

Track 1 WATER UTILITY MANAGEMENT	Track 2 WASTEWATER TREATMENT AND RESOURCE RECOVERY	Track 3 DRINKING WATER AND POTABLE REUSE	Track 4 CITY-SCALE PLANNING AND OPERATIONS	Track 5 COMMUNITIES, COMMUNICATION AND PARTNERSHIPS	Track 6 WATER RESOURCES AND LARGE- SCALE WATER MANAGEMENT
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Sunday 11 September	Monday 12 September	Tuesday 13 September	Wednesday 14 September	Thursday 15 September
	KEYNOTE PLENARY 09:00 — 09:50			
	BREAK 09:50 — 10:30			
	SESSION 1 10:30 — 12:00			
	LUNCH 12:00 — 13:30			
	SESSION 2 13:30 — 15:00			
	BREAK 15:00 — 15:45			CLOSING CEREMONY 15:15 — 16:45
OPENING CEREMONY 16:00 — 18:00	SESSION 3 15:45 — 17:15			
EXHIBITION OPENING & WELCOME RECEPTION 18:00 — 20:00 Exhibition Hall	KEYNOTE PLENARY 17:30 — 18:20			
				GALA DINNER Evening

Monday 12 September

SCHEDULE	A2	A3	C0	C1	C2	C3	B5 a	B5 b	B4 a
09:00 - 09:50	CONGRESS HALL A1 — KEYNOTE PLENARY — Prof Rohit T Aggarwala								
BREAK 09:50 - 10:30	HIGH-LEVEL SUMMIT	GROUNDWATER FORUM I	NATURE BASED SOLUTIONS WORKSHOP	NEXT GENERATION WATER ACTION	WORKSHOP 5.8 The art of collaboration: crossing borders to solve systems-based problems	TECHNICAL 2.1.2-1 Anaerobic digestion and enhanced performance	TECHNICAL 2.5.1 Sewer corrosion and odour management	TECHNICAL 3.1. Technologies and operations - I	TECHNICAL 3.12 Water management: source to consumer
SESSION 1 10:30 - 12:00									
LUNCH 12:00 - 13:30	HIGH-LEVEL SUMMIT	GROUNDWATER FORUM II	AQUARATING WORKSHOP		WORKSHOP 1.1 Nature-based Solutions — a way to make our cities circular	TECHNICAL 2.1.2-1 Anaerobic digestion and enhanced performance	TECHNICAL 2.1.4-2 Biofilm reactors	TECHNICAL 3.2. Technologies and operations - II	WORKSHOP 6.5 Earth observation for water management - building a community of practice
SESSION 2 13:30 - 15:00									
BREAK 15:00 - 15:45	HIGH-LEVEL SUMMIT	GROUNDWATER FORUM III	PROFESSOR GUSTAF OLSSON Festschrift presentation and legacy lecture	TRANSFORMING RESEARCH RESULTS INTO INNOVATION UPTAKES	TECHNICAL 6.4 Surface water issues related to ecosystem, recreation, drinking water source and monitoring	TECHNICAL 2.1.2-2 Improved anaerobic process	TECHNICAL 2.1.5 Membrane bioreactors and fouling control	TECHNICAL 3.5. Decentralised solutions and potable water reuse	WORKSHOP 3.5 Prevention and management of taste-and-odour events in supplies
SESSION 3 15:45 - 17:15									
17:30 - 18:20	CONGRESS HALL A1 — KEYNOTE PLENARY — Nathalie Olijslager								
B4 b	B4 c	B4 d	B3 a	B3 b	B3 c	B3 d	B3 e	B3 f	B3 g
CONGRESS HALL A1 — KEYNOTE PLENARY — Prof Rohit T Aggarwala									
TECHNICAL 5.1 Bottom-up resilience planning across the water cycle	WORKSHOP 5.6 Young water entrepreneurs: entrepreneurship as a way to bridge research and practice	TECHNICAL 1.12 Infrastructure rehabilitation	TECHNICAL 1.21 Integrated digital water utility	TECHNICAL 4.4.3 Microbial and chemical risks for city planning	WORKSHOP 4.1 The role of water and wastewater utilities in supporting Sustainable Development Goals	WORKSHOP 2.1 Future challenges for removal of micropollutants in wastewater treatment plants	TECHNICAL 2.2.1-1 Water reclamation for non-potable reuse	TECHNICAL 2.3.2-1 Advanced oxidation processes - group 1	WORKSHOP 1.3 Addressing water shortage mitigation in the mediterranean region
TECHNICAL 5.2 Incentives and drivers to enable change	TECHNICAL 4.4.8 Innovative modelling tools for urban water systems	WORKSHOP 1.2 Methodology and context for quantifying your sewer methane	TECHNICAL 1.19 Digital business management approaches at utility scale	TECHNICAL 4.4.2 Drivers and hazards at city scale	WORKSHOP 4.2 Evaluation criteria and approaches for tools in NbS planning	TECHNICAL 2.5.3-1 - Wastewater epidemiology: SARS-CoV-2	TECHNICAL 2.2.1-2 Water reclamation for non-potable reuse	TECHNICAL 2.3.2-2 Advanced oxidation processes - group 2	TECHNICAL 1.18 Utility responses and adaptation to climate change impacts
WORKSHOP 5.1 How the water industry can support women internationally	TECHNICAL 1.3 New services and perspectives for water utilities	TECHNICAL 1.13 Sewer overflow management at utility level	TECHNICAL 1.20 Utility-scale data collection, visualisation and utilisation	TECHNICAL 4.4.5 Flood risk management	WORKSHOP 4.3 Nature-based Solutions for climate-resilient cities in developing countries under change	TECHNICAL 2.5.3-2 Wastewater epidemiology: ARGs, SARS-CoV-2 and other pathogens	TECHNICAL 6.5 Technical achievements for surface water control	WORKSHOP Water Security and Sanitation Challenges in the Small Island States	WORKSHOP 1.3 Innovative Approach to Nature-based Solutions for urban climate resilience
CONGRESS HALL A1 — KEYNOTE PLENARY — Nathalie Olijslager									

Tuesday 13 September

SCHEDULE	A2	A3	C0	C1	C2	C3	B5 a	B5 b	B4 a
09:00 - 09:50	CONGRESS HALL A1 — KEYNOTE PLENARY — Dawn Martin-Hill								
BREAK 09:50 - 10:30	UTILITY LEADERS FORUM I	FORUM FOR INDUSTRIAL WATER USERS I	EMERGING WATER LEADERS FORUM I	INCLUSIVE URBAN SANITATION 1	WORKSHOP 5.3 Putting cross-border collaboration into practice	WORKSHOP 2.2 BioCluster workshop — microbial ecology in water engineering: from theory to practice	TECHNICAL 2.4.2-1 Biosolids management & reuse	TECHNICAL 3.3 Groundwater based production - I	TECHNICAL 3.13 Water management in diverse contexts
SESSION 1 10:30 - 12:00									
LUNCH 12:00 - 13:30	UTILITY LEADERS FORUM II	FORUM FOR INDUSTRIAL WATER USERS II	EMERGING WATER LEADERS FORUM II	INCLUSIVE URBAN SANITATION 2 (DEI)	WORKSHOP 1.4 Developing consensus and good practices for digital twin applications A	TECHNICAL 2.1.6 Microbial ecology (communities, meta-omics)	TECHNICAL 2.4.2-2 Biosolids management & reuse	TECHNICAL 3.4 Groundwater based production - II	WORKSHOP 6.5 Coordinated management from source to sea - in the baltic sea and other basins
SESSION 2 13:30 - 15:00									
BREAK 15:00 - 15:45	UTILITY LEADERS FORUM III	FORUM FOR INDUSTRIAL WATER USERS III	WATER SAFE CITIES	ADVANCEMENTS IN NON-SEWERED SANITATION	WORKSHOP 1.4 Developing consensus and good practices for digital twin applications B	TECHNICAL 2.1.3a Activated sludge processes: microbial community dynamics	TECHNICAL 2.4.3-4 Microplastics as emerging contaminants of concern	TECHNICAL 3.8 Nonrevenue water, leakage management and intermittent water supply	WORKSHOP 3.2 Alleviating water scarcity using groundwater: the role of knowledge exchange through international cooperation
SESSION 3 15:45 - 17:15									
17:30 - 18:20	CONGRESS HALL A1 — KEYNOTE PLENARY — Oliver Grievson and Enrique Cabrera Rochera								
B4 b	B4 c	B4 d	B3 a	B3 b	B3 c	B3 d	B3 e	B3 f	B3 g
CONGRESS HALL A1 — KEYNOTE PLENARY — Dawn Martin-Hill									
TECHNICAL 5.3 Enabling health, well-being and liveability outcomes	WORKSHOP 5.7 Creating an effective innovative eco-system. How the UK enhances & enables innovation and what we can continue to learn	TECHNICAL 1.9 Asset management and optimisation innovation	TECHNICAL 1.5 Utilities water reuse throughout the water cycle	TECHNICAL 4.4.1 Data driven modelling at city scale	WORKSHOP 4.4 Tapping the value of urban drainage systems (UDS) data	TECHNICAL 2.4.3-1 PFAs as emerging contaminants of concern	TECHNICAL 6.1 Groundwater holistic approaches and regulation for water security	TECHNICAL 2.3.3 Nanomaterials and nanotechnology	TECHNICAL 1.6 Sustainable utility management - the Nordic experience
TECHNICAL 5.4 Partnerships and cooperation in and beyond the water sector	WORKSHOP 1.5 Research to technology - turning high impact research into breakthrough technology	TECHNICAL 1.10 Asset management and optimisation modelling	WORKSHOP 1.5 How to build integrative, regional strategies for responsible water reuse?	TECHNICAL 4.4.4 Planning in respect of nature impacts	WORKSHOP 4.5 Exploring framework conditions for utilities to reduce GHG emissions	TECHNICAL 2.4.3-2 Micropollutants as emerging contaminants of concern	TECHNICAL 6.2 Groundwater management - key's to SDGs	TECHNICAL 6.6 Strategic digital control of water management	TECHNICAL 1.7 Sustainable utility management
WORKSHOP 5.2 Towards climate smart utilities	TECHNICAL 6.7 Water stress, droughts and floods, including impact of climate change	TECHNICAL 1.11 Asset management and optimisation case studies	WORKSHOP 1.2 On-site reuse of water across the world	TECHNICAL 4.4.9 Pollution of urban water: monitoring, modelling, and controlling	WORKSHOP 4.9 Groundwater management for climate change adaptation considering the interaction between infrastructure and groundwater	TECHNICAL 2.4.3-3 Pharmaceuticals as emerging contaminants of concern	WORKSHOP 2.3 High value products based on carbon in wastewater - how do we select and is it sustainable?	TECHNICAL 6.3 Groundwater — resilience approaches	TECHNICAL 1.8 Greenhouse gas emissions in Denmark
CONGRESS HALL A1 — KEYNOTE PLENARY — Oliver Grievson and Enrique Cabrera Rochera									

Wednesday 14 September

SCHEDULE	A2	A3	C0	C1	C2	C3	B5 a	B5 b	B4 a
09:00 - 09:50	CONGRESS HALL A1 — KEYNOTE PLENARY — Farokh Laqa Kakar								
BREAK 09:50 - 10:30	UTILITY LEADERS FORUM IV	REGULATORS FORUM I	AFRICA BUSINESS FORUM	INNOVATORS PLATFORM I	WORKSHOP 1.4 Skills for a digital water future	TECHNICAL 2.1.3b Activated sludge processes: the nitrogen cycle	TECHNICAL 2.6. Digital tools for wastewater process optimisation	TECHNICAL 3.6 Emerging contaminants (PFAs, pesticides and others) - I	TECHNICAL 3.14 Digital water
SESSION 1 10:30 - 12:00									
LUNCH 12:00 - 13:30	UTILITY LEADERS FORUM V	REGULATORS FORUM II	Upscaling Faecal Sludge and Septage Management (FSSM) to City Wide Inclusive Sanitation (CWIS): Experience from India (state of Uttar Pradesh) and Global South	INNOVATORS PLATFORM II	TECHNICAL 6.11 Circular economy 1	TECHNICAL 2.1.1-1 Innovative mainstream wastewater treatment	TECHNICAL 2.6 Data-driven tools for wastewater treatment processes	TECHNICAL 3.6 Emerging contaminants (PFAs, pesticides and others) - II	WORKSHOP 3.3 Health risk assessment of antimicrobial resistance in water systems
SESSION 2 13:30 - 15:00									
BREAK 15:00 - 15:45	LATIN AMERICA DAY AT THE 2022 IWA WORLD WATER CONGRESS	REGULATORS FORUM III	NFSSM WORKSHOP: Collaborative Approach to Resilient and Inclusive City Sanitation: Best Practices for a Multi-stakeholder Ecosystem	INNOVATORS PLATFORM III	TECHNICAL 6.12 Circular economy 2	TECHNICAL 2.1.1-2 Optimisation and control of nutrient removal	TECHNICAL 2.3.1 Membrane applications in wastewater management	TECHNICAL 3.9 Emerging pathogens and their management in drinking water and water reuse	WORKSHOP 3.2 Groundwater as a sustainable supply resource
SESSION 3 15:45 - 17:15									
17:30 - 18:20	CONGRESS HALL A1 — KEYNOTE PLENARY — Paul O'Callaghan								
B4 b	B4 c	B4 d	B3 a	B3 b	B3 c	B3 d	B3 e	B3 f	B3 g
CONGRESS HALL A1 — KEYNOTE PLENARY — Farokh Laqa Kakar									
TECHNICAL 5.5 WASH and community-scale water management	WORKSHOP 5.9 Global megatrends and workforce of tomorrow	TECHNICAL 1.1 Non-revenue water — case studies	TECHNICAL 1.16 COVID-19 pandemic scientific responses at utility level	TECHNICAL 4.4.7 The urban water cycle: monitoring and modelling	WORKSHOP 4.10 Systemic management for water wise cities - Scandinavian experiences	WORKSHOP 1.4 Digital water: benefits and return on experience for the water sector	TECHNICAL 2.2.3-1 Recovery of nutrient and chemicals-group 1	TECHNICAL 6.8 Water resource management and adaptation to climate change impacts	TECHNICAL 1.1 The road towards climate and energy neutral water utilities
WORKSHOP 5.3 Online and hybrid approaches to knowledge exchange and capacity building for Water Operator Partnerships (WOPs)	WORKSHOP 1.5 The future of water cooperation programmes: how to ensure equal access to the best available solutions and technology	WORKSHOP 1.1 Non-revenue water management in low and middle income countries- A	TECHNICAL 1.17 COVID-19 pandemic impacts and case studies at utility level	TECHNICAL 4.4.10 Digital water cities	WORKSHOP 4.6 Water for smart liveable cities	TECHNICAL 2.2.2-1 Energy efficiency and recovery-group 1	TECHNICAL 2.2.3-2 Recovery of nutrient and chemicals-group 2	TECHNICAL 6.9 Catchment management and natural capital approaches on different scales	WORKSHOP 1.1 Water efficiency: the fastest, cheapest, largest source of new water
WORKSHOP 5.4 Water orientated living labs as a mean to engage stakeholders in the development and demonstration of water technologies	TECHNICAL 1.22 Fostering innovation and partnerships at utility level	WORKSHOP 1.1 Non-revenue water management in low and middle income countries- B	TECHNICAL 1.15 Management of extreme events	TECHNICAL 4.4.11 Nature-Based solutions, sponge cities and blue-green infrastructure	TRAINING 4.1 Assessing project impacts on all SDGs with the Water4AllSDGs App	TECHNICAL 2.2.2-2 Energy efficiency and recovery-group 2	TECHNICAL 2.2.3-3 Recovery of nutrient and chemicals-group 3	TECHNICAL 6.10 Holistic assessments and approaches	WORKSHOP 1.2 Sustainable small wastewater treatment plants: present, future, opportunities and challenges
CONGRESS HALL A1 — KEYNOTE PLENARY — Paul O'Callaghan									

Thursday 15 September

SCHEDULE	A2	A3	C0	C1	C2	C3	B5 a	B5 b	B4 a
09:00 - 09:50	CONGRESS HALL A1 — KEYNOTE PLENARY — Gertjan Medema								
BREAK 09:50 - 10:30		REGULATORS FORUM IV			TECHNICAL 6.13 Integrated assessment	TECHNICAL 2.1.4-1 Aerobic granular sludge	TECHNICAL 2.4.1 Dedicated treatment	WORKSHOP 6.16 Holistic approaches to solving conflicts about water	WORKSHOP 3.4 Leading edge sand filtration
SESSION 1 10:30 - 12:00									
LUNCH 12:00 - 13:30		REGULATORS FORUM V		CLIMATE SMART UTILITIES RECOGNITION PROGRAMME	WORKSHOP 5.6 Innovation & entrepreneurship: developing entrepreneurial capabilities for the water sector	WORKSHOP 2.5 Aerobic granular sludge: intensifying and greening WWTPs	TECHNICAL 2.3.4 Other physico-chemical treatment techniques	TECHNICAL 3.11 Microbial, chemical, and by-product risk and management	WORKSHOP 3.1 SG health related water microbiology and WHO workshop: recreational water quality translating science to policy
SESSION 2 13:30 - 15:00									
15:15 - 16:45	CONGRESS HALL A1 – CLOSING CEREMONY – including Harremoës Lecture								
EVENING	GALA DINNER								
B4 b	B4 c	B4 d	B3 a	B3 b	B3 c	B3 d	B3 e	B3 f	B3 g
CONGRESS HALL A1 — KEYNOTE PLENARY — Gertjan Medema									
WORKSHOP 5.5 Reaching out for the water wise generation	WORKSHOP 1.3 Advancing coastal resiliency for imperiled barrier island systems	TECHNICAL 1.4 Optimisation of water distribution networks	WORKSHOP 1.3 Collaboration of water utilities and authorities in crisis	TECHNICAL 4.4.12 Transitioning to and implementation of sustainable and water wise cities	WORKSHOP 2.4 Microplastics in wastewater and biosolids	WORKSHOP 6.12 UNFC System for Groundwater-Resource Projects	WORKSHOP 6.13 How to operationalise integrated urban water management — a five-step guide	WORKSHOP 6.19 Governance and transition to a circular economy in public water services	WORKSHOP 1.5 Water in circular economy and resilience: an opportunity to transform urban water services
WORKSHOP 3.5 An innovative paradigm in water informatics for smart city applications	TECHNICAL 1.2 Utility efficiency and excellency	WORKSHOP 1.1 Are you adequately assessing your water losses? Learn to use the WL performance indicators	TECHNICAL 1.14 Integration of decentralised solutions in a centralised system	TECHNICAL 4.4.6 Holistic urban water management planning	WORKSHOP 4.7 Sanitation in urban informal settlements	WORKSHOP 4.8 Actionable pathway to implementation of Nature-based Solutions	WORKSHOP 6.16 Lifecycle system thinking and system boundaries for sustainability assessment of water management	WORKSHOP 1.4 The digital worker — challenges and lessons learned by international utilities	
CONGRESS HALL A1 – CLOSING CEREMONY – including Harremoës Lecture									
GALA DINNER									