

<b>Sunday June 14th</b> <b>Politecnico di Milano, Città Studi</b> <b>Piazza Leonardo da Vinci 32, Building 3</b>
Registration (16.00-20.30)
Welcome activity (16.30-18.30) - Workshop with Robin Bonn� "Become a confident storyteller" Room: Aula 3.0.3
Welcome cocktail (18.30-20.30)

<b>Monday June 15th</b> <b>Politecnico di Milano, Citt� Studi</b> <b>Piazza Leonardo da Vinci 32, Building 3</b>		
Registration (08:00 - 09:00)		
Opening ceremony (09:00 - 09:30), Room: Aula De Donato		
Keynote I (09:30 - 10:15) - Kala Vairavamoorthy (IWA), Room: Aula De Donato		
Keynote II (10:15 - 11:00) - Wim Audenaert (AM-Team), Room: Aula De Donato		
Coffee break (11:00-11:30)		
<b>Room: Aula De Donato</b>	<b>Room: Aula 3.0.2</b>	<b>Room: Aula 3.0.3</b>
<b>Oral session 1</b> (11:30-12:30) Emerging and advanced technologies for drinking water and wastewater treatment I <i>Moderators: Alessia Torboli, Carolina Nanni</i>	<b>Oral session 2</b> (11:30-12:30) Sustainability Assessment & Decarbonization of Water Systems <i>Moderators: Pamela Ciacia Alessio Castagnoli</i>	<b>Oral session 3</b> (11:30-12:30) Risk Management in Water (Re)use <i>Moderators: Marco Resitano, Silvia Bolognesi</i>
<b>Oral session 4</b> (12:30-13:15) Smart Monitoring, Asset management & Digital Water Technologies <i>Moderators: Denisa Cadkov�, Claudia Cascone</i>	<b>Oral session 5</b> (12:30-13:15) Water Reuse, Resource Recovery & Water-Energy Nexus I <i>Moderators: Vincenzo Pelagalli Pamela Ciacia</i>	<b>Oral session 6</b> (12:30-13:15) Risk Assessment, Water Safety & Public Health <i>Moderators: Natalie P�ez</i>
Lunch (13:15 - 14:15)		
<b>Room: Aula De Donato</b>	<b>Room: Aula 3.0.2</b>	<b>Room: Aula 3.0.3</b>
<b>Workshop 1</b> (14:15 - 15:45) Career Path Workshop	<b>Workshop 2</b> (14:15 - 15:45) ENEA, Adapting to Climate Change by Rethinking Water: The Role of Non-Conventional Resources	<b>Workshop 3</b> (14:15 - 15:45) Dutch Water Authority, Design the water future of Europe: Looking for input for the European Knowledge Network!
Posters with coffee session (15:45 - 16:30)		
<b>Room: Aula De Donato</b>	<b>Room: Aula 3.0.2</b>	<b>Room: Aula 3.0.3</b>
<b>Oral session 7</b> (16:30-17:30) WWTPs upgrade for complying with new EU WWT Directive <i>Moderators: Stefano Cairone, Filippo Fazzino</i>	<b>Oral session 8</b> (16:30-17:30) Water Reuse, Resource Recovery & Water-Energy Nexus II <i>Moderators: Anna Cardov�, Denisa Cadkov�</i>	<b>Oral session 9</b> (16:30-17:30) Urban Water Infrastructure, Stormwater Management & Nature-Based Solutions <i>Moderators: Makoto Shigei, Benedetta Sala</i>
Roundtable "Multi-stakeholder discussion on water challenges" (17:30 - 18:30) Room: Aula De Donato		
Social and networking activity "Find the match" (18:30 - 19.00)		

<b>Tuesday June 16th</b> <b>Politecnico di Milano, Città Studi</b> <b>Piazza Leonardo da Vinci 32, Building 3</b>			
Registration (08:30 - 09:00)			
Keynote III (09:00 - 09:45) - Veronica Manfredi (EC), Costanza Cernusco (EC) Room: Aula De Donato			
<b>Room: Aula De Donato</b>	<b>Room: Aula 3.0.2</b>	<b>Room: Aula 3.0.3</b>	<b>Courtyard</b>
<b>Oral session 10</b> (09:45-10:45) Emerging and advanced technologies for drinking water and wastewater treatment II <i>Moderators: Francesco Savio, Carolina Nanni</i>	<b>Oral session 11</b> (09:45-10:45) From waste to carbon - biorefineries <i>Moderators: Silvia Bolognesi, Vincenzo Pelagalli</i>	<b>Oral session 12</b> (09:45-10:45) Biogas upgrading, biomethanation and methanotrophs <i>Moderators: Marco Resitano, Antonio Mineo</i>	<b>Coffee with the experts</b> (09:45-10:45)
Coffee Break (10:45-11:15)			
<b>Room: Aula De Donato</b>	<b>Room: Aula 3.0.2</b>	<b>Room: Aula 3.0.3</b>	<b>Courtyard</b>
<b>Oral session 13</b> (11:15-12:35) Micropollutants and emerging contaminants I <i>Moderators: Beatrice Cantoni, Oriol Casabella</i>	<b>Oral session 14</b> (11:15-12:35) Water Governance, Policy & Societal Dimensions <i>Moderators: Barbara Maracchini, Maria Castiglione</i>	<b>Oral session 15</b> (11:15-12:35) AI, Modelling & Decision Support for Water Systems <i>Moderators: Stefano Cairone</i>	<b>Coffee with the experts</b> (11:20-12:45)
Lunch (12:35 - 13:30)			
<b>Room: Aula De Donato</b>	<b>Room: Aula 3.0.2</b>	<b>Room: Aula 3.0.3</b>	
<b>Workshop 4</b> (13:30-15:00) Career Path Workshop	<b>Workshop 5</b> (13:30-15:00) Xylem and Scottish Water, It Takes A Network: A Digital Monitoring CoLab With Scottish Water & Xylem	<b>Workshop 6</b> (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 – 16:00)			
<b>Room: Aula De Donato</b>	<b>Room: Aula 3.0.2</b>	<b>Room: Aula 3.0.3</b>	
<b>Oral session 16</b> (16:00–17:00) Innovation in anaerobic digestion and sludge management <i>Moderators: Rebecca Serna Gracia, Yuchen Liu</i>	<b>Oral session 17</b> (16:00–17:00) Advanced Monitoring Methods <i>Moderators: Stefano Cairone</i>	<b>Oral session 18</b> (16:00–17:00) Micropollutants & Emerging Contaminants II <i>Moderators: Alessia Torboli, Esther Mendoza</i>	
Keynote IV (17:00 - 17:45) - Hajar Yagkoubi, Room: Aula De Donato			
Closing ceremony and awards (17:45-18.30)			
Social dinner (19:30) Osteria del Treno Via S. Gregorio, 46, 20124 Milano MI			

<b>Wednesday 17th – Technical visits</b>
<b>Joint Research Centre (JRC) of the European Commission – Ispra, Varese</b> Estimated duration: 8 hours
<b>AlfaVarese Advanced WWTP &amp; Ticino Park with Panperduto Dam – Malpensa</b> Estimated duration: 5 hours
<b>CAP ZeroC BioPiattaforma – Sesto San Giovanni, Milan</b> Estimated duration: 4 hours
<b>Tour on the Role of Water in Milan City</b> Estimated duration: 2–3 hours

# Oral presentations

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

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

<input type="checkbox"/> Long presentation	<input type="checkbox"/> Short presentation
<b>Tuesday June 16<sup>th</sup> (9:45-10:45)</b>	
<b>Session 10: Emerging and advanced technologies for drinking water and wastewater treatment II</b>	
<i>Jaume Cotoli Sancho</i>	Circular economy applied to nitrate removal in drinking water processes: brine mining and hydrogen production
<i>Qifan Wu</i>	Novel Gas-liquid-solid Triphase Photocatalytic Chlorine Activation for Advancing Emerging Contaminant Removal
<i>Gemma Moncusí-Prieto</i>	Oxidative transformation of humic substances: Balancing disinfection by-products and bacterial regrowth
<i>Joy Ginika-Osuorji</i>	Biological GAC as a reactive barrier to clean up groundwater contaminated by PAHs
<i>Jaume Cotoli Sancho</i>	Evaluating photocatalysis for the degradation of complex pollutant mixtures in drinking water treatment
<i>Wen Yi Chia</i>	Recovery of sodium chloride brine from seawater reverse osmosis (SWRO) brine
<b>Session 11: From waste to carbon - biorefineries</b>	
<i>Ferdos Hajimoradloo</i>	Upgrading Lactose-Rich Industrial Wastewater into Medium-Chain Carboxylic Acids as Bioplastic Precursors through Anaerobic Chain Elongation
<i>Aryan Norouziderazkolaei</i>	Real-world application of High-Rate Contact Stabilization (HiCS) for carbon recovery: moving beyond synthetic wastewater studies
<i>Alessio Castagnoli</i>	Enhanced polyhydroxyalkanoates production from Mixed Microbial Culture through Short Settling Aerobic Dynamic Feeding
<i>Serena Falcioni</i>	Microaerophilic Uncoupled Feeding: Driving High-Yield Polyhydroxyalkanoates Production
<i>Alessio Massimi</i>	Enhanced production of medium-chain carboxylic acids from organic waste: single-stage fixed-bed biofilm application
<i>Marco Pesenti</i>	Strategic valorization of septage in WWTPs: a plant-wide assessment framework for carbon usage and system optimization
<b>Session 12: Biogas upgrading, biomethanation and methanotrophs</b>	
<i>Oriol Casabella-Font</i>	When microbial stress meets micropollutants: graphene oxide drives pharmaceutical transformation at the expense of methane production
<i>Alessandra Scotti</i>	Enhanced anaerobic digestion of waste substrates through combination of bioelectrochemical systems and electrically conductive nanoparticles
<i>Rebecca Serna García</i>	Coupling AnMBR and Hollow Fibre Membrane Contactors for Biogas Upgrading and Nutrient-Rich Water Reuse
<i>Keerthy Reena Krishna</i>	Optimising H <sub>2</sub> transfer in biomethanation MBfRs via controlled venting duration: a pilot-scale study
<i>Cecilia Polizzi</i>	Granular-biomass bioscrubber for biogas desulphurization: a novel core unit for side-stream treatment
<i>Simone Rossi</i>	Biomethanation research and development in RSE – Long-term experiences and expansion of experimental facilities

<b>Tuesday June 16<sup>th</sup> (11:15-12:35)</b>	
<b>Session 13: Micropollutants and emerging contaminants I</b>	
<i>Alessia Torboli</i>	Tunable biochar for quaternary filtration of 1-5 µm microplastics in wastewater compared with conventional adsorbent materials
<i>Nageshwari Krishnamoorthy</i>	Photocatalytic degradation of polystyrene microplastics using a visible light active biogenic nanocomposite
<i>Kristina Mraz</i>	Monitoring PFAS in the Anthropogenic Water Cycle: Optimizing Passive Sampling Approaches
<i>Yifei Wei</i>	Catalyst-assisted secondary polymerization for fabricating positively charged polysulfonamide hollow fiber nanofiltration membrane with robust acid resistance

<i>Julia Stein</i>	Tracking Microplastics Across Urban Drainage Systems
<i>Ayşe Humeýra Tatar</i>	PFAS Fate during Sludge Thermal Treatment in Wastewater Treatment Plants
<i>Utku Dide Turkeli</i>	PFAS removal from soil washing waters: can we transfer literature data on different water matrices for performance prediction?
<i>Simon A. Rath</i>	Impact of O <sub>3</sub> -Treatment of Textile and Municipal Wastewater on PFAS Transformation and Adsorption on Activated Carbon
<i>Yongtao Xue</i>	Facile fabrication of hierarchical PVDF/Mg-Al LDH/chitosan membrane for textile wastewater remediation: role of LDH in anchoring chitosan
<b>Session 14: Water Governance, Policy &amp; Societal Dimensions</b>	
<i>Payton Te Ngaio</i>	Identifying priority areas for riparian intervention investment to support water quality improvement in regional and urban landscapes.
<i>Valeria Grippo</i>	Demographic Scenarios and Water Service Provision
<i>Emma Mazzotta</i>	The Regime of Offshore Freshened Groundwater: A Scientific, Regulatory and Legal Basis
<i>Denisa Čadková</i>	Regional Peer-to-Peer Collaboration among Young Water Professionals in the Danube Region
<i>Patricia Allgaier</i>	Game On for Water Reuse: The Risk Management Plan Challenge
<b>Session 15: AI, Modelling &amp; Decision Support for Water Systems</b>	
<i>Marta Mulet-Mauleon</i>	From Jar Tests to Full-Scale Operation: A Causal ANFIS-Based Decision Support System for Chemical Dosing Optimization in Drinking Water Treatment
<i>Jessica Ianes</i>	Optimizing Coagulation-Flocculation via an Online Digital Twin: Integrating Gray-Box AI for Enhanced Resilience at the Walem WWTP
<i>Roberta Muoio</i>	Model-Based Process Design for Cost-Effective Optimization of an Industrial WWTP
<i>Frida Viktor Frandsen</i>	Anomaly Detection in Wastewater Treatment Plants: Comparing Univariate and Multivariate Methods for NH <sub>4</sub> -N Sensor Data
<i>Jessica Ianes</i>	Turning a drinking water treatment digital roadmap into reality in Northern Netherlands: the first digital twin for UV/H <sub>2</sub> O <sub>2</sub> treatment
<i>Sait Mutlu Karahan</i>	Ensemble-Based Uncertainty Quantification for Electrical Conductivity Forecasting in a River System
<i>Roberta Muoio</i>	Designing for Minimal Bromate: CFD-Based Optimization of a Hybrid Ozonation Reactor
<i>Francesca Mastromarino</i>	Smart strategies for water loss control in Milan: integrating digital twins and advanced leak detection
<i>Hossam A. Abdelaziz</i>	Mechanistic and data-driven approach for primary settling tanks modelling

<b>Tuesday June 16<sup>th</sup> (16:00-17:00)</b>	
<b>Session 16: Innovation in anaerobic digestion and sludge management</b>	
<i>Vincenzo Pelagalli</i>	Enhanced antibiotics degradation through magnetite addition in the anaerobic digestion of dairy farm waste
<i>Matteo Grana</i>	Full-scale application of an integrated biorefinery for resource recovery from wastewater sludge and municipal organic waste
<i>Francesca Taschini</i>	Enhancing Energy Recovery from Wastewater Sludge: Comparative Scenarios for Circular Sludge Line Revamping in a large WWTP
<i>Francesco Piccioli</i>	Optimal Sludge Management Through a Multi Hub Strategy: A Territorial Approach to Energy Recovery and Regulatory Resilience
<i>Ottavia Burzi</i>	Anaerobic Digestion intensification: Rethinking the sizing of municipal sludge digesters
<i>Alessandro Alberti</i>	A simplified method for the sizing of full-scale Aerobic Granular Sludge Wastewater Treatment Systems

<i>Alfonso Campaniello</i>	Improving the COD/N ratio by removing nitrogen from ammonia-rich landfill leachate and sludge dewatering water at the Modena WTP
<i>Marina Santonja Coloma</i>	A New Life for PET Waste: Turning Plastic into Energy via Anaerobic Co Digestion in WWTPs
<b>Session 17: Advanced Monitoring methods</b>	
<i>Bruno Ursino</i>	Handling quantification limits in drinking water quality analysis
<i>Yunzhi Li</i>	Applicability-Domain-Aware QSRR Screening of Groundwater Micropollutants Integrating Mobility, Occurrence, and External Toxicity Evidence.
<i>Anna Košinová</i>	Method for the recovery of enteric viruses from DWTP water source and during treatment
<i>Brouwir Lena</i>	A Periphyton-Based Genomic Bioindicator of Surface Water Quality: Insights from a Pilot Study and Field Data
<i>Nida Siddiqui</i>	Toxicity of Pesticides to the Green Algae <i>Chlorella pyrenoidosa</i>
<i>Caterina Cacciatori</i>	Silent Chemicals, Vocal Rivers: Public Participation in the Monitoring of Pesticides in Water
<b>Session 18: Micropollutants &amp; Emerging Contaminants II</b>	
<i>Filippo Fazzino</i>	Fluorescence-based artificial neural networks to control the removal of contaminants of emerging concern by O <sub>3</sub> -AOPs
<i>Augusto Misolas</i>	Different approaches of fabric phase sorptive extraction for the identification and monitoring of emerging contaminants
<i>Jose Ricardo Gonzalez-Rodriguez</i>	Assessing Iron Oxide and Titanium Dioxide as Adsorbents for R471811 Metabolite Using Density Functional Theory
<i>Wu Qifan</i>	Selective Singlet Oxygen Generation via PAA Activation for Emerging Contaminant Degradation
<i>Kasim Sani Musa</i>	Optimising the adsorption system for complex produced water treatment: exploring mixtures of sorbents with variable properties
<i>Tomáš Dufek</i>	Optimization and Comparison of Advanced Oxidation Processes and Adsorption for the Removal of Pharmaceuticals from Municipal Wastewater

Monday June 15 <sup>th</sup> (15:45-16:30) – Tuesday June 16 <sup>th</sup> (15:00-16:00)		
Poster #	Presenting author	Poster Title
1	Nazmunnahar Nazmunnahar	Removal of reactive dyes from textile industry wastewater through combined adsorption and electrochemical oxidation.
2	Jiadong Peng	UVA radiation enhanced micropollutant degradation during chlorination of bromide-containing water
3	Rishabh Raj	Photo-Electro-Fenton Degradation of Dimethyl Phthalate Using a Binder-free g-C <sub>3</sub> N <sub>4</sub> /BiFeO <sub>3</sub> Cathode
4	Mónica Cabeo Garrido	Advance real-time biosensing for microbiological quantification in water systems
5	Anica Pavlinović	Performance of NF and RO membranes in pesticide mixture rejection
6	Mercy Adagayi	PFAS mass balance in a drinking water treatment plant.
7	Riccardo Bonsignore	Micropollutants treatment in WWTP: experience from 10 years and comparison of post-treatments.
8	Bleona Kuleta	Granular activated carbon and ozonation for removing pharmaceuticals from wastewater: A case study
9	Paddy Guichard	Feasibility of DEWATS for Post-Disaster Resilient Reconstruction
10	Laura Cammilli	Okhla New Delhi Municipal Wastewater Treatment Plant; the first plant in India to produce Class A sludge
11	Yasser Bashir	Synergistic Ni-Fe Modified Metal Organic Frameworks Driven (Bio) Electro-Fenton Systems: Unlocking Complete Atenolol Abatement from Wastewater
12	Derya Acar	Assessing the fate of organic matter, heavy metals in Microwave-assisted Hydrothermal Carbonisation: Comparative insights into the bioavailability and speciation from fractionation approaches
13	Stefano Cairone	Machine learning-driven fouling prediction and adaptive control in electro-Living Membrane Bioreactors for smarter wastewater treatment systems
14	Hong Dao Nguyen Pham	Mechanistic and Data-Driven Insights into Natural Rubber Particle Coagulation in Industrial Wastewater
15	Marco Matracchi	Unsupervised learning approach for monitoring campaign design of disinfection in a Drinking Water Distribution Network
16	Arnau Urgeles	Giswater: An Open-Source GIS Platform for Integrated Urban Water Network Management
17	Carolina Nanni	Building a community of Water Supplies through Shared Data: Connecting European Utilities via the Merkur database
18	Andrea Di Piazza	Investments, Governance, and Resilience in the Italian Water Sector
19	Ada Polizzi	Italian wastewater sector readiness under the revised UWWTD
20	Bracchi Alessandra	The Value of Water Community
21	Alberto Desca	How to manage micropollutants in the water environment from sources to humans? Integrated risk assessment and targeted mitigation strategies in a One-Health approach
22	Alberto Desca	Integrated early-warning system for a risk-based management of the water supply systems: from source to treatment
23	Camila Hope Hernández	Life Cycle Assessment of an innovative bio-tile nature-based solution for treating urban runoff and enabling safe groundwater infiltration
24	Vedanti Kelkar	Investigating Blue-Green Infrastructure (BGI) Planning and Implementation to Improve Stormwater Management Resilience of Cities in India: Case of the Mumbai Metropolitan Region

25	Gahyun Lee	Metal Removals by Phytoremediation in Bioretention treating Urban Stormwater Runoff
26	Abel Deme	Compound Flooding Along the Irish Coast
27	Estela Torres Serrano	GIS Based 1D/2D Flood Modelling in Manresa using IBERGIS: A Replicable Workflow for Urban Climate Resilience
28	Antonio Mineo	Production and recovery of polyhydroxyalkanoates and extracellular polymers using phototrophic mixed cultures
29	Ji Li	Adhesion and binding properties of extracellular polymeric substances (EPS) extracted from activated sludge
30	Luca Sessolo	From WWTP to WRRF: Implementing a Reclaimed Water Distribution System at the Besozzo Facility
31	Cora Eichholz	K-Harvesting at the effluent of WWTPs: First promising steps
32	Renan Coghi Roger	Dark fermentation of sugarcane vinasse: Alternative calcium-based alkalinizing strategies for sulfidogenic activity
33	Elise Kalrsson Faudot	The trap of modernising cities: consistent overlooking of nutrient recovery from wastewater as water infrastructure modernises.

## **Workshop 1 and 4: Career path workshop**

Invited speakers with inspiring careers with different background will explain their career path from education until current position, highlighting ups and downs of their journey, and revealing which technical and soft skills have helped them throughout their career.

## **Workshop 2: ENEA, Adapting to Climate Change by Rethinking Water: The Role of Non-Conventional Resources**

This workshop presents an integrated approach to climate change adaptation through the use of non-conventional water resources, focusing on rainwater harvesting and the reuse of treated wastewater. Participants will be divided into two thematic working groups, one focusing on rainwater reuse and the other on treated wastewater reuse. Each group will engage in a facilitated collaborative exercise, brainstorming rounds, group discussions and the production of a thematic poster, to identify key advantages, existing barriers and potential solutions for the future implementation of these adaptation measures within the framework of the integrated urban water cycle, and to actively contribute their perspectives and experiences.

## **Workshop 3: Dutch Water Authority, Design the water future of Europe: Looking for input for the European Knowledge Network!**

The purpose of this workshop is to introduce and discuss the development of a European knowledge network (EKN), initiated on behalf of the Dutch water authorities. The network aims to strengthen structured, practice-oriented knowledge exchange between European water professionals and to support experts in addressing shared and emerging challenges. During this workshop, participants will generate input for this EKN. What are topics we should work on? What knowledge is still lacking? Who should be involved? It will be very valuable to capture future-oriented perspectives from Young Water Professionals (YWPs).

## **Workshop 5: Xylem and Scottish Water, It Takes A Network: A Digital Monitoring CoLab With Scottish Water & Xylem**

This workshop turns a real problem-solving challenge into a live, hands-on scenario for participants, showcasing how data-driven decision-making, clear communication pathways, and decisive action can avert pollution events and unnecessary spend in the water field. Participants are assigned to mixed break-outs that deliberately pair early-career with more experienced professionals and look to ensure a range of roles across utility operations, digital/OT, asset management, consulting/regulation. Each table receives the same constraint set (risk, cost, time, environmental sensitivity, stakeholder communications) and a common evidence pack (context brief, simplified network sketch, indicative telemetry snapshots). Using this, teams design an intervention strategy and respond to targeted prompts.

## **Workshop 6: ICRA, Using Nat4Wat as a Decision-Support Tool for Nature-Based Solutions in Urban Water Management**

This workshop introduces Nat4Wat (<https://nat4wat.icra.cat/home>), a web-based decision-support tool developed at ICRA (Catalan Institute for Water Research) to support stakeholders in the selection and comparison of NBS and decentralized water technologies. An interactive group exercise is included in the workshop. Participants will work in small groups acting as consultancy companies responding to a fictional call from a city council that has received funding to improve urban water management through decentralized NBS. Each group will be assigned a specific scenario to apply the Nat4Wat tool to design a suitable solution.