Forecasting in a River System
Roberta Muoio	Designing for Minimal Bromate: CFD-Based Optimization of a Hybrid Ozonation Reactor
Francesca Mastromarino	Smart strategies for water loss control in Milan: integrating digital twins and advanced leak detection
Hossam A. Abdelaziz	Mechanistic and data-driven approach for primary settling tanks modelling
Tuesday June 16th (15:45-16:45)	
Session 16: Innovation in anaerobic digestion and sludge management	
Vincenzo Pelagalli	Enhanced antibiotics degradation through magnetite addition in the anaerobic digestion of dairy farm waste
Matteo Grana	Full-scale application of an integrated biorefinery for resource recovery from wastewater sludge and municipal organic waste
Francesca Taschini	Enhancing Energy Recovery from Wastewater Sludge: Comparative Scenarios for Circular Sludge Line Revamping in a large WWTP
Francesco Piccioli	Optimal Sludge Management Through a Multi Hub Strategy: A Territorial Approach to Energy Recovery and Regulatory Resilience
Ottavia Burzi	Anaerobic Digestion intensification: Rethinking the sizing of municipal sludge digesters
Alessandro Alberti	A simplified method for the sizing of full-scale Aerobic Granular Sludge Wastewater Treatment Systems
Alfonso Campaniello	Improving the COD/N ratio by removing nitrogen from ammonia-rich landfill leachate and sludge dewatering water at the Modena WTTP
Marina Santonja Coloma	A New Life for PET Waste: Turning Plastic into Energy via Anaerobic Co Digestion in WWTPs

Session 17: Advanced Monitoring methods	
Bruno Ursino	Handling quantification limits in drinking water quality analysis
Yunzhi Li	Applicability-Domain-Aware QSRR Screening of Groundwater Micropollutants Integrating Mobility, Occurrence, and External Toxicity Evidence.
Anna Košinová	Method for the recovery of enteric viruses from DWTP water source and during treatment
Brouwir Lena	A Periphyton-Based Genomic Bioindicator of Surface Water Quality: Insights from a Pilot Study and Field Data
Nida Siddiqui	Toxicity of Pesticides to the Green Algae Chlorella pyrenoidosa
Caterina Cacciatori	Silent Chemicals, Vocal Rivers: Public Participation in the Monitoring of Pesticides in Water
Session 18: Micropollutants & Emerging Contaminants II	
Filippo Fazzino	Fluorescence-based artificial neural networks to control the removal of contaminants of emerging concern by O_3-AOPs
Augosto Misolas	Different approaches of fabric phase sorptive extraction for the identification and monitoring of emerging contaminants
Jose Ricardo Gonzalez-Rodriguez	Assessing Iron Oxide and Titanium Dioxide as Adsorbents for R471811 Metabolite Using Density Functional Theory
Wu Qifan	Selective Singlet Oxygen Generation via PAA Activation for Emerging Contaminant Degradation
Kasim Sani Musa	Optimising the adsorption system for complex produced water treatment: exploring mixtures of sorbents with variable properties
Tomáš Dufek	Optimization and Comparison of Advanced Oxidation Processes and Adsorption for the Removal of Pharmaceuticals from Municipal Wastewater