

# IWA World Water Congress & Exhibition



## Shaping our water future

## Congress Programme & Exhibition Guide

# TORONTO CANADA

AUGUST 11-15

# 2024

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<b>Welcome to Toronto</b>	<b>1</b>
<b>Sponsors, Organisers, Partners, Programme Committee, Reviewers</b>	<b>5</b>
Sponsors	6
Organisers and Partners	9
Programme Committee	10
Reviewers	10
<b>Event Overview</b>	<b>15</b>
Programme Thematic Tracks	16
Programme Framework	17
Daily Programme Summaries	18
Business Forum Overview	20
Practical Information (including Congress App)	22
Floor Plan	24
<b>Congress Focus</b>	<b>25</b>
Opening Ceremony / Exhibition Opening / Welcome Reception – Sunday 11 August	27
Keynote Speakers and Plenary Panel Discussions	28
Congress Spotlights – Gala Dinner, Project Innovation Awards, Operations Challenge	35
Programme Features – Forum schedule	36
Specialist Groups – Open Meetings schedule	38
<b>Monday 12 August</b>	<b>42</b>
<b>Tuesday 13 August</b>	<b>54</b>
<b>Wednesday 14 August</b>	<b>66</b>
<b>Thursday 15 August</b>	<b>78</b>
<b>Poster Presentations</b>	<b>90</b>
<b>Exhibition</b>	<b>110</b>
Floor Plan	111
Exhibitor Listings	113
Exhibitor Profiles	122



# Welcome

## from the IWA President



On behalf of the International Water Association, I welcome you to the beautiful and vibrant city of Toronto for the 2024 IWA World Water Congress & Exhibition.

As President I have the great privilege of seeing this edition of IWA's biennial event build on the success of the previous one, continuing our work sharing advances and connecting the people behind them. It represents the latest stage in the life of an event that celebrates excellence, gives voice to innovation, and provides a pinnacle of global discourse within the water sector.

The Congress provides a space for leading experts to gather to forge solutions to global challenges, to advance decision-making based on evidence-based science, to share scientific breakthroughs and game changing technologies, and inspire progressive thought leadership through its keynote plenaries delivered by expert speakers of the highest calibre.

As President I have an amazing opportunity to share in the magic of Congress. In Toronto, I will once again present awards to people who have undertaken outstanding work with courage and conviction; meet young water professionals who give me faith that the future of the water sector will be led by the brightest and the best, who are armed with an incredible depth of knowledge, outstanding communication skills, and a breathtaking determination to tackle the global water crisis despite the myriad of challenges; and more widely, to celebrate the energy and diversity that is core to all of IWA's activities.

Moreover, my position gives me insight into the vast work that goes into making this Congress the success that it is – work undertaken by people striving to present the best of the best, volunteering time selflessly with great dedication. Without this, Congress would not be the exceptional event that it is.

As the world grapples with the challenges of climate change, water and food insecurity, poverty, health inequality, natural disasters and conflict, our Congress provides an environment where complex problems can be unravelled and solutions explored and championed. The event stands as a beacon, drawing great minds to work together to find the best solutions to the hardest of questions.

Welcome to IWA's World Water Congress & Exhibition 2024. I hope that you will be inspired, share your knowledge, learn from that of others, make lasting connections, and enjoy the spectacle of all that the event has to offer.

**Tom Mollenkopf**, *IWA President*

## Welcome to Canada



Canada is proud to host IWA's World Water Congress & Exhibition 2024. Following the resounding success of the previous edition in Copenhagen, Denmark in 2022, we are honoured to take up the baton and continue to support the progress that water professionals are making across the world.

Canada's expansive and rich environment makes it especially suited to host an international event dedicated to the vital resource, water, drawing together people from across the globe who are driven to find solutions to the world's most pressing water challenges.

The second-largest country in the world by total area (including its waters), Canada has around two million lakes – containing much of the world's freshwater – as well as freshwater glaciers in the Canadian Rockies, the Coast Mountains, and the Arctic Cordillera. We also have the world's longest coastline, stretching over 240,000 kilometres. So, water and its protection are subjects of great significance to Canadians.

In addition to witnessing our abundant natural resources, we hope you will make time to explore our rich culture while you are here. Canada has been home to indigenous peoples for thousands of years and is one of the world's most ethnically diverse and multicultural nations.

Our host city, Toronto, is home to people from around 150 different countries. It also has much to share from a water perspective and is advancing actions to make it more sustainable, green, and beautiful.

Canada is one of the world's largest trading nations, and investment in research and development has created a climate that nurtures progress, particularly in science and technology. This has all established Canada as a great place for knowledge sharing, which will be a key element of this Congress.

My hope is that IWA's World Water Congress & Exhibition 2024 will inspire each and every attendee who passes through our doors. From students entering the sector, to the most esteemed and experienced beacons of their profession, individuals with a water background, and those from other sectors eager to learn, my ambition is for you all to leave this Congress fired with the energy required to make lasting positive change. Our time is now, let's make it count.

**Peter Vanrolleghem**, *Congress President*

# Welcome

## from the IWA



As IWA's Executive Director, I am honoured to welcome you to Toronto for the 2024 World Water Congress & Exhibition. I would like to take this opportunity to thank all the many people involved with the preparations for this event, especially the organising and programme committees, and the supporting partners and sponsors.

The event provides an important opportunity for us to gather, where seasoned Congress attendees can meet up and share the work they have been engaged with since they last met, and those new to the event can network, meet potential collaborators, and forge friendships based on shared interests.

As we seek solutions for the world's water challenges, people will be the key to the sector's success. This success will be dependent on commitment on a number of fronts: delivering equitable and safe water and sanitation solutions that serve all and the planet; engaging with communities to deliver solutions that are specific to local needs and cultures; and creating living spaces where people thrive in a nurturing, clean environment.

This commitment will need to be backed by inquisitiveness that advances innovative options, and by understanding of the transformation that safe water, sanitation and hygiene has on everyday lives.

The theme of this Congress is 'Shaping our water future', a title that is both empowering and challenging. Our water future is something that we as professionals must mould. There is opportunity for lasting implications for future generations. I am optimistic that this Congress will facilitate conversations that put people at the heart of water management, encourage collaboration, and align technology's potential with human needs.

The future is ripe with opportunity. Our Congress provides the ideal environment to debate the many possibilities, shape the road ahead, and embark upon game-changing approaches to transform the world's water future. I wish you a successful event.

**Kala Vairavamoorthy**, *IWA Executive Director*

## Welcome to Toronto



Welcome to Toronto – the most populous city in Canada, the capital of the Canadian province of Ontario, and proud host of the 2024 IWA World Water Congress & Exhibition.

Famously referred to as "the world in one city", for its fantastic diversity and vibrancy, Toronto provides incredible opportunities for participants to explore the great things that are happening in the world of water, and also experience the many touristic events all across Toronto – and more widely Canada.

Toronto can fulfil the expectations of any visitor. With its great culture and cuisines from all around the globe, it offers something for everyone. At its heart is the dynamic downtown area, where the shoreline of Lake Ontario and the iconic CN Tower create an unforgettable skyline that will live on in your memories.

The city is served by what is one of the largest municipal water, wastewater and stormwater utilities in North America. Our city's dedicated water professionals proudly provide for over 3.6 million residents and businesses, ensuring they have access to safe drinking water, safely treated wastewater and proactive stormwater management. We manage over \$90 billion worth of assets, including eight treatment plants, pumping stations, water and sewer mains, and laboratories.

Delegates attending the technical tours will have the chance to see the many progressive initiatives we are advancing in the city. From our water and wastewater treatment facilities, energy recovery projects, green streets, and Wet Weather Flow Master Plan, there's lots to learn. It is a huge pleasure to be able to share these advancements with visitors from around the world.

As chair of the event's Joint Organising Committee, I have seen at first hand the huge amount of work that has gone into preparing for this week in Toronto. Now that the event is here, I am confident it will provide a rich and rewarding experience.

I wish you a successful event and encourage you to explore and enjoy all that this great city has to offer.

**William Fernandes**, *Joint Organising Committee chair*

## Welcome from CWWA & CAWQ



With participants arriving in Toronto for IWA's World Water Congress & Exhibition 2024, we are pleased to extend a very warm welcome from Canada's water sector professionals to

fellow professionals from around the world. Canada has a proud water history and we are delighted that you are able to join us here to add to that history with this seminal event.

The Canadian Water and Wastewater Association (CWWA) was founded by Canadian municipal water and wastewater leaders in 1986. CWWA represents the shared interests of Canada's municipal water and wastewater systems to the federal government and all national agencies with regards to policies, programmes, standards and legislation, providing a national voice for this public sector service.

Focusing our activities and communications on national issues and trends, we work closely with other organisations to further the water sector's interests and create public awareness and support for this vital service that is founded on the expertise of dedicated professionals.

Meanwhile, the Canadian Association on Water Quality (CAWQ) is a non-governmental, non-profit organisation for scientists, engineers, technologists, administrators, practitioners and students engaged in or interested in research on water quality or the control or treatment of water pollution.

With a mission to broaden knowledge and understanding of water issues, our membership embraces industry, academia, governmental and non-governmental organisations, public servants, community groups, professional societies, private firms and the public.

The combined breadth of this engagement is critical for the sector to rise to the challenges that it faces. This breadth reflects the range of fellow professionals joining us here from across IWA's network. We look forward to exchanging knowledge and insights through the great opportunity that the World Water Congress & Exhibition 2024 provides.

**Jesse Hulsman**, *President, Canadian Water and Wastewater Association*

**Elsayed Elbeshbishy**, *President, Canadian Association on Water Quality*



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Toronto is home to more than three million people whose diversity and experiences make this great city Canada's leading economic engine and one of the world's most diverse and liveable cities. As the fourth largest city in North America, Toronto is a global leader in technology, finance, film, music, culture, innovation, and climate action, and is consistently placed at the top of international rankings due to investments championed by its government, residents and businesses.

Located on Lake Ontario's northwestern shore, the city of Toronto is the capital of the province of Ontario (one of 10 provinces in Canada), and its municipal boundaries extend across a 640 km<sup>2</sup> area, spanning six watersheds, where all but one of the watersheds extend beyond the city's municipal boundaries. The city has 10 waterfront beaches, eight of which have been granted the international Blue Flag designation and meet the strict provincially regulated water quality standard for swimming beaches through most of the summer.

Toronto is a global hub seamlessly uniting cultural diversity, economic strength, and scenic beauty. As Canada's largest city and financial epicentre, its strategic position on the Great Lakes marks it as a crucial economic gateway, luring businesses seeking stability and international access.

Toronto's vibrant, multicultural population fosters innovation and inclusivity, providing residents with an exceptional quality of life, robust healthcare, and diverse cultural experiences in dynamic neighbourhoods across the entire city. The Greater Toronto Area (GTA) welcomes more than 100,000 new immigrants annually and is home to a diverse population with 50% foreign-born and over 190 languages and major dialects spoken. The GTA is also Canada's largest education, research, and innovation centre, with 18 world-renowned universities and internationally recognised colleges.

Safe travels, and have a great time in Toronto!

Learn more at [www.toronto.ca](http://www.toronto.ca)

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Our water practice, Ramboll Water, covers the entire water cycle and offers a wide range of services related to water supply, simple or advanced treatment, water resources management, wastewater treatment and resource recovery, water and wastewater infrastructure, urban climate resiliency, nature-based solutions, storm-surge protection, and coastline development.



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Drawing on our experiences designing, developing, and maintaining water-related infrastructure around the world, we work to understand and influence local water cycles to address wider community issues like economic development, food and agriculture, and energy consumption.

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Working throughout the hydrologic cycle, we use innovative solutions to make sure the appropriate quality and quantity of water is where it should be and available when it's needed. Our experts lead their fields and guide our work with scientific rigour, an innovative spirit, and a vision for growth. Every day, we help communities improve their water efficiency and protect their water resources for future generations.

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[www.zchb-water.net](http://www.zchb-water.net)

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At least two experts from around the world reviewed and scored all submissions.

This is critical to ensure high standards, and IWA is grateful for the reviewers' commitment.

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## WORKSHOPS

Aaron Janzen  
Abhisek Shrestha  
Aditya Sharma  
Afeez Ayoade Adegbite  
Albert Acheampong  
Ali Haddad  
Andreas Farnleitner  
Angelos Alamanos  
Annalaura Carducci  
Anuradha Goswami  
Arooj Naveed  
Arlinda Ibrahimllari  
Baoqiang Liao  
Baris Kaymak  
Bismark Boamah  
Bruno Nguyen  
Carlos Campos  
Clara Brown  
Davood Mahmoodzadeh  
Fahimeh Mehranfar  
Fariba Ghanbari  
Fiona Brown  
François Xavier Tetero  
Gabrielle Migliato Marega  
Gerard Tiendrebeogo  
Hind Yaacoubi  
Hulisani Rananga  
Jacob Amengor  
Jorge Tavares  
Kanchan Deoli Bahukhandi  
Kathleen Farrow  
Khaled Benis  
Kowsalya Vellingiri  
Kwok-Wai Tsang  
Laila Dina Amalia Purba  
Lisa Schaefer  
Lu Feng  
Lu Li  
Małgorzata Szlachta  
Mamorea Ramosoeu  
Mina Mahdian  
Mike Lywood  
Miguel Angel Sanz  
Mohamed Monirul Islam  
Mohamed Farhaoui  
Mohamed Farghali  
Mourad Guesri  
Nabiha Ben Sedrine  
Nila Davari  
Omid Bahmani  
Oliver Iorhemen  
Paolo S. Calabrò  
Patrick Gbegbe  
Pezhman Taherei  
Prabhakar Sharma  
Rajnikant Prasad  
Rosa Yaya  
Sadaf Khan  
Salman Khan  
Sheida Moin  
Sheetal Kumari  
Shadreck Phiri  
Sharlet Ndede  
Shirish Singh  
Soni Kumari  
Thadsha Navaneethan  
Uday Shankar Prasad  
Ulf Jeppsson  
Vadim Malkov  
Vinod Kumar Vadivel  
Yuan Yan

# Comcore

## SAVING LEAKAGE MANAGEMENT SOLUTION BASED ON COGNITIVE AI

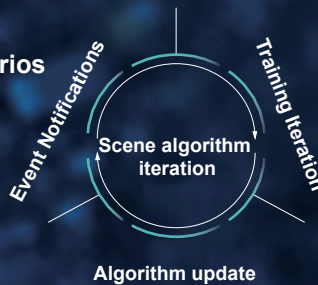
Comcore's AI Leak Loss Control Solution provides an integrated hardware and software service. Utilizing dual-optimized artificial intelligence algorithms, it embeds domain expertise and relies on human-like reasoning to clean and analyze water supply network data. It offers an optimized placement strategy for flow and pressure sensors, precisely locating leak points while minimizing the number of sensors used. This establishes an intelligent leak monitoring system that can autonomously learn from changes in pipeline data over time, continuously proposing optimization recommendations to save water and enhance efficiency.

### Application of cognitive AI algorithm in leakage management

#### leakage management scenarios

- Support the digital transformation of water department
- The quantitative analysis results can assist utilities to further optimize network, such as the dynamic balance of pressure, diameter pressure matching, etc

Using EPANET to generate millions of simulation scenarios of random leaks to learn the optimal sampling strategy



Zero-Coding ML System

#### Cognitive AI algorithm services

- Provide algorithm suggestions
- Minimum and optimal sensor placement locations are recommended to reconstruct the flow characteristics of each node in the network to detect leaks

Deep learning based on real-time data  
Synchronous optimization algorithm, learn to reconstruct external flow + detect leaks + dangers, defects, etc

**\*powered by Beyond Limits**

Comcore Technology Pte. Ltd.

Address: 12 Woodlands Square, Tower 1, #13-68/69 Woods Square, 737715

website: <https://www.comcore.com.sg>

An aerial photograph of Toronto, Ontario, Canada, taken during sunset. The sun is low on the horizon to the left, casting a warm, golden glow over the city. The CN Tower stands prominently in the center, its white structure and glass observation deck clearly visible. To the left of the tower is the Rogers Centre, a large stadium with a white, retractable roof. The surrounding city is densely packed with various buildings, including several skyscrapers. The sky is filled with soft, colorful clouds, and the overall atmosphere is serene and picturesque. A white rectangular box with the text "Event Overview" is overlaid on the upper right portion of the image.

## Event Overview

# Programme Thematic Tracks

## Shaping the future of water management

### Track 1

#### Water Utility Management

The water sector needs to improve utility management to guarantee efficient operations. This covers a wide range of actions, from infrastructure development for water supply to improvement in public-private sector cooperation, up to the management of the full urban water cycle. The need to maintain high performance while implementing environmentally sustainable models for water management will affect future developments in water utilities' strategies.

### Track 2

#### Wastewater Treatment & Resource Recovery

Wastewater management and resource recovery face many challenges and opportunities. Before returning to the water cycle (rivers, lakes, estuaries, oceans), wastewater needs to be treated via biological or physicochemical treatments, or a combination of these, to be safely discharged with an acceptable impact on the environment. In this process, wastewater is recognised as a valuable source of renewable resources. It is therefore crucial to adapt wastewater facilities to ensure the recovery of energy and valuable compounds, including water itself. For this purpose, it is also critical to emphasise the significance of digital technology, which may be utilised in daily operations to increase efficiency.

### Track 3

#### Drinking Water & Potable Reuse

Potable water reuse refers to the process of using treated wastewater for drinking water. This represents a practical source of drinking water in response to growing pressures on available water resources. The optimisation of potable water reuse practises necessitates effective drinking water production technologies as well as efficient distribution systems. To ensure this, as well as high water quality standards, an in-depth investigation of water management and sociopolitical aspects is needed. These can also be facilitated by the use of digital tools and technologies.

### Track 4

#### City-scale Planning and Operations

Cities all over the world are facing challenges in terms of climate change, increased urbanisation, pressure on resources and rising demand for liveable cities. Addressing these challenges requires an adaptation of current city planning to include a more resilient design. Smart, resilient, and liveable cities must thus be created through collaboration between various sectors of society (for example, water management, infrastructure, operations, and city planning). Within this context, digital solutions can also enable the transformation towards sustainability, liveability, and, therefore, the SDGs.

### Track 5

#### Communities, Communication & Partnerships

The people that comprise society are at the heart of the transition to a more sustainable and resilient future. The water sector, like every other sector, must guarantee that societal demands are addressed, and that the well-being of society is the primary focus and motivator of decision-making. To do this, it is critical to examine cross-sectoral planning as well as ensure that incentives are spread evenly throughout communities. This track will look at how local and regional governments, utilities, professional groups, the community, and private-sector partners may effectively collaborate to enhance effectiveness and produce better overall outcomes for their communities.

### Track 6

#### Water Resources & Large-Scale Water Management

Exploiting the potential of water resources (e.g., groundwater and surface water) necessitates proper management of such resources. Water management, in particular, needs to involve water quality and quantity monitoring, as well as treatment strategies for contaminated water resources, in order to assure their availability in an environmentally sustainable way.

# Programme Framework

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 August	Monday 12 August	Tuesday 13 August	Wednesday 14 August	Thursday 15 August
	KEYNOTE PLENARY 09:00 — 09:45			
	BREAK 09:45 — 10:30			
	SESSION 1 10:30 — 12:00			
	LUNCH 12:00 — 13:30			
	SESSION 2 13:30 — 15:00			
	BREAK 15:00 — 15:30			CLOSING CEREMONY 15:15 — 16:45
OPENING CEREMONY 16:00 — 18:00  Main Hall, Level 800, MTCC	SESSION 3 15:30 — 17:00			
	BREAK 17:00 — 17:15			
EXHIBITION OPENING & WELCOME RECEPTION 18:00 — 20:00  Exhibition area, Level 800, MTCC	KEYNOTE PLENARY 17:15 — 18:00			
		PROJECT INNOVATION AWARDS Evening, Arcadian Court		GALA DINNER Evening MTCC North Building

Monday 12 August													
SCHEDULE	ROOM 801A	ROOM 801B	ROOM 803A	ROOM 803B	ROOM 701A	ROOM 701B	ROOM 703	ROOM 705	ROOM 707	ROOM 709			
09:00 - 09:45	KEYNOTE PLENARY												
BREAK 09:45 - 10:30			GROUNDWATER FORUM		WORKSHOP 5.1 Progress of gender-inclusive leadership in the water and sanitation sector	TECHNICAL 2.33 PFAS in wastewater	TECHNICAL 1.17 Utility-wide transformations	TECHNICAL 1.9 Leveraging Public Private Partnerships to improve utility efficiency	WORKSHOP 1.13 Evaluating communities for water infrastructure projects through sustainable livelihoods approach methodology	TECHNICAL 2.5 Anaerobic process augmentation			
SESSION 1 10:30 - 12:00			GROUNDWATER FORUM		WORKSHOP 4.5 Holistic and interoperable digital twins for water fit-for-purpose applications	WORKSHOP 5.2 Moving towards equitable citizen-focused regulation	WORKSHOP 2.3 Navigating the ever-changing PFAS landscape: Latest developments and best practices	TECHNICAL 1.6 Global perspectives on water utility service delivery	WORKSHOP 1.6 Key success of any asset management journey across the globe – triple bottom line – digitisation, decarbonisation and diversity	TECHNICAL 4.1 Decision support tools in urban water management	TECHNICAL 2.6 Pretreatment of anaerobic processes		
LUNCH 12:00 - 13:30			SO.6 Water 2050 Charting a course to the future of water - AWWA		GROUNDWATER FORUM	WORKSHOP 4.5 Holistic and interoperable digital twins for water fit-for-purpose applications	WORKSHOP 5.2 Moving towards equitable citizen-focused regulation	WORKSHOP 2.3 Navigating the ever-changing PFAS landscape: Latest developments and best practices	TECHNICAL 1.6 Global perspectives on water utility service delivery	WORKSHOP 1.6 Key success of any asset management journey across the globe – triple bottom line – digitisation, decarbonisation and diversity	TECHNICAL 4.1 Decision support tools in urban water management	TECHNICAL 2.6 Pretreatment of anaerobic processes	
SESSION 2 13:30 - 15:00			Women's Leadership Network – Setting the Agenda		SO.6 Water 2050 Charting a course to the future of water - AWWA	GROUNDWATER FORUM	WORKSHOP 4.5 Holistic and interoperable digital twins for water fit-for-purpose applications	WORKSHOP 5.2 Moving towards equitable citizen-focused regulation	WORKSHOP 2.3 Navigating the ever-changing PFAS landscape: Latest developments and best practices	TECHNICAL 1.6 Global perspectives on water utility service delivery	WORKSHOP 1.6 Key success of any asset management journey across the globe – triple bottom line – digitisation, decarbonisation and diversity	TECHNICAL 4.1 Decision support tools in urban water management	TECHNICAL 2.6 Pretreatment of anaerobic processes
BREAK 15:00 - 15:30													
SESSION 3 15:30 - 17:00					WORKSHOP 5.4 Scaling-up and making waves: Unpacking finance accessibility for WASH startups	WORKSHOP 1.12 Translating what we know about PFAS into action: What water practitioners want to know	WORKSHOP 1.8 Vancouver's One Water journey	WORKSHOP 1.9 Responsible Industrial water management in a changing climate – Breakthroughs and innovations	TECHNICAL 4.6 Decision support tools in wastewater management	TECHNICAL 2.7 Microbiology in anaerobic processes			
BREAK 17:00 - 17:15													
17:15 - 18:00	KEYNOTE PLENARY												

Schedule continuation

ROOM 711	ROOM 713	ROOM 714	ROOM 715A	ROOM 715B	ROOM 716A	ROOM 716B	ROOM 717A	ROOM 718A	ROOM 718B	EXHIBITION	
KEYNOTE PLENARY											
TECHNICAL 2.1 Anammox / denitrification	TECHNICAL 6.3 Surface water monitoring systems and models	TECHNICAL 3.2 Groundwater based drinking water treatment	TECHNICAL 3.1 Unit operations (coagulation, (bio) filtration, membrane processes, ozonation)	TECHNICAL 2.34 Wastewater-based epidemiology	TECHNICAL 1.13 New perspectives on net zero utilities	TECHNICAL 2.8 Activated sludge processes – Session 1	TECHNICAL 5.2 Digital transformation	TECHNICAL 4.7 Nature-based solutions	WORKSHOP 1.22 Advancements in Great Lakes science from Canada's largest water research program	BUSINESS FORUM	BUSINESS FORUM
TECHNICAL 2.2 Phosphorus removal	TECHNICAL 6.1 Advanced techniques for groundwater management	TECHNICAL 3.16 Water and energy economics in local & global contexts	TECHNICAL 5.3 Policy and regulation	TECHNICAL 2.35 Contaminants of emerging concern in sewers	TECHNICAL 1.15 Circular economy initiatives on utility level	TECHNICAL 2.9 Activated sludge processes – Session 2	TECHNICAL 2.36 Digital water & modelling – Session 1	WORKSHOP 5.11 The workforce of tomorrow – Sustainability in attracting and retaining talent	WORKSHOP 3.1 Gravity driven membrane filtration (GDMF) – Application to small, remote and/or marginalized communities	BUSINESS FORUM	BUSINESS FORUM
TECHNICAL 2.3 Partial nitrification	TECHNICAL 6.4 Protection of surface water quality and quantity	WORKSHOP 1.19 Reuse and recycle waterworks sludge	TECHNICAL 6.2 Decades of evolving water governance – what have we learnt	TECHNICAL 5.4 Cross-sectoral governance	WORKSHOP 1.27 Construction to production in the water industry	TECHNICAL 2.26 Treatment and recovery of industrial wastewater	TECHNICAL 2.37 Digital water & modelling – Session 2	WORKSHOP 4.7 Practical application of nature-based solutions for water utilities	WORKSHOP 3.2 Use of genetic methods for microbial water quality testing: A global, water industry-wide survey	BUSINESS FORUM	BUSINESS FORUM
KEYNOTE PLENARY											

Tuesday 13 August										
SCHEDULE	ROOM 801A	ROOM 801B	ROOM 803A	ROOM 803B	ROOM 701A	ROOM 701B	ROOM 703	ROOM 705	ROOM 707	ROOM 709
09:00 - 09:45	KEYNOTE PLENARY									
BREAK 09:45 - 10:30	INDUSTRIAL WATER FORUM – SESSION 1	WORKSHOP 2.11 Cross-sector collaboration on the circular water economy: Lessons from North America	INTERNATIONAL WATER REGULATORS FORUM	WORKSHOP 4.15 Asset management of urban drainage systems	WORKSHOP 6.3 What the water industry can learn from the Indigenous perspective	TECHNICAL 1.14 Becoming a net zero utility	TECHNICAL 2.21 Advanced oxidation processes – Session 1	TECHNICAL 1.16 Utility responses and adaptation to climate change impacts	TECHNICAL 1.2 Real world digital twin applications	TECHNICAL 1.8 Innovations in pollutant management
SESSION 1 10:30 - 12:00										
LUNCH 12:00 - 13:30										
SESSION 2 13:30 - 15:00										
BREAK 15:00 - 15:30										
SESSION 3 15:30 - 17:00	INDUSTRIAL WATER FORUM – SESSION 2	UTILITY LEADERS FORUM	INTERNATIONAL WATER REGULATORS FORUM	SO.1 The Technology Roadmap for Net-Zero Urban Wastewater – Session 1	WORKSHOP 5.3 Water is a human right: Labour movements role in addressing the indigenous water crisis	TECHNICAL 1.18 Sustainable approaches to asset management	TECHNICAL 2.22 Advanced oxidation processes – Session 2	WORKSHOP 1.21 Towards increased resilience and better governance for urban water	TECHNICAL 1.1 How to go digital as a water utility – Session 1	TECHNICAL 1.20 Sewer overflow management
BREAK 17:00 - 17:15	INDUSTRIAL WATER FORUM – SESSION 3	UTILITY LEADERS FORUM	INTERNATIONAL WATER REGULATORS FORUM	SO.2 The Technology Roadmap for Net-Zero Urban Wastewater – Session 2	WORKSHOP 5.9 Wastewater surveillance to ensure sustainable, inclusive and equal access to public health and resource recovery: small pieces, big picture.	WORKSHOP 1.10 Developing the markets for a circular economy: A box sprint	TECHNICAL 2.23 Advanced oxidation processes – Session 3	WORKSHOP 2.1 Contaminants of emerging concern in a changing climate: Innovative strategies for sustainable management	WORKSHOP 1.1 Meta-data collection and organisation: What, when, and why?	WORKSHOP 1.20 Toronto Sponge City workshop
17:15 - 18:00	KEYNOTE PLENARY									

Schedule continuation

ROOM 711	ROOM 713	ROOM 714	ROOM 715A	ROOM 715B	ROOM 716A	ROOM 716B	ROOM 717A	ROOM 718A	ROOM 718B	EXHIBITION	
KEYNOTE PLENARY											
TECHNICAL 2.31 Contaminants of emerging concern in wastewater	TECHNICAL 3.3 Potable reuse technologies	TECHNICAL 3.14 Emerging contaminants/pathogens and antibiotic resistant bacteria/resistance genes	TECHNICAL 2.11 Membrane reactors	TECHNICAL 2.38 Decentralised treatment and non-sewered sanitation	WORKSHOP 6.6 Establishing successful markets to close the circular economy loop for products from water resource recovery facilities	TECHNICAL 2.4 Greenhouse gas emissions and mitigation	TECHNICAL 4.3 Response to flood and sea level rise	WORKSHOP 4.1 Inclusive research – The role of science to accelerate water action in the Global South	WORKSHOP 5.6 Mission-driven innovation for systemic transformation of water management	BUSINESS FORUM	BUSINESS FORUM
TECHNICAL 3.4 Occurrence and removal of emerging contaminants – Session 1	TECHNICAL 3.7 In-premises water quality (house/building plumbing, microbial water quality)	TECHNICAL 2.12 Microbial ecology	TECHNICAL 2.14 Water reclamation for non-potable reuse (planning)	TECHNICAL 5.5 WASH and community-scale water management – Session 1	WORKSHOP 6.4 How can Laurentian Great Lakes youth-inclusive watershed governance improve collaboration?	TECHNICAL 2.27 Food waste biosolids management & reuse – Session 1	TECHNICAL 4.8 Water sensitive urban design	WORKSHOP 4.4 Water security for future generations	WORKSHOP 3.3 UV light: Protecting public health around the world	BUSINESS FORUM	BUSINESS FORUM
WORKSHOP 2.5 Unlocking the Power of Anaerobic Digestion: Innovations and Best Practices	TECHNICAL 3.15 Water quality standards, regulations and economics	TECHNICAL 6.10 Circular economy initiatives and approaches	TECHNICAL 2.13 Water reclamation for non-potable reuse (technology)	TECHNICAL 5.7 WASH and community-scale water management – Session 2	WORKSHOP 6.1 Sustainable use of groundwater resources: storytelling with National Geographic	TECHNICAL 2.32 Pharmaceuticals in wastewater	TECHNICAL 4.4 Advances in rainfall and stormwater management	WORKSHOP 5.8 Redesigning mentorship for cross-generational (#crossgen) collaborations	WORKSHOP 3.4 Positioning water scarcity at centre of climate change	BUSINESS FORUM	BUSINESS FORUM
KEYNOTE PLENARY											

Wednesday 14 August

SCHEDULE	ROOM 801A	ROOM 801B	ROOM 803A	ROOM 803B	ROOM 701A	ROOM 701B	ROOM 703	ROOM 705	ROOM 707	ROOM 709	
09:00 - 09:45	KEYNOTE PLENARY										
BREAK 09:45 - 10:30	EMERGING WATER LEADERS FORUM	WORKSHOP 4.9 Transforming Southern California: The One Water metamorphosis	SO.7 Governance models addressing indigenous communities' needs for sustainable and affordable water supply and sanitation services – Session 01	TECHNICAL 1.3 Digital leak detection	TECHNICAL 6.8 Water resources management towards Sustainable Development Goals (SDG): Water saving, reuse and alternative sources	TECHNICAL 2.29 Microplastics in wastewater treatment	TECHNICAL 1.19 Experience of pipeline asset management	WORKSHOP 1.3 From data to decision making, and back – Digital transformation and AI for the resilient water sector	TECHNICAL 1.10 Large scale water reuse and recycling	WORKSHOP 1.18 IWA Cluster wastewater-based epidemiological surveillance – Public health value from wastewater data	
SESSION 1 10:30 - 12:00											
LUNCH 12:00 - 13:30				EMERGING WATER LEADERS FORUM	UTILITY LEADERS FORUM		TECHNICAL 2.19 Membrane applications in wastewater management – Session 1	WORKSHOP 5.5 Climate change impacts on water sources and water infrastructure in Arctic communities	TECHNICAL 2.30 Micropollutants in wastewater treatment		WORKSHOP 1.28: Digitalisation of the water sector: Challenges and opportunities
SESSION 2 13:30 - 15:00											
BREAK 15:00 - 15:30											
SESSION 3 15:30 - 17:00	EMERGING WATER LEADERS FORUM	UTILITY LEADERS FORUM	WORKSHOP 4.6 Going from treatment to recovery – A journey of wastewater as a net energy producer	TECHNICAL 2.20 Membrane applications in wastewater management – Session 2	WORKSHOP 5.7 Solving California's Water crisis: bold solutions transforming water management	WORKSHOP 2.2 Microplastics in wastewater and biosolids	WORKSHOP 1.7 Boost adoption of innovation in the water sector	TECHNICAL 1.4 Digital maintenance approaches	WORKSHOP 1.4 Unlock the worldwide potential of water reuse innovations	WORKSHOP 1.15 Towards unified global assessment of disease: Standards for wastewater surveillance	
BREAK 17:00 - 17:15											
17:15 - 18:00	KEYNOTE PLENARY										

Schedule continuation

ROOM 711	ROOM 713	ROOM 714	ROOM 715A	ROOM 715B	ROOM 716A	ROOM 716B	ROOM 717A	ROOM 718A	ROOM 718B	EXHIBITION	
KEYNOTE PLENARY											
TECHNICAL 3.5 Occurrence and removal of emerging contaminants – Session 2	TECHNICAL 3.12 Disinfection methods	TECHNICAL 5.1 Collaboration, capacity building and communication – Session 1	SO.3 Enhancing Urban Sanitation: Applicable CWIS consultation	TECHNICAL 2.10 Biofilm and granular sludge processes	WORKSHOP 2.4 Membrane aerated biofilm reactor – From theory to modeling to practice & emerging applications	WORKSHOP 1.24 Net-zero emissions in the water industry – Collaborating for Climate Action	TECHNICAL 4.2 Impacts and mitigation of climate change	WORKSHOP 2.6 Beyond automation – How digital tools can enable breakthrough innovation	WORKSHOP 3.5 Particle-associated viruses as emerging pathogens in water and wastewater	BUSINESS FORUM	BUSINESS FORUM
TECHNICAL 3.6 Occurrence and removal of emerging contaminants – Session 3	TECHNICAL 3.13 Disinfection by-products	TECHNICAL 5.6 Collaboration, capacity building and communication – Session 2	WORKSHOP 6.9 Scaling financial instruments to avert climate damages	TECHNICAL 2.18 Microbial electrochemistry & microalgae	WORKSHOP 6.5 The secret lives of water professionals: Exploring water careers in academia, consulting, government and utilities	WORKSHOP 1.25 We kn2Ow enough – Mitigating nitrous oxide emissions at WRRFs today	WORKSHOP 4.2 Sustainability for urban water management	WORKSHOP 2.7 Blueprint for a circular water smart society	WORKSHOP 3.6 Improving equity in intermittent water supply networks: A collaborative game	BUSINESS FORUM	BUSINESS FORUM
TECHNICAL 3.10 Intermittent supply system challenges and optimisation	WORKSHOP 6.2 It Ain't Easy Being Green – How municipalities across Canada are implementing green stormwater infrastructure	TECHNICAL 6.5 Source-to-sea pollution management & pollution from point sources	WORKSHOP 5.10 Navigating the future landscape of graduate training in WASH	TECHNICAL 2.39 Large WWTP operation	WORKSHOP 6.7 Sustainable water resource management and large-scale development in Ethiopia	WORKSHOP 1.26 Targeting methane GHG emissions from wastewater	TECHNICAL 4.5 Challenges in sewerage and sewer management		WORKSHOP 3.7 Brine reduction and resource recovery	BUSINESS FORUM	BUSINESS FORUM
KEYNOTE PLENARY											

Thursday 15 August

SCHEDULE	ROOM 801A	ROOM 801B	ROOM 803A	ROOM 803B	ROOM 701A	ROOM 701B	ROOM 703	ROOM 705	ROOM 707	ROOM 709
09:00 - 09:45	KEYNOTE PLENARY									
BREAK 09:45 - 10:30	WORKSHOP 1.30 Water/ wastewater measurement and operations excellence	SO.4 IWA Climate Smart Utilities Recognition Programme Workshop	SO.5 Enhancing Utility-Regulator collaboration for efficient and resilient water supply and sanitation (WSS) services	WORKSHOP 4.13 Nature-based Solutions – Session 2: Barriers and challenges for implementation of NbS	WORKSHOP 1.5 Incorporating hydrogen into business as usual, a global view	TECHNICAL 2.28 Food waste biosolids management & reuse – Session 2	TECHNICAL 1.5 How to go digital as a water utility – Session 2	TECHNICAL 1.11 Nitrous oxide emissions in full-scale operations	WORKSHOP 1.17 Water tariffs in a challenging world	TECHNICAL 3.9 Biofilms And Pathogen management in water distribution
SESSION 1 10:30 - 12:00										
LUNCH 12:00 - 13:30	WORKSHOP 1.29 Advancements in non-sewered sanitation	WORKSHOP 4.10 Water management in stressed urban areas – Bringing collective understanding of the value of water	WORKSHOP 2.8 New paradigm of wastewater treatment in fast-urbanising region	WORKSHOP 4.14 Nature-based water resources management and climate change	WORKSHOP 4.8 Navigating the waves: Achieving the Goals of the UN Water Ministers Conference 2023	WORKSHOP 3.8 Catalyzing innovations for water resilient cities: Policy and practice in India	WORKSHOP 1.16 From drain to data: Navigating the waters of AI in wastewater engineering	TECHNICAL 1.12 Nitrous oxide modelling and control	TECHNICAL 3.8 Non-revenue water & leakage management	TECHNICAL 3.11 Pathogen detection methods
SESSION 2 13:30 - 15:00										
BREAK 15:00 - 15:15										
15:15 - 16:45	CLOSING CEREMONY									
EVENING	CONGRESS GALA DINNER - MTCC North Building									

Schedule continuation

ROOM 711	ROOM 713	ROOM 714	ROOM 715A	ROOM 715B	ROOM 716A	ROOM 716B	ROOM 717A	ROOM 718A	ROOM 718B	EXHIBITION	
KEYNOTE PLENARY											
	WORKSHOP 4.3 Demonstrating global practices for smart resilient cities	TECHNICAL 2.24 Nanomaterials and nanotechnology	TECHNICAL 2.16 Recovery of nutrients and chemicals – Session 1	TECHNICAL 6.6 Integrated water resources management and climate change	WORKSHOP 2.9 MEWE-BioCluster workshop: Advancing the frontiers of integrated 'omics'	WORKSHOP 2.10 Collaborative Solutions to Emerging Contaminants under Climate Change	WORKSHOP 5.12 An accountability framework proposal for realistic youth engagement in SDG 6	WORKSHOP 6.8 Basin-connected cities: Enabling urban and rural stakeholders to take action in basin management	TECHNICAL 2.15 Energy efficiency and recovery	BUSINESS FORUM	BUSINESS FORUM
WORKSHOP 1.23 The perfect pairing; Data and digital meet ecology	WORKSHOP 1.14 Closing the gap between climate adaptation and climate mitigation	TECHNICAL 2.25 Other physico-chemical treatment techniques	TECHNICAL 2.17 Recovery of nutrients and chemicals – Session 2	TECHNICAL 6.9 Water resources management towards Sustainable Development Goals (SDG): Energy and resources management	WORKSHOP 4.11 Progress of inclusive sanitation in Bangladesh / South Asia	WORKSHOP 1.31 Women in water-the importance of equity diversity and inclusion across utility sectors and asset management	TECHNICAL 6.11 Challenges and progress towards achieving the Sustainable Development Goals (SDGs)	TECHNICAL 6.7 Integrated water resources management and climate resilience	TECHNICAL 3.17 In-premises water quality (house/building plumbing, metal and plastic leaching)	BUSINESS FORUM	BUSINESS FORUM
CLOSING CEREMONY											
CONGRESS GALA DINNER - MTCC North Building											



# Business Forums Overview

## Learn about challenges and innovations

The Business Forums are a full component of the technical programme of the IWA World Water Congress & Exhibition and provide a series of sessions where sponsors and exhibitors present their innovations and projects that contribute to shaping our water future.

### LOCATION: EXHIBITION HALL

Monday 12 August		Tuesday 13 August	
BF 1	BF 2	BF 1	BF 2
10:30 – 11:15 REATTS	10:30 – 11:15 Xylem, Inc	10:30 – 11:15 Grundfos	10:30 – 11:15 Itron
11:15 – 12:00 Puroxi Pure Water Global Inc	11:15 – 12:00 Xylem, Inc	11:15 – 12:00 Xylem, inc	11:15 – 12:00 UK Pavilion
12:15 – 13:00 Government of Ontario	12:15 – 13:00 Canadian Water and Wastewater Association	12:15 – 13:00 Advanced Drainage Systems	12:15 – 13:00 VerifiGlobal and CSA Group
13:30 – 14:15 Bureau of Waterworks, Tokyo Metropolitan Government	13:30 – 14:15 Canadian Water Network	13:30 – 14:15 IPEX Inc.	13:30 – 14:15 Stelis Environmental Solutions
14:15 – 15:00 Qingdao Comcore Technologies Co.,Ltd	14:15 – 15:00 Zero Energy Water	14:15 – 15:00 Government of Ontario	14:15 – 15:00 Hetek Solutions Inc.
15:45 – 16:30 Ross Engineering (RSE)	15:45 – 16:30 MS Filter Systems Inc	15:45 – 16:30 Netherlands Pavilion	15:45 – 16:30 QMC Metering Solutions
16:30 – 17:15 Black & Veatch	16:30 – 17:15 Digital Water Solutions	16:30 – 17:15 Beijing Drainage Group Co., Ltd	16:30 – 17:15 Canadian Water and Wastewater Association



Wednesday 14 August	
BF 1	BF 2
10:30 – 11:15 SG CANADA	10:30 – 11:15 Xylem, Inc
11:15 – 12:00 Grundfos	11:15 – 12:00 Government of Ontario
12:15 – 13:00 Veolia	12:15 – 13:00 AquaAction
13:30 – 14:15 GEI Consultants	13:30 – 14:15 Stelis Environmental Solutions
14:15 – 15:00 Jiangsu Taiyuan Environmental Science and Technology Corp., Ltd	
15:45 – 16:30 SHARC Energy	15:45 – 16:30 Canadian Water and Wastewater Association

Thursday 15 August	
BF 1	BF 2
	10:30 – 11:15 InCTRL Solutions
11:15 – 12:00 Endress+Hauser Canada Ltd	11:15 – 12:00 Lofty Perch Inc
	12:15 – 13:00 Canadian Water and Wastewater Association



**BLACK & VEATCH**



**Recover.  
Revitalize.  
Reinvent.**



# Information

## Practical & useful

### Useful Information

#### ACCOMMODATION QUERIES

For questions about accommodation, please visit [www.worldwatercongress.org/accommodation](http://www.worldwatercongress.org/accommodation) or go to the registration desk.

#### CATERING AND REFRESHMENTS

Get your morning coffee, lunch and afternoon coffee at one of the food stations, which are conveniently located throughout the Exhibition hall on level 800.

#### MEDICAL ASSISTANCE

A First Aid room is available on level 800 opposite the Exhibition hall and is designed to allow people feeling ill to rest temporarily. For medical assistance, please go to the registration desk. Please note for the Gala Dinner First Aid is also available in the MTCC North Building. It is located next to room 203C on level 200.

#### TECHNICAL TOURS

Please visit [www.worldwatercongress.org/technical-tours/](http://www.worldwatercongress.org/technical-tours/) for latest information.

#### DISCLAIMER

The information contained in this programme guide is believed to be correct at time of publication. The organisers reserve the right to alter or remove from the programme as circumstances dictate. The organisers take no responsibility for any errors, omissions, or changes. The organisers assume no responsibility for opinions or facts expressed by contributors to the programme. Any late changes to the programme will be made available on the Congress mobile app and website.

#### TRANSPORTATION

The Toronto Transit Commission (TTC) has subways, buses and street cars, there's bike share, taxi's or ride share services like Uber and lift. The venue is also connected by the Path - Toronto's Downtown Underground Pedestrian Walkway. Details and an estimated cost can be found at [www.worldwatercongress.org/travel](http://www.worldwatercongress.org/travel)

#### EMERGENCY NUMBER

In case of an emergency, dial 911 for the police, fire services and ambulance. Please dial 416-585-8360 or 8360 from a house phone.

#### REGISTRATION DESK

The registration desk will be open from:  
Sunday 11 Aug — 09:00 / 19:00  
Monday 12 Aug — 08:00 / 19:00  
Tuesday 13 Aug — 08:00 / 17:00  
Wednesday 14 Aug — 08:00 / 17:00  
Thursday 15 Aug — 08:00 / 17:00

#### WIFI DETAILS:

WIFI is free for all attendees.  
login: WWCE2024  
password: toronto2024

#### PHOTOGRAPHY DISCLAIMER

The Congress organisers have arranged for professional photography onsite throughout the Congress. The images may be used for post-congress reports, case studies, marketing collateral and supplied to industry media if requested. If you do not wish for your photo to be taken, please inform a staff member at the Registration Desk.





## Practical information

### CONGRESS MOBILE APP & PROCEEDINGS

Want the IWA World Water Congress & Exhibition at your fingertips? Download the official mobile app. The app offers a comprehensive guide to every workshop, technical session, presentation, sponsor and exhibitor. Connect with other delegates using the in-built networking tool, navigate your way around using the interactive floor plan, and share your thoughts and insights using the social media widgets. Access the app here: <https://builder.guidebook.com/g/iwa2024wwce/> or download it on your mobile by scanning the QR code below.

To access the app, enter  
passphrase: 2024wwce



### SOCIAL MEDIA

Are you planning to use social media while at the conference?

Join the conversation:

-  <https://X.com/IWAHQ>
-  [www.facebook.com/internationalwaterassociation](https://www.facebook.com/internationalwaterassociation)
-  [www.linkedin.com/company/international-water-association](https://www.linkedin.com/company/international-water-association)
-  [@iwa\\_network](https://www.instagram.com/iwa_network)

Official Hashtags:

**#WorldWaterCongress**  
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### CONTACTS

#### IWA

Export Building | Republic  
1 Clove Crescent  
London E14 2BA  
United Kingdom  
W: [www.iwa-network.org](http://www.iwa-network.org)  
E: [water@iwahq.org](mailto:water@iwahq.org)

#### Technical Programme

##### Marsha Lwamusai

*International Water Association*  
Email: [marsha.lwamusai@iwahq.org](mailto:marsha.lwamusai@iwahq.org)

#### Press and media

##### Keith Hayward

*International Water Association*  
E: [keith.hayward@iwahq.org](mailto:keith.hayward@iwahq.org)

#### Exhibition

##### Roy Agterbos

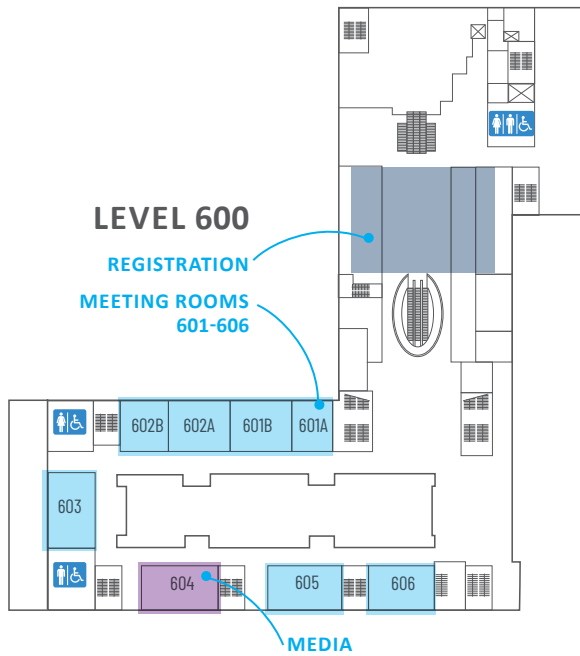
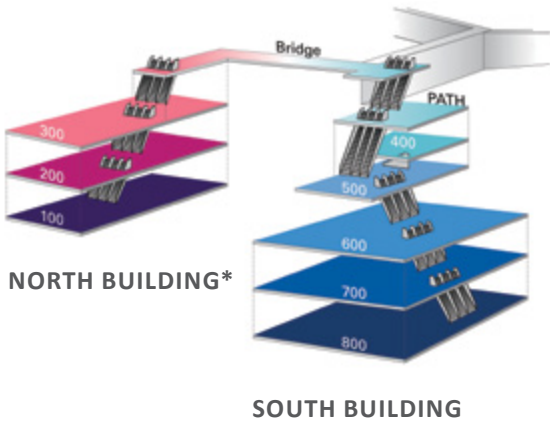
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#### Congress Director

##### Kizito Masinde

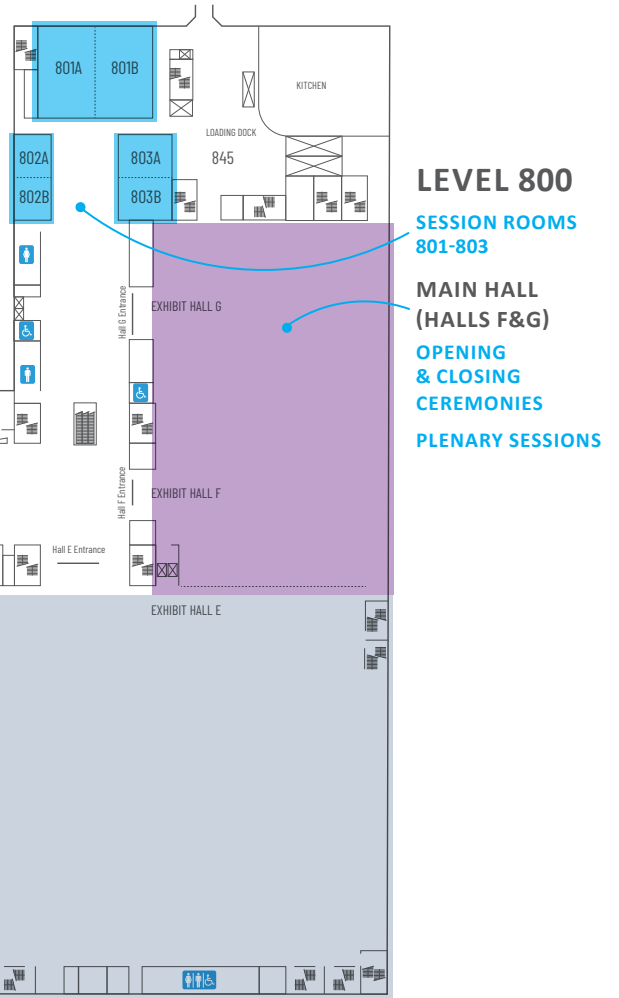
*International Water Association*  
E: [kizito.masinde@iwahq.org](mailto:kizito.masinde@iwahq.org)

# Floor Plan



**Venue:**  
Metro Toronto Convention Centre,  
MTCC, South Building

**Gala Dinner location\***  
MTCC, North Building, Hall A, Level 300



## Congress Focus



# IWA Digital Water Summit 2024

Join the transformation journey

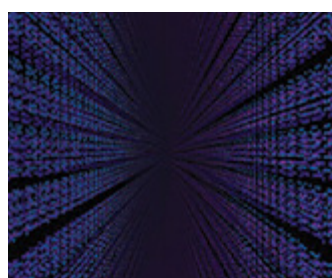


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# Opening Ceremony / Welcome Reception

the IWA Awards, Exhibition Opening and Welcome Reception

Opening Ceremony | Sunday 11 August, 16:00 – 18:00 | MTCC, South Building, Level 800, Main Hall (Halls F&G)



**Peter Gleick**  
*Co-founder, Pacific Institute*

The must-attend Opening Ceremony gets the week in Toronto off to a start with a vibrant mix of formalities, recognition and celebrations. Participants will be welcomed ahead of the week's discussions centred on the vital topic of water.

The Opening Ceremony will feature a keynote presentation by Peter Gleick, a leading scientist, innovator, and communicator on water and climate issues. Peter co-founded the Pacific Institute in Oakland, California, USA in 1987.

## The 2024 IWA Awards

The Opening Ceremony is also the platform for presentation of a number of IWA's most celebrated Awards. IWA Awards are a mechanism through which IWA encourages and rewards innovation and sets international benchmarks for innovative thinking and application of solutions for wise water management and practices. The ceremony will feature the IWA 2024 Global Water Award, Gender Diversity and Water Award, and Young Leadership Award.



Exhibition Opening / Welcome Reception | Sunday 11 August, 18:00 – 20:00 | MTCC, South Building, Level 800, Exhibition Hall (Halls E&D)



A first chance for delegates to access the World Water Exhibition. This provides a platform to connect industry, business, technology, innovation, practice, and science in what will be a networking hotspot during the rest of the week. All lunches, coffee and tea breaks will be served in the Exhibition Hall, providing key opportunities to interact with solution providers.

Open to all Delegates and Exhibitors, the Welcome Reception provides an early opportunity to engage and network with other professionals in the water industry – reconnecting with friends and contacts or making new ones – in a comfortable and casual setting.



# Keynote Speakers

## and Plenary Panel Discussions



**Peter Gleick**

*Co-founder, Pacific Institute*

### The past, present, and future of water

**SUNDAY 11 AUGUST**

**MAIN HALL (LEVEL 800) | 16:00 — 18:00**

**DURING OPENING CEREMONY**

Peter Gleick is a leading scientist, innovator, and communicator on water and climate issues. He co-founded the Pacific Institute in Oakland, California, USA, in 1987 – one of the most innovative, independent non-governmental research centres, creating and advancing solutions to the world's most pressing water challenges, including work on the human right to water, water and climate, and water, peace, and security issues.

He is currently President-emeritus and Senior Fellow at the Pacific Institute, a MacArthur Fellow, an elected member of the U.S. National Academy of Sciences and the American Academy of Arts and Sciences. He is the author or editor of many scientific papers and fourteen books.



**Paul Brown**

*President, Paul Redvers Brown Inc.*

### Resilience in practice: Avoiding planning traps

**MONDAY 12 AUGUST**

**MAIN HALL (LEVEL 800) | 09:00 — 09:45**

Paul R Brown, AICP and IWA Fellow, has over 40 years' experience in project planning and program management, emphasizing multi-agency collaboration, public stakeholder participation, process facilitation, and multi-objective decision making. His clients have included the states of California and Colorado; the Metropolitan Water District of Southern California (MWD); the Santa Clara Valley Water District; the Orange County (CA) Sanitation District, the Orange County (CA) Water District; and the cities of Los Angeles, San Diego, San Francisco, San José, and Seattle. He served as the program manager for Pure Water Southern California during its feasibility phase. He authored the book, *Too Good to Be True: Scottsdale and Privatization* in the 1980s, published in 2020. In 2014, Paul completed a 2-year appointment as a Visiting Professor at the University of South Florida (USF) Patel College of Global Sustainability, where he also served as Director of Applied Research.

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### Panel Discussion

**PANEL MODERATOR**

**Adam Lovell**, *ED, Water Services Association of Australia, Australia*

**PANELLISTS:**

**David LaFrance**, *CEO, American Water Works Association, USA*

**Nerina Di Lorenzo**, *Managing Director, Melbourne Water, Australia*

**Peter Simpson**, *Anglian Water, UK*

**Sangeeta Chopra**, *Director, Innovation, Process Optimisation and Technical Services, Ontario Clean Water Agency, Canada*



### Ong Tze-Ch'in

Chief Executive, PUB, Singapore's National Water Agency

## Smart and AI-enabled PUB

MONDAY 12 AUGUST

MAIN HALL (LEVEL 800) | 17:15 — 18:00

Ong Tze-Ch'in is Chief Executive of PUB, Singapore's National Water Agency. In this role, he is responsible for the supply of clean water, the reclamation of used water, the management of stormwater, and the protection of Singapore's coasts against sea level rise.

Prior to PUB, Tze-Ch'in was Deputy Secretary (Resilience) at the Ministry of Sustainability and the Environment, where he oversaw water and food policies, as well as the Ministry's international relations, communications and engagement, and emergency planning functions.

Tze-Ch'in received a Masters in Business Administration from INSEAD in 2010 and a Masters in Defence Studies from King's College London in 2006. He graduated from Stanford University in 1998 with Master's and Bachelor's degrees in Electrical Engineering.

## Panel Discussion

### PANEL MODERATOR

Deepa Karthykeyan, Partner & Co-founder, Athena Infonomics, USA

### PANELLISTS:

Dragan Savic, Professor of Hydroinformatics, University of Exeter, UK

Mike McGann, Senior Vice President, Xylem, USA

Cecilia Wennberg, Executive Vice President, Water in Cities

Rosemary Campbell, Head of Water, Water & Sanitation for the Urban Poor



### Prof. Amy Pruden

Virginia Tech, USA

## The water sector and the slow pandemic of antimicrobial resistance

TUESDAY 13 AUGUST

MAIN HALL (LEVEL 800) | 09:00 — 09:45

Prof. Amy Pruden is the W. Thomas Rice Professor and University Distinguished Professor in Civil and Environmental Engineering at Virginia Tech. She focuses on microbial ecology to control pathogens and antibiotic resistance in water systems. Her original paper on antibiotic resistance genes has been recognized by the Association for Environmental Engineering and Science Professors as a landmark paper. Pruden has published over 200 research articles and co-led the UNEP report 'Bracing for Superbugs'. She has served on several US National Academy of Sciences, Engineering and Medicine committees, received the 2024 ISME-IWA BioCluster Grand Prize, is a Fellow of the International Water Association, and a Senior Editor of the ISME Journal.

## Panel Discussion

### PANEL MODERATOR

Peter Grevatt, Water Research Foundation, USA

### PANELLISTS:

Ralph Erik Exton, Executive Director, Water Environment Federation, USA

Rasha Maal-Bared, Principal Environmental Scientist, CDM Smith, Canada

Corinne Cheeseman, CEO, Australian Water Association, Australia

Jennifer Molwantwa, CEO, Water Research Commission, South Africa



**Batsirai Majuru**

*Technical Officer, Water, Sanitation, Hygiene and Health Unit, World Health Organization*

**Taps and toilets in the time of change:  
A new era for water and sanitation regulation**

**TUESDAY 13 AUGUST**

**MAIN HALL (LEVEL 800) | 17:15 — 18:00**

Batsirai Majuru is a Technical Officer in the Water, Sanitation, Hygiene and Health unit at the World Health Organization headquarters in Geneva, Switzerland, where she leads WHO's work on drinking water and sanitation regulation, including coordinating WHO's International Network of Drinking-water and Sanitation Regulators (RegNet). In this role she works with regulators and policymakers, as well as various international partners working on water and sanitation regulation.

She holds a PhD in public health and water policy from the University of East Anglia, UK. Her research focused on evaluating the health, social and economic impacts of South Africa's Free Basic Water Policy.



**Saroj Kumar Jha**

*Global Director, Water Global Practice, World Bank Group*

**Financing water solutions for climate resilience**

**WEDNESDAY 14 AUGUST**

**MAIN HALL (LEVEL 800) | 09:00 — 09:45**

Saroj Kumar Jha leads the Global Practice senior management team, which drives the policy direction of the Practice and oversees a portfolio of \$27 billion in water related investments, analytical work, multi-donor trust funds and global partnerships.

Before this appointment, he was World Bank Regional Director of the Middle East, Senior Director for the Fragility, Conflict and Violence Global Practice at the World Bank Group, World Bank Regional Director for Central Asia, World Bank Global Manager for the Disaster Risk Management Practice, and Head of the Global Facility for Disaster Reduction and Recovery, which he founded in 2006.

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**Panel Discussion**

**PANEL MODERATOR**

**Yvonne Magawa**, *Executive Secretary, ESAWAS, Zambia*

**PANELLISTS:**

**Silvana Romero**, *President, URSEA, Uruguay*

**Vida Dutu**, *Country Director, IRC Ghana*

**Marcel Sanches**, *President, ABES, Brazil*



### Henk Ovink

*Executive Director, Commissioner, Global Commission on the Economics of Water, USA*

## The economics of water and beyond

**WEDNESDAY 14 AUGUST**

**MAIN HALL (LEVEL 800) | 09:00 — 09:45**

Henk Ovink is the Executive Director and founding Commissioner for the Global Commission on the Economics of Water. He was the first ever global water ambassador, appointed in 2015 by the Dutch Cabinet as Special Envoy for International Water Affairs. In this capacity he co-led the second UN Water Conference in 2023, the first since 1977. Henk served on President Obama's Hurricane Sandy Rebuilding Task Force where he led the long-term innovation, resilience, and rebuilding efforts and developed and initiated and led the groundbreaking 'Rebuild by Design' competition. Before joining the Task Force Ovink was both Acting Director General of Spatial Planning and Water Affairs and Director National Spatial Planning for the Netherlands after multiple roles in the private sector and academia. Henk holds an honorary doctorate at Delft University. In 2023 Henk Ovink was the 10<sup>th</sup> recipient of the Foreign Affairs Decoration of Honor in Gold for his unique and outstanding water diplomacy work and leadership.



### Farokh Kakar

*Environmental Engineer, Brown and Caldwell Consultants*

## Youth, technology and water

**WEDNESDAY 14 AUGUST**

**MAIN HALL (LEVEL 800) | 17:15 — 18:00**

Farokh Kakar is an award-winning young professional, an Environmental Engineer at Brown and Caldwell Consultants and the Founder of Blue College of Water and Technology. She is the founding member and President of the IWA Young Water Professionals in Canada and sits on the Strategic Council of IWA.

She has a Bachelor's degree in Mining Engineering from Balkh University, Afghanistan, and a Master's degree and PhD from Toronto Metropolitan University, Canada, in Environmental Engineering focused on resource recovery. She has won several national and international awards, including the most prestigious scholarship in Canada Vanier, the 'Emerging Leader' title from Water Canada, and more than 20 teaching, leadership, and public speaking awards.

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## Panel Discussion

### PANEL MODERATOR

*Astrid Nørgaard Friis, Group Vice President, Sustainability, External Relations & Communications, Grundfos, Denmark*

### PANELLISTS:

*Marina Jimenez Galindo, IWA YWP Spain Chair/Aqualia, Spain*

*Abishek Narayan, EAWAG, India/Switzerland*

*Sabrina Rashid Sheonty, Founder, Tetra, Canada*

*Saba Daneshgar, IWA Digital Water Steering Committee, Belgium*



**Prof. Juliet Willetts**

*Institute for Sustainable Futures,  
University of Technology Sydney, Australia*

## Path-shifting to address global challenges: Transformative adaptation in practice

**THURSDAY 15 AUGUST**

**MAIN HALL (LEVEL 800) | 09:00 — 09:45**

Professor Juliet Willetts is Research Director at University of Technology Sydney’s Institute for Sustainable Futures (UTS-ISF). She leads applied, innovative research to inform water and sanitation policy and practice in Asia and the Pacific for urban and rural services. Her contributions cover climate change, technical, environmental, governance, behavioural, gender equality and public health aspects, partnering with governments, UN agencies, research institutions and bilateral, multilateral and civil society organisations. Her achievements have been recognised by multiple awards, including Australian Financial Reviews’ 100 Women of Influence. She holds a PhD from University of NSW in Environmental Engineering and is widely published with more than 150 peer-reviewed articles.

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## Panel Discussion

**PANEL MODERATOR**

**Annalisa Contos**, *Principal, Atom Consulting, Australia*

**PANELLISTS:**

**Miriam Feilberg**, *Head of Climate Change Adaptation and Planning, DANVA - Danish Water and Wastewater Association*

**Dr Jabulile Mashwama**, *Managing Director, Eswatini Water Services Corporation, Eswatini*

**Amit Chanan**, *CEO, Water Authority of Fiji, Fiji*

**Adam Saffian Ghazali**, *CEO, Air Selangor, Malaysia*



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# Congress Spotlights

Selected highlights of events during the Congress

**Gala Dinner | Thursday 15 August, evening programme | Venue: Metro Toronto Convention Centre (MTCC), North Building**



The Gala Event at the IWA World Water Congress & Exhibition promises to be an outstanding evening.

With true IWA flair, the conference dinner is set to be the highlight of the social calendar, with fantastic entertainment accompanied by excellent food. Celebrate a successful week in Toronto.

**VENUE: HALL A, LEVEL 300**  
**DRESS CODE: SMART CASUAL**  
**TIME: 18:30**

**The 2024 Project Innovation Awards (PIA) | Tuesday 13 August 2024 | Venue: Arcadian Court, Toronto**



Awarded biennially at the IWA World Water Congress & Exhibition at a special celebratory event, the Project Innovation Awards (PIA) recognise and promote excellence and innovation in water management, research and technology.

The severe water challenges facing the world today require an unprecedented global response. Innovation plays a central role in achieving IWA's vision of a world in which water is managed wisely to satisfy the needs of human activities and ecosystems in an equitable and sustainable way. The Project Innovation Awards recognise that our shared challenges can be overcome through the development and implementation of creative water solutions.

**VENUE: ARCADIAN COURT, TORONTO**

**Operations Challenge | Wednesday 14 August | Venue: Exhibition Area**

The IWA Operations Challenge allows utilities to showcase the diverse skills and competencies of their operations and maintenance personnel, testing the practical skills of the utility teams. The IWA Operations Challenge will see teams of four members compete in four events spanning maintenance, laboratory skills, collection systems, and process simulation. The challenge will be held in the exhibition area at the Congress venue, and the local host for the challenge is the Water Environment Association of Ontario (WEAO).



# Programme Features

Programme features are an important part of the Congress to get an in-depth understanding of current trends, latest research, guiding strategies and leading practices. For more information please visit: <https://worldwatercongress.org/programme-features-and-highlights/>

## MONDAY 12 AUGUST

Room 803A | 10:30-17:00

### Groundwater Forum

*Groundwater – a resilient resource in times of change and crisis*

The Groundwater Forum aims to promote groundwater as a critical resource to achieve the Sustainable Development Goals. In three sessions, the forum will explore and facilitate participant discussions on strengths, weaknesses, opportunities and threats to a groundwater-based water supply. By sharing knowledge on the resilience of a groundwater-based water supply in times of conflict and climatic crisis, the forum aims to support water utilities and other decision-makers urgently in need of futureproof strategies.

## TUESDAY 13 AUGUST

Room 801A | 10:30-17:00

### Industrial Water Forum

*Corporate water strategy – how industry overcomes challenges when investing in water efficiency*

The purpose of the Industrial Water Forum is to engage, inspire and share knowledge on the topic of corporate water strategy across industrial and regulatory sectors. Industry is a large consumer of water and energy, with > 22 % of total global water withdrawals being used for industrial purposes. This is projected to increase rapidly over the next years and decades. Decreasing availability of clean water is a risk many industries face across North America and many other regions. But with < 15 % of industrial water is being reused, there is massive potential. While this problem is global, the solutions are highly local. To solve this water and energy nexus collaboration across technology providers, governors, regulators and industries is crucial. The forum will be a place for fostering collaboration, sharing best practices, and exploring how to overcome barriers to accelerate actions on more efficient water use.

## TUE 13 AUGUST / WED 14 AUGUST

Room 801B | 13:30-17:00

### Utility Leaders Forum

*The Utility Leaders Forum – a focus on the needs and interests of water and wastewater utility leaders charged with service delivery*

The Utility Leaders Forum is a unique opportunity for those tasked with managing utilities to exchange views, network and access the insights of prominent water utility leaders in a setting that is by utility leaders for utility leaders.

Over the course of two days, the forum will bring together some of the world's most prominent water utility leaders with the most impactful case studies to share experiences and knowledge. Curated by an international committee of experienced utility practitioners, the forum is structured to facilitate an open and interactive dialogue around some of the most critical issues facing utilities. Active delegate participation will be key. On the agenda for 2024 are utility-led solutions for water scarcity, utility breakthroughs on climate adaptation, and utilities working to improve the circular economy.



## TUESDAY 13 AUGUST

Room 803A | 10:30-17:00

### International Water Regulators Forum

*The International Water Regulators Forum – the international meeting of the global network of regulators of IWA.*

The International Water Regulators Forum gathers high-level representatives of regulatory authorities and officials of agencies with regulatory and supervisory functions over the provision of water, sanitation, and wastewater treatment services.

This ninth International Water Regulators Forum has a highly prioritised agenda addressing current regulatory challenges and topics of interest to regulators. Attendance of the forum is by invitation only. The forum will conclude with a closing plenary where discussions will be summarised and recommendations presented, providing an opportunity to engage with other relevant stakeholders and explore the interlinkages between regulation, science, policy and practice.

The forum is shaped and steered by a diverse and motivated Programme Committee, a committed group of professionals consisting of high-profile members of the IWA Regulators Community.

## WEDNESDAY 14 AUGUST

Room 801A | 10:30-17:00

### Emerging Water Leaders Forum

The IWA Emerging Water Leaders Forum is an open platform for young water professionals to connect with their peers from around the world. The forum is a place to share professional experiences and highlight the critical responsibility of Young Water Professionals (YWPs) working on solutions for the future of water.

The global water sector faces unprecedented challenges, exacerbated by climate change, population growth, and urbanisation. To address these challenges effectively, it is crucial to empower and equip the next generation of water professionals with the knowledge, skills, and networks necessary to champion the course for a climate- and water-resilient future.

The primary objective of the 2024 Emerging Water Leaders Forum is to empower young water professionals to become leaders in addressing the challenges posed by climate change and water scarcity. Through engaging sessions, interactive workshops, and networking opportunities, participants will gain valuable insights and practical knowledge to contribute to a more sustainable and resilient water future.

# IWA Publishing's Journals

## All Fully Open Access



Thanks to IWA Publishing's **Subscribe to Open (S2O) Model**, our portfolio is available Open Access, sharing the latest research on water, our most valuable resource. With the help of subscribing libraries and institutions, IWA Publishing has published all research fully Open Access since 2021.

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# Specialist Groups

## Task Groups and Clusters – Open meetings schedule

One of the unique strengths of IWA is bringing together experts from across the globe and specialisations. To facilitate this, IWA members organise themselves into Specialist Groups (SG), Task Groups (TG) and Clusters. IWA Specialist Groups are at the heart of the organisation's mission and activities. Members of the group work on projects such as organising conferences, seminars, and workshops, as well as publishing books, reports, newsletters, and journal papers.

During the IWA World Water Congress, many Specialist Groups (SG), Task Groups (TG) and Clusters have open meetings to which all congress delegates are welcome. Do not miss this unique opportunity to connect and network with specialists and leaders in the respective fields, and to update your knowledge on the issues that interest you.

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### Assessment and Control of Hazardous Substances in Water

**MONDAY 12 AUGUST**  
**10:30 – 12:00, ROOM 710**

A meeting to describe SG's recent activities, such as the Micropol 2024 planning of the future SG events as well as open discussions among the members so that they can exchange views and plans.

---

### Diffuse Pollution and Eutrophication

**MONDAY 12 AUGUST**  
**15:00 – 16:30, ROOM 710**

An overview of the SG membership and activities. This meeting will focus on outreach, promotion, and recruitment. A brief presentation will be given on the group's activities.

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### Intermittent Water Supply

**MONDAY 12 AUGUST**  
**16:30 - 18:00, ROOM 710**

An open meeting to discuss SG's activities and invite members to participate in future planning and organising international conferences. Topics to be discussed will include developing standards, XML Markup Languages, computational tools and frameworks to enable genome-based management of water systems. A Special Issue could be launched following the Open Meeting.

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### Lake and Reservoir Management

**MONDAY 12 AUGUST**  
**09:00 - 10:30, ROOM 712**

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### Public and Customer Communications

**MONDAY 12 AUGUST**  
**10:30 - 12:00, ROOM 712**

Introducing the new MC and SG management plan. Topic will include: boosting communication within all IWA events; communication management in extreme conditions (climate change, combat areas, major breakdowns etc.); Water engagement/education for future generations & inter-SG communication/cooperation.

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### Sludge Management

**MONDAY 12 AUGUST**  
**16:30 - 18:00, ROOM 712**

We will discuss the role of new management committee members, future activities, and energising members about the group's future activities.

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### Pretreatment of Industrial Wastewater

**MONDAY 12 AUGUST**  
**13:30 - 15:00, ROOM 712**

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### Benchmarking and Performance Assessment

**MONDAY 12 AUGUST**  
**15:00 - 16:30, ROOM 712**

The purpose of our open meeting is to offer an update on the group's activities, webinars, projects, and other initiatives. Our focus will be planning the 2025 Conferences.

---

### Biofilms

**TUESDAY, 13 AUGUST**  
**16:30 - 18:00, ROOM 712**

This open meeting is for Biofilms SG to discuss the possibility of having more SG activities (workshops or sessions) during future WWCs, ask about their interests, and discuss ways to become more involved with the SG.

---

### Modelling and Integrated Assessment

**TUESDAY, 13 AUGUST**  
**13:30 - 15:00, ROOM 710**

Presentation of current activities and developments. The meeting is open to all members to discuss new outreach and engagement initiatives.

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## Instrumentation, Control and Automation

**TUESDAY, 13 AUGUST**  
**10:30 - 12:00, ROOM 710**

Overview of recent and future activities & initiatives, presenting the new management committee, discussing possibilities for new task groups and fostering collaboration between SGs and call for new members.

---

## Design, Operation and Costs of Large Wastewater Treatment Plants

**TUESDAY, 13 AUGUST**  
**15:00 - 16:30, ROOM 710**

SG's activities and the 14th IWA Conference on Design, Operation and Economics of Large Wastewater Treatment Plants, Budapest 2024 will be discussed.

---

## Water Reuse

**TUESDAY, 13 AUGUST**  
**16:30 - 18:00, ROOM 710**

The SG will be introduced along with our nine working groups. The SG activities will be discussed including the 14th IWA International Conference on Water Reclamation and Reuse held at Cape Town, South Africa (16-20 March 2025). All interested members are welcome to join us for a lively and fruitful discussion.

---

## Particle Separation

**TUESDAY, 13 AUGUST**  
**13:30 - 15:00, ROOM 712**

Revision of the group's vision and mission, inviting more members to join the management committee, and discussing how to engage the members on IWA Connect Plus.

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## Wetland Systems for Water Pollution Control

**TUESDAY, 13 AUGUST**  
**15:00 - 16:30, ROOM 712**

We will discuss how to facilitate collaboration around NBS and interactions with other SGs; discuss plans and events such as the 18th International Conference on Wetland Systems for Water Pollution Control.

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## Women in Water

**TUESDAY, 13 AUGUST**  
**09:00 - 10:30, ROOM 712**

Next Steps in the Women in Water Project: Development of Professional Development Materials.

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## Cluster Wastewater Based Epidemiological Surveillance

**TUESDAY, 13 AUGUST**  
**10:30 - 13:30, ROOM 712**

Steering Group and delegates meeting to discuss activities and future plans.

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## Health Related Water Microbiology

**WEDNESDAY, 14 AUGUST**  
**09:00 - 10:30, ROOM 710**

This meeting is open to all members who are interested in learning more about what the HRWM Specialist Group is doing and how they can get involved.

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## Sustainability in the Water Sector

**TUESDAY, 13 AUGUST**  
**10:30 - 12:00, ROOM 710**

Facilitate collaborative work and interaction with other SGs. Getting the group together to discuss future plans and events including SG conference.

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## Statistics and Economics

**TUESDAY, 13 AUGUST**  
**13:30 - 15:00, ROOM 710**

Presentation on our priority areas, current membership and how to engage members and collaboration with other Specialist Groups and activities.

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## Sanitation and Water Management in Developing Countries

**WEDNESDAY, 14 AUGUST**  
**15:00 - 16:30, ROOM 710**

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## Institutional Governance and Regulations

**WEDNESDAY, 14 AUGUST**  
**16:30 - 18:00, ROOM 710**

The meeting will introduce the new Management Committee and invite other members and SG leaders to discuss future activities.

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## Microbial Ecology and Water Engineering\*\*

**WEDNESDAY, 14 AUGUST**  
**09:00 - 10:30, ROOM 712**

Description: In this meeting, the MEWE SG's activities and upcoming engagements will be discussed. The new Chair and MC members will give an overview of the current activities and future plans.

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## Chemical Industry

**WEDNESDAY, 14 AUGUST**  
**10:30 - 12:00, ROOM 712**

During the meeting, the new Chair and members of the MC will give an overview of the current activities and future plans.

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## Watershed and River Basin Management

**WEDNESDAY, 14 AUGUST**  
**13:30 - 15:00, ROOM 712**

Members interested in learning more about SG activities and getting involved are welcome to attend. A proposed workshop will be discussed along with the election of office bearers, and ideas and proposals for the SG conference are welcome.

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## Efficient Urban Water Management

**WEDNESDAY, 14 AUGUST**  
**15:00 - 16:30, ROOM 712**

The meeting is open to all, and the SG management committee will provide an update on Efficient SG activities, including planning for Efficient 2025. Please feel free to discuss and share your ideas for future activities.

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## Water Security and Safety Management

**WEDNESDAY, 14 AUGUST**  
**16:30 - 18:00, ROOM 712**

The meeting is open to everyone. It will be an opportunity to meet the new Management Committee and receive an update on the Group's activities over the last 2 years. And provide input into planning for event(s) next year, including workshop on AI Innovations in Disaster Risk Reduction and Management being considered for 2025.




# Getting More Out of Every Drop

Stantec is leading the industry in advanced water treatment and cost-effective brine management strategies for water reuse programs.



**With every community,  
we redefine what's possible**





Monday, 12 August

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



# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>
Keynote: <b>Resilience in practice: Avoiding planning traps</b> , <a href="#">Paul Brown</a> , <i>President, Paul Redvers Brown Inc.</i> Panel Moderator: <a href="#">Adam Lovell</a> Panel: <a href="#">David LaFrance</a> , <a href="#">Nerina Di Lorenzo</a> , <a href="#">Peter Simpson</a> , <a href="#">Sangeeta Chopra</a>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>
<b>Session 1</b>	<b>10:30 - 12:00</b>

<b>Lunch</b>	<b>12:00 - 13:30</b>
<b>Session 2</b>	<b>13:30 - 15:00</b>

**SO.6 WATER 2050 – VISION FOR A SUSTAINABLE & RESILIENT WATER FUTURE - SESSION 1** Room 801 B  
Session

[Heather Collins](#), *Metropolitan Water District of Southern California*  
[Joe Jacangelo](#), *Stantec*  
[David LaFrance](#), *AWWA*  
[Barb Martin](#), *AWWA - Moderator*

This session provides an in-depth look at AWWA's Water 2050 initiative, highlighting its vision and activities aimed at ensuring a sustainable and resilient water future. There will be an overview presentation, a moderated panel discussion on the biggest challenges and solutions in the water community, and opportunities for audience engagement.

<b>Coffee Break</b>	<b>15:00 - 15:30</b>
<b>Session 3</b>	<b>15:30 - 17:00</b>

<b>WOMEN'S LEADERSHIP NETWORK – SETTING THE AGENDA</b> <span style="float: right;">Room 801 A Workshop</span>	<b>SO.6 WATER 2050 – VISION FOR A SUSTAINABLE &amp; RESILIENT WATER FUTURE - SESSION 2</b> <span style="float: right;">Room 801 B Session</span>
	<p><a href="#">Heather Collins</a>, <i>Metropolitan Water District of Southern California</i>  <a href="#">Joe Jacangelo</a>, <i>Stantec</i>  <a href="#">David LaFrance</a>, <i>AWWA</i>  <a href="#">Barb Martin</a>, <i>AWWA</i></p> <p>This interactive session will kick off with an overview of the Water 2050 initiative before diving into a World Café discussion. Participants will engage in small group discussions to tackle key questions about the future of water, focusing on challenges, strategic priorities, and actionable steps. The session will conclude with group reports and a collaborative discussion.</p>

<b>Break</b>	<b>17:00 - 17:15</b>
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>

Keynote: **Smart and AI-enabled PUB**, [Ong Tze-Ch'in](#), *Chief Executive, PUB, Singapore's National Water Agency*  
Panel Moderator: [Deepa Karthykeyan](#) Panel: [Dragan Savic](#), [Mike McGann](#), [Cecilia Wennberg](#), [Rosemary Campbell](#)



# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: <b>Resilience in practice: Avoiding planning traps</b>, <a href="#">Paul Brown</a>, <i>President, Paul Redvers Brown Inc.</i>            Panel Moderator: <a href="#">Adam Lovell</a> Panel: <a href="#">David LaFrance</a>, <a href="#">Nerina Di Lorenzo</a>, <a href="#">Peter Simpson</a>, <a href="#">Sangeeta Chopra</a></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>GROUNDWATER FORUM – SESSION 1</b> <b>Strengths and Weaknesses of a Groundwater-Based Water Supply</b> Chair: <a href="#">Ida Holm Olesen</a> , <i>Danish Water Forum, Denmark</i> Co-chair: <a href="#">Simon Gautrey</a> , <i>WSP Canada</i> Official opening of Groundwater Forum <a href="#">Jarl Frijs-Madsen</a> , <i>Ambassador, Royal Danish Embassy to Canada</i> Why Groundwater is Important to the Future of Humanity, <a href="#">Dr John Cherry</a> , <i>University of Guelph, Canada</i> 25% Groundwater and Increasing – A Growth Scenario from the Region of Peel, Canada, <a href="#">Luis Lasso</a> , <i>Region of Peel, Canada</i> Groundwater in a South African Perspective, <a href="#">Dr Shafick Adams</a> , <i>Water Research Commission, South Africa</i> 100% Groundwater – The Danish Experience, <a href="#">Dr Martin Rygaard</a> , <i>HOFOR – Greater Copenhagen Utility</i> Interactive session facilitated by Water Valley Denmark, <a href="#">Pia Jacobsen</a> , <i>Water Valley Denmark</i>		Room 803 A Forum	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>GROUNDWATER FORUM – SESSION 2</b> <b>Hidden Opportunities of a Groundwater-Based Water Supply</b> Chair: <a href="#">Bjørn K. Jensen</a> , <i>Water4All, Denmark</i> Co-chair: <a href="#">Hans-Martin Friis Møller</a> , <i>Kalundborg Utility, Denmark</i> Any Hidden Potentials of Groundwater Towards SDG6 and Beyond? <a href="#">Gustavo Salties</a> , <i>Global Lead for Water Supply and Sanitation, World Bank</i> The Transition from Surface-Water Based to Groundwater-Based Water Supply in Times of Conflict, <a href="#">Viktor Pisotskiy</a> , <i>Director for Strategic Planning, Mykolaiev, Vodokanal, Ukraine</i> How to Find the Hidden Treasure? Geophysical Techniques, <a href="#">Esben Auken</a> , <i>TEMcompany, Denmark</i> Sustainable Groundwater Management in Rural Areas in Developing Countries, <a href="#">Anise Sacranie</a> , <i>Grundfos, Denmark</i> Towards SDG6 in Developing Countries: The Potential of Groundwater, <a href="#">Ryan Phillips-Page</a> , <i>Operations Water, Canada</i> Interactive session facilitated by Water Valley Denmark, <a href="#">Pia Jacobsen</a> , <i>Water Valley Denmark</i>		Room 803 A Forum	<b>4.5 HOLISTIC AND INTEROPERABLE DIGITAL TWINS FOR WATER FIT-FOR-PURPOSE APPLICATIONS</b> Chair: <a href="#">Saba Daneshgar</a> , <i>Belgium</i> Co-chair: <a href="#">Janelcy Alferes Castano</a> , <i>Belgium</i> The objective of the workshop is to present and discuss potential methodologies for scale-up of digital twins for the water sector focusing on interoperability and holistic decision making. It looks at successful case studies from the other domains (e.g., energy, mobility) to identify the gap. <b>Speakers:</b> <a href="#">Elena Torfs</a> , <i>Canada</i> ; <a href="#">Piet Seuntjens</a> , <i>Belgium</i> ; <a href="#">Ingmar Nopens</a> , <i>Belgium</i> ; <a href="#">Kris Villez</a> , <i>USA</i> ; <a href="#">Janelcy Alferes Castano</a> , <i>Belgium</i> ; <a href="#">Gabriel Fierro</a> , <i>USA</i> ; <a href="#">Elena</a> , <i>Canada</i> ; <a href="#">Jethro Akroyd</a> , <i>UK</i>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>GROUNDWATER FORUM – SESSION 3</b> <b>Imminent Threats of a Groundwater-Based Water Supply</b> Chair: <a href="#">Anders Bækgaard</a> , <i>IWA Congress President 2022, Denmark</i> Co-chair: <a href="#">Julia Gathu</a> , <i>IWA GWIM SG, Kenya</i> Groundwater Quality Threats from Mining for the Green Energy Transition, <a href="#">Roger Beckie</a> , <i>University of British Columbia, Canada</i> Overview of Mining Practices and Regulation in Canada as They Relate to Groundwater, <a href="#">Simon Gautrey</a> , <i>WSP Canada</i> Climate Change Increases the Frequency of Forest Fires – How Does This Impact Groundwater Quality? <a href="#">Monica B. Emelko</a> , <i>University of Waterloo, Canada</i> Groundwater Vulnerability in the Face of Climate Change, <a href="#">Julia Gathu</a> , <i>Drilling for Life, Kenya</i> Untreated Effluents as a Threat to Groundwater Quality and Public Health, <a href="#">Dr. Pabel Cervantes-Avilés</a> , <i>Tecnológico de Monterrey, Mexico</i> Interactive session facilitated by Water Valley Denmark, <a href="#">Pia Jacobsen</a> , <i>Water Valley Denmark</i>		Room 803 A Forum	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: <b>Smart and AI-enabled PUB</b>, <a href="#">Ong Tze-Ch'in</a>, <i>Chief Executive, PUB, Singapore's National Water Agency</i>            Panel Moderator: <a href="#">Deepa Karthykeyan</a> Panel: <a href="#">Dragan Savic</a>, <a href="#">Mike McGann</a>, <a href="#">Cecilia Wennberg</a>, <a href="#">Rosemary Campbell</a></p>			

# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: <b>Resilience in practice: Avoiding planning traps</b>, <b>Paul Brown</b>, <i>President, Paul Redvers Brown Inc.</i>          Panel Moderator: <b>Adam Lovell</b> Panel: <b>David LaFrance</b>, <b>Nerina Di Lorenzo</b>, <b>Peter Simpson</b>, <b>Sangeeta Chopra</b></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>5.1 PROGRESS OF GENDER-INCLUSIVE LEADERSHIP IN THE WATER AND SANITATION SECTOR</b></p> <p>Chair: <b>Leticia Ackun</b>, <i>Ivory Coast</i>          Co-chair: <b>Florence Laker</b>, <i>UK</i></p> <p>This session will explore practical strategies for breaking down gender barriers and creating an environment that fosters equal opportunities. Participants will gain insights into successful case studies where the integration of the gender lens has led to improved decision-making processes, enhanced community engagement and increased overall efficiency.</p> <p><b>Speakers:</b> <b>Juliet Willetts</b>, <i>Australia</i>; <b>Dr Yuan Yang</b>, <i>China</i>; <b>Faustina Boachie</b>, <i>Ghana</i>; <b>Mara Ramos</b>, <i>Brazil</i>; <b>Geraldine Mpouma Logmo</b>, <i>Cameroon</i>; <b>Julie Perkins</b>, <i>Germany</i></p>	<p>Room 701 A <b>Workshop</b></p>	<p><b>2.33 PFAS IN WASTEWATER</b></p> <p>Chair: <b>Prithviraj Chavan</b>, <i>United States</i> Co-chair: <b>Linda Müller</b>, <i>Germany</i></p> <p>Adsorption Of Per- And Polyfluoroalkyl Substances (PFAS) On Activated Carbon In The Low Ng L Range, <b>Bert Van der Wal</b>, <i>Netherlands</i></p> <p>Successful Removal Of PFAS, And Heavy Metals In Landfill Leachate, <b>Caroline Kragelund</b>, <i>Denmark</i></p> <p>An Emerging Challenge: Microplastics And Their Journey Through Anaerobic Digesters, <b>Irem Simsek</b>, <i>Canada</i></p> <p>PFAS – Danish Experiences And Challenges, <b>Hansen Anders</b>, <i>Denmark</i></p>	<p>Room 701 B <b>Technical</b></p>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>5.2 MOVING TOWARDS EQUITABLE CITIZEN-FOCUSED REGULATION</b></p> <p>Chair: <b>Dr Heather Smith</b>, <i>UK</i>          Co-chair: <b>Julian Jacobs</b>, <i>UK</i></p> <p>This will be a joint session between the IWA Specialist Groups on Public and Customer Communication, and on Governance and Regulation. The purpose will be to help define a cooperation agenda, looking at the role that communication and engagement can play in developing more citizen-focused governance and regulation.</p>	<p>Room 701 A <b>Workshop</b></p>	<p><b>2.3 NAVIGATING THE EVER-CHANGING PFAS LANDSCAPE: LATEST DEVELOPMENTS AND BEST PRACTICES</b></p> <p>Chair: <b>Martha Dagneu</b>, <i>Canada</i>          Co-chair: <b>Anh Pham</b>, <i>Canada</i>; <b>Madhumita Ray</b>, <i>Canada</i></p> <p>The workshop will bring together scientists, engineers, policymakers, and industry professionals to delve into the pressing challenges surrounding PFAS contamination. It will provide a comprehensive overview of the current state of PFAS, offering insights into their environmental impacts, sources, and presence in various industries. It will also delve into the ongoing challenges associated with PFAS detection and regulatory measures. It will provide a platform for in-depth discussions on the latest advancements in PFAS treatment technologies and emerging solutions, focusing on practical applications, real-world case studies, and interdisciplinary collaboration in developing comprehensive solutions.</p> <p><b>Speakers:</b> <b>Shirley Anne Smyth</b>, <i>Canada</i>; <b>Anna Kärman</b>, <i>Sweden</i>; <b>Wayne Parker</b>, <i>Canada</i>; <b>Mohamed Ibrahim</b>, <i>USA</i>; <b>Bill Malyk</b>, <i>Canada</i>; <b>Richard Nei</b>; <b>Viraj Desilva</b>, <i>USA</i>; <b>Omar Mohamed</b>, <i>Canada</i>.</p>	<p>Room 701 B <b>Workshop</b></p>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<p><b>5.4 SCALING-UP AND MAKING WAVES: UNPACKING FINANCE ACCESSIBILITY FOR WASH STARTUPS</b></p> <p>Chair: <b>Jacob Amengor</b>, <i>Ghana</i></p> <p>The workshop aims to provide WASH Entrepreneurs in the Global South with the knowledge and tools needed to access financing for their water-related startups/ideas. The desired output of the workshop is for participants to gain a deeper understanding of the different financing options available to them, as well as how to create effective funding strategies and proposals that target suitable sources of financing.</p> <p><b>Speakers:</b> <b>Yang Villa</b>, <i>Philippines</i>; <b>Akan Odon</b>, <i>UK</i>; <b>Beth Koigi</b>, <i>Kenya</i>; <b>Walid Khoury</b>, <i>UAE</i>; <b>Leonelha Barreto</b>, <i>Switzerland</i></p>	<p>Room 701 A <b>Workshop</b></p>	<p><b>1.12 TRANSLATING WHAT WE KNOW ABOUT PFAS INTO ACTION: WHAT WATER PRACTITIONERS WANT TO KNOW</b></p> <p>Chair: <b>Rasha Maal-Bared</b>, <i>Canada</i>          Co-chair: <b>Bipro Dhar</b>, <i>Canada</i></p> <p>Despite the growing number of PFAS publications, many utilities and water professionals still struggle to understand the context and value of PFAS research being performed in our industry. The purpose of this workshop is to work with participants to identify the value of current research and how that research can be turned into actionable results and decisions at utilities. The participants will also get a chance to exchange ideas with peers on how we can improve research communication and output reach in our industry. We will attempt to publish the summary of the workshop in IWA's Source magazine and/or WEF's Water Environment and Technology magazine.</p> <p><b>Speakers:</b> <b>Miriam Hacker</b>, <i>USA</i>; <b>Greta Zornes</b>, <i>USA</i>; <b>Cresten Mansfeldt</b>, <i>USA</i>; <b>Dan Gerrity</b>, <i>USA</i>; <b>Sofia Mordojovich</b>, <i>USA</i>; <b>Jonathon Sheets</b>, <i>USA</i>; <b>Banu Ormeci</b>, <i>Canada</i>; <b>Saif Molla</b>, <i>Canada</i>; <b>Ian Ross</b>, <i>USA</i>; <b>Jason Morrison</b>, <i>USA</i></p>	<p>Room 701 B <b>Workshop</b></p>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: <b>Smart and AI-enabled PUB</b>, <b>Ong Tze-Ch'in</b>, <i>Chief Executive, PUB, Singapore's National Water Agency</i>          Panel Moderator: <b>Deepa Karthykeyan</b> Panel: <b>Dragan Savic</b>, <b>Mike McGann</b>, <b>Cecilia Wennberg</b>, <b>Rosemary Campbell</b></p>			

# Monday | Programme

<b>Keynote Plenary</b>		<b>09:00 - 09:45</b>	
Keynote: <b>Resilience in practice: Avoiding planning traps</b> , <a href="#">Paul Brown</a> , <i>President, Paul Redvers Brown Inc.</i> Panel Moderator: <a href="#">Adam Lovell</a> Panel: <a href="#">David LaFrance</a> , <a href="#">Nerina Di Lorenzo</a> , <a href="#">Peter Simpson</a> , <a href="#">Sangeeta Chopra</a>			
<b>Coffee Break</b>		<b>09:45 - 10:30</b>	
<b>Session 1</b>		<b>10:30 - 12:00</b>	
<b>1.17 UTILITY WIDE TRANSFORMATIONS</b> <b>Chair:</b> <a href="#">Ed Smeets</a> , <i>Netherlands</i> <b>Co-chair:</b> <a href="#">Nick Copeland</a> , <i>Canada</i> Integrating GHG Evaluation And Reduction Into Water & Wastewater Infrastructure Capital Delivery, <a href="#">Jeremy Kraemer</a> , <i>Canada</i> The importance of the Triple Bottom Line 3Ds- Decarbonization, Digitization and Diversity key success of canadian utilities, <a href="#">Vanessa Chau</a> , <i>Canada</i> Establishing, Implementing And Coordinating A Holistic Asset Management System To A Water Utility, <a href="#">Henna Luukkonen</a> , <i>Finland</i> Reengineering Of Wastewater Systems – A Portuguese Case Study, <a href="#">Maria de Fátima Pereira</a> , <i>Portugal</i> POSTERS <i>Lessons Learned From Disconnects Between Design And Operations That Can Lead To Process And Compliance Challenges At Wastewater Treatment Plants</i> , <a href="#">Yaldah Azimi</a> , <i>Canada</i> <i>Decarbonization Strategies In The Water Sector: The Regulatory Landscape And Collaborative Imperative</i> , <a href="#">Alexis de Kerchove</a> , <i>Sweden</i>		<b>Room 703 Technical</b> <b>1.9 LEVERAGING PUBLIC PRIVATE PARTNERSHIPS TO IMPROVE UTILITY EFFICIENCY</b> <b>Chair:</b> <a href="#">Daryyl Day</a> , <i>Australia</i> <b>Co-chair:</b> <a href="#">Hlöðver Stefán Þorgeirsson</a> , <i>Iceland</i> Entering The Second Decade Of Successful Innovation Through A Public-Private Partnership, <a href="#">Terence Reid</a> , <i>United States</i> Embracing Performance Based Contract For Management Of Non-Revenue Water; The Case Of Muranga South Water And Sanitation Company In Kenya, <a href="#">Abdi Wario</a> , <i>Kenya</i> Human Resource Development; Key To The Effective Public-Private Partnership For Waterworks In Tokyo, <a href="#">Yoshiko Murakami</a> , <i>Japan</i> Promoting Entrepreneurial Mindset To Utility-wide Performance Management And Optimization, <a href="#">Hosborn Odongo</a> , <i>Kenya</i> POSTERS <i>Unconventional Hydropower The Hidden Opportunity – Case Studies From South Africa</i> , <a href="#">Jay Bhagwan</a> , <i>South Africa</i>	
<b>Lunch</b>		<b>12:00 - 13:30</b>	
<b>Session 2</b>		<b>13:30 - 15:00</b>	
<b>1.6 GLOBAL PERSPECTIVES ON WATER UTILITY SERVICE DELIVERY</b> <b>Chair:</b> <a href="#">Nancy Kodousek</a> , <i>Canada</i> <b>Co-chair:</b> <a href="#">Flávio Oliveira</a> , <i>Portugal</i> Working Towards Becoming A Utility Of The Future – Case Study: The Gambia, <a href="#">Joe Dalton</a> , <i>Ireland</i> The Power Of Benchmarking - Experiences With Benchmarking And Improving European Water Services, <a href="#">Peter Dane</a> , <i>Netherlands</i> Performance Evaluation Of 17 Town Water Utilities In Ethiopia, 2021, <a href="#">Lulit Gebre</a> , <i>Ethiopia</i> Impact Of Digital Transformation On Water And Sewerage Services Delivery, <a href="#">Jane Mithamo</a> , <i>Kenya</i> POSTERS <i>Porto's New Water Supply Master Plan: A Resilient And Sustainable Path To The Future</i> , <a href="#">Flavio Oliveira</a> , <i>Portugal</i> <i>The Secrets To Incentivising And Achieving Great Customer Service</i> , <a href="#">Julian Jacobs</a> , <i>United Kingdom</i>		<b>Room 703 Technical</b> <b>1.6 KEY SUCCESS OF ANY ASSET MANAGEMENT JOURNEY ACROSS THE GLOBE – TRIPLE BOTTOM LINE– DIGITIZATION, DECARBONIZATION AND DIVERSITY</b> <b>Chair:</b> <a href="#">Vanessa Chau</a> , <i>Canada</i> <b>Co-chair:</b> <a href="#">Rhonda Harris</a> , <i>USA</i> The workshop is intended to appeal to the widest possible audience, from newcomers curious about how other industries are tackling Asset Management (AM) , to experienced hands with decades of wisdom to share. The four topics will be performing an AM maturity assessment and will be chosen to span multiple areas of Asset Management and multiple sectors - to really provide something for everyone. <b>Speakers:</b> <a href="#">Vanessa Chau</a> , <i>Canada</i> ; <a href="#">Derrick Dunkley</a> , <i>UK</i> ; <a href="#">Imran Motala</a> , <i>Canada</i> ; <a href="#">Rhonda Harris</a> , <i>USA</i>	
<b>Coffee Break</b>		<b>15:00 - 15:30</b>	
<b>Session 3</b>		<b>15:30 - 17:00</b>	
<b>1.8 VANCOUVER'S ONE WATER JOURNEY</b> <b>Chair:</b> <a href="#">Michelle Revesz</a> , <i>Canada</i> <b>Co-chair:</b> <a href="#">Sylvie Spraakman</a> , <i>Canada</i> We look to engage in deep discussion about current challenges and future opportunities with actors across the water space from one case study – the City of Vancouver. <b>Speakers:</b> <a href="#">Michelle Revesz</a> , <i>Canada</i> ; <a href="#">Andrea Becker</a> , <i>Canada</i> ; <a href="#">Angela Steward</a> , <i>Canada</i> ; <a href="#">Jamie Huang</a> , <i>Canada</i> ; <a href="#">Dr Sylvie Spraakman</a> , <i>Canada</i>		<b>Room 703 Workshop</b> <b>1.9 RESPONSIBLE INDUSTRIAL WATER MANAGEMENT IN A CHANGING CLIMATE--BREAKTHROUGHS AND INNOVATIONS</b> <b>Chair:</b> <a href="#">Eric Rosenblum</a> , <i>USA</i> <b>Co-chair:</b> <a href="#">Val Frenkel</a> , <i>USA</i> Following the publication of "Guidelines for Responsible Industrial Water Use in a Changing Climate" (IWA Publishing, 2024) the co-authors will moderate a live panel discussion with some of the speakers whose work is featured in the book. These speakers will represent industry, utilities, environmental advocacy groups, and indigenous populations impacted by industrial water use. <b>Speakers:</b> <a href="#">Dave Archambault</a> , <i>USA</i> ; <a href="#">France Guertin</a> , <i>USA</i> ; <a href="#">Payal Luthra</a> , <i>USA</i> ; <a href="#">Sofia Mordojovich</a> , <i>Chile</i> ; <a href="#">Jason Morrison</a> , <i>USA</i>	
<b>Break</b>		<b>17:00 - 17:15</b>	
<b>Keynote Plenary</b>		<b>17:15 - 18:00</b>	
Keynote: <b>Smart and AI-enabled PUB</b> , <a href="#">Ong Tze-Ch'in</a> , <i>Chief Executive, PUB, Singapore's National Water Agency</i> Panel Moderator: <a href="#">Deepa Karthykeyan</a> Panel: <a href="#">Dragan Savic</a> , <a href="#">Mike McGann</a> , <a href="#">Cecilia Wennberg</a> , <a href="#">Rosemary Campbell</a>			

# Monday | Programme

<b>Keynote Plenary</b>		<b>09:00 - 09:45</b>	
Keynote: <b>Resilience in practice: Avoiding planning traps</b> , <a href="#">Paul Brown</a> , <i>President, Paul Redvers Brown Inc.</i> Panel Moderator: <a href="#">Adam Lovell</a> Panel: <a href="#">David LaFrance</a> , <a href="#">Nerina Di Lorenzo</a> , <a href="#">Peter Simpson</a> , <a href="#">Sangeeta Chopra</a>			
<b>Coffee Break</b>		<b>09:45 - 10:30</b>	
<b>Session 1</b>		<b>10:30 - 12:00</b>	
<b>1.13 EVALUATING COMMUNITIES FOR WATER INFRASTRUCTURE PROJECTS THROUGH SUSTAINABLE LIVELIHOODS APPROACH METHODOLOGY</b>		Room 707 Workshop	<b>2.5 ANAEROBIC PROCESS AUGUMENTATION</b>
<p>Chair: <a href="#">Carlos Aguilera</a>, <i>Ecuador</i> Co-chair: <a href="#">Felipe Vasquez</a>, <i>Ecuador</i></p> <p>This session focuses on evaluating communities about water infrastructure projects using the Sustainable Livelihoods Approach (SLA) Methodology. Participants will delve into the SLA method for assessing community assets to ensure alignment with water infrastructure goals. The session aims to equip attendees with the tools and knowledge needed to make informed decisions and establish a baseline for monitoring project progress. By the end of the session, participants will be better prepared to apply this approach to their own projects and contribute to the long-term well-being of the communities they serve.</p> <p>Speakers: <a href="#">Carlos Aguilera</a>, <i>Ecuador</i>; <a href="#">Felipe Vasquez</a>, <i>Ecuador</i>; <a href="#">Wilmer Santacruz</a>, <i>Ecuador</i></p>			<p>Chair: <a href="#">Rasha Faraj</a>, <i>Canada</i> Co-chair: <a href="#">Huan Liu</a>, <i>Australia</i></p> <p>Evaluation Of Organic Waste Co-digestion: Case Studies And Lessons Learned, <a href="#">Ganesh Rajagopalan</a>, <i>United States</i></p> <p>Production Of VFA-based Carbon Source For Denitrification From Fermented Thermally Hydrolysed Digestate In WWTPs, <a href="#">Andrea Carranza Muñoz</a>, <i>Sweden</i></p> <p>Intensification Of Anaerobic Digestion By Bioaugmentation, <a href="#">Mohamed Zaghoul</a>, <i>Canada</i></p> <p>Integrating Hydrothermal Pretreatment Into Conventional WRRF: Advancing Sustainability And Resource Recovery, <a href="#">Abir Hamze</a>, <i>Canada</i></p> <p>POSTERS</p> <p>Machine Learning Model For Visualizing Relationships In Anaerobic Co-digestion Of Waste Activated Sludge And Food Waste, <a href="#">Maryam Ghazizade Fard</a>, <i>Canada</i></p> <p>Comparing Conventional Anaerobic Digestion With An Innovative Plug-flow Digestion Technology In North America, <a href="#">Danny Traksel</a>, <i>Netherlands</i></p>
<b>Lunch</b>		<b>12:00 - 13:30</b>	
<b>Session 2</b>		<b>13:30 - 15:00</b>	
<b>4.1 DECISION SUPPORT TOOLS IN URBAN WATER MANAGEMENT</b>		Room 707 Technical	<b>2.6 PRETREATMENT OF ANAEROBIC PROCESSES</b>
<p>Chair: <a href="#">Dewi Rogers</a>, <i>Italy</i> Co-chair: <a href="#">Tatiana Estevez</a>, <i>Canada</i></p> <p>Assessing The Needed Supply Buffer For Copenhagen's Water Supply, <a href="#">Martin Rygaard</a>, <i>Denmark</i></p> <p>Improved Hydrological Modelling Of Infiltration Swales In Cold Climates Using Underground Water Levels, <a href="#">Tone Muthanna</a>, <i>Norway</i></p> <p>Into The Wild: Calibrating A Large-Scale Water Quality Model In The City Of Markham's Distribution System, <a href="#">Bradley Jenks</a>, <i>United Kingdom</i></p> <p>Planning Water Supply From A Viewpoint Of The Possibility Of Depopulation In The Future In A Developing Country, <a href="#">Sadahiko Itoh</a>, <i>Japan</i></p> <p>POSTERS</p> <p>Digital Decision Support Tools To Tackle Water Planning Challenges: Two Success Stories In Angola, <a href="#">Maria de Fátima Pereira</a>, <i>Portugal</i></p> <p>Expert Choice And Graph-Informed Engineering Solutions For Efficiency Enhancement In The Evolutionary Optimization Of A Real-World Water Distribution Network, <a href="#">Amin Minaei</a>, <i>Austria</i></p>			<p>Chair: <a href="#">Ioannis Alexiou</a>, <i>United Kingdom</i> Co-chair: <a href="#">Issabella Anim</a>, <i>Canada</i></p> <p>Challenging The Retention Time Of Municipal Sludge Anaerobic Digestion. How Low Can You Go?, <a href="#">William Barber</a>, <i>United States</i></p> <p>Pre-treatment For Methane Production Improvement In Anaerobic Co-digestion Of Organic Waste And Sewage Sludge, <a href="#">Allie (Minh-Anh) Nguyen</a>, <i>Vietnam</i></p> <p>Sludge Digestion Capacity Challenge: Supervision When Moving From Mesophilic To Thermophilic Phase While In Operation, <a href="#">Abhilasha Mishra</a>, <i>Denmark</i></p> <p>Ammonia Recovery Through Chemical Stripping Of Hydrothermal Liquefaction Aqueous Stream To Enhance Anaerobic Co-digestion With Municipal Sludge, <a href="#">Alison Cox</a>, <i>Canada</i></p> <p>POSTERS</p> <p>High-pressure Anaerobic Digestion For In-situ Biogas Upgrading, <a href="#">Jing Zhao</a>, <i>China</i></p> <p>Sulphate Reduction, Mixed Sulphide- And Thiosulphate-driven Autotrophic Denitrification, And Anammox Integrated (SANIA) Process For Sustainable Wastewater Treatment, <a href="#">Chukuan Jiang</a>, <i>Hong Kong-China</i></p>
<b>Coffee Break</b>		<b>15:00 - 15:30</b>	
<b>Session 3</b>		<b>15:30 - 17:00</b>	
<b>4.6 DECISION SUPPORT TOOLS IN WASTEWATER MANAGEMENT</b>		Room 707 Technical	<b>2.7 MICROBIOLOGY IN ANAEROBIC PROCESSES</b>
<p>Chair: <a href="#">Eden Mati-Mwangi</a>, <i>Kenya</i> Co-chair: <a href="#">Saba Daneshgar</a>, <i>Belgium</i></p> <p>BOD<sub>5</sub> And COD Soft Sensors Application For WWTP Organic Load Monitoring, <a href="#">Sofiane Mazeghrane</a>, <i>France</i></p> <p>Implications Of Population Density Variations On The Design Of Sewer Networks: Case Study Of Dahanu City In India, <a href="#">Shweta Lokhande</a>, <i>India</i></p> <p>Hybrid Approach To Estimate Inflow And Infiltration In Data-Scarce Contexts, <a href="#">Gabrielle Marega</a>, <i>Canada</i></p> <p>Monitoring And Optimization Of Wastewater Networks Using Adaptive Pump Flow Estimation And IOT Data With A Machine Learning Approach, <a href="#">Reza Pourmoayed</a>, <i>Denmark</i></p> <p>POSTERS</p> <p>JalVishwa 1.0 : A Tool For Wastewater Treatment Technology Selection Based On Multiple Attribute Decision Making, <a href="#">Pradip Kalbar</a>, <i>India</i></p> <p>Flow Estimation And Prediction In Combined Sewer Systems Using Machine Learning, <a href="#">Jesper Neilsen</a>, <i>Denmark</i></p>			<p>Chair: <a href="#">Mei Yee Chan</a>, <i>Singapore</i></p> <p>Dark Fermentative Biohydrogen Production From Plastic-containing Primary Sludge, <a href="#">Monisha Alam</a>, <i>Canada</i></p> <p>Removal Of Complex Pharmaceuticals Compounds In Synthetic Sanitary Sewage Through Anaerobic Digestion: Is It Viable?, <a href="#">Ana Paula Paulinetti</a>, <i>Brazil</i></p> <p>Deciphering Anaerobic Ethanol Metabolic Pathways Shaped By Operational Modes, <a href="#">Bang Du</a>, <i>Ireland</i></p> <p>The Benefits Of Immobilized Sulfate-reducing Bacteria In mining-influenced Water Treatment, <a href="#">Xinting Yin</a>, <i>Australia</i></p>
<b>Break</b>		<b>17:00 - 17:15</b>	
<b>Keynote Plenary</b>		<b>17:15 - 18:00</b>	
Keynote: <b>Smart and AI-enabled PUB</b> , <a href="#">Ong Tze-Ch'in</a> , <i>Chief Executive, PUB, Singapore's National Water Agency</i> Panel Moderator: <a href="#">Deepa Karthykeyan</a> Panel: <a href="#">Dragan Savic</a> , <a href="#">Mike McGann</a> , <a href="#">Cecilia Wennberg</a> , <a href="#">Rosemary Campbell</a>			

# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: <b>Resilience in practice: Avoiding planning traps</b> , <a href="#">Paul Brown</a> , <i>President, Paul Redvers Brown Inc.</i> Panel Moderator: <a href="#">Adam Lovell</a> Panel: <a href="#">David LaFrance</a> , <a href="#">Nerina Di Lorenzo</a> , <a href="#">Peter Simpson</a> , <a href="#">Sangeeta Chopra</a>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.1 ANAMMOX / DENITRIFICATION</b>		<b>Room 711 Technical</b>	<b>6.3 SURFACE WATER MONITORING SYSTEMS AND MODELS</b>
<b>Chair:</b> <a href="#">Yves Comeau</a> , <i>Canada</i> <b>Co-chair:</b> <a href="#">Yi Cao</a> , <i>United States</i>			<b>Chair:</b> <a href="#">Nilo Nascimento</a> , <i>Brazil</i> <b>Co-chair:</b> <a href="#">Laya Ahmadi</a> , <i>Canada</i>
Enhancing Denitrification Without External Carbon Source - Full-scale Operation, <a href="#">Sofia Bramstedt</a> , <i>Sweden</i>			An Autonomous Sampling Strategy For A Drinking Water Source Using A HD-WAQ Model, <a href="#">Joseph Kwarko-Kyei</a> , <i>Norway</i>
Modelling Mainstream Nitrate nitrite-dependent Anaerobic Methane Oxidation And Anammox Process In Membrane Granular Sludge Reactor At Low Temperature, <a href="#">Shi Chen</a> , <i>China</i>			Ecosystem Dynamics And Phosphorus Cycling In Lake Ontario: A 3D Ecological Model Assessment Of Dreissenid Mussels And Cladophora Interactions, <a href="#">Mohammad Madani</a> , <i>Canada</i>
HRSD's Journey From Pilot To Full-Scale Implementation Of Mainstream Partial Denitrification Anammox (PdNA) IFAS, <a href="#">Megan Bachmann</a> , <i>United States</i>			Exploring Innovative Approaches For Water Resources Assessments In Data-Scarce Regions With Earth Observations, <a href="#">Rishma Chengot</a> , <i>United Kingdom</i>
C-N-S Coupling In An Anaerobic, Sulfide-based Partial Denitrification And Anammox (SPDA) Reactor System For Treating Real Domestic Wastewater, <a href="#">Owaes Magray</a> , <i>South Africa</i>			The Effect Of Complexity On Water Quality Modelling Performance And Uncertainty, <a href="#">Joshua Rasifudi</a> , <i>South Africa</i>
<b>POSTERS</b>			<b>POSTERS</b>
<i>Partial Denitrification Success Factors: Understanding The Fundamentals Behind NO2 Accumulation</i> , <a href="#">Parin Izadi</a> , <i>Canada</i>			<i>Design And Optimization Of Low Impact Development (LID) Controls Using Evidence-based Approach In A Tropical Urban Catchment</i> , <a href="#">Gil Cruz</a> , <i>Philippines</i>
<i>Elemental Sulfur-based Autotrophic Denitrification Coupled With Anammox Process Realized Stable Mainstream Nitrogen Removal</i> , <a href="#">Yuanjun Liu</a> , <i>Hong Kong</i>			<i>An Ontology-based Digital Architecture And Modelling Ecosystem For Water-fit-for-reuse Applications</i> , <a href="#">Saba Daneshgar</a> , <i>Belgium</i>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>2.2 PHOSPHORUS REMOVAL</b>		<b>Room 711 Technical</b>	<b>6.1 ADVANCED TECHNIQUES FOR GROUND WATER MANAGEMENT</b>
<b>Chair:</b> <a href="#">Bruce Johnson</a> , <i>United States</i> <b>Co-chair:</b> <a href="#">Salma Hendy</a> , <i>Canada</i>			<b>Chair:</b> <a href="#">Andrea Cherry</a> , <i>Canada</i> <b>Co-chair:</b> <a href="#">Miguel Angel Gonzalez Nuñez</a> , <i>Mexico</i>
Synthesis And Characterization Of Fe(OH) <sub>3</sub> -modified Yellow Birch Woodchips Sorbent For Phosphorus Adsorption In Wastewaters, <a href="#">Soureyatou Hamidou</a> , <i>Canada</i>			Accelerating Groundwater Mapping And Management Through Large-scale Airborne Geophysical Surveys, <a href="#">Timothy Parker</a> , <i>USA</i>
Propioniciclava, A Potential Polyphosphate Accumulating Organism Without Denitrifying Phosphorus Uptake Function In An Enhanced Biological Phosphorus Removal Process, <a href="#">Yongmei Li</a> , <i>China</i>			Comprehensive Approach To Detect The Salinity Origin And Recharge Source Of Groundwater Using Stable Isotopes, Mixing Models, PCA, And K-Means Cluster Analysis, <a href="#">Mohamed Hamdy Eid Hemida</a> , <i>Hungary</i>
Identifying Potential Process Enhancements In Phosphorus Removal On WWTPs By Phosphorus Fractionation In The Effluent, <a href="#">Henning Knerr</a> , <i>Germany</i>			From Near Surface Geophysics To Groundwater Reservoir Characterisation And Establishment Of New Water Work, <a href="#">Per Gisselø</a> , <i>Denmark</i>
Simultaneous Phosphorus Removal And Nitrogen Recovery Using The CANDOP, <a href="#">Emily Kin</a> , <i>United States</i>			Hydro Geochemistry Of Ground Water By Using Water Quality Indexing And Statistical Modelling In Outer Himalayan Region, <a href="#">Kanchan Deoli Bahukhandi</a> , <i>India</i>
<b>POSTERS</b>			<b>POSTERS</b>
<i>Enlarged Anaerobic Zone - Evolution Of EBPR Design In MBR</i> , <a href="#">Soubhagya Pattanayak</a> , <i>Canada</i>			<i>Methodologies And Community Impacts Of Groundwater Recharge Interventions In Almora District, Uttarakhand, India</i> , <a href="#">Katya Koepsel</a> , <i>United States</i>
<i>Effect Of Extended Solids Retention Time (SRT) On Enhanced Biological Phosphorus Removal (EBPR) Kinetics In A Membrane Bioreactor Process</i> , <a href="#">Rony Das</a> , <i>Canada</i>			<i>Better Protection Of Drinking Water - The Catchment Area Is An Integrated Part Of The Waterworks Production Site</i> , <a href="#">Pernille Jakobsen</a> , <i>Denmark</i>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>2.3 PARTIAL NITRIFICATION</b>		<b>Room 711 Technical</b>	<b>6.4 PROTECTION OF SURFACE WATER QUALITY AND QUANTITY</b>
<b>Chair:</b> <a href="#">Liu Ye</a> , <i>Australia</i> <b>Co-chair:</b> <a href="#">Brett Wagner</a> , <i>United States</i>			<b>Chair:</b> <a href="#">Katerina Schilling</a> , <i>Austria</i> <b>Co-chair:</b> <a href="#">Deyvid Rosa</a> , <i>Brazil</i>
Exploration And Verification Of The Potential Of Partial Nitrification Achieved By Sulfide Inhibition For Sewage Treatment, <a href="#">Yang LIU</a> , <i>Hong Kong, China</i>			Assessment Of PO <sub>4</sub> -P Release With A Novel Passive Sampler At The Sediment-Water Interface In A Shallow Eutrophic Lake, <a href="#">Kazuto Sano</a> , <i>Japan</i>
Autotrophic Biological Nitrogen Removal In An Algal-bacterial Symbiosis System: Formation And Structure Of Integrated Algae partial-nitrification anammox Biofilm, <a href="#">Zuo Cheng Liu</a> , <i>China</i>			6 Years Treatment Variations Of A 10-ha Pond-wetland System Constructed For Polishing And Emergency Control At A Coastal Steel Industry, <a href="#">Viet-Anh Nguyen</a> , <i>Vietnam</i>
Superior Mainstream Partial Nitritation In Membrane Aerated Biofilm Reactor, <a href="#">Chenkai Niu</a> , <i>Australia</i>			Utilizing Treatment Trains To Treat Complex Pollution In Groundwater Caused By Generational Pollution, <a href="#">Nicolaj Damgaard</a> , <i>Denmark</i>
Microbial Entrapment Of Nitrifiers, Denitrifiers And Polyphosphate Accumulating Organisms For Treatment Of Domestic And Industrial Wastewater, <a href="#">Koko Kawaura</a> , <i>Australia</i>			Coupling Geothermal Heating With Bioremediation For Enhanced Degradation Of BTEX From Subsurface, <a href="#">Gurpreet Kaur</a> , <i>Canada</i>
<b>POSTERS</b>			<b>POSTERS</b>
<i>Advanced Nitrogen Removal From Wastewater By Coupling Nitritation, Partial Nitritation And Denitrification With Anammox In Membrane-aerated Biofilm Reactor Integrated Fixed-film Activated Sludge</i> , <a href="#">Baoshan Xing</a> , <i>China</i>			<i>Wastewater-effluent Phosphorus After Tertiary Treatment: An Additional And Unexpected Threat To Downstream Reservoir Eutrophication?</i> , <a href="#">Kelvin Vianini</a> , <i>Canada</i>
			<i>Contribution To The Quality Assessment Of Purified Water: A Case Study Of The Methods Used By UN Field Operations Mission In The Province Of South Kivu In The DRC</i> , <a href="#">Soumana Gagara</a> , <i>Somalia</i>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: <b>Smart and AI-enabled PUB</b> , <a href="#">Ong Tze-Ch'in</a> , <i>Chief Executive, PUB, Singapore's National Water Agency</i> Panel Moderator: <a href="#">Deepa Karthykeyan</a> Panel: <a href="#">Dragan Savic</a> , <a href="#">Mike McGann</a> , <a href="#">Cecilia Wennberg</a> , <a href="#">Rosemary Campbell</a>			

# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: <b>Resilience in practice: Avoiding planning traps</b> , <a href="#">Paul Brown</a> , <i>President, Paul Redvers Brown Inc.</i> Panel Moderator: <a href="#">Adam Lovell</a> Panel: <a href="#">David LaFrance</a> , <a href="#">Nerina Di Lorenzo</a> , <a href="#">Peter Simpson</a> , <a href="#">Sangeeta Chopra</a>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>3.2 GROUNDWATER BASED DRINKING WATER TREATMENT</b>	<b>Room 714 Technical</b>	<b>3.1 UNIT OPERATIONS (COAGULATION, (BIO) FILTRATION, MEMBRANE PROCESSES, OZONATION)</b>	<b>Room 715 A Technical</b>
Chair: <a href="#">Sujithra Weragoda</a> , <i>Sri Lanka</i> Co-chair: <a href="#">Katya Koepsel</a> , <i>United States</i> Impact Of Fe On The Biofiltration Of Mn In Groundwater, <a href="#">Jérôme Ducret</a> , <i>Canada</i> Reducing Methane Emission And Optimizing Sand Filtration Performance By Membrane Degassing And Controlling Oxidation-Reduction Potential, <a href="#">Frank Schoonenberg</a> , <i>Netherlands</i> Can Solar-powered UV-LED Provide Sustainable RO-treated Drinking Water For Remote Communities?, <a href="#">Noshin Karim</a> , <i>Canada</i> De-scaling Of Water Using Sound And Magnetic Methods, <a href="#">Michael Bache</a> , <i>Denmark</i> POSTERS <i>Fluoride Contamination In Southern Brazil Groundwater: Identifying Risks And Strategies For Public Health Improvement</i> , <a href="#">Elvis Carissimi</a> , <i>Brazil</i> <i>Bacterial Co-culture As A Sustainable Tool For Benzene-Toluene-Ethylbenzene And Xylene (BTEX) Biodegradation</i> , <a href="#">Diego Hernandez</a> , <i>Canada</i>		Chair: <a href="#">Stephen Katz</a> , <i>Canada</i> Co-chair: <a href="#">Haojie Ding</a> , <i>China</i> Modification Of Commercial Polyaluminum Chloride To Prevent Irreversible Fouling In Coagulation-Membrane Filtration For Drinking Water Treatment, <a href="#">Qing Ding</a> , <i>Japan</i> Exploring Carbon Dynamics In Slow Sand Filters Using Stable Isotope Probing, <a href="#">Bayan Khojah</a> , <i>Netherlands</i> Biological Ion Exchange: A Tale Of Three Mechanisms To Remove NOM From Drinking Water, <a href="#">Karl Zimmerman</a> , <i>Canada</i> Predicting Particulate Fouling In The Reverse Osmosis Using MFI UF Method, <a href="#">Nirajan Dhakal</a> , <i>Netherlands</i> POSTERS <i>High Performance Of Chloride-enhanced Heat-activated Peroxymonosulfate (PMS) Pretreatment Toward Zero Liquid Discharge (ZLD) System In Seawater Desalination</i> , <a href="#">Jaewon Lee</a> , <i>Korea</i> <i>Better Protozoa Removal With Direct Filtration?</i> , <a href="#">Kalani Sachintha Kalani</a> , <i>Canada</i>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>3.16 WATER AND ENERGY ECONOMICS IN LOCAL &amp; GLOBAL CONTEXTS</b>	<b>Room 714 Technical</b>	<b>5.3 POLICY AND REGULATION</b>	<b>Room 715 A Technical</b>
Chair: <a href="#">Annalisa Contos</a> , <i>Australia</i> Co-chair: <a href="#">Nitish Ranjan Sarker</a> , <i>Canada</i> Water-Energy-Smart Future: Leveraging Day-Ahead Electricity Pricing For Cost-Efficient Water Distribution, <a href="#">Krisztian Mark Balla</a> , <i>Denmark</i> Assessing The Impact Of Water Price Reform And Water Use Efficiency On Domestic Water Demand In Saudi Arabia, <a href="#">Muhammad Javid</a> , <i>Saudi Arabia</i> Leak Detection ROI Sensitivity Analysis, <a href="#">Brian Harwood</a> , <i>USA</i> Beyond One's Means: Explaining Factors Of Unpaid Water Bills And Social Assistant Management. The Case Of Alicante And Murcia, Spain, <a href="#">Luis Zapana-Churata</a> , <i>Spain</i> POSTERS <i>Adaptative IoT system for continuous dynamic pressure control IN water distribution networks</i> , <a href="#">Jose Dario Luis Delgado</a> , <i>Spain</i> <i>Water Supply System Optimization Reducing The Energy Costs And Withdrawal Of Surface Water Resources</i> , <a href="#">Farid Zahir</a> , <i>Canada</i>		Chair: <a href="#">Armando Silva-Afonso</a> , <i>Portugal</i> Co-chair: <a href="#">Miriam Hacker</a> , <i>United States</i> Mapping Governance To Link Global Goals With Local Action: Process Tracing Methodologies For Urban Water Management Across Urban South Asia, <a href="#">Faisal Shaheen</a> , <i>Canada</i> Affordability And Equitable Water Services Provision, <a href="#">Paul Jeffrey</a> , <i>UK</i> The Unintended Inequities Of Rural Piped Water Supply, <a href="#">Samantha LeValley</a> , <i>Canada</i> How To Achieve A Pricing Structure That Reflects The Cost Structure Of A Water Utility, <a href="#">Johanna Aarnisalo</a> , <i>Finland</i> POSTERS <i>Legal Personhood For Waterways And Innovative Projects - Help Or Hindrance?</i> , <a href="#">Aaron Atcheson</a> , <i>Canada</i> <i>Sustainable And Transformative Partnerships In The Water Sector</i> , <a href="#">Elisabete Vale</a> , <i>Portugal</i>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>1.19 REUSE AND RECYCLE WATERWORKS SLUDGE</b>	<b>Room 714 Workshop</b>	<b>6.2 DECADES OF EVOLVING WATER GOVERNANCE – WHAT HAVE WE LEARNT</b>	<b>Room 715 A Technical</b>
Chair: <a href="#">Susan Andrews</a> , <i>Canada</i> Co-chair: <a href="#">Kenneth Persson</a> , <i>Sweden</i> The water sector use substantial amounts of treatment chemicals. We want to show different methods on how to decrease the generation of waste in the treatment processes of surface water based on process optimization of coagulant dosing, reuse of sludge material and recycling of sludge chemicals, to initiate a discussion on proper strategies for sludge management in the drinking water industry. <b>Speakers:</b> <a href="#">Olaf van der Kolk</a> , <i>Netherlands</i> ; <a href="#">Krister Hagström</a> , <i>Sweden</i> ; <a href="#">Jenny Åström</a> , <i>Sweden</i>		Chair: <a href="#">Michael Rouse</a> , <i>United Kingdom</i> Co-chair: <a href="#">Juviya Mathew</a> , <i>Canada</i> Evolving Water Governance In Japan: Lessons For Inclusive Decision-making And Sustainability, <a href="#">Ishiwatari Mikio</a> , <i>Japan</i> Legitimation Strategies For Water Related Reuse, <a href="#">Sandra Sikkema</a> , <i>Netherlands</i> Exploring The Narratives In New Zealand's Three Waters Reform: How Can Lessons From The Past Inform Future Policies?, <a href="#">Maryam Moridnejad</a> , <i>New Zealand</i> Evaluation Of World Bank French Development Agency Financed Urban Water Reform Programme In Lagos Water Corporation (2005-2017), <a href="#">Babatope Babalobi</a> , <i>Nigeria</i> POSTERS <i>Drinking Water Scarcity In Cameroon The Need For More Effective Management Of Water Supply Facilities</i> , <a href="#">Mbah Obed Sama</a> , <i>Cameroon</i> <i>Navigating The Waters Of Cooperation: Federated Learning Machine Learning And The Federated Collaborative Governance Framework</i> , <a href="#">Elizabeth Taylor</a> , <i>USA</i>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: <b>Smart and AI-enabled PUB</b> , <a href="#">Ong Tze-Ch'in</a> , <i>Chief Executive, PUB, Singapore's National Water Agency</i> Panel Moderator: <a href="#">Deepa Karthykeyan</a> Panel: <a href="#">Dragan Savic</a> , <a href="#">Mike McGann</a> , <a href="#">Cecilia Wennberg</a> , <a href="#">Rosemary Campbell</a>			

# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Resilience in practice: Avoiding planning traps, <b>Paul Brown</b>, <i>President, Paul Redvers Brown Inc.</i>            Panel Moderator: <b>Adam Lovell</b> Panel: <b>David LaFrance</b>, <b>Nerina Di Lorenzo</b>, <b>Peter Simpson</b>, <b>Sangeeta Chopra</b></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.34 WASTEWATER-BASED EPIDEMIOLOGY</b>	<b>Room 715 B Technical</b>	<b>1.13 NEW PERSPECTIVES ON NET ZERO UTILITIES</b>	<b>Room 716 A Technical</b>
<p>Chair: <b>Rasha Maal-Bared</b>, <i>Canada</i> Co-chair: <b>Catherine Hoar</b>, <i>United States</i></p> <p>Development Of A Novel Method For Concentrating, Monitoring And Sequencing Of SARS-CoV-2 In Large Volumes Of Wastewater, <b>Ghina El Soufi</b>, <i>France</i></p> <p>Variations Of Relative Sequencing Depths Along The SARS-CoV-2 Genome For Wastewater Samples: Are They Characterizing Decay?, <b>Sukriye Celikkol</b>, <i>Canada</i></p> <p>Wastewater-Based Epidemiology In Wales - From COVID-19 To One Health Monitoring, <b>Bhavik Barochia</b>, <i>United Kingdom</i></p> <p>Evaluation Of Weather Dependent Sample Collection And Data Interpretation For Effective Wastewater-based Epidemiology In Combined Sewer Systems, <b>Emily Garner</b>, <i>United States</i></p>		<p>Chair: <b>Sudhir Murthy</b>, <i>United States</i> Co-chair: <b>Francisca Braga</b>, <i>Denmark</i></p> <p>Wider Opportunities For Low-carbon Urban Water Systems, <b>Ka Leung Lam</b>, <i>China</i></p> <p>Breaking Down "Decarbonization" For The Water Wastewater Sector, <b>Melissa Harclerode</b>, <i>United States</i></p> <p>The Oversimplification Of Greenhouse Gas Emissions From The Wastewater Sector, <b>Jason Ren</b>, <i>United States</i></p> <p>Examples Of Scope 4 Emission Reduction In The Water Sector, <b>Marette Zwamborn</b>, <i>Netherlands</i></p> <p><b>POSTERS</b></p> <p><i>Greenhouse Gas Emission Reductions As A Result Of Infrastructure Intensification In Water Resource Recovery Facilities</i>, <b>Daniel Andres Mendoza Grubert</b>, <i>Canada</i></p> <p><i>The Road Towards A Nordic Climate Neutral Water Sector</i>, <b>Jeanette Agertved Madsen</b>, <i>Denmark</i></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>2.35 CONTAMINANTS OF EMERGING CONCERN IN SEWERS</b>	<b>Room 715 B Technical</b>	<b>1.15 CIRCULAR ECONOMY INITIATIVES ON UTILITY LEVEL</b>	<b>Room 716 A Technical</b>
<p>Chair: <b>Jennifer Weidhaas</b>, <i>United States</i> Co-chair: <b>Daneish Despot</b>, <i>Germany</i></p> <p>H<sub>2</sub>S Formation In A Sewer Physical Twin: Understanding Process Dynamics And Control Strategies, <b>Mingu Kim</b>, <i>Canada</i></p> <p>Fate And Interactions Of Imipenem In Wastewater: Assessing Stability And Environmental Impact, <b>Pratishtha Khurana</b>, <i>Canada</i></p> <p>Pharmaceutically Active Compounds In Wastewater: A Review Of Occurrence, Regulatory Framework And Removal Methods, <b>Shahab Minaei</b>, <i>Canada</i></p> <p>From Sewers To Solutions: Wastewater-Based Epidemiology And The Future Of TB, <b>Hlengiwe Mtetwa</b>, <i>South Africa</i></p> <p><b>POSTERS</b></p> <p><i>Profiles Of Antibiotic Resistant Bacteria And Their Resistance Genes In The Influent And The Effluent Of Wastewater Treatment Plants In Kanagawa, Japan</i>, <b>Miku Kanazashi</b>, <i>Japan</i></p> <p><i>Methods For Surveillance Of Antibiotic-Resistant Bacteria In Wastewater From Healthcare Facilities</i>, <b>Ean Warren</b>, <i>United States</i></p>		<p>Chair: <b>Linda Åmand</b>, <i>Sweden</i> Co-chair: <b>Ruobin Dai</b>, <i>China</i></p> <p>Advancing Towards A Circular Economy In Membrane Technology, <b>Kelly Hill</b>, <i>Australia</i></p> <p>Towards Phosphorus Circularity: Biofilm EBPR With Subsequent Struvite Production At Hias WWTP - Insights From Full-Scale, Lab Testing, <b>Sondre Eikås</b>, <i>Norway</i></p> <p>Risk Analysis Of Water Recovery From Waste Water Based On The MBR Technology - Case Study Poland, <b>Klara Ramm</b>, <i>Poland</i></p> <p>A Full Scale Advanced Anaerobic Digestion Case Study At Tarnow Wwtp, Poland, <b>Ashish Sahu</b>, <i>Norway</i></p>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>5.4 CROSS-SECTORAL GOVERNANCE</b>	<b>Room 715 B Technical</b>	<b>1.27 CONSTRUCTION TO PRODUCTION IN THE WATER INDUSTRY</b>	<b>Room 716 A Workshop</b>
<p>Chair: <b>Simon J Ayley</b>, <i>United Kingdom</i> Co-chair: <b>Kala Sritharan</b>, <i>Australia</i></p> <p>Developing A Wastewater Surveillance System To Accurately Detect Influenza A Prevalence In Communities With Different Populations And Sewer Infrastructure, <b>Timothy Garant</b>, <i>Canada</i></p> <p>Accelerating Cross-institutional Collaboration And Coordination In The Context Of Devolution In Kenya, <b>Dorris Kirui</b>, <i>Kenya</i></p> <p>Redefining Priorities: The Imperative Of Addressing Chronic Diseases In The Developing World Through Wastewater-Based Epidemiology, <b>Patrick D'Aoust</b>, <i>Canada</i></p> <p>Follow The Drop: An Innovative Public-Private-Philanthropic Approach To Stormwater Management In Honolulu, Hawaii, <b>Lauren Roth Venu</b>, <i>USA</i></p> <p><b>POSTERS</b></p> <p><i>Design Thinking Processes In Águas E Energia Do Porto</i>, <b>Neves Moises</b>, <i>Portugal</i></p> <p><i>Holistic Approach To Assessing Investments In Drinking Water Infrastructure Maximises Impact And Efficiency</i>, <b>Carl Heyrman</b>, <i>Belgium</i></p>		<p>Chair: <b>Simon Parsons</b>, <i>Scotland</i>            Co-chair: <b>Shaunna Berendsen</b>, <i>England</i>; <b>Rachel Fox</b>, <i>Scotland</i></p> <p>The water industry is facing many challenges and opportunities in the transition from construction to production, with the aim to improve productivity. Standardisation is seen as a key enabler in an industry with a history of bespoke infrastructure projects, often relying on traditional carbon intensive engineering solutions. This workshop aims to provide a platform for water professionals, researchers, and stakeholders to share their experiences, insights, and best practices on how to manage this transition effectively. The workshop will cover topics such as: modular construction, quality and safety, innovation and technology, transition to 3D digital designs and BIM.</p> <p><b>Speakers:</b> <b>Simon Parsons</b>, <i>Scotland</i>; <b>Shaunna Berendsen</b>, <i>England</i>; <b>Rachel Fox</b>, <i>Scotland</i></p>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>	<p>Keynote: Smart and AI-enabled PUB, <b>Ong Tze-Ch'in</b>, <i>Chief Executive, PUB, Singapore's National Water Agency</i>            Panel Moderator: <b>Deepa Karthykeyan</b> Panel: <b>Dragan Savic</b>, <b>Mike McGann</b>, <b>Cecilia Wennberg</b>, <b>Rosemary Campbell</b></p>	

# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Resilience in practice: Avoiding planning traps, <a href="#">Paul Brown</a>, <i>President, Paul Redvers Brown Inc.</i>            Panel Moderator: <a href="#">Adam Lovell</a> Panel: <a href="#">David LaFrance</a>, <a href="#">Nerina Di Lorenzo</a>, <a href="#">Peter Simpson</a>, <a href="#">Sangeeta Chopra</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.8 ACTIVATED SLUDGE PROCESSES - SESSION 1</b>	<b>Room 716 B Technical</b>	<b>5.2 DIGITAL TRANSFORMATION</b>	<b>Room 717 A Technical</b>
<p>Chair: <a href="#">Tom Arnot</a>, <i>United Kingdom</i>            Co-chair: <a href="#">Jacqueline Sampah-Adjei</a>, <i>Ghana</i></p> <p>Appropriate Technologies For Secondary Wastewater Treatment At High Elevations, <a href="#">Gustavo Andrés Baquero Rodriguez</a>, <i>Colombia</i></p> <p>Influence Of PH On Microbial Communities During Ammonia Retention From Simulated Industrial Wastewater By Microaerobic Activated Sludge Process, <a href="#">Xinyi Zhou</a>, <i>Japan</i></p> <p>Sensitivity Analysis Of Anaerobix Zone Mass Fraction And Hydrolosic/ Fermentation rate, <a href="#">Parnian Izadi</a>, <i>Canada</i></p>		<p>Chair: <a href="#">Janelcy Alferes Castano</a>, <i>Belgium</i> Co-chair: <a href="#">Liudmyla Odud</a>, <i>Ukraine</i></p> <p>Customer Oriented Smart Metering, <a href="#">David Marciniak</a>, <i>Belgium</i></p> <p>CX360: Customer Communication Platform At Águas E Energia Do Porto, <a href="#">Joana Araújo</a>, <i>Portugal</i></p> <p>Analysis Of The Benefits Of Introducing Smart Water Meters To Smart Water Network System: A Pilot Project In Penghu, <a href="#">IHsiao Hsin</a>, <i>Chinese Taipei</i></p> <p>Improving Customer Service And Promote Digital Transformation By Developing Applications For Smartphones, <a href="#">Taisuke Kikuchi</a>, <i>Japan</i></p> <p>POSTERS</p> <p>Digital Tools For Participatory Water Governance: A Knowledge-Centered Approach To ICT-Facilitated Public Engagement In The Great Lakes Basin, <a href="#">Johanna Dipple</a>, <i>Canada</i></p> <p>Device To Continuously Detect The Sludge Volume And Physico-chemical Characteristics Of Faecal Sludge Within A Septic Tank For Informing Treatment Plant Design, <a href="#">Monisha Naik</a>, <i>Canada</i></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>2.9 ACTIVATED SLUDGE PROCESSES - SESSION 2</b>	<b>Room 716 B Technical</b>	<b>2.36 DIGITAL WATER &amp; MODELLING – SESSION 1</b>	<b>Room 717 A Technical</b>
<p>Chair: <a href="#">Leiv Rieger</a>, <i>Canada</i> Co-chair: <a href="#">Jan Ruppelt</a>, <i>Germany</i></p> <p>Activated Sludge Models Aeration Control System For Energy Conservation In WWTP, <a href="#">Hisashi Kishimoto</a>, <i>Japan</i></p> <p>Biokinetic Modelling To Predict Seasonal Variations Of Nitrous Oxide Emissions From A Full-scale Wastewater Treatment Plant, <a href="#">Siddharth Seshan</a>, <i>Netherlands</i></p> <p>Evaluation Of Combined Control Scheme For Better Effluent Quality And Reducing Cost In Wastewater Treatment Plants, <a href="#">Yuta Onishi</a>, <i>Japan</i></p> <p>The Key Of Mechanistic Understanding For Effective Mitigation Of Nitrous Oxide Emissions In Wastewater Treatment Plants, <a href="#">Wim Audenaert</a>, <i>Belgium</i></p>		<p>Chair: <a href="#">Jeremy Kraemer</a>, <i>Canada</i> Co-chair: <a href="#">Agustin Landaburu</a>, <i>Argentina</i></p> <p>Dynamic Prediction Of Nitrous Oxide Emissions In A Full-scale Industrial Wastewater Treatment Plant Using A Plant-wide Model Approach, <a href="#">Tianyu Lei</a>, <i>Denmark</i></p> <p>Towards Development Of System-Wide Digital Twins For Water And Resource Recovery Facilities, <a href="#">Shalongo Angula</a>, <i>South Africa</i></p> <p>When Wastewater Treatment Processes Meet Machine Learning: Improving Predictive Performance Through Optimization Of Dataset Construction, <a href="#">Jiayuan Ji</a>, <i>Japan</i></p> <p>Mechanistic Modelling Insights Into Fermentative And Conventional Polyphosphate Accumulating Organisms, <a href="#">Rhys Thomson</a>, <i>Australia</i></p>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>2.26 TREATMENT AND RECOVERY OF INDUSTRIAL WASTEWATER</b>	<b>Room 716 B Technical</b>	<b>2.37 DIGITAL WATER &amp; MODELLING – SESSION 2</b>	<b>Room 717 A Technical</b>
<p>Chair: <a href="#">Avner Adin</a>, <i>Israel</i> Co-chair: <a href="#">Hayat Raza</a>, <i>Canada</i></p> <p>Influence Of The Wastewater Quality On The Performance Of Chlorella Vulgaris, <a href="#">Hussein Znad</a>, <i>Australia</i></p> <p>Enzyme Production By Alcanivorax Borkumensis For Diesel Contaminated Water, <a href="#">Jean Viccari Pereira</a>, <i>Canada</i></p> <p>Elucidating The Role Of Feed Water Constituents In Governing The Chemical Cleaning Performance Of Aged Ultrafiltration Membranes, <a href="#">Rahul Dutta</a>, <i>Canada</i></p> <p>Comparative Evaluation Of Removal Of Cationic And Anionic Dyes Using Graphene Oxide Produced By Hummers And Couette-Taylor Flow Method, <a href="#">Chaehwi Lim</a>, <i>Republic of Korea</i></p> <p>POSTERS</p> <p>Advanced Membrane Modification Techniques To Improve The Ion Selectivity Of Nanofiltration And Ion Exchange Membranes For Developing Circularity Processing Of Urban Industrial Waste, <a href="#">Tanaz Moghadamfar</a>, <i>Spain</i></p>		<p>Chair: <a href="#">Prabhu Chandrasekeran</a>, <i>United States</i> Co-chair: <a href="#">Jiayuan Ji</a>, <i>Japan</i></p> <p>Characterizing Accumulated Sludge: A Key Factor In Understanding And Modelling Aerated Lagoons, <a href="#">Ali Reza Dehghani Tafti</a>, <i>Canada</i></p> <p>Data-driven Prediction Of N<sub>2</sub>O For Model-based Control In The Activated Sludge Process, <a href="#">Laura Hansen</a>, <i>Denmark</i></p> <p>Full-Scale Pilot Testing Of A Digital Twin Controller: The Water Research Foundation Advanced Nutrient Controller Project, <a href="#">Bruce Johnson</a>, <i>United States</i></p> <p>Enhancing Predictive Simulation And Operational Optimization Of Advanced Oxidation Processes Through Integrated Agent-based And Machine Learning Modelling, <a href="#">Bing Chen</a>, <i>Canada</i></p> <p>POSTERS</p> <p>Flow Into The Future: AI In Wastewater Treatment, <a href="#">Mohamed Zaghloul</a>, <i>Canada</i></p> <p>Benchmarking Alternative Chemical Disinfection And Process Control Strategies For Wastewater: PAA And PFA Vs Sodium Hypochlorite, <a href="#">Lomesh Tikariha</a>, <i>Canada</i></p>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>	<p>Keynote: Smart and AI-enabled PUB, <a href="#">Ong Tze-Ch'in</a>, <i>Chief Executive, PUB, Singapore's National Water Agency</i>            Panel Moderator: <a href="#">Deepa Karthykeyan</a> Panel: <a href="#">Dragan Savic</a>, <a href="#">Mike McGann</a>, <a href="#">Cecilia Wennberg</a>, <a href="#">Rosemary Campbell</a></p>	



# Monday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: <b>Resilience in practice: Avoiding planning traps</b> , <b>Paul Brown</b> , <i>President, Paul Redvers Brown Inc.</i> Panel Moderator: <b>Adam Lovell</b> Panel: <b>David LaFrance</b> , <b>Nerina Di Lorenzo</b> , <b>Peter Simpson</b> , <b>Sangeeta Chopra</b>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>4.7 NATURE BASED SOLUTIONS</b>		<b>Room 718 A Technical</b>	<b>1.22 ADVANCEMENTS IN GREAT LAKES SCIENCE FROM CANADA'S LARGEST WATER RESEARCH PROGRAM</b>
Chair: <b>Marion Savill</b> , <i>New Zealand</i> Co-chair: <b>Nancy Lilly</b> , <i>United States</i> Nature-based Solutions: Future Research Needs To Meet The Challenges Of Water Management, <b>Bénédicte Rulleau</b> , <i>France</i> Practical Synthesis And Guidance For Decision Makers On Nature-Based Solutions In North America, <b>Jennifer Ogradnick</b> , <i>USA</i> Integrated Sustainability Assessment Of Nature-based Solutions For Water Management, <b>Herman Heines</b> , <i>Norway</i> Evaluation Of Urban Constructed Wetlands Application For Enhanced Ecosystem Services, <b>Lee-Hyung Kim</b> , <i>Republic of Korea</i> POSTERS <i>Maximising The Physical, Environmental, Human, And Cultural Outcomes Of Nature-based Solutions Through Design</i> , <b>Tyler McNabb</b> , <i>New Zealand</i> <i>Documentation Of The Degradation Potential In Rain Gardens</i> , <b>Majbritt Deichgræber Lund</b> , <i>Denmark</i>		<b>Room 718 B Workshop</b> Chair: <b>Philippe Van Cappellen</b> , <i>Canada</i> Co-chair: <b>Nancy Goucher</b> , <i>Canada</i> The Laurentian Great Lakes – the largest surface fresh water system in the world – provides drinking water to 40 million residents yet evidence signals disturbing levels of degradation (e.g., eutrophication, ecosystem destruction, accelerating pollution, flooding and shoreline erosion, etc.). Water managers and policymakers struggle to effectively respond. Protecting the Great Lakes requires new advancements and innovations in water management and related policy. <b>Moderator:</b> <b>Nancy Goucher</b> , <i>Canada</i> <b>Speakers:</b> <b>Nandita Basu</b> , <i>Canada</i> ; <b>Roy Brouwer</b> , <i>Canada</i> ; <b>Juliane Mai</b> , <i>Canada</i> ; <b>Philippe Van Cappellen</b> , <i>Canada</i>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>5.11 THE WORKFORCE OF TOMORROW – SUSTAINABILITY IN ATTRACTING AND RETAINING TALENT</b>		<b>Room 718 A Workshop</b>	<b>3.1 GRAVITY DRIVEN MEMBRANE FILTRATION (GDMF) – APPLICATION TO SMALL, REMOTE AND/OR MARGINALIZED COMMUNITIES</b>
Chair: <b>Dr Nerea Uri Carreño</b> Co-chair: <b>Helle Katrine Andersen</b> , <i>Denmark</i> The purpose of this workshop is to compile global lessons learned on sustainable recruitment and employment strategies for attracting the right talent and maintaining people in the water sector. We will discuss how to create places of work that are attractive, diverse and give ample opportunity for young people to pursue their careers in the water sector as managers and specialists. Based on global cases, we will discuss recommendations for young water professionals, employers, and organizations in the water sector for sustainable recruitment strategies, and roles and responsibilities for key actors in the sector. <b>Speakers:</b> <b>Blanca Antizar</b> , <i>UK</i> ; <b>Matt Ries</b> , <i>USA</i> ; <b>Jabulile Mashwama</b> , <i>Eswatini</i> ; <b>Beverly Stinson</b> , <i>USA</i> ; <b>Elena Torf</b> , <i>Canada</i> ; <b>Inês Breda</b> , <i>Denmark</i> ; <b>Oana-Daniela Cristea</b> , <i>Denmark</i>		<b>Room 718 B Workshop</b> Chair: <b>Dr Pierre Bérubé</b> , <i>Canada</i> Co-chair: <b>Peter Desmond</b> , <i>Germany</i> The purpose of this workshop is to compile global lessons learned on sustainable recruitment and employment strategies for attracting the right talent and maintaining people in the water sector. We will discuss how to create places of work that are attractive, diverse and give ample opportunity for young people to pursue their careers in the water sector as managers and specialists. Based on global cases, we will discuss recommendations for young water professionals, employers, and organizations in the water sector for sustainable recruitment strategies, and roles and responsibilities for key actors in the sector. <b>Speakers:</b> <b>Regula Meierhofer</b> , <i>Switzerland</i> ; <b>Peter Desmond</b> , <i>Germany</i> ; <b>Marya Peter</b> , <i>Switzerland</i> ; <b>Luca Fortunato</b> , <i>Saudi Arabia</i> , <b>Pierre Bérubé</b> , <i>Canada</i>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>4.7 PRACTICAL APPLICATION OF NATURE-BASED SOLUTIONS FOR WATER UTILITIES</b>		<b>Room 718 A Workshop</b>	<b>3.2 USE OF GENETIC METHODS FOR MICROBIAL WATER QUALITY TESTING: A GLOBAL, WATER INDUSTRY-WIDE SURVEY</b>
Chair: <b>Daniel Shemie</b> , <i>USA</i> Historically, water utilities rely on grey infrastructure to address their water security challenges. However, this end-of-pipe approach is no longer sufficient to address current challenges, including to manage natural resources sustainably, restore biodiversity, and cope with climate change. Nature-based solutions (NbS) like reforestation, wetland restoration and sustainable agricultural practices can be an efficient way to complement grey infrastructure by protecting water sources, avoiding damages caused by extreme events, optimizing the design or delaying the need for major capital expenditure while reducing related O&M costs. NbS can also generate benefits for biodiversity and recreation, as well as create local green jobs. Hence, NbS can attract resources and help close the funding gap faced by many service providers. <b>Speakers:</b> <b>Peter Simpson</b> , <i>UK</i> ; <b>Sandra Andreu</b> , <i>France</i> ; <b>Mara Ramos</b> , <i>Brazil</i> ; <b>Paul Hunt</b> , <i>USA</i>		<b>Room 718 B Workshop</b> Chair: <b>Andreas Farnleitner</b> , <i>Austria</i> Co-chair: <b>Joan Rose</b> , <i>USA</i> The presented and discussed survey is a joint project by the IWA Health-Related Water Microbiology Specialist Group, the Global Water Pathogen Project (GWPP) and the Austrian Interuniversity Cooperation Centre for Water & Health (ICC Water & Health). The survey is supported by a global support team of experts. The workshop will present the survey outcomes and will invite participants to reflect on the most striking insights offered by the survey. The focus will be on how the field may / should move forward. <b>Speakers:</b> <b>Regina Sommer</b> , <i>Austria</i> ; <b>Rosina Girones</b> , <i>Spain</i> ; <b>Katalin Demeter</b> , <i>Austria</i> ; <b>Ricardo Santos</b> , <i>Portugal</i> ; <b>Kwanrawee Sirikanachana</b> , <i>Thailand</i>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: <b>Smart and AI-enabled PUB</b> , <b>Ong Tze-Ch'in</b> , <i>Chief Executive, PUB, Singapore's National Water Agency</i> Panel Moderator: <b>Deepa Karthykeyan</b> Panel: <b>Dragan Savic</b> , <b>Mike McGann</b> , <b>Cecilia Wennberg</b> , <b>Rosemary Campbell</b>			

# Monday | Programme

**Keynote Plenary**

**09:00 - 09:45**

BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
<p><b>10:30 — 11:15   REATTS</b></p> <p><b>Air Turbo &amp; Magnetic Levitation Aeration Blowers Technology, Application and Cost-saving Case Study</b></p> <p>The aeration blower is the leading power-consumption equipment in sewage treatment plants. Meanwhile, routine maintenance and overhaul cost much more than operation costs if they use traditional blowers. With the replacement of magnetic levitation or airfoil suspension turbo, up to 30% less power compared with Roots, an 8-15% power reduction, and 1/3 of lifespan cost to centrifugal can be achieved. RAETTS has implemented over 50 renovated projects and accumulated contrasted data to prove the result. We want to introduce the working principle of magnetic levitation. RAETTS will offer the 1-3 project(s) for free trial selected from the attendees.</p> <p><i>Ava Lee</i></p>	<p><b>10:30 — 11:15   XYLEM, INC.</b></p> <p><b>Overcoming the Data Deluge</b></p> <p>As utilities add digital assets to legacy technology, they also add data sources to an increasingly complex picture. Hosted by Xylem Vue powered by GoAigua, an integrated software and analytics platform created for the water industry, this session will discuss the challenges and benefits of integrating data from disconnected systems to give operators a holistic, real-time view of a utility's processes and infrastructure. Leading experts will offer insight into the value of an integrated approach including informed decision making, greater awareness and control across the water cycle, and a greater return on investment in digital solutions. Attendees will also learn from the firsthand experiences of pioneering US and European water utilities about how they are harnessing the power of data to transform how they serve their customers.</p> <p><i>Michele Samuels; Three Utility panel members</i></p>
<p><b>11:15 — 12:00   PUROXI PURE WATER GLOBAL INC.</b></p> <p><b>Ultrasonic Algae Treatment Demystified</b></p> <p>Puroxi Pure Water Global Inc. specializes in water, algae, scale, and surface purification—Ultrasonic Algae Treatment Works. It has a low impact on the ecosystems and environment and is an advanced technology that has been in use for many years. Our Ultrasonic Algae Treatment is not just effective with many cost-savings but also environmentally responsible, making it the ideal choice for those who prioritize sustainability in their purification processes.</p> <p><i>Zak Motala, President.CEO of Puroxi Pure Water Global Inc.</i></p>	<p><b>11:15 — 12:00   XYLEM, INC.</b></p> <p><b>A Movement Towards Digital Transformation Workshop</b></p> <p>This workshop will be an interactive walk-through of Xylem's Ripple Effect White Paper and help attendees better understand the practical applications of the principles explained in the paper. Working in groups, attendees will be asked to develop a plan, through a series of prompts, for how they would navigate the digital transformation of a fictional water utility company. The goal of this session is to show attendees that taking a step back early in the process of implanting digital solutions can create a far greater benefit than addressing individual challenges as they arise.</p> <p><i>Michele Samuels</i></p>
<p><b>12:15 — 13:00   GOVERNMENT OF ONTARIO</b></p> <p><b>Innovating the Future of Water Management</b></p>	<p><b>12:15 — 13:00   CANADIAN WATER AND WASTEWATER ASSOCIATION:</b></p> <p><b>Canadian Innovation</b></p> <p>As the Canada Pavilion and co-hosts, we hope to be able to feature a number of our Canadian Exhibitors in short 15 minute presentations. I would hope for one 45 min session each day for the Canada Pavilion. We are very flexible on time slots available.</p> <p><i>Each session will feature 3 presenters (15 mins each) from amongst our exhibitors in the Canada Pavilion</i></p>
<p><b>13:30 — 14:15   BUREAU OF WATERWORKS, TOKYO METROPOLITAN GOVERNMENT</b></p> <p><b>Technology in Tokyo Waterworks and Sewerage Business for future sustainability</b></p> <p>The Waterworks and Sewerage Bureau have important lifeline functions that support the lives of 14 million residents in Tokyo, providing a stable supply of safe, pure and high quality tap water 24 hours a day, 365 days a year, while also ensuring a safe and comfortable living environment and creating a good water cycle. Our technology which would be our strengths in developing future sustainable water supply and sewerage business have solved many problems revealed in our history. We can contribute to the improvement of water conditions in cities around the world by utilizing our technical and management capabilities.</p> <p><i>(Mr.) UENO Naoki, Director for International Affairs, General Affairs Division</i></p>	<p><b>13:30 — 14:15   CANADIAN WATER NETWORK</b></p> <p><b>Application of molecular and genomics technologies to monitor and protect human health</b></p> <p>To date, health risks of chemical substances have generally been characterized in isolation. Recent amendments to the Canadian Environmental Protection Act require that cumulative effects on the environment and human health are considered during risk assessments. Evaluating the cumulative risk of exposure to multiple chemicals has long been advocated, but implementation will require adoption of new assessment methodologies. Join experts Dr. Milou Dingemans of the Dutch KWR Water Research Institute and Dr. Niladri Basu of McGill University to learn about evolving chemical assessment methods that are enabling this giant leap forward in regulation and product design, internationally and in Canada.</p> <p><i>Nicola Crawhall, CEO, Canadian Water Network; Dr. Niladri Basu, Professor, Faculty of Agricultural and Environmental Sciences, McGill University; Dr. Milou Dingemans, Principal Toxicologist, KWR Water Research Institute</i></p>
<p><b>14:15 — 15:00   QINGDAO COMCORE TECHNOLOGIES CO.,LTD.</b></p> <p><b>The Symbolic AI algorithm solution</b></p> <p>Symbolic AI dynamic leakage monitoring technology adopts double optimization artificial intelligence algorithm, embedding professional knowledge in it, relying on human-like reasoning to clean and analyze the water supply network data, providing optimal placement of flow and pressure sensors, while reducing the number of sensors as much as possible, realizing accurate positioning of leakage points and establishing an intelligent leakage monitoring system. In the future use process, it can learn independently according to the changes of pipe data, constantly put forward optimization suggestions, and continue to save water and increase efficiency.</p> <p><i>Jack Yang</i></p>	<p><b>14:15 — 15:00   ZERO ENERGY WATER</b></p> <p><b>Improved performance of graphene based reverse osmosis membranes</b></p> <p>Zero Energy Water has developed a graphene-based, high-performance Sea Water Reverse Osmosis membrane that produces up to ten times more water than a traditional polyam-ide-based membrane per kilowatt of electricity used. In our session we will share the performance characteristics of our membrane, product availability and our roadmap.</p> <p><i>Raymond Williamson - President - Zero Energy Water</i></p>
<p><b>15:45 — 16:30   ROSS ENGINEERING (RSE)</b></p> <p><b>Modular Water Treatment Works in the Water Sector</b></p> <p>RSE is disrupting the water industry through modular solutions for the purification of drinking water, recycling effluent and cleaning water in industrial processes. Through lean manufacturing-based techniques RSE is leading the industry by delivering certainty and savings in time, costs, client resources, logistics and carbon footprint, whilst achieving enhanced quality of build, health, safety and well-being performance.</p> <p><i>Mark Livingston</i></p>	<p><b>15:45 — 16:30   MS FILTER SYSTEMS INC.</b></p> <p><b>Sustainable high quality treatment for Small Systems</b></p>
<p><b>16:30 — 17:15   BLACK &amp; VEATCH</b></p>	<p><b>16:30 — 17:15   DIGITAL WATER SOLUTIONS</b></p> <p><b>AI/ML - Advanced Leak Detection Technology Applied to Municipal Water Systems</b></p> <p>The use of artificial intelligence and machine learning in leak detection and pressure analysis within municipal water distribution networks. An emphasis will be on simplifying the concept of AI/ML and its application to a level that us common folk can understand and relate.</p> <p><i>Barclay Whittaker, Director of Sales</i></p>
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>

Tuesday, 13 August



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



# Tuesday | Programme

<b>Keynote Plenary</b>		<b>09:00 - 09:45</b>	
Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b> , <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a> Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a> , <a href="#">Rasha Maal-Bared</a> , <a href="#">Corinne Cheeseman</a> , <a href="#">Jennifer Molwantwa</a>			
<b>Coffee Break</b>		<b>09:45 - 10:30</b>	
<b>Session 1</b>		<b>10:30 - 12:00</b>	
<b>INDUSTRIAL WATER FORUM – SESSION 1</b> Corporate water strategy: How industry overcomes challenges when investing in water efficiency Moderator: <a href="#">Jay Stellmacher, Grundfos</a> Keynote Speaker: How industry, utility and research institutes can innovate and collaborate to overcome the Water and energy nexus, <a href="#">Seth Darling, Chief Science &amp; Technology Officer, Argonne National Lab Industry Best Practice</a> Case story from end-user: CEO Water Mandate Engagement Opportunities, <a href="#">Jason Morrison, President, Pacific Institute</a> ; <a href="#">Head, UN Global Compact CEO Water Mandate</a> Case story from consultancy: Rambøll Best practice trends in Industry with end-user challenges, <a href="#">Patrick J. Campbell</a> and <a href="#">Rene Hoeijmakers, Rambøll</a>	Room 801 A Forum	<b>2.11 CROSS SECTOR COLLABORATION ON THE CIRCULAR WATER ECONOMY: LESSONS FROM NORTH AMERICA</b> Chair: <a href="#">Aimee Killeen, USA</a> Co-chair: <a href="#">John Ikeda, USA</a> A circular water economy recycles and recovers resources within the water use and treatment cycle to maximize value for people, nature, and businesses. As the global water sector transitions to support the circular economy, sharing lessons learned, both positive and negative, is imperative. This panel of leaders will feature both aspirational plans and case studies of successes from utilities and industry. Speakers: <a href="#">Aimee Killeen, USA</a> ; <a href="#">John Ikeda, USA</a>	Room 801 B Workshop
<b>Lunch</b>		<b>12:00 - 13:30</b>	
<b>Session 2</b>		<b>13:30 - 15:00</b>	
<b>INDUSTRIAL WATER FORUM – SESSION 2</b> Corporate water strategy: How industry overcomes challenges when investing in water efficiency Moderator: <a href="#">Walter Kozlowski, Xylem</a> Regulator: How to manage challenge of PFAS and emerging contaminants, <a href="#">Mohamed Ateia Ibrahim, Environmental engineer &amp; Group Leader, USEPA</a> New information: Data-Driven Cooling Tower Optimisation: A Comprehensive Analysis of Energy Savings using Micros and Filtration, <a href="#">Alain Silverwood, Technical Director, Xylem</a> Research institute: Resource recovery from high strength wastewaters: expanding the product spectrum for a circular economy, <a href="#">Christopher Lawson, Assistant Professor, University of Toronto</a>	Room 801 A Forum	<b>UTILITY LEADERS FORUM – SESSION 1</b> Utilities working to improve the Circular Economy Chairs: <a href="#">Helle Katrine Andersen, DANVA</a> ; <a href="#">Joe Jacangelo, President, AWWA</a> The Utility Leaders Forum (ULF) is a unique opportunity for those tasked with managing utilities to exchange views, network and to access the insights of prominent water utility leaders in a setting that is by utility leaders for utility leaders. Over the course of two days, the Forum will bring together some of the world's most prominent water utility leaders with the most impactful case studies to share experiences and knowledge. Curated by an international committee of experienced utility practitioners, the forum is structured to facilitate an open and interactive dialogue around some of the most critical issues facing utilities. Active delegate participation will be key. Igniting talks: <a href="#">Bernard Koh, Assistant Chief Executive, PUB Singapore</a> , <a href="#">Dines Thornberg, Head of Development, BIOFOS Copenhagen</a> , <a href="#">Lou Gironimo, General Manager, Toronto Water, Canada</a> Panel discussion with audience facilitated by the Chairs	Room 801 B Forum
<b>Coffee Break</b>		<b>15:00 - 15:30</b>	
<b>Session 3</b>		<b>15:30 - 17:00</b>	
<b>INDUSTRIAL WATER FORUM – SESSION 3</b> Corporate water strategy: How industry overcomes challenges when investing in water efficiency Moderator: <a href="#">Eric Rosenblum, Envirosppectives</a> Panel debate featuring industry experts, researchers, and regulators Strategies to overcome long return on investment in water technologies, and ways to share responsibility and risk effectively. Panellists: <a href="#">Michael Theodoulou, Veolia</a> ; <a href="#">Seth Darling, Argonne National Lab</a> , <a href="#">Mohamed Ateia Ibrahim, USEPA</a> , <a href="#">Christopher Lawson, University of Toronto</a> and <a href="#">Michael Skovgaard, Grundfos</a>	Room 801 A Forum	<b>UTILITY LEADERS FORUM – SESSION 2</b> Building Water Security and Resilience Chair: <a href="#">Adam Lovell, ED, Water Services Association of Australia</a> ; <a href="#">Jonathan Clement, Chair ULF</a> The Utility Leaders Forum (ULF) is a unique opportunity for those tasked with managing utilities to exchange views, network and to access the insights of prominent water utility leaders in a setting that is by utility leaders for utility leaders. Over the course of two days, the Forum will bring together some of the world's most prominent water utility leaders with the most impactful case studies to share experiences and knowledge. Curated by an international committee of experienced utility practitioners, the forum is structured to facilitate an open and interactive dialogue around some of the most critical issues facing utilities. Active delegate participation will be key. Igniting talks: <a href="#">Doeke Schippers, Director CTO Vitens, Netherlands</a> ; <a href="#">John Kmiec, Managing Director, Tucson Water, USA</a> ; <a href="#">Pat McCafferty, Managing Director, Yarra Valley Water, Australia</a> Panel discussion with audience facilitated by the Chairs	Room 801 B Forum
<b>Break</b>		<b>17:00 - 17:15</b>	
<b>Keynote Plenary</b>		<b>17:15 - 18:00</b>	
Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b> , <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a> Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a> , <a href="#">Vida Dutti</a> , <a href="#">Marcel Sanches</a>			

# Tuesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b> , <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a> Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a> , <a href="#">Rasha Maal-Bared</a> , <a href="#">Corinne Cheeseman</a> , <a href="#">Jennifer Molwantwa</a>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>INTERNATIONAL WATER REGULATORS FORUM</b>	<b>Room 803 A Forum</b>	<b>4.15 ASSET MANAGEMENT OF URBAN DRAINAGE SYSTEMS</b>	<b>Room 803 B Workshop</b>
Moderator: <a href="#">Robert Bos, IWA, Switzerland</a>		Chair: <a href="#">Bert Van Duin, Canada</a>	
The 9th IWRF is developed under the title of "The Road to 2030: What Lies Ahead for Water and Sanitation Regulators", aiming to address the critical issues and explore innovative solutions that will determine the success in achieving the targets set in Sustainable Development Goal (SDG) 6 and other water and sanitation SDG targets, and that will shape the future of water and sanitation regulation.		In June 2024, IWA Publishing released the first comprehensive handbook that deals with the asset management of infrastructure dedicated to both sewage and stormwater, including blue-green infrastructure. This session provides an overview of key tenets and the state-of-the-art of urban drainage asset management (UDAM), supplemented by presentations by speakers from Canada and Europe who will share their perspective of how a risk-based approach to asset management can be practically adopted.	
<b>Harnessing the Potential of Collaborations: Exploring the Critical Interactions between Water and Sanitation Regulators and Regulated Entities in a Changing World</b> Panel Discussion and Q&A		<b>Speakers:</b> <a href="#">Frederic Cherqui, France</a> ; <a href="#">Franz Tscheikner-Gratl, Norway</a> ; <a href="#">Francois Clemens-Meyer, Norway</a>	
<a href="#">Filipe Sampaio, ANA, Brazil</a> <a href="#">Gillian Blythe, Water New Zealand, New Zealand</a>			
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>INTERNATIONAL WATER REGULATORS FORUM</b>	<b>Room 803 A Forum</b>	<b>SO.1 THE TECHNOLOGY ROADMAP FOR NET-ZERO URBAN WASTEWATER</b>	<b>Room 803 B Session</b>
Moderator: <a href="#">Batsi Majuru, RegNet-WHO, Switzerland</a>		Where are we on the road to low-carbon neutrality?	
The 9th IWRF is developed under the title of "The Road to 2030: What Lies Ahead for Water and Sanitation Regulators", aiming to address the critical issues and explore innovative solutions that will determine the success in achieving the targets set in Sustainable Development Goal (SDG) 6 and other water and sanitation SDG targets, and that will shape the future of water and sanitation regulation.		Co-chairs: <a href="#">Xiaochang Wang</a> ; <a href="#">Ana Soares</a>	
<b>Ensuring and Mobilising Sustainable Finance to Support Climate Resilient Water and Sanitation Services Around the World</b> Panel Discussion and Q&A		This session will assess the current state of technology and practices in achieving low-carbon wastewater systems. It will feature keynote presentations from experts in the field, followed by a panel discussion exploring the progress made so far and identifying remaining challenges on the path to net-zero emissions.	
<a href="#">Mara Ramos, DAAE, Brazil</a> <a href="#">Loga Sunthri Veeraiah, SPAN, Malaysia</a>		<b>Keynote Speakers:</b> <a href="#">Liu Ye, University of Queensland, Australia</a> <a href="#">Amanda Lake, Jacobs, UK</a>	
		<b>Panelists:</b> <a href="#">Jessica Akande, Canadian Water Network</a> <a href="#">David Ponder, US Water Alliance</a> <a href="#">John Willis, Brown and Caldwell</a> <a href="#">Xiaochang Wang</a>	
		<b>Facilitator:</b> <a href="#">Z. Jason Ren</a>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>INTERNATIONAL WATER REGULATORS FORUM</b>	<b>Room 803 A Forum</b>	<b>SO.2 THE TECHNOLOGY ROADMAP FOR NET-ZERO URBAN WASTEWATER</b>	<b>Room 803 B Session</b>
Moderator: <a href="#">Robert Bos, IWA, Switzerland</a>		What new technology innovations are needed to achieve the 'net-zero' goal?	
The 9th IWRF is developed under the title of "The Road to 2030: What Lies Ahead for Water and Sanitation Regulators", aiming to address the critical issues and explore innovative solutions that will determine the success in achieving the targets set in Sustainable Development Goal (SDG) 6 and other water and sanitation SDG targets, and that will shape the future of water and sanitation regulation.		Co-chairs: <a href="#">Xiaochang Wang</a> ; <a href="#">Ana Soares</a>	
<b>Unlocking New Opportunities for Innovation, Resilience and Efficiency in Water and Sanitation Regulation</b> Panel Discussion and Q&A		This session will focus on identifying and discussing innovative technologies that can drive the wastewater sector towards net-zero emissions. Keynote speakers will highlight emerging technologies and approaches, while the panel discussion will delve into the specific innovations needed to overcome current barriers and accelerate progress towards a low-carbon future.	
<a href="#">Yvonne Magawa, ESAWAS, Zambia</a> <a href="#">Lauseani Santoni, ANA, Brazil</a>		<b>Keynote Speakers:</b> <a href="#">Z. Jason Ren, Princeton University, USA</a> <a href="#">Charles Bott, Hampton Roads Sanitation District, USA</a>	
		<b>Panelists:</b> <a href="#">Mark Philbrick, US Department of Energy</a>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b> , <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a> Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a> , <a href="#">Vida Dutti</a> , <a href="#">Marcel Sanches</a>			

# Tuesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b> , <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a> Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a> , <a href="#">Rasha Maal-Bared</a> , <a href="#">Corinne Cheeseman</a> , <a href="#">Jennifer Molwantwa</a>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>6.3 WHAT THE WATER INDUSTRY CAN LEARN FROM THE INDIGENOUS PERSPECTIVE</b>	<b>Room 701 A Workshop</b>	<b>1.14 BECOMING A NET ZERO UTILITY</b>	<b>Room 701 B Technical</b>
Chair: <a href="#">Liudmyla Odud, Ukraine</a> Co-chair: <a href="#">Titilola Bright-Oridami, Nigeria</a>  Water is a basic need for different forms of life in all communities. It plays a significant role for economic, environmental and cultural purposes. Difficulties associated with living in challenging environments contributed to indigenous cultural and spiritual perspectives that reflect the importance of water for the survival of all life on earth. Indigenous peoples' knowledge and practices are often very different from water management approaches in the modern world, which tend to focus on technical measurements, and water's value as a commodity. A deeper understanding of the value and importance of water is necessary in order for the water industries to deal adequately with its current challenges in relation to water quality, water quantity, and climate change.  <b>Speakers:</b> <a href="#">Dawn Martin-Hill, Canada</a> ; <a href="#">Bradley Moggridge, Kamilaroi, Australia</a> ; <a href="#">Dave Archambault, USA</a> ; <a href="#">Douglas Aitken, Chile</a> ; <a href="#">Leticia Lisseth Tituaña Picuasi, Ecuador</a>		Chair: <a href="#">Carla Pimentel-Rodrigues, Portugal</a> Co-chair: <a href="#">Xorse Doe-Bansah, Ghana</a>  Greening The Water Industry: Pidpa's Path To Sustainable Drinking Water Provision, <a href="#">David Geysen, Belgium</a>  Be Ambitious - Net-Zero GHG Roadmap For Durham Region's Water And Wastewater Systems, <a href="#">Emma Shen, Canada</a>  Navigating Uncertainty And Circular Economy Drivers In Wastewater Using An Adaptive Pathways Approach, <a href="#">Ryan Brotchie, Canada</a>  Establishing A Standard Carbon Balance For Drinking Water Utilities: A Key Initiative In Addressing Water Leakages, <a href="#">Alexis de Kerchove, Sweden</a>  POSTERS <i>Fugitive Methane Emissions At A Water Resource Recovery Facility: Preliminary Results From A Top-Down Bottom-Up Field Campaign</i> , <a href="#">Embrey Bronstad, USA</a>  <i>Estimation Of CO<sub>2</sub> Reduction Potentials -Development Of An Estimation Tool And Assessment Of The Water Purification System Using It-Development Of An Estimation Tool And Assessment Of The Water Purification System Using It-</i> , <a href="#">Ikuma Hayakawa, Japan</a>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>5.3 WATER IS A HUMAN RIGHT: LABOUR MOVEMENTS ROLE IN ADDRESSING THE INDIGENOUS WATER CRISIS</b>	<b>Room 701 A Workshop</b>	<b>1.18 SUSTAINABLE APPROACHES TO ASSET MANAGEMENT</b>	<b>Room 701 B Technical</b>
Chair: <a href="#">Krista Maracle, Canada</a> Co-chair: <a href="#">Paige Malcolm, Canada</a>  Identify and understand the Indigenous water crisis in Canada and how it impacts the labour movement. Will learn ways in which the Labour movement can become a partner in the fight for clean safe drinking water for all.  <b>Speakers:</b> <a href="#">OPSEU, Layla Staats, Turtle Island</a> ; <a href="#">Chris Koptie, Turtle Island</a> ; <a href="#">Jordyn Playne, Metis Nation of Ontario</a>		Chair: <a href="#">Helena Alegre, Portugal</a> Co-chair: <a href="#">Bowen Xu, Canada</a>  Towards Sustainable Wastewater Facilities: Embracing The Cradle To Cradle (c2c) Principle For Wastewater Buildings, <a href="#">Jan Ruppelt, Germany</a>  Strategy For Restructuring Water Treatment Plants Against To Coming Aging Society, <a href="#">Hiroshi Yamamura, Japan</a>  Carbon Footprint In Water Infrastructure Projects – Where Are The Potential Savings, Methodology For Defining Them And Experience From Implementing Them, <a href="#">Jenny Aström, Sweden</a>  Climate Resilient Utility – Low Carbon, High Water Quality Through Modular Off Site Build Of Ceramic Membrane Plants, <a href="#">Clement Pierart, Netherlands</a>  POSTERS <i>Carbon Footprint Reduction Through Advanced Imaging And Wastewater Tank Cleaning</i> , <a href="#">Megan Ross, United States</a>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>5.9 WASTEWATER SURVEILLANCE TO ENSURE SUSTAINABLE, INCLUSIVE AND EQUAL ACCESS TO PUBLIC HEALTH AND RESOURCE RECOVERY: SMALL PIECES, BIG PICTURE</b>	<b>Room 701 A Workshop</b>	<b>1.10 DEVELOPING THE MARKETS FOR A CIRCULAR ECONOMY: A BOX SPRINT</b>	<b>Room 701 B Workshop</b>
Chair: <a href="#">Cresten Mansfeldt, USA</a> Co-chair: <a href="#">Rasha Maal-Bared, Canada</a> ; <a href="#">Mark Knight, Canada</a>  Session Description:The chair will provide opening comments (8 min). Presenters will each take 7 minutes to provide insight into the topics identified in the learning objectives using clear and concise case studies (7 min x 4 = 28 min), followed by 12 minutes of questions and answers. The audience will then be presented with a list of questions to discuss at their table for 20 minutes and report out on for the next 12 minutes (32 min). Each table will have a facilitator, note taker, and giant flippad. The chair and Co-Chair:: will provide summation and take home messages (10 minutes, 3 min each).  <b>Speakers:</b> <a href="#">Miriam Hacker, USA</a> ; <a href="#">Carol Martinson, USA</a> ; <a href="#">Mark Knight, Canada</a> ; <a href="#">Lola Olabode, USA</a>		Chair: <a href="#">David Millar, Scotland</a> Co-chair: <a href="#">Ania Escudero, Scotland</a>  The development of resource recovered products from water sector processes can be challenging. There is a need to work through appropriate regulatory routes and work with others to develop markets and products. To date although some circular economy products have been developed it is often a slow and arduous process. This session will present international examples of circular economy products e.g.: 1. Grit recovery - development of a commercial product and how end of waste criteria was achieved. 2. Heat recovery – development of district heating networks from wastewater.  <b>Speakers:</b> <a href="#">David Millar, Scotland</a> ; <a href="#">Ania Escudero, Scotland</a>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b> , <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a> Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a> , <a href="#">Vida Dutti</a> , <a href="#">Marcel Sanches</a>			

# Tuesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b>, <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a>            Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a>, <a href="#">Rasha Maal-Bared</a>, <a href="#">Corinne Cheeseman</a>, <a href="#">Jennifer Molwantwa</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.21 ADVANCED OXIDATION PROCESSES - SESSION 1</b>	<b>Room 703 Technical</b>	<b>1.16 UTILITY RESPONSES AND ADAPTATION TO CLIMATE CHANGE IMPACTS</b>	<b>Room 705 Technical</b>
<p>Chair: <a href="#">Satinder Kaur Brar, Canada</a> Co-chair: <a href="#">Jacob Amengor, Ghana</a></p> <p>Tandem PEC Device With Perovskite And Phosphorene As The Electrode Materials For Hydrogen Evolution And Ciprofloxacin Photodegradation From Wastewater, <a href="#">Tzu-Heng Wang, Chinese Taipei</a></p> <p>A Novel Chloride And Persulfate Oxidation Pathway: Enhancement Of Urea Oxidation In Ultrapure Water Production, <a href="#">Taegeun Park, Republic of Korea</a></p> <p>Unraveling The Reaction Characteristics Of Widespread Organic Pollutants In Micro-polluted Surface Water Based On Pilot UV/H<sub>2</sub>O<sub>2</sub> System From Compound To Molecular Level, <a href="#">Wenjun Sun, China</a></p> <p>Green And Risk-free Disinfection Of Real Sewage: Using Magnetically Recyclable TiO<sub>2</sub> based Photocatalyst Driven By Solar Energy, <a href="#">Irene Lo, China</a></p>		<p>Chair: <a href="#">Peter Dane, Netherlands</a> Co-chair: <a href="#">Yang Villa, Philippines</a></p> <p>A Natural Solution To A Complex Delta Issue: The Climate Buffer For Ecological And Climate-resilient Drinking Water Provision, <a href="#">Koen Zuurbier, Netherlands</a></p> <p>The Effects Of Climate Change: Are The Water Systems Ready?, <a href="#">Shakhawat Chowdhury, Saudi Arabia</a></p> <p>Papakura Water Treatment Plant: A Phoenix Rises, <a href="#">Chris Aspinall, Australia</a></p> <p>Water Use Amidst The Climate Crisis: Challenges In Delivering Basic Sanitation Services - A Case Study Of Rio De Janeiro, Brazil, <a href="#">Natália Rodrigues Costa Flecher, Brazil</a></p> <p>POSTERS</p> <p><i>Strategic Planning To Adress Climate Change Impacts On Wastewater Infrastructures From Águas Do Tejo Atlântico</i>, <a href="#">Rita Lourinho, Portugal</a></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>2.22 ADVANCED OXIDATION PROCESSES - SESSION 2</b>	<b>Room 703 Technical</b>	<b>1.21 TOWARDS INCREASED RESILIENCE AND BETTER GOVERNANCE FOR URBAN WATER</b>	<b>Room 705 Workshop</b>
<p>Chair: <a href="#">Jiangyong Hu, Singapore</a> Co-chair: <a href="#">Patrick D'Amout, Canada</a></p> <p>Combined Ozonation And Granular Activated Carbon In Pilot Plant Scale For The Removal Of Organic Micropollutants In Municipal Wastewater Treatment Effluent In Germany, <a href="#">Linda Müller, Germany</a></p> <p>Ozonation For Micropollutant Treatment: Best Practices And Key Learnings From Switzerland And Europe, <a href="#">Amanda Murillo, Switzerland</a></p> <p>Tuning The Selectivity Of Catalytic Ozonation Towards Wastewater Purification By Atomically Dispersed Fe Catalysts, <a href="#">Xiaoyuan Zhang, China</a></p> <p>Comparison Of Different Advanced Oxidation Processes For Marine Oily Wastewater Treatment, <a href="#">Guihua Dong, Canada</a></p>		<p>Chair: <a href="#">Marie Whaley, UK</a>            Co-chair: <a href="#">Helle Katrine Andersen, Denmark</a></p> <p>In this workshop will look into topics such as: - Stakeholder engagement and participation - The need for cooperation in partnerships - How to get the support needed from senior policy- and decision-makers - How to connect cities to basins to make sure we handle water where it is most optimal - Experiences with aligning technical solutions with multiple benefits and outcomes. There is increasing global experience on these topics and we aim to present experience and discuss lessons to be shared globally, in particular related to governance models.</p> <p><b>Speakers:</b> <a href="#">Helena Alegre, Portugal</a>; <a href="#">Brian Hansen, Denmark</a>; <a href="#">Kevin Tudhope, Canada</a>; <a href="#">Pat Mc Cafferty, Australia</a>; <a href="#">Matthew Whaley, UK</a>; <a href="#">Ching Thoo a/I Kim, Malaysia</a>; <a href="#">Marie Whaley</a>; <a href="#">Helle Katrine Andersen</a>; <a href="#">Adam Lovell</a>; <a href="#">Robin Price</a>; <a href="#">Norhayati Abdullah</a>; <a href="#">Jacob Amengor</a></p>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>2.23 ADVANCED OXIDATION PROCESSES - SESSION 3</b>	<b>Room 703 Technical</b>	<b>2.1 CONTAMINANTS OF EMERGING CONCERN IN A CHANGING CLIMATE: INNOVATIVE STRATEGIES FOR SUSTAINABLE MANAGEMENT</b>	<b>Room 705 Workshop</b>
<p>Chair: <a href="#">Abidelfatah Nasser, Israel</a> Co-chair: <a href="#">Xiaoyuan Zhang, China</a></p> <p>Sustainable Strategies For PFAS Contamination: Regeneration And Electrochemical Processes For Ion-Exchange Resin Management, <a href="#">Fateme Asadi Zeidabadi, Canada</a></p> <p>Viral Inactivation In UV ClO<sub>2</sub> Advanced Oxidation Treatment: A More Energy Efficient Alternative To UV H<sub>2</sub>O<sub>2</sub> Treatment, <a href="#">Aleksandra Szczuka, United States</a></p> <p>Removal Of PPCPs In Hospital Wastewater Through Advanced Oxidation Processes, <a href="#">Gen-Shuh Wang, Chinese Taipei</a></p> <p>Optimisation Of Advanced Oxidation reduction Processes In View Of Micro-pollutant Removal From (waste) Water With Different (natural) Organic Matter Content, <a href="#">Stijn Van Hulle, Belgium</a></p> <p>POSTERS</p> <p><i>Efficient Persulfate Activation By Photo-excited Organic Dyes: Mechanism And Application For Actual Dyeing Wastewater Self-purification</i>, <a href="#">Xue Bai, China</a></p>		<p>Chair: <a href="#">Satinder Kaur Brar, Canada</a>            Co-chair: <a href="#">Harsha Ratnaweera, Norway</a></p> <p>The purpose of this session is to empower broader stakeholder groups with knowledge of the climate change impact on the fate of contaminants of emerging concern (CECs) and their complex formation and to discuss innovative strategies for managing CECs in the context of climate change. The participants will share and gain insights into innovative approaches, technologies, and policy considerations related to CEC management. We hope attendees will leave with a renewed commitment to addressing CEC challenges, armed with practical ideas and the inspiration to adapt and apply these solutions in their own contexts including vulnerable communities.</p> <p><b>Speakers:</b> <a href="#">Shirley Anne Smyth, ECCC</a>; <a href="#">Charles De Lannoy, Canada</a>; <a href="#">Rama Pulicharla, USA</a>; <a href="#">Harsha Ratnaweera, Norway</a>; <a href="#">Satinder Kaur Brar, Canada</a></p>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>	<p>Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b>, <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a>            Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a>, <a href="#">Vida Dutti</a>, <a href="#">Marcel Sanches</a></p>	

# Tuesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b>, <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a>            Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a>, <a href="#">Rasha Maal-Bared</a>, <a href="#">Corinne Cheeseman</a>, <a href="#">Jennifer Molwantwa</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>1.2 REAL WORLD DIGITAL TWIN APPLICATIONS</b>	<b>Room 707 Technical</b>	<b>1.8 INNOVATIONS IN POLLUTANT MANAGEMENT</b>	<b>Room 709 Technical</b>
<p>Chair: <a href="#">Zheng Yi Wu, United States</a> Co-chair: <a href="#">Leo Huan</a></p> <p>Creating Value With Digital Twins: Case Studies And Real World Examples, <a href="#">Diana Tao, Canada</a></p> <p>Evergreen Digital Twin As Paradigm Shift For Smart Water Grid Operational Management, <a href="#">Zheng Wu, United States</a></p> <p>Flexible Digital Twin Platform Supporting Water Utility Digital Transformation -- Zhangjiagang As Case Study, <a href="#">Michael Yu, Canada</a></p> <p>An Online Receiving Environment Digital Twin Supporting Whole Of Catchment Planning In Brisbane, Australia, <a href="#">Méven Huilban, Canada</a></p> <p>POSTERS</p> <p>A Building Information Modelling (BIM) And Common Data Environment (CDE) Pilot For Toronto Water Capital Projects And Asset Management, <a href="#">Alonso Hurtado, Canada</a></p>		<p>Chair: <a href="#">Michael Storey, Australia</a> Co-chair: <a href="#">Ishi Keenum, United States</a></p> <p>Characterization Of Snow Deposits And Development Of Passive Methods Of Meltwater Desalination, <a href="#">Rachida Hamidou, Canada</a></p> <p>Assessment Of Hydrodynamic Separators As Stormwater Treatment Option, <a href="#">Moritz Gesterding, Germany</a></p> <p>Use Of Atmospheric Dissolved Air Flotation (DAF) In Removal Of Surfactants, <a href="#">Elnaz Zehtab Lotfi, Iran</a></p> <p>GAC Reactors Optimization For Micropollutants Removal In Wastewater Reuse, <a href="#">Mathieu DELAHAYE, France</a></p> <p>POSTERS</p> <p>Demonstration Plant For Post-treatment Options For Ozonation In Tertiary Municipal Wastewater Treatment, <a href="#">Regina Gnirss, Germany</a></p> <p>Purification Of Phenolic Compounds From Segmenter Mandarin Wastewater By Ultrafiltration And Nanofiltration, <a href="#">Pablo Alonso Vázquez, Spain</a></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>1.1 HOW TO GO DIGITAL AS A WATER UTILITY - SESSION 1</b>	<b>Room 707 Technical</b>	<b>1.20 SEWER OVERFLOW MANAGEMENT</b>	<b>Room 709 Technical</b>
<p>Chair: <a href="#">Dragan Savic, Netherlands</a> Co-chair: <a href="#">Ricardo Ferreira, Portugal</a></p> <p>Louisville MSD's Data Driven Digital Transformation Journey Over 20 Years, <a href="#">Diana Tao, Canada</a></p> <p>Radar Data Applied – Optimizing Decision-making In Planning, Operations And Customer Service In Aalborg Utility, <a href="#">Katrine Møller, Denmark</a></p> <p>Cinter – A Human-centric Data Management Platform For The Water Sector, <a href="#">Ingemar Clementson, Sweden</a></p> <p>Valuing Data – Adopting Transformative Digital Solutions For The Water Sector, <a href="#">Janelcy Alferes, Belgium</a></p> <p>POSTERS</p> <p>Mechanistic And Data-driven Models: From Confusion To Synergies And Opportunities, <a href="#">Audenaert Wim, Belgium</a></p> <p>Seven Steps Towards Digitalizing Sludge Management, <a href="#">Puja Doshi, Germany</a></p>		<p>Chair: <a href="#">Jo Burgess, South Africa</a> Co-chair: <a href="#">Will Dubin, Canada</a></p> <p>Designing An Effective Stormwater Treatment System: A Case Study In South East Queensland Using PCSWMM And MUSIC Tools, <a href="#">Xuli Meng, Australia</a></p> <p>Managing Smart For The Future: How Toronto Water Is Reducing CSOs With Phased Implementation Through Digital And Automation Technology, <a href="#">Jane Zou, Canada</a></p> <p>Prediction Of Combined Sewer Overflows Using A Data Driven Solution And Machine Learning Approach, <a href="#">Reza Pourmoayed, Denmark</a></p> <p>Willow Trunk Feasibility Assessment And Design – A Watershed-wide Solution For CSO Reduction With The Use Of InfoWorks ICM Modelling, <a href="#">Angela Steward, Canada</a></p> <p>POSTERS</p> <p>Pysewer: A Simple Tool For Sewer Network Generation In Data-scarce Regions, <a href="#">Daneish Despot, Germany</a></p> <p>Formation And Dynamics Of Sewer Blockages Caused By Snagging Of Wet Wipes, <a href="#">Katayoun Kargar, Canada</a></p>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>1.1 META-DATA COLLECTION AND ORGANIZATION: WHAT, WHEN, AND WHY?</b>	<b>Room 707 Workshop</b>	<b>1.20 TORONTO SPONGE CITY WORKSHOP</b>	<b>Room 709 Workshop</b>
<p>Chair: <a href="#">Kris Villez, USA</a>            Co-chair: <a href="#">Emily Zegers, Canada</a></p> <p>2 Meta-data describes data by means of (a) the way are produced and modified, (b) the quality of the data (e.g., accuracy), and (c) contextual information describing the circumstances in which data was produced. With up-to-date and comprehensive meta-data, raw sensor signals can be turned into actionable information. Water utilities small and large are intensifying data collection for plant monitoring, operation, automation, and upgrade planning. Today, data are collected and stored in an ad hoc fashion.</p> <p>Speakers: <a href="#">Kris Villez, USA</a>; <a href="#">Emily Zegers, Canada</a>; <a href="#">Leiv Rieger, Canada</a>; <a href="#">Janelcy Alferes, Belgium</a></p>		<p>Chair: <a href="#">Charles Ormsby, Canada</a>            Co-chair: <a href="#">Anishia Patel, Canada</a></p> <p>This session will build on the successful format we adopted at a similar charrette during COP15 in which we gathered a diverse range of individuals to provide unique and varied perspectives on the built environment and quality of urban life – reimagining our cities as healthy, safe, inclusive spaces rich with nature. The outcomes of this session will be strengthened by the diversity of the participants such that together we may explore means of achieving outcomes that equitably build community resilience.</p> <p>Speakers: <a href="#">Kris Villez, USA</a>; <a href="#">Emily Zegers, Canada</a>; <a href="#">Leiv Rieger, Canada</a>; <a href="#">Janelcy Alferes, Belgium</a></p>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b>, <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a>            Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a>, <a href="#">Vida Dutti</a>, <a href="#">Marcel Sanches</a></p>			



# Tuesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b>, <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a>          Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a>, <a href="#">Rasha Maal-Bared</a>, <a href="#">Corinne Cheeseman</a>, <a href="#">Jennifer Molwantwa</a></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>2.31 CONTAMINANTS OF EMERGING CONCERN IN WASTEWATER</b></p> <p>Chair: <a href="#">Bing Chen, Canada</a> Co-chair: <a href="#">Mohammad Noor Tamim, Canada</a></p> <p>Regeneration Of Magnetic Powdered Activated Carbon For The Removal Of Organic Pollutants From Secondary Wastewater Effluents, <a href="#">Heidrun Steinmetz, Germany</a></p> <p>Evaluation Of WWTP Impact On A Recipient Regarding Emerging Contaminants And The Motivation For Advanced Treatment To Achieve EQS, <a href="#">Aleksandra Lazic, Sweden</a></p> <p>Application Of Granulated Mineral-based Materials To Remove Organic Contamination From Wastewater, <a href="#">Agnieszka Solinska, Poland</a></p> <p>Removal Of Contaminants Of Emerging Concern-CECs- Using an Environmental-friendly Approach, <a href="#">Sara Cunha, Portugal</a></p> <p>POSTERS</p> <p><i>Continuous Filtration For The Removal Of Micropollutants By Biologically Granular Activated Carbon (Bio-GAC)</i>, <a href="#">Lennert Dockx, Belgium</a></p>		Room 711 Technical	<p><b>3.3 POTABLE REUSE TECHNOLOGIES</b></p> <p>Chair: <a href="#">Josef Lahnsteiner, Austria</a> Co-chair: <a href="#">Muhammad Anique Azam, Pakistan</a></p> <p>Quantification Of Carbon Emissions In Reverse Osmosis And Carbon-Based Potable Reuse Treatment Configurations, <a href="#">Brett Wagner, USA</a></p> <p>Social Perceptions And Legitimacy Of Potable Water Reuse, <a href="#">Heather Smith, UK</a></p> <p>How A Partnership Between Physicians And Utilities To Promote Potable Water Reuse In Silicon Valley Launched A National Initiative, <a href="#">Eric Rosenblum, USA</a></p> <p>An Overview Of Phased Inline Coagulation Pretreatment For Low-Pressure Membranes, <a href="#">Joseph Ladouceur, Canada</a></p> <p>POSTERS</p> <p><i>Clean Waters Ahead: Harnessing Salinity Fluctuations To Prevent Biofilm Formation In Reverse Osmosis Membranes</i>, <a href="#">Jan Poulsen, Denmark</a></p> <p><i>Adoption Of Nature-Based Solutions For Sewage Treatment: Quantifying Environmental Benefits From A Life-cycle Perspective</i>, <a href="#">Shweta Lokhande, India</a></p>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>3.4 OCCURRENCE AND REMOVAL OF EMERGING CONTAMINANTS - SESSION 1</b></p> <p>Chair: <a href="#">Pabel Cervantes, Mexico</a> Co-chair: <a href="#">Yiqi Cao, Canada</a></p> <p>Advanced Models For Advanced Treatment: Smart Process Selection, Design And Operation, <a href="#">Pieter Vlasschaert, Belgium</a></p> <p>Nature-based Solutions For Controlling Organic Micropollutants In Urban Waters, <a href="#">Pedro Carvalho, Denmark</a></p> <p>Nanofiltration Removes Organic Micropollutants And Enhances Biostability Of Drinking Water Produced From Surface Water, <a href="#">Rinnert Schurer, Netherlands</a></p> <p>Accelerating UV Advanced Oxidation Using 222 Nm KrCl* Excimer Lamps, <a href="#">Karl Linden, USA</a></p> <p>POSTERS</p> <p><i>Ozone And Biologically Activated Filter For Potable Water Reuse Treatment: Design, Performance &amp; Case Studies</i>, <a href="#">Adriano Vieira, United States</a></p> <p><i>Advancements In Achieving Disinfection-free Drinking Water Treatment Plants: A Case Study From Pidpa, Belgium</i>, <a href="#">Koen Joris, Belgium</a></p>		Room 711 Technical	<p><b>3.7 IN-PREMISES WATER QUALITY (HOUSE/BUILDING PLUMBING, MICROBIAL WATER QUALITY)</b></p> <p>Chair: <a href="#">Nirajan Dhakal, Netherlands</a> Co-chair: <a href="#">Emily Garner, United States</a></p> <p>Interplay Of Nitrification, Temperature, And Chloramine Decay Affect Opportunistic Pathogen Growth In Premise Plumbing, <a href="#">Darel Snead, USA</a></p> <p>Legionella Pneumophila: Hidden In Plain Water, <a href="#">Atheesha Singh, South Africa</a></p> <p>Knowledge Gaps To Predict Legionella Within Building Water Systems, <a href="#">Catalina Ortiz, Canada</a></p> <p>Novel Control Of Legionella Pneumophila In Premise Plumbing Through Probiotics And Nutrient Limitation, <a href="#">Madeline Deck, USA</a></p> <p>POSTERS</p> <p><i>Insulation As An Economical And Effective Means Of Limiting Legionella Growth In Water Heaters</i>, <a href="#">Fernando Roman Jr, United States</a></p> <p><i>Drinking Water And Meeting Canada's Housing Shortage</i>, <a href="#">Aaron Atcheson, Canada</a></p>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
			<p><b>3.15 WATER QUALITY STANDARDS, REGULATIONS AND ECONOMICS</b></p> <p>Chair: <a href="#">Markus Starkl, Austria</a> Co-chair: <a href="#">Wesley Barbosa, Brazil</a></p> <p>Cyanobacterial Bloom Management: Technology Performance &amp; Optimisation Assessments, <a href="#">Arash Zamyadi, Australia</a></p> <p>Severe Wildfire In Fort McMurray, Canada: A Legacy Of Threats To Water Quality And Treatability, <a href="#">Monica Emelko, Canada</a></p> <p>Maximising The Value Of Smart Metering. The Case Of Canal De Isabel II, <a href="#">Jaiver Fernandez, Spain</a></p> <p>Effects of UV-C irradiation on cellular metabolisms and precursors of disinfection by-products during algal growth, <a href="#">Sidik Fahrudin, Taiwan</a></p> <p>POSTERS</p> <p><i>Olympics For Sensors - Results Of Online Water Quality Monitoring Devices Testing</i>, <a href="#">Patryk Wójtowicz, Finland</a></p> <p><i>Determining Impact Of Artisanal &amp; Small-scale Mining On Drinking Water Quality By Investigating Heavy Metal Concentration Variations From Source Water To Tap Water</i>, <a href="#">Jacob Amengor, Canada</a></p>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b>, <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a>          Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a>, <a href="#">Vida Dutti</a>, <a href="#">Marcel Sanches</a></p>			

# Tuesday | Programme

<b>Keynote Plenary</b>		<b>09:00 - 09:45</b>	
Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b> , <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a> Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a> , <a href="#">Rasha Maal-Bared</a> , <a href="#">Corinne Cheeseman</a> , <a href="#">Jennifer Molwantwa</a>			
<b>Coffee Break</b>		<b>09:45 - 10:30</b>	
<b>Session 1</b>		<b>10:30 - 12:00</b>	
<b>3.14 EMERGING CONTAMINANTS/PATHOGENS AND ANTIBIOTIC RESISTANT BACTERIA/RESISTANCE GENES</b>		Room 714 Technical	<b>2.11 MEMBRANE REACTORS</b>
<b>Chair:</b> <a href="#">Naresh Singhal, New Zealand</a> <b>Co-chair:</b> <a href="#">Sudipti Arora, India</a> Unveiling E. Coli: A Looming Crisis Of Resistance, <a href="#">Zakkirah Delair, South Africa</a> Characterization Of The Resistome Throughout A Ozone Biologically-Active Carbon Filtration Based Treatment Train Intended For Indirect Potable Reuse, <a href="#">Matthew Blair, USA</a> Prophage Induction By Environmental Pollutants Promotes Transformation Of Released Antibiotic Resistance Genes From Cell Lysis, <a href="#">Ji Lu, Australia</a> Stream Contamination With Emerging Pathogens And Antibiotic Resistance From Point And Non-point Pollution Sources, <a href="#">Abidelfatah Nasser, Israel</a> POSTERS South Africa's Recreational Waterscape: Analysing The Potential Risks And Impact On Public Health In The Gauteng Province, <a href="#">Zakkirah Delair, South Africa</a> Characterization of Antibiotic Resistance Genes in Drinking Water Sources of the Douhe Reservoir, Tangshan, Northern China: The Correlation with Bacterial Communities and Environmental Factors, <a href="#">Sheng Chang, China</a>			<b>Chair:</b> <a href="#">Bing Tang, China</a> <b>Co-chair:</b> <a href="#">Syed Salman Ali Shah, China</a> Optimizing Air Scouring Energy For Sustainable Membrane Bioreactor Operation By Characterizing The Combination Of Factors Leading To Critical Flux, <a href="#">Changyoon Jun, United States</a> Improving MBR Performance Through Continuous Flow Densification At The City Of Detroit Lakes, <a href="#">Chris Shaw, Canada</a> Influence Of Size And Spatial Distribution And Air Bubbles Around Ceramic Flat-Sheet Membrane Module On Fouling Mitigation, <a href="#">Hiroshi Nagaoka, Japan</a> Oxygen Transfer In MBR Before And After Densification, <a href="#">Diego Rosso, USA</a> POSTERS Control Of Micro(nano)plastics In Wastewater By Innovative Living Membrane Bioreactors, <a href="#">Vincenzo Naddeo, Italy</a>
<b>Lunch</b>		<b>12:00 - 13:30</b>	
<b>Session 2</b>		<b>13:30 - 15:00</b>	
<b>2.12 MICROBIAL ECOLOGY</b>		Room 714 Technical	<b>2.14 WATER RECLAMATION FOR NON-POTABLE REUSE (PLANNING)</b>
<b>Chair:</b> <a href="#">Adrian Oehmen, Australia</a> <b>Co-chair:</b> <a href="#">Gaurav Bhardwaj, Canada</a> The Structure And Composition Of Shower Hoses Biofilm Revealed By Multi-omics, <a href="#">Gang Liu, China</a> Characterizing Microbial Communities Across Ozone-Biofiltration Operations, <a href="#">Kara Cunningham, United States</a> Potential Pathogen Exposure By Determining Microbial Ecology In An Amazonian Indigenous Tribe's Drinking Water, <a href="#">Caroline Reed, United States</a> Interrogating The Effects Of Operating Conditions On Microbial Community Structure And Function Related To Simultaneous Nitrogen And Phosphorus Removal From Wastewater, <a href="#">Catherine Hoar, United States</a> POSTERS Identification And Environmental Behavior Of Bacteria-Associated Enteric Viruses In Wastewater, <a href="#">Xiaonan Tang, USA</a>			<b>Chair:</b> <a href="#">Melissa Meecker, United States</a> <b>Co-chair:</b> <a href="#">Krithika Iyer Shivakumar, India</a> Power-to-X As A Driving Force For Effluent Water Reuse In Denmark, <a href="#">Patrick Campbell, Denmark</a> The Impact Of Informal Settlement Expansion On Greywater Generation: A Potential Missed Opportunity?, <a href="#">Wihann Van Reenen, South Africa</a> Boosting Water Reuse: Comparing Alternative Water-smart Solutions For Two Italian Water Resource Recovery Facilities, <a href="#">Giorgio Mannina, Italy</a>
<b>Coffee Break</b>		<b>15:00 - 15:30</b>	
<b>Session 3</b>		<b>15:30 - 17:00</b>	
<b>6.10 CIRCULAR ECONOMY INITIATIVES AND APPROACHES</b>		Room 714 Technical	<b>2.13 WATER RECLAMATION FOR NON-POTABLE REUSE (TECHNOLOGY)</b>
<b>Chair:</b> <a href="#">Ka Leung Lam, China</a> <b>Co-chair:</b> <a href="#">Alonso Hurtado, Canada</a> Addressing Circularity Assessment Boundary Challenges Through A Novel Classification Of Wastewater Resources, <a href="#">David Renfrew, UK</a> Assessing Indicators Of Circularity Of Wastewater Treatment Systems, <a href="#">Caroline Samberger, UK</a> Activated Carbon From Hydrothermal Carbonization And Chemical Activation Of Corn Fiber And Its Performance In Contaminant Adsorption Using Rapid Small-Scale Column Testing, <a href="#">Mitchell Ubene, Canada</a> Hydrogen Economy Based Treatment Of Manufactured Water, <a href="#">Arash Zamyadi, Australia</a> POSTERS Global Sanitation Transformation: Bridging Circular Economy And Climate Resilience, <a href="#">Sumeet Pawar, Netherlands</a> Urban Water Consumption – Prioritizing Reduce Strategy From Circular Economy Framework, <a href="#">Nikita Kakwani, India</a>			<b>Chair:</b> <a href="#">Katsuki Kimura, Japan</a> <b>Co-chair:</b> <a href="#">Amin Minaei, Austria</a> Expanding The Application Of Reclaimed Water In Non Potable Activities Within A Domestic Household, <a href="#">Sayani Halder, Japan</a> Nutrient Water Recovery From Anaerobic Effluent Through The Integration Of Electrodialysis (ED) With Forward Osmosis (FO): Process Optimization And Configuration Improvement, <a href="#">Xue Jin, United States</a> Industrial Water Reuse - A Key Element Of Circular Economy In The City Of Chennai, India, <a href="#">Josef Lahnsteiner, Austria</a> Enhanced Capacitive Removal Of Cr(VI) Using Functionalized Vanadium Aluminum Carbide And Biochar As The Asymmetric Electrode Materials, <a href="#">Tse-Wei Tung, Chinese Taipei</a>
<b>Break</b>		<b>17:00 - 17:15</b>	
<b>Keynote Plenary</b>		<b>17:15 - 18:00</b>	
Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b> , <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a> Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a> , <a href="#">Vida Dutti</a> , <a href="#">Marcel Sanches</a>			

# Tuesday | Programme

<b>Keynote Plenary</b>		<b>09:00 - 09:45</b>	
Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b> , <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a> Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a> , <a href="#">Rasha Maal-Bared</a> , <a href="#">Corinne Cheeseman</a> , <a href="#">Jennifer Molwantwa</a>			
<b>Coffee Break</b>		<b>09:45 - 10:30</b>	
<b>Session 1</b>		<b>10:30 - 12:00</b>	
<p><b>2.38 DECENTRALISED TREATMENT AND NON-SEWERED SANITATION</b></p> <p>Chair: <a href="#">Pedro Carvalho, Denmark</a> Co-chair: <a href="#">Abishek Sankara Narayan, Switzerland</a></p> <p>Realizing The Beneficial Integration Of Upstream Non-sewered Sanitation (NSS) Implementation On Downstream Sewered Wastewater Treatment Through A Process Modeling Approach, <a href="#">Kartik Chandran, United States</a></p> <p>Seasonal Performance Dynamics For Subsurface Treatment Wetlands In Cold Climates, <a href="#">Erik Groenenberg, Canada</a></p> <p>Greenhouse Gas Emissions And Climate Adaptation Of Non-Sewer Sanitation: A Case Study Of Solar Septic Tank And Conventional Septic Tank, <a href="#">Tatchai Pussayanavin, Thailand</a></p> <p>Advanced Insights Into Biodegradation And Greenhouse Gas Dynamics In Non-Sewered Sanitation Systems, <a href="#">Caetano Dorea, Canada</a></p> <p><b>POSTERS</b></p> <p><i>Investigating Greenhouse Gases (GHGs) Emissions From Non-sewered Sanitation Systems And Climate Change Mitigation In Dhenkanal, India</i>, <a href="#">Shirish Singh, Netherlands</a></p> <p><i>An Urgent Call For Using Real Human Urine In Research On Developing Decentralised Sanitation Technologies</i>, <a href="#">Caitlin Courtney, Sweden</a></p>	Room 715 B Technical	<p><b>6.6 ESTABLISHING SUCCESSFUL MARKETS TO CLOSE THE CIRCULAR ECONOMY LOOP FOR PRODUCTS FROM WATER RESOURCE RECOVERY FACILITIES</b></p> <p>Co-chairs: <a href="#">Sangeeta Chopra, Canada</a>; <a href="#">Caroline Samberger, Europe</a>; <a href="#">Arthur Umble, USA</a>; <a href="#">Jeff Peeters</a></p> <p>1. Concentrating materials (nutrients, carbon, metals, energy) for efficient recovery. 2. Sorting and separating recovered materials. 3. Converting/re-manufacturing recovered materials into a product that has potential economic value 4. Value-marketing products to off-take market (wholesale, retail, institutional). Step 4 relies on identifying specific market endpoints. Without markets in place, the circularity loop is compromised and the implementation of CE is greatly weakened. Furthermore, regulatory challenges from various areas (supply chain, manufacturing, water/waste management, etc.) as well as stakeholder pushback and social perception can create barriers to closing the loop.</p> <p><b>Speakers:</b> <a href="#">Sangeeta Chopra, Canada</a></p>	Room 716 A Workshop
<b>Lunch</b>		<b>12:00 - 13:30</b>	
<b>Session 2</b>		<b>13:30 - 15:00</b>	
<p><b>5.5 WASH AND COMMUNITY-SCALE WATER MANAGEMENT - SESSION 1</b></p> <p>Chair: <a href="#">Lina Taing, Canada</a> Co-chair: <a href="#">Matthew MacRorie, United Kingdom</a></p> <p>Community Resilience In The Face Of Climate Challenges: A Study Of Water Resource Diversification In Indonesia's Flood-Prone Urban Informal Settlements, <a href="#">Wika Maulany Fatimah, Netherlands</a></p> <p>Stakeholder Perceptions On Best Available Technologies For Decentralised Wastewater Management In India, <a href="#">Markus Starkl, Austria</a></p> <p>From Insight To Impact: A Ground-Up Approach For Strengthening Decentralized Water Technology Adoption And Regulation, <a href="#">Nitish Ranjan Sarker, Canada</a></p> <p>Application Of The Behaviour Change Communication Adoption Stairways To Influence Knowledge, Attitude And Practices (KAP) Towards WASH In Two Local Government Areas In Nigerian States, <a href="#">Jane Adizue, Nigeria</a></p> <p><b>POSTERS</b></p> <p><i>Perceptions And Awareness Of Climate Change Impacts On Water Resources In A Rural Community In Limpopo, South Africa</i>, <a href="#">Lee-Ann Modley, South Africa</a></p> <p><i>Our Water, Together (Documentary Film)</i>, <a href="#">Karl Zimmermann, Canada</a></p>	Room 715 B Technical	<p><b>6.4 HOW CAN LAURENTIAN GREAT LAKES YOUTH-INCLUSIVE WATERSHED GOVERNANCE IMPROVE COLLABORATION?</b></p> <p>Chair: <a href="#">Laina Timber, Canada</a> Co-chair: <a href="#">Lauren Lawson, Canada</a></p> <p>This session will show how an adapted version of the Blue Peace Index methodology can be used on transboundary watersheds to educate youth and young professionals and encourage enhanced collaboration amongst nations. The session will take an adapted version of the Blue Peace Index (BPI) methodology and allow workshop participants to practice using the methodology to learn more about collaboration between Great Lakes nations. No prior experience in the Laurentian Great Lakes basin is required. The workshop results will be used to frame subsequent youth and young professional driven work accessible by workshop attendees within the NAYPW's Young Professionals program. The NAYPW Young Professionals program focuses on transboundary basins to provide recommendations for nations from a youth and young professional perspective that will promote water as an opportunity for enhancing peace globally.</p> <p><b>Speakers:</b> <a href="#">Laina Timber, Canada</a>; <a href="#">Lauren Lawson, Canada</a></p>	Room 716 A Workshop
<b>Coffee Break</b>		<b>15:00 - 15:30</b>	
<b>Session 3</b>		<b>15:30 - 17:00</b>	
<p><b>5.7 WASH AND COMMUNITY-SCALE WATER MANAGEMENT - SESSION 2</b></p> <p>Chair: <a href="#">Abdul Majeed Osman, Ghana</a> Co-chair: <a href="#">Ananya Mohanty, Canada</a></p> <p>Community AIRP For Combating Arsenic Contamination In Remote Rural Char Areas Of Bangladesh, <a href="#">Md Azizur Rahman, Bangladesh</a></p> <p>Easing Access To Safe Water With Nature-based Solution In Hard-to-reach Areas Of Bangladesh, <a href="#">Md Tahmidul Islam, Bangladesh</a></p> <p>A Quantitative And Qualitative Analysis Of Public Level Knowledge, Awareness, Behaviour And Perceptions Of Domestic Water Use In The City Of Durban, South Africa, <a href="#">Ismail Banoo, South Africa</a></p> <p>Tools For Water Partnerships: Lessons For Community-led Water Management, <a href="#">Karl Zimmermann, Canada</a></p> <p><b>POSTERS</b></p> <p><i>Sustainable Achievement In WASH Implementations In Lunugala Division Of Sri Lanka Through Context Specific Sustainable Community Approach</i>, <a href="#">Sarath Kumara, Sri Lanka</a></p> <p><i>Improvement Of The Quality Of Water Used In The Pulping Of Açai (Euterpe Oleracea) In The Municipality Of Mazagão-AP, Brazil</i>, <a href="#">Alba Lemos, Brazil</a></p>	Room 715 B Technical	<p><b>6.1 SUSTAINABLE USE OF GROUNDWATER RESOURCES</b></p> <p>Chair: <a href="#">Ruud Bartholomeus, Netherlands</a> Co-chair: <a href="#">Shafick Adams, South Africa</a></p> <p>The availability of sufficient and sufficiently clean water is under increasing pressure. Anthropogenic water use increases while climate change leads to prolonged dry periods. Worldwide more and more attention is being paid to the overexploitation of groundwater, groundwater pollution, and the effects this has on the natural environment and society, and the liveability of areas. In a more sustainable use of the groundwater system, a new balance needs to be found between extracting and using the water and replenishing the system, while ensuring good water quality.</p> <p><b>Speakers:</b> <a href="#">Ruud Bartholomeus, Netherlands</a>; <a href="#">Paul Nwulu</a>; <a href="#">Shafick Adams</a>; <a href="#">Mehul Patel</a>; <a href="#">Koën Zuurbier</a></p>	Room 716 A Workshop
<b>Break</b>		<b>17:00 - 17:15</b>	
<b>Keynote Plenary</b>		<b>17:15 - 18:00</b>	
Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b> , <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a> Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a> , <a href="#">Vida Dutti</a> , <a href="#">Marcel Sanchez</a>			

# Tuesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b> , <a href="#">Prof. Amy Pruden, Virginia Tech, USA</a> Panel Moderator: <a href="#">Peter Grevatt</a> Panellists: <a href="#">Ralph Erik Exton</a> , <a href="#">Rasha Maal-Bared</a> , <a href="#">Corinne Cheeseman</a> , <a href="#">Jennifer Molwantwa</a>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.4 GREENHOUSE GAS EMISSIONS AND MITIGATION</b>	<b>Room 716 B Technical</b>	<b>4.3 RESPONSE TO FLOOD AND SEA LEVEL RISE</b>	<b>Room 717 A Technical</b>
Chair: <a href="#">Yongmei Li, China</a> Co-chair: <a href="#">Frances Okoye</a> Reducing CO <sub>2</sub> Emissions By Catalytic Treatment Of N <sub>2</sub> O, <a href="#">Jeanette Madsen, Denmark</a> Enhanced Nitrogen Removal And Mitigated N <sub>2</sub> O Emission By Algal-Bacterial Consortium, <a href="#">Lai Peng, China</a> N <sub>2</sub> O Control – Complete Control And Documented Effect, <a href="#">Mikkel Stokholm-Bjerregaard, Denmark</a> Basic Study On Operation Planning System Towards Carbon Neutrality Of A Sewage Treatment Plant, <a href="#">Toshiki Fukushima, Japan</a> POSTERS <i>Unveiling N<sub>2</sub>O Emissions In A Pilot Hybrid Membrane-Aerated Biofilm Reactor (MABR) System</i> , <a href="#">Ziping Wu, Australia</a> <i>Next-generation Technology - In-situ Reuse Of Dissolved Methane To Support Nitrogen Removal In Anaerobically Treated Mainstream Wastewater</i> , <a href="#">Jianhua Guo, Australia</a>		Chair: <a href="#">John Riddiford, Australia</a> Co-chair: <a href="#">Marina Macedo, Brazil</a> ISEA - Operational Platform For Forecasting And Decision Support For Undue Coastal Occurrences, <a href="#">Nuno Pimentel, Portugal</a> The Advantage Of 2D Modelling Downtown Toronto To Alleviate Basement And Surface Flooding, <a href="#">Philip Gray, Canada</a> Modelling Of Flood Protection Facilities On A Highly Urbanised Area In São Paulo Metropolitan Region – Brazil, <a href="#">Debora Santos, Brazil</a> Planning For Sea Level Rise - Understanding Of Future Challenges, <a href="#">Oeystein Rapp, Norway</a> POSTERS <i>Multiple Overland Flow Paths To Enhance 1 D-1D Flooding Modelling Of Compound Road Corridor</i> , <a href="#">Julian Li, Canada</a> <i>Critical Analysis To Evaluate Uncertainty Of The Regional Scale Key Climate Data Depending On Bias And Strategic Location Of The Meteorological Stations</i> , <a href="#">Md Monirul Islam, Canada</a>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>2.27 FOOD WASTE BIOSOLIDS MANAGEMENT &amp; REUSE - SESSION 1</b>	<b>Room 716 B Technical</b>	<b>4.8 WATER SENSITIVE URBAN DESIGN</b>	<b>Room 717 A Technical</b>
Chair: <a href="#">Kwok-Wai Tsang, United States</a> Co-chair: <a href="#">Andrea Carranza, Sweden</a> Halton Region's Journey To Develop The First Biosolids Composting Program In Ontario, <a href="#">Jared Philpott, Canada</a> Potential For Co-disposal And Treatment Of Food Waste With Wastewater: A Case Study For South Africa, <a href="#">Shalongo Angula, South Africa</a> Dewaterability Enhanced For Anaerobically Digested Food Waste Through Fe(II)-activated Persulfate Oxidation In Filter-press System, <a href="#">Sujin Lee, Republic of Korea</a> Aerobic Granular Sludge For Sustainability, <a href="#">Paula Dorn, United States</a> POSTERS <i>Improving Dewaterability Of Digested Food Waste Sludge By Microwave-activated Persulfate Oxidation</i> , <a href="#">Sujin Lee, Republic of Korea</a> <i>A Comprehensive Evaluation Of Chemical Conditioning For Anaerobic Digestate Post-Treatment</i> , <a href="#">Umme Sharmeen Hyder, Canada</a>		Chair: <a href="#">Florian Kretschmer, Austria</a> Co-chair: <a href="#">Mendy Shoji, South Africa</a> Smart Blue Roof Implementation Project, <a href="#">James Cowan, Canada</a> Co-designing Water-sensitive Suburbs Through Blue-green Infrastructure Planning By Research, Municipality, And Housing Association Partners, <a href="#">Jan Fiesen, Germany</a> Creating A Water Sensitive City Strategy For Fishermans Bend Urban Renewal Area In Melbourne, Australia, <a href="#">Ryan Brothie, Canada</a> Development Of Agro-Industrial Biofilters For Urban Stormwater Runoff Reduction And Diffuse Pollution Mitigation, <a href="#">Lee-Hyung Kim, Philippines</a> POSTERS <i>Understanding Adoption And Performance Of Rainwater Harvesting Systems Using Sensors: A Pilot Study</i> , <a href="#">Eren Rudy, Canada</a> <i>Generation Of Planning Scenarios For Stormwater Management In European Cities</i> , <a href="#">Maria Chiara Lippera, Germany</a>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>2.32 PHARMACEUTICALS IN WASTEWATER</b>	<b>Room 716 B Technical</b>	<b>4.4 ADVANCES IN RAINFALL AND STORMWATER MANAGEMENT</b>	<b>Room 717 A Technical</b>
Chair: <a href="#">Amy Pruden, United States</a> Co-chair: <a href="#">Koji Matsunaga, Japan</a> An Innovative And Energy-efficient Radio Frequency Pretreatment For Anaerobic Sludge Digestion To Boost The Removal Of Antimicrobials, <a href="#">Gokce Kor Bicakci, Turkey</a> Designing Tools To Optimize Community-based Wastewater Remediation Of Pharmaceutical Contaminants, <a href="#">Vanessa Maybruck, United States</a> Cobalt-magnetite Pine Bark Bionanocomposites For Antibiotic Degradation By Activating Peroxymonosulfate In Aqueous Solution, <a href="#">Tiina Leiviskä, Finland</a> The Interaction Between Disposable Face Masks And Polybrominated Diphenyl Ethers, <a href="#">Xing Song, Canada</a>		Chair: <a href="#">Bu Lam, Canada</a> Co-chair: <a href="#">Chiara Lucia Tregnago, Italy</a> Splitting Rainfall For Sewer Modelling, An Innovative Method Solving Problems Out Of Box, <a href="#">Li Julian, Canada</a> Runoff Coefficient And Rainfall Estimates From Opportunistic Flow Measurements And Weather Radar, <a href="#">Janni Mosekær Nielsen, Denmark</a> Revolutionizing Control Systems: Unleashing The Power Of Real-time Adaptive Control (RTAC) In Stormwater Management, <a href="#">Xuli Meng, Australia</a> Rodney Cook Sr. Park In Historic Vine City – From Flooded Brownfield To Innovative Stormwater Solution, <a href="#">Julie Stein, United States</a> POSTERS <i>Forecasting Future Groundwater Levels Under Select Climate scenarios In Saskatchewan</i> , <a href="#">Ahmed Okasa, Canada</a> <i>Source Water Protection In Quebec City: Using An Integrated 3D Hydrological Model To Investigate Groundwater Pathways And Travel Times</i> , <a href="#">Benjamin Frot, Canada</a>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b> , <a href="#">Batsirai Majuru, Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</a> Panel Moderator: <a href="#">Yvonne Magawa</a> Panellists: <a href="#">Silvana Romero</a> , <a href="#">Vida Dutti</a> , <a href="#">Marcel Sanchez</a>			

# Tuesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: <b>The water sector and the slow pandemic of antimicrobial resistance</b> , <b>Prof. Amy Pruden</b> , <i>Virginia Tech, USA</i> Panel Moderator: <b>Peter Grevatt</b> Panellists: <b>Ralph Erik Exton</b> , <b>Rasha Maal-Bared</b> , <b>Corinne Cheeseman</b> , <b>Jennifer Molwantwa</b>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>4.1 INCLUSIVE RESEARCH – THE ROLE OF SCIENCE TO ACCELERATE WATER ACTION IN THE GLOBAL SOUTH</b>	<b>Room 718 A Workshop</b>	<b>5.6 MISSION-DRIVEN INNOVATION FOR SYSTEMIC TRANSFORMATION OF WATER MANAGEMENT</b>	<b>Room 718 B Workshop</b>
Chair: <b>Lee-Ann Modley</b> , <i>South Africa</i> ; Co-chair: <b>Ines Breda</b> , <i>Denmark</i> ; <b>Jacob Amengor</b> , <i>Ghana</i>  This workshop aims to accelerate inclusive research by seeking a cultural fit between the scope of the research and the researcher. Ideally, research should include the entire 5-helix understanding (academia, industry, governance, citizen, and environment). Currently, there needs to be more access to facilities or methodologies that could support local researchers to drive solutions for their communities. For that reason, Global North has been leading research for Global South which retracts its ownership and cultural understanding of the local 5-helix dynamic. Further, unfitting research meets high obstacles in implementation.  <b>Speakers:</b> <b>Tao Li</b> , <i>IWA</i> , <b>Pabel Cervantes</b> , <i>Mexico</i> ; <b>Dr Jennifer Balatedi Molwantwa</b> , <i>South Africa</i> ; <b>Ikechukwu Okuzu</b> , <i>Nigeria</i>		Chair: <b>Magnus Arnell</b> , <i>Sweden</i>  In Sweden, one of the largest initiatives ever undertaken to drive system innovation for transformation of water management is now being started (Mars 2024). The innovation programme named Water for Vital Environments (WAVE) with the mission "Sustainable Water for All by 2050" is including water from source to seacoast or for people & societies, business & industries and nature & biodiversity.  <b>Speakers:</b> <b>Will Sarni</b> , <i>USA</i> ; <b>Tony Wong</b> , <i>Australia</i> ; <b>Trine Stausgaard Munk</b> , <i>Denmark</i>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>4.4 WATER SECURITY FOR FUTURE GENERATIONS</b>	<b>Room 718 A Workshop</b>	<b>3.3 UV LIGHT: PROTECTING PUBLIC HEALTH AROUND THE WORLD</b>	<b>Room 718 B Workshop</b>
Chair: <b>Jan Hofman</b> , <i>UK</i> Co-chair: <b>Blanza Antizar</b> , <i>UK</i>  In this session we will develop a World Café with different round tables discussing different aspects of Water Security: 1 Water Security at different scales 2 The use of assessment frameworks for water security 3 Water security and equality and inclusivity 4 The influence of the energy transition on water security 5 Water security and economic development, 6 Water security and innovation 7 Water governance, 8 Capacity building across generations The outcome of these tables will be summarized in a policy brief containing a roadmap for achieving Water Security.  <b>Speakers:</b> <b>Chad Staddon</b> , <i>UK</i> ; <b>Juliana Marçal</b> , <i>UK/Brazil</i> ; <b>Berta Macheve</b> , <i>World Bank</i> ; <b>Alex Godoy</b> , <i>Chile</i> ; <b>Yang Villa</b> , <i>Philippines</i> ; <b>Oriana Romano</b> , <i>France</i> ; <b>Inès Breda</b> , <i>Denmark</i>		Chair: <b>Karl Linden</b> , <i>USA</i> Co-chair: <b>Todd Elliott</b> , <i>USA</i> ; <b>Natalie Hull</b> , <i>USA</i> ; <b>Phyllis Posy</b> , <i>Israel</i>  This session has been developed by the International UV Association (IUVA) Educational Committee to disseminate information to the IWA member community about new and traditional UV solutions and UV disinfection technologies that can improve health and sanitation (SDG 6) cost-effectively.  <b>Speakers:</b> <b>Karl Linden</b> , <i>USA</i> ; <b>Todd Elliot</b> , <i>USA</i> ; <b>Erin Mackey</b> , <i>USA</i> ; <b>Roberta Hofman</b> , <i>Netherlands</i> ; <b>Hadas Mamane</b> , <i>Israel</i> ; <b>Natalie Hull</b> , <i>USA</i> ; <b>Phyllis Posy</b> , <i>Israel</i> ; <b>Karlye Wong</b> , <i>Canada</i> ; <b>Castine Bernardy</b> , <i>USA</i> ; <b>Ted Mao</b> , <i>IUVA</i> .	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>5.8 REDESIGNING MENTORSHIP FOR CROSS-GENERATIONAL (#CROSSGEN) COLLABORATIONS</b>	<b>Room 718 A Workshop</b>	<b>3.4 POSITIONING WATER SCARCITY AT CENTRE OF CLIMATE CHANGE</b>	<b>Room 718 B Workshop</b>
Chair: <b>Chelsea Hayward</b> , <i>Australia</i> Co-chair: <b>Yang Villa</b> , <i>Philippines</i>  This session will launch the IWA mentorship program which aims to make IWA the gold standard for #crossgen collaboration in the water sector. In IWA, mentoring relationships have been sporadic and there has been limited YWP involvement in programmes and decision-making under the guidance of senior members. There is an opportunity to generate more mentoring relationships not only to upskill YWPs but also to further embed them into IWA's various working unit.  <b>Speakers:</b> <b>Chelsea Hayward</b> , <i>Australia</i> ; <b>Mr Yang Villa</b> , <i>Philippines</i> ; <b>Tom Mollenkopf OR Kala Vairavamoorthy</b> , <i>IWA</i> ; <b>Dr. Andre Taylor</b> , <i>Australia</i> ; <b>Dr. Sudipti Arora</b> , <i>India</i> ; <b>Ulrike Kelm</b> , <i>France</i>		Chair: <b>Christian Juul</b> , <i>Denmark</i> Co-chair: <b>Ikechukwu Okuzu</b> , <i>Nigeria</i>  In many parts of the world fresh water access is effectively a privilege rather than a right. With this workshop we wish to contribute to the advancement of water access through improvement to water consumption. We aim to do this by equipping our workshop participants, from across the water sector, with solid communication strategies for educating major water consumers and distributors on proper water utilization. How are these to be identified, which messages do we need to get through and how do we communicate this? The workshop speakers will set the scene for the challenges at hand and provide insights about effective communication strategies.  <b>Speakers:</b> <b>Johnathon Sheets</b> , <i>USA</i> ; <b>Ananda Tiwar</b> , <i>Finland</i> ; <b>Dan Gerrity</b> , <i>USA</i> ; <b>Miriam Hacker</b> , <i>USA</i> ; <b>Cresten Mansfeldt</b> , <i>USA</i> ; <b>Alex Chik</b> , <i>Canada</i> ; <b>Rasha Maal-Bared</b> , <i>Canada</i> ; <b>Scott Bessle</b> , <i>USA</i> ; <b>Suzana Bohrerova</b> , <i>USA</i> ; <b>Vanessa Maybruck</b> , <i>USA</i>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: <b>Taps and toilets in the time of change: A new era for water and sanitation regulation</b> , <b>Batsirai Majuru</b> , <i>Technical Officer, Water, Sanitation, Hygiene and Health Unit, WHO</i> Panel Moderator: <b>Yvonne Magawa</b> Panellists: <b>Silvana Romero</b> , <b>Vida Dutti</b> , <b>Marcel Sanches</b>			

# Tuesday | Programme

Keynote Plenary

09:00 - 09:45

BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
<p><b>10:30 — 11:15   GRUNDFOS</b></p> <p><b>Empowering Water Futures: Are Public Private Partnerships the answer?</b> Public Private Partnerships (PPPs) play a pivotal role in facilitating water access in developing nations, particularly in rural areas. In this context, PPPs offer a promising avenue to enhance small-town water systems. Drawing from Grundfos' expertise and insights summarised in a Hilton Foundation-commissioned feasibility study, this session will dive into the opportunities and challenges for PPPs. The session will concentrate on strategies for constructing partnerships to ensure sustained impact and advance the water access agenda, while acknowledging the risks associated with small-town water schemes.</p> <p><i>Anise Sacranie</i></p>	<p><b>10:30 — 11:15   ITRON</b></p> <p><b>Enhancing Water Utility Data Management with Temetra</b> Water utilities face rising challenges from climate, aging infrastructure and limited resources. Learn how utilities of every size are using their data management platform to mitigate these challenges by harnessing the power of the data they collect. Itron solutions revolutionize water utility management, seamlessly integrating diverse metering devices compatible with AMR/AMI networks. Supporting multi-vendor, multi-commodity, Temetra ensures flexible and efficient data collection. Discover how Temetra is the optimal choice regardless of your data collection journey to deliver actionable insights for achieving business outcomes.</p> <p><i>Sheila Kee, Sr Product Manager</i></p>
<p><b>11:15 — 12:00   XYLEM, INC.</b></p> <p><b>Net Zero: The Race We All Win</b> Reducing the water sector's greenhouse gas (GHG) footprint is essential to delivering the world's decarbonization agenda. Lowering GHG emissions will also lessen the impact of climate change over time, alleviating the sector's adaptation burden. Innovative water utilities are showing that GHG emissions are a solvable problem and that data-driven approaches can drive meaningful progress, whatever the operational circumstances. Their experiences provide a blueprint for decarbonization. This session focuses on the experiences of water utilities as they have implemented their own decarbonization plans by setting realistic targets, optimizing existing assets, prioritizing capital planning, and planning for the future.</p> <p><i>Adam Ryder, Stephanie Smith and guest speakers</i></p>	<p><b>11:15 — 12:00   UK PAVILION</b></p> <p><b>UK Innovations Driving Climate Adaptation in Water and Wastewater Management</b> This UK business forum session hosted by British Water at the IWA WWCE 2024 will spotlight UK innovations and capabilities in water and wastewater management. Industry leaders from GHD, Water Research Centre (WRC), RSE, and Capgemini-UK will discuss how their organisations are actively employing innovative approaches and cutting-edge technologies to improve water and wastewater management, meet Net Zero targets, and ensure climate adaptation in the UK water sector and globally.</p> <p><i>John Hensman, UK Market Leader – Water GHD; Stephen Slessor, Chief Executive Officer RSE; Martin Crawford, Global Client Partner UK Water Sector Capgemini UK; Simon Ayley, Director of Strategic Growth Partnerships Water Research Centre (WRC)</i></p>
<p><b>12:15 — 13:00   ADVANCED DRAINAGE SYSTEMS</b></p> <p><b>Creating resilient and sustainable communities through water management solutions</b> Water is the world's most precious resource. As an industry leader, we are committed to protecting and managing water by providing sustainable water management solutions that safeguard the environment and build resilient communities. In this forum, we'll discuss the everchanging patterns of our climate, and how as an industry leader in water management, we're committed to helping prevent floods, recharging aquifers, improving food security, and mitigating the risk of water scarcity, ensuring resilient and sustainable communities. We do this as one of the largest plastic recycling companies in North America, creating a circular economy and reducing our carbon footprint.</p> <p><i>Brian King, EVP of Marketing, Sustainability and Product Management at Advanced Drainage Systems</i></p>	<p><b>12:15 — 13:00   VERIFIGLOBAL AND CSA GROUP</b></p> <p><b>Market adoption of water technology solutions across multiple sectors</b> This Panel Discussion will focus on the importance of stakeholder engagement, standardization, and technology performance verification in facilitating market adoption of water-related technology-based solutions across multiple sectors. The Panel will provide a broad perspective on how this approach is particularly relevant to innovative technology providers, early adopters, investors and enablers.</p> <p><i>Thomas Bruun, ETA-Danmark / VerifiGlob-al Michael Leering, CSA Group, Environment &amp; Business Excellence Selection of two other panelists to be confirmed John Neate, VerifiGlobal (Moderator) Co-Managing Director, VerifiGlobal, Canada</i></p>
<p><b>13:30 — 14:15   IPEX INC.</b></p> <p><b>Vortex Flow – The magical drop structure insert that dissipates energy and suppresses odors</b> Discover the innovative Vortex Flow, a drop structure insert designed to revolutionize sanitary and storm drops. This cutting-edge solution dissipates energy efficiently and suppresses odors in sanitary drop structures, all without any moving parts or maintenance requirements. Our Sales Engineer, Alex Sandovski, will be presenting this ground-breaking technology. With his expertise, he'll guide you through the benefits and applications of Vortex Flow, demonstrating how it stands to transform the industry. Don't miss this opportunity to learn about this game-changing technology. Join us for an informative session on Vortex Flow.</p> <p><i>Alex Sandovski – Sales Engineer, Municipal for IPEX Inc.</i></p>	<p><b>13:30 — 14:15   STELIS ENVIRONMENTAL SOLUTIONS</b></p> <p><b>Revolutionizing Water Safety: Introducing ColiMinder for Rapid Pathogen Detection</b> <i>Dr. Saad Jasim, Director of Science and Technology</i></p>
<p><b>14:15 — 15:00   GOVERNMENT OF ONTARIO</b></p> <p><b>Safeguarding Our Water: Cybersecurity Strategies for Protecting Critical Infrastructure</b> <i>Diego Ramirez, Manager, Cyber Intelligence Center (CIC) at Stratejm, a Bell Company</i></p>	<p><b>14:15 — 15:00   HETEK SOLUTIONS INC.</b></p> <p><b>Distribution Network Monitoring using Acoustic Loggers</b> As water scarcity becomes increasingly critical, municipalities seek effective ways to minimize water losses. Acoustic loggers actively survey pipelines, detecting leaks by analyzing sound waves. Unlike traditional methods, acoustic loggers provide several advantages: Data Variety: They capture sound frequency and leak probability warnings. Consistent Data Delivery: Information is relayed consistently without interpretation. Easy Sharing: Sound files can be effortlessly shared. Zero Marginal Cost: Data acquisition is cost-effective. Remote Analysis: Data can be collected and analyzed remotely. By integrating acoustic loggers into water loss management strategies, municipalities can proactively identify and repair leaks in an affordable and efficient manner.</p> <p><i>Ashwin Mohan, P.Eng, Manager and Project Engineer</i></p>
<p><b>15:45 — 16:30   NETHERLANDS PAVILION: AQUATECH, HYDRALOOP, WATER4ALL</b></p> <p><b>Aquatech, Hydraloop, Water4All</b> Aquatech: World of Aquatech Hydraloop: Blueprint for a Circular Water Smart City Water4All: Water4All, an EU Research &amp; Innovation partnership developing solutions for future water challenges Government of the Netherlands Vision from the Netherlands.</p> <p><i>Walter van der Schoot, Sr. Sales Consultant Aquatech Global Events; Melissa Lubitz B.Sc., CET, Director Business Development North America; Melissa Lubitz B.Sc., CET, Director Business Development North America; Meike van Ginneken</i></p>	<p><b>15:45 — 16:30   QMC METERING SOLUTIONS</b></p> <p><b>How Wireless Water Metering and IoT Solutions Reduce Water Loss in the Built Environment</b> Innovations in wireless communications are rapidly being integrated into the utility metering industry for residential, commercial, and industrial applications. New cellular technologies like LTE-M and long range radio systems like LoRaWAN are enabling water meters to be remotely monitored at very low costs. This enables commercial, institutional and residential property managers to meter suites, buildings and factories efficiently, and to meter applications that were previously not cost effective. The systems are also increasing the amount of interval data available to utilities, properties and consumers, which is advantageous for utility use reduction, energy management, leak detection.</p> <p><i>Mike Easton</i></p>
<p><b>16:30 — 17:15   BEIJING DRAINAGE GROUP CO. LTD.</b></p> <p><b>Planning and Practice of Low-Carbon Development Plan of Beijing Drainage Group Co. Ltd.</b> Water In response to the goal of achieving carbon peak by 2030 and carbon neutral by 2060, Beijing Drainage Group CO.,LTD BDG is leading the low-carbon and green energy revolution with innovation and practicing. As an emission peak &amp; carbon neutrality leader in wastewater treatment industry, BDG will achieve carbon neutrality ahead of schedule. In June 2021, To clarify the timetable and pathway of carbon neutrality, BDG released the "Beijing Drainage Group Carbon Neutrality Plan", which is the first enterprise-level carbon neutrality report in China's wastewater treatment industry.</p>	<p><b>16:30 — 17:15   CANADIAN WATER AND WASTEWATER ASSOCIATION</b></p> <p>As the Canada Pavilion and co-hosts, we hope to be able to feature a number of our Canadian Exhibitors in short 15 minute presentations. I would hope for one 45 min session each day for the Canada Pavilion. We are very flexible on time slots available. Each session will feature 3 presenters (15 mins each) from amongst our exhibitors in the Canada Pavilion</p>

Keynote Plenary

17:15 - 18:00

Wednesday, 14 August



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



# Wednesday | Programme

<b>Keynote Plenary</b>		<b>09:00 - 09:45</b>	
Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a> , <i>Global Director, Water Global Practice, World Bank Group</i> Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a> , <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i>			
<b>Coffee Break</b>		<b>09:45 - 10:30</b>	
<b>Session 1</b>		<b>10:30 - 12:00</b>	
<b>EMERGING WATER LEADERS FORUM – SESSION 1</b> The 6th Emerging Water Leaders Forum (EWL Forum) will emphasise the pivotal contributions of both young and seasoned professionals in this digital era. These discussions will centre on how to effectively integrate AI and digital solutions into traditional water management practices to meet present and future water challenges, and how Young Water Professionals (YWPs) can play a major role in this process. In addition, the Forum will create an open platform for YWPs to connect globally and share professional experiences.  <b>Opening, Welcome, Chapter of the Year, Chapter Updates &amp; Keynote</b>		Room 801 A <b>Forum</b>	<b>4.9: TRANSFORMING SOUTHERN CALIFORNIA: THE ONE WATER METAMORPHOSIS</b>  <b>Chair:</b> <a href="#">Paul Brown</a> , <i>USA</i> <b>Co-chair:</b> <a href="#">Zakir Hiran</a> , <i>USA</i>  Roundtable summit of decision-makers and industry professionals to discuss one of the world's largest implementations of One Water concepts in an urban megacity.  <b>Speakers:</b> <a href="#">Shane Trussell</a> , <i>USA</i> ; <a href="#">Douglas Owen</a> , <i>USA</i> ; <a href="#">Heather Collins</a> , <i>USA</i> ; <a href="#">John Bednarski</a> , <i>USA</i> ; <a href="#">David Pettijohn</a> , <i>USA</i> ; <a href="#">Shivaji Deshmukh</a> , <i>USA</i>
<b>Lunch</b>		<b>12:00 - 13:30</b>	
<b>Session 2</b>		<b>13:30 - 15:00</b>	
<b>EMERGING WATER LEADERS FORUM – SESSION 2</b> The 6th Emerging Water Leaders Forum (EWL Forum) will emphasise the pivotal contributions of both young and seasoned professionals in this digital era. These discussions will centre on how to effectively integrate AI and digital solutions into traditional water management practices to meet present and future water challenges, and how Young Water Professionals (YWPs) can play a major role in this process. In addition, the Forum will create an open platform for YWPs to connect globally and share professional experiences.  <b>Is digitalisation creating career opportunities for YWP? if so, how?</b>  <b>Panel Discussion:</b> <a href="#">Jackie Fortin Flefil</a> , <i>Xylem, United States</i> ; <a href="#">Marina Batalini de Macedo</a> , <i>IWA Digital Water Steering Committee/IWA &amp; Grundfos Youth Fellow, Brazil</i> ; <a href="#">Krisztian Mark Balla</a> , <i>Grundfos/IWA &amp; Grundfos Youth Fellow, Denmark</i> ; <a href="#">Clifford Braimah</a> , <i>Ghana Water Limited, Ghana</i> ; <a href="#">Paul Chuo</a> , <i>Stantec, Chinese Taipei</i>		Room 801 A <b>Forum</b>	<b>UTILITY LEADERS FORUM – SESSION 3</b>  <b>Utility breakthroughs on Climate Adaptation</b>  <b>Chair:</b> <a href="#">Simon Parsons</a> , <i>Director of Environment, Scottish Water</i> ; <a href="#">Peter Nicol</a> , <i>Canada</i>  The Utility Leaders Forum (ULF) is a unique opportunity for those tasked with managing utilities to exchange views, network and to access the insights of prominent water utility leaders in a setting that is by utility leaders for utility leaders.  Over the course of two days, the Forum will bring together some of the world's most prominent water utility leaders with the most impactful case studies to share experiences and knowledge. Curated by an international committee of experienced utility practitioners, the forum is structured to facilitate an open and interactive dialogue around some of the most critical issues facing utilities. Active delegate participation will be key.  <b>Igniting talks:</b> <a href="#">Alex Plant</a> , <i>CEO, Scottish Water</i> ; <a href="#">Iman Hashemi</a> , <i>President &amp; CEO, Ontario Clean Water Agency, Canada</i> ; <a href="#">Debashree Mukherjee</a> IAS, <i>Secretary of the Ministry of Jal Shakti (Water), India</i>  Panel discussion with audience facilitated by the Chairs
<b>Coffee Break</b>		<b>15:00 - 15:30</b>	
<b>Session 3</b>		<b>15:30 - 17:00</b>	
<b>EMERGING WATER LEADERS FORUM – SESSION 3</b> The 6th Emerging Water Leaders Forum (EWL Forum) will emphasise the pivotal contributions of both young and seasoned professionals in this digital era. These discussions will centre on how to effectively integrate AI and digital solutions into traditional water management practices to meet present and future water challenges, and how Young Water Professionals (YWPs) can play a major role in this process. In addition, the Forum will create an open platform for YWPs to connect globally and share professional experiences.  <b>Empowering Young Water Professionals for a Sustainable Digital Future Workshop:</b> Preparing for the Digital Age: Essential Skills and Experiences <b>Lead discussion:</b> <a href="#">Maria Elisa Costa</a> , <i>ANA, Brazil</i> Integrating Data and AI in the Water Sector: Identifying Disruptions and Innovations <b>Lead discussion:</b> <a href="#">Dongjian Xu</a> , <i>IWA Digital Water Programme China Subgroup, China</i> Bridging Generational Gaps: Leveraging AI and Data for Collaborative Solutions Evaluating AI and Data: Pros and Cons from a Young Professional's Perspective Fostering Equity: Using AI and Data to Reduce Disparities Among Water Sector Stakeholders		Room 801 A <b>Forum</b>	<b>UTILITY LEADERS FORUM – SESSION 4</b>  <b>Final Closing Discussion with Review Panel</b>  <b>Chair:</b> <a href="#">Jonathan Clement</a> , <i>Chair ULF</i> <b>Co-chair:</b> <a href="#">Nancy Kodousek</a>  <b>Short Reactions:</b> <a href="#">Sangeeta Chopra</a> , <i>Director of Innovations, Process Optimization and Technical Services, OCWA Canada</i> ; <a href="#">Jennifer Crosby</a> , <i>Director, Project Management Office, Metro Vancouver, Canada</i> ; <a href="#">Vicki Campbell</a> , <i>Director, Water Treatment Plants, EPCOR Canada</i> ; <a href="#">Tom Mollenkopf</a> , <i>Chairman, Gippsland Water, Australia</i> ; <a href="#">Nerina di Lorenzo</a> , <i>Managing Director, Melbourne Water, Australia</i> ; <a href="#">Daniel Duchniak</a> , <i>General Manager, Waukesha Water Utility, USA</i> ; <a href="#">Rob van Dongen</a> , <i>Managing Director, Brabant Water, Netherlands</i> ; <a href="#">Chris Rockey</a> , <i>Head of Water Quality, Southwest Water, England</i>
<b>Break</b>		<b>17:00 - 17:15</b>	
<b>Keynote Plenary</b>		<b>17:15 - 18:00</b>	
Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a> , <i>Environmental Engineer, Brown and Caldwell Consultants</i> Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a> , <a href="#">Abishek Narayan</a> , <a href="#">Sabrina Rashid Sheonty</a> , <a href="#">Saba Daneshgar</a>			



# Wednesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a> , <i>Global Director, Water Global Practice, World Bank Group</i> Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a> , <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>SO 7. GOVERNANCE MODELS ADDRESSING INDIGENOUS COMMUNITIES' NEEDS FOR SUSTAINABLE AND AFFORDABLE WATER SUPPLY AND SANITATION SERVICES – SESSION 1</b>	Room 803 A <b>Session</b>	<b>1.3 DIGITAL LEAK DETECTION</b>	Room 803 B <b>Technical</b>
Co-chair: <a href="#">Robert Bos</a> , <i>Switzerland</i> ; <a href="#">Marion Savill</a> , <i>New Zealand</i>  The "Leaving no one behind" motto of the Sustainable Development Goals highlights marginalized groups who lack access to essential services, are under-represented in decision-making, and suffer disproportionately from such marginalization. Indigenous peoples are a key group left behind in terms of access to clean drinking water and adequate sanitation. The United Nations estimates over 370 million indigenous persons across 70 countries. Despite their marginalized status, indigenous communities possess valuable knowledge for sustainable water and sanitation systems. New initiatives now address this issue through participatory governance models based on human rights and sustainability. This session will present examples from Australia, Canada, and New Zealand, followed by an interactive discussion on adapting these initiatives to meet context-specific needs and scaling them up.  Speakers: <a href="#">Curtis Bergeron</a> , <i>Canada</i> ; <a href="#">Nova Scotia</a> , <i>Canada</i> ; <a href="#">Melanie Debassige</a> , <i>Canada</i> ; <a href="#">Brendon Green</a> , <i>New Zealand</i> ; <a href="#">Adam Lovell</a> , <i>Australia</i>		Chair: <a href="#">Adesola Adedugbe</a> , <i>Nigeria</i>  AGS's Journey Through The Implementation Of A Performance Based Agreement In Romania To Reduce Non-revenue Water, <a href="#">Rui Malheiro</a> , <i>Portugal</i>  Artificial Intelligence Models For Prioritizing Active Leak Detection Activities - The Case Of A Water Utility In Southwest Asia, <a href="#">André Arsénio</a> , <i>Portugal</i>  Repair Leaks ASAP - Digital Tool Focused On The Strategy To Reduce Non-Revenue Water In Porto, <a href="#">Ricardo Ferreira</a> , <i>Portugal</i>  Cloud-enhanced Pressure Management: A Digital Solution Towards Resilient Water Networks, <a href="#">Krisztian Mark Balla</a> , <i>Denmark</i>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
		<b>2.19 MEMBRANE APPLICATIONS IN WASTEWATER MANAGEMENT - SESSION 1</b>	Room 803 B <b>Technical</b>
		Chair: <a href="#">Glen Daigger</a> , <i>United States</i>  Boosting Water Efficiency Of Reverse Osmosis Desalination Using A Smart Brine Controller, <a href="#">Loreen Villacorte</a> , <i>Denmark</i>  Visible Light Guided Cleaning Of Membranes To Mitigate Fouling In Water And Wastewater Treatment, <a href="#">Pritam Das</a> , <i>UK</i>  Understanding Rejection Mechanisms Of Trace Organic Contaminants By Polyamide Membranes Via Data-Knowledge Co-Driven Machine Learning, <a href="#">Ruobin Dai</a> , <i>China</i>  3D Printed Membranes For Water And Wastewater Treatment, <a href="#">Cejna Anna Quist-Jensen</a> , <i>Denmark</i>  POSTERS  Direct Membrane Filtration Of Municipal Wastewater Assisted By A Tannin-based Coagulant For An Energy-efficient Water Resource Recovery Facility, <a href="#">Eduardo Subtil</a> , <i>Brazil</i>	
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>4.6 GOING FROM TREATMENT TO RECOVERY - A JOURNEY OF WASTEWATER AS A NET ENERGY PRODUCER</b>	Room 803 A <b>Workshop</b>	<b>2.20 MEMBRANE APPLICATIONS IN WASTEWATER MANAGEMENT - SESSION 2</b>	Room 803 B <b>Technical</b>
Chair: <a href="#">Catherine Mulligan</a> , <i>Canada</i> Co-chair: <a href="#">Satinder Kaur Brar</a> , <i>Canada</i>  Unlocking the synergy in water-energy nexus (WEN) is crucial to sustainability, but the methodological requirements to support decision-making in an integrated paradigm are challenging. This workshop will bring together academic researchers and collaborators, including industry and Indigenous community partners, to develop an innovative modeling framework to generate fundamental and applied WEN knowledge to advance research and decision-making in WEN. Benefits internationally will include the development of energy-efficient and sustainable technologies for wastewater treatment, improved water quality, emission reductions, and energy generation.  Speakers: <a href="#">Catherine Mulligan</a> , <i>Canada</i> ; <a href="#">Raj Chavan</a> ; <a href="#">Tanush Wadhawan</a> ; <a href="#">Satinder Kaur Brar</a>		Chair: <a href="#">Martha Dagnew</a> , <i>Canada</i>  Turning Waste Into Resources: Ammonia Recovery From Wastewater With Bipolar Membrane Electrodialysis, <a href="#">Sebastien Allard</a> , <i>Australia</i>  Performance Enhancement Of Spiral-wound Reverse Osmosis Membrane Elements With Novel Diagonal-flow Feed Channels, <a href="#">Weichen Lin</a> , <i>China</i>  Predicting Densification Index SVI With Design Curve From Datasets Correlations Of Full-scale Membrane Systems, <a href="#">Hui Guo</a> , <i>Canada</i>  Lowering Microfiltration Membrane Fouling Through Real-time Online Monitoring And Removal Colloidal Particles, <a href="#">Ganesh Rajagopalan</a> , <i>United States</i>  POSTERS  Effects Of High Salinity On The Antifouling Performance Of Reverse Osmosis (RO) Membrane Modified By Hydrophilic Polymer, <a href="#">Xuesong Li</a> , <i>China</i>  Research On The Preparation And Anti-fouling Performance Of Activated Carbon-based Conductive Microfiltration Membrane, <a href="#">Zhen Lei</a> , <i>China</i>	
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a> , <i>Environmental Engineer, Brown and Caldwell Consultants</i> Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a> , <a href="#">Abishek Narayan</a> , <a href="#">Sabrina Rashid Sheonty</a> , <a href="#">Saba Daneshgar</a>			

# Wednesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a>, <i>Global Director, Water Global Practice, World Bank Group</i>          Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a>, <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>6.8 WATER RESOURCES MANAGEMENT TOWARDS SUSTAINABLE DEVELOPMENT GOALS (SDG): WATER SAVING, REUSE AND ALTERNATIVE SOURCES</b></p> <p>Chair: <a href="#">Jenny Åström</a>, <i>Sweden</i></p> <p>Improving Sustainable And Resilient Coastal Cities By Integrating Seawater Into Urban Systems, <a href="#">Zi Zhang</a>, <i>Hong Kong, China</i></p> <p>Making Water Reuse A Reality: Strategies For Forging Utility Partnerships, San Francisco Bay Area (California) Utilities Collaborate To Reuse Water, <a href="#">Eric Rosenblum</a>, <i>USA</i></p> <p>Sponge Cities; A New Strategy In Water Resources Management, <a href="#">Hossein Radmand</a>, <i>Iran</i></p> <p>Spatial-temporal Analysis Of Human Access To Green And Blue Infrastructure In Two Metropolises South Of The Equator, <a href="#">Deyvid Rosa</a>, <i>Brazil</i></p> <p>POSTERS</p> <p><i>The Management Of Urban Storm Water At Block-level (MUST-B): A New Approach For Potential Analysis Of Decentralized Storm Water Management Systems</i>, <a href="#">Ganbaata Khurelbaatar</a>, <i>Germany</i></p> <p><i>Advanced Recovery And Reuse Of Beverage Facility Wastewater</i>, <a href="#">Craig Duvall</a>, <i>Canada</i> <i>Germany</i></p>	Room 701 A Technical	<p><b>2.29 MICRO PLASTICS IN WASTEWATER TREATMENT</b></p> <p>Chair: <a href="#">Thammarat Koottatep</a>, <i>Thailand</i></p> <p>Role Of Permeable Pavement System In Mitigating Microplastics From Urban Runoff, <a href="#">Jiwon Kong</a>, <i>Republic of Korea</i></p> <p>Marine Plastics Biodegradation Leveraging The Role Of Petroleum-degrading Bacteria, <a href="#">Yiqi Cao</a>, <i>Canada</i></p> <p>Microplastic Fibers Deteriorate The Dewaterability Of Activated Sludge By Altering Floc Properties, <a href="#">Jing Sun</a>, <i>China</i></p> <p>Determination Of Optimum Polymer Dose To Maximize Microplastics Removal During Sludge Dewatering, <a href="#">Mary Jislin</a>, <i>Canada</i></p> <p>POSTERS</p> <p><i>Seasonal Variation Of Microplastics In WWTP Sludges: A Case Study In Ottawa, Canada</i>, <a href="#">Nimitha Choran</a>, <i>Canada</i></p>	Room 701 B Technical
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>5.5 CLIMATE CHANGE IMPACTS ON WATER SOURCES AND WATER INFRASTRUCTURE IN ARCTIC COMMUNITIES</b></p> <p>Chair: <a href="#">Dr Stephanie Gora</a>, <i>Canada</i> Co-chair: <a href="#">Stephanie Guilherme</a>, <i>Canada</i></p> <p>The workshop will bring together water researchers, water professionals, and Northerners from different Arctic regions with different skills and experiences related to drinking water in Arctic communities to learn about current practices in different regions, the known and likely future impacts of climate change on water management in Arctic communities, and how different stakeholders can contribute to the development of technical and policy solutions to these challenges that are inclusive, effective, and sustainable over time.</p> <p>Speakers: <a href="#">Chris Marvin</a>, <i>Canada</i>; <a href="#">Bing Chen</a>, <i>Canada</i>; <a href="#">Caroline Duncan</a>, <i>Canada</i></p>	Room 701 A Workshop	<p><b>2.30 MICROPOLLUTANTS IN WASTEWATER TREATMENT</b></p> <p>Chair: <a href="#">Faisal Hai</a>, <i>Australia</i></p> <p>Amazing Co-metabolic Abilities Of Aerobic Ammonia Oxidizers For Organic Micropollutant Removal In WWTPs, <a href="#">Qingxian Su</a>, <i>China</i></p> <p>Complete Cometabolic Removal Of 1,4-Dioxane In Biologically Active Filtration For Indirect Potable Reuse, <a href="#">Hannah Stohr</a>, <i>United States</i></p> <p>Micropollutant Biotransformation Rates In Conventional Activated Sludge Systems, <a href="#">Julian Munoz Sierra</a>, <i>Netherlands</i></p> <p>Micropollutant Elimination With Combined Ozonation And GAC-Filtration Using Oxygen From Electrolysis, <a href="#">Johanna Walther</a>, <i>Germany</i></p> <p>POSTERS</p> <p><i>Mixed Liquor Ozonation On WWTP As A Complementary Barrier For Micropollutants Removal In Potable Reuse</i>, <a href="#">Mathieu Delahaye</a>, <i>France</i></p>	Room 701 B Technical
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<p><b>5.7 SOLVING CALIFORNIA'S WATER CRISIS: BOLD SOLUTIONS TRANSFORMING WATER MANAGEMENT</b></p> <p>Chair: <a href="#">Craig Miller</a>, <i>USA</i> Co-chair: <a href="#">Heather Dyer</a>, <i>USA</i></p> <p>California hydrologic conditions have shifted, transitioning from severe drought to historic flooding—climate change is here. This workshop addresses the state's pressing challenges, including water scarcity, climate change, diverse needs, and population growth. It assesses California's readiness for a future marked by water abundance. Water is fundamentally a shared, statewide resource requiring strategic thinking and partnerships, yet in California, it's marked by decades-long battles—north vs. south, inland vs. coastal, and agriculture vs. urban vs. environmental interests.</p> <p>Speakers: <a href="#">Deven Upadhyay</a>, <i>USA</i>; <a href="#">Heather Dyer</a>, <i>USA</i>; <a href="#">Craig Miller</a>; <a href="#">Eddie Ocampo</a>, <i>USA</i>; <a href="#">Jason Phillips</a>, <i>USA</i></p>	Room 701 A Workshop	<p><b>2.2 MICROPLASTICS IN WASTEWATER AND BIOSOLIDS</b></p> <p>Chair: <a href="#">Banu Ormeci</a>, <i>Canada</i> Co-chair: <a href="#">Dilek Sanin</a>, <i>Turkey</i></p> <p>Approximately 350 million tons of plastic were produced globally in 2017 alone. The increased production rate and limited recycle rate have led to the accumulation of plastics in the environment, which are known to have adverse environmental and health impacts. One of the main pathways of microplastics is wastewater treatment plants. Determining the quantities and fate of microplastics in wastewater treatment plants is an important step in understanding their behavior and impact not only during treatment but also after land application of biosolids. Microplastics are expected to influence the future regulations on land application and other beneficial uses of sludge. This workshop will update the attendees on the most recent science on the types, quantities, fate and impact of microplastics in wastewater and sludge, and how this new knowledge may impact future practices and regulations.</p>	Room 701 B Workshop
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a>, <i>Environmental Engineer, Brown and Caldwell Consultants</i>          Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a>, <a href="#">Abishek Narayan</a>, <a href="#">Sabrina Rashid Sheonty</a>, <a href="#">Saba Daneshgar</a></p>			

# Wednesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a>, <i>Global Director, Water Global Practice, World Bank Group</i>          Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a>, <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>1.19 EXPERIENCE OF PIPELINE ASSET MANAGEMENT</b></p> <p>Chair: <a href="#">Joe Dalton</a>, <i>Ireland</i></p> <p>The Multiple Benefits Of Asset Management For Pipelines – Global Case Studies And Review Of Best Practices, <a href="#">Mike Wrigglesworth</a>, <i>Canada</i></p> <p>Repairing A 110-year Old Treated Water Tunnel Below Lake Ontario For The Toronto Island WTP, <a href="#">Allan Choi</a>, <i>Canada</i></p> <p>High Risk Cluster Selection For Pipeline Replacement And Renewal Planning – A Multi-Year Case Study With Raleigh NC, <a href="#">Thomas Chen</a>, <i>United States</i></p> <p>Machine Learning Application For Prioritising Replacement Of Urban Infrastructure Mains, <a href="#">Mohamed Ahmed</a>, <i>Canada</i></p> <p>POSTERS</p> <p>Development Of An Unmanned Cleaning Robot For Sewer Pipes- Efficient Cleaning Of Sewer Pipes By A Robot Enables Human Workers To Avoid Danger, <a href="#">Hiroyuki Motoyoshi</a>, <i>Japan</i></p> <p>Applied Research For Multi-scale Asset Management Of The Walloon Water Company's Drinking Water Supply Network, <a href="#">Eric Smit</a>, <i>Belgium</i></p>	<p>Room 703 <b>Technical</b></p>	<p><b>1.3 FROM DATA TO DECISION MAKING, AND BACK – DIGITAL TRANSFORMATION AND AI FOR THE RESILIENT WATER SECTOR</b></p> <p>Chair: <a href="#">Ina Vertommen</a>, <i>Netherlands</i>          Co-chair: <a href="#">Suze van der Meulen</a>, <i>Netherlands</i></p> <p>In today's information era, the water sector is generating an ever-growing amount of data. The questions that now arise are: do we actually have the data we need for informed decision-making? Or should we focus on improving how to collect data? How can we integrate data with each other? And finally, how can we overcome the data-rich/information-poor paradox afflicting the water industry?</p> <p><b>Speakers:</b> <a href="#">Riccardo Taormina</a>, <i>Netherlands</i>; <a href="#">Pilar Conejos</a>, <i>Spain</i>; <a href="#">Dragan Savic</a>, <i>Netherlands</i>; <a href="#">Alex van der Helm</a>, <i>Netherlands</i></p>	<p>Room 705 <b>Workshop</b></p>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>1.2 BE THE LEAD INVESTIGATOR! RESPONDING TO THE IQALUIT WATER CRISIS</b></p> <p>Chair: <a href="#">Michelle Albert</a>, <i>Canada</i>          Co-chair: <a href="#">Angus English</a>, <i>Canada</i></p> <p>YOU are going to lead the on-the-ground investigation into the Iqaluit Water Crisis including uncovering the mysteries of the Void, addressing the severely eroded consumer confidence, and implementing critical repairs and upgrades to reinstate the water treatment plant back into safe and sustainable facility. Where do you start investigation start? What do you find? How will you navigate the complex stakeholder landscape?</p> <p><b>Speakers:</b> <a href="#">Mr Ian J Moran</a>, <i>Canada</i>; <a href="#">Justin Rak-Banville</a>, <i>Canada</i>; <a href="#">Dr. Charles Goss</a>, <i>Canada</i></p>	<p>Room 703 <b>Workshop</b></p>	<p><b>1.28 DIGITALISATION OF THE WATER SECTOR: CHALLENGES AND OPPORTUNITIES</b></p> <p>Chair: <a href="#">Harsha Ratnaweera</a>, <i>Norway</i>          Co-chair: <a href="#">Arthur Guischet</a>, <i>Germany</i></p> <p>The water sector is undergoing rapid digitalisation. It provides enormous opportunities not only to the industrial countries but also to the developing world. Real-time water quality monitoring, advanced process surveillance and control, and more comprehensive and user-friendly access to water services data for managers, operators, engineers and the general public have become much more accessible than costly and outdated technologies. It also provides a better foundation for decision-makers to get more out of the limited resources. IoTs, advanced modelling tools and SCADA systems are becoming more affordable and integrated in innovations in the water sector.</p> <p><b>Speakers:</b> <a href="#">Ramon Vilanova</a>, <i>Spain</i>; <a href="#">Patrick Willems</a>, <i>Belgium</i>; <a href="#">Elena Nikolaou</a>, <i>Cyprus</i>; <a href="#">Ismail Koyuncu</a>, <i>Turkey</i>; <a href="#">Zakhar Maletskyi</a>, <i>Norway</i></p>	<p>Room 705 <b>Workshop</b></p>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<p><b>1.7 BOOST ADOPTION OF INNOVATION IN THE WATER SECTOR</b></p> <p>Chair: <a href="#">Blanca Antizar</a>, <i>UK</i>          Co-chair: <a href="#">Elvira Serra</a>, <i>UK</i></p> <p>The goal of this session is to compile lessons learned and best practices from innovation partnerships and cooperation in and beyond the water sector. We will discuss how to create new partnerships, identify the main barriers and enablers for the adoption of innovation, and knowledge gaps in the journey from concept development to market uptake.</p> <p><b>Speakers:</b> <a href="#">Luz Herrero</a>, <i>Spain</i>; <a href="#">Feliu Sempere Nacher</a>, <i>Spain</i>; <a href="#">Yang Villa</a>, <i>Philippines</i>; <a href="#">Natalia Laguyas</a>, <i>USA</i>; <a href="#">Matti Reinikainen</a>, <i>Finland</i>; <a href="#">Doug Aitken</a>, <i>Chile</i>; <a href="#">Jo Burgess</a>, <i>South Africa</i></p>	<p>Room 703 <b>Workshop</b></p>	<p><b>1.4 DIGITAL MAINTENANCE APPROACHES</b></p> <p>Chair: <a href="#">Francisco Javier Fernandez</a>, <i>Spain</i></p> <p>Automated Estimation Of Pump Characteristics And Their Use Within Engineering, Operations, And Maintenance, <a href="#">Marcelo Cusacovich</a>, <i>United States</i></p> <p>Research On The Utilization Of Sensing Technologies For The Maintenance And Management Of Water Supply Facilities, <a href="#">Motohiro Kobayashi</a>, <i>Japan</i></p> <p>Machine Learning To Support The Monitoring And Optimisation Of Pumping Stations Processes, <a href="#">Rita Lourinho</a>, <i>Portugal</i></p> <p>Intelligent Pumps Support Decarbonization In Wastewater Pumping, <a href="#">Stephanie Smith</a>, <i>United Kingdom</i></p> <p>POSTERS</p> <p>Wastewater Network Age Prediction For Critical Assets Identification Using Machine Learning Algorithm Gradient Boosting, <a href="#">Ricardo Ferreira</a>, <i>Portugal</i></p> <p>LEAKman: A Danish Demonstration Platform For Integrated Leakage Management Solutions, <a href="#">Gitte Marlene Jansen</a>, <i>Denmark</i></p>	<p>Room 705 <b>Technical</b></p>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a>, <i>Environmental Engineer, Brown and Caldwell Consultants</i>          Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a>, <a href="#">Abishek Narayan</a>, <a href="#">Sabrina Rashid Sheonty</a>, <a href="#">Saba Daneshgar</a></p>			

# Wednesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a>, <i>Global Director, Water Global Practice, World Bank Group</i>          Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a>, <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>1.10 LARGE SCALE WATER REUSE AND RECYCLING</b></p> <p>Chair: <a href="#">Paul Jeffrey</a>, <i>United Kingdom</i></p> <p>Ultrafiltration And Reverse Osmosis Testing On Tertiary Wastewater At San Diego's North City Water Reclamation Plant, <a href="#">Susan Guibert</a>, <i>United States</i></p> <p>Evaluation Of Pathogenic Bacteria In A Pilot-Scale Wastewater Treatment System For Hydroponic Irrigation In Controlled Environment Agriculture, <a href="#">Wellington Arthur</a>, <i>United States</i></p> <p>National Water Regulations And The Future Supply Of Water To A Growing Industrial Symbiosis In Kalundborg, <a href="#">Hasse Milter</a>, <i>Denmark</i></p> <p>Fighting Water Scarcity Through The Reuse Of Wastewater - Porto Case Study, <a href="#">Cecilia Santos</a>, <i>Portugal</i></p>	<p>Room 707 <b>Technical</b></p>	<p><b>1.18 IWA CLUSTER WASTEWATER-BASED EPIDEMIOLOGICAL SURVEILLANCE   PUBLIC HEALTH VALUE FROM WASTEWATER DATA</b></p> <p>Chair: <a href="#">Kate Medicott</a> Co-chair: <a href="#">Gertjan Medema</a>, <i>Netherlands</i></p> <p>The COVID-19 pandemic has boosted wastewater testing for information about public health in communities from city to building scale. And wastewater surveillance evolved from polio and COVID-19 to other infectious diseases, antimicrobial resistance and other health indicators. Wastewater-based epidemiological surveillance is an intersectoral activity, where the water sector can mine information for the public health sector. Therefore, both sectors need to be well connected; the water sector can play a proactive role in demonstrating what information can be mined from wastewater, while the public health sector needs to identify the most pressing needs and added values of wastewater testing for public health data.</p> <p><b>Speakers:</b> <a href="#">Prof. Gertjan Medema</a>, <i>Netherlands</i>; <a href="#">Kate Medicott</a>, <i>WHO</i>; <a href="#">Amy Kirby</a>, <i>USA</i>; <a href="#">Thailand CDC</a>; <a href="#">Ottawa Public Health</a>, <i>Canada</i></p>	<p>Room 709 <b>Workshop</b></p>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>1.7 LESSONS FROM UTILITY OPERATIONS</b></p> <p>Chair: <a href="#">Norbert Jardin</a>, <i>Germany</i></p> <p>Common Problems And Solutions For Operational Efficiency Improvement Of Centralized Effluent Treatment Plants At Industrial Parks In Vietnam, <a href="#">Viet-Anh Nguyen</a>, <i>Vietnam</i></p> <p>To Assess The Impact Of Social Connection Policy And Output Based Aid To The Access Ff Water And Sanitation Among Communities Residing In The Informal Settlements And Low Income Areas In Nairobi Kenya, <a href="#">Victor Oruko</a>, <i>Kenya</i></p> <p>Digital Approach For Enhancing Performance In Workforce Management In Water Utilities, <a href="#">Rodrigo Pereira</a>, <i>Brazil</i></p> <p>DREAM - Data For Reengineering And Evaluation Of Algorithms And Models: Mining Of Operational Data To Optimize A Design Tool For Wastewater Treatment Systems, <a href="#">Mathieu Delahaye</a>, <i>France</i></p> <p><b>POSTERS</b></p> <p>+45 Years Of Reliable Operation For World Largest Seawater Treatment Plant &amp; Nine (9) Scattered Water Injection Plants, <a href="#">Quassem Bojbarah</a>, <i>Saudi Arabia</i></p>	<p>Room 707 <b>Technical</b></p>	<p><b>4.12 NATURE-BASED SOLUTIONS - SESSION 1: PARTNERING WITH NATURE FROM SOURCE TO TAP AND BACK - CASE STUDIES OF NBS IN WATER MANAGEMENT FROM RURAL CATCHMENTS TO URBAN APPLICATIONS</b></p> <p>Chair: <a href="#">Anacleto Rizzo</a>, <i>IRIDRA</i>; Chair, <i>IWA Nbs Working Group</i> Co-chair: <a href="#">Nancy Lilly</a>, <i>TNC</i></p> <p><b>Speakers:</b> <a href="#">Anacleto Rizzo</a>, <i>Italy</i>; <a href="#">Maria Wirth</a>, <i>Austria</i>; <a href="#">Oscar Alvarado</a>, <i>The Netherlands</i>; <a href="#">Sylvie Spraakman</a>, <i>Canada</i>; <a href="#">Chris Gerrard</a>, <i>UK</i>; <a href="#">Pedro Carvalho</a>, <i>Denmark</i>; <a href="#">Tony Wong</a>, <i>Australia</i>; <a href="#">Nancy Lilly</a>, <i>USA</i></p>	<p>Room 709 <b>Workshop</b></p>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<p><b>1.4 UNLOCK THE WORLDWIDE POTENTIAL OF WATER REUSE INNOVATIONS</b></p> <p>Chair: <a href="#">Jennifer Khemai</a>, <i>Canada</i> Co-chair: <a href="#">Linda Li</a>, <i>Canada</i></p> <p>Join our expert panel for an interactive and engaging session as they highlight global water reuse practices for residential, institutional, and industrial applications. Panelist areas of expertise include governance framework, utilities, industrial, and potable and non-potable reuse. This session will explore the urgent need for global water reuse that goes beyond the issue of water scarcity, such as environmental impacts, sustainable development, nutrient management, and more.</p> <p><b>Speakers:</b> <a href="#">Miriam Hacker</a>, <i>WRF</i>; <a href="#">Charles Bott</a>, <i>HRSD</i>; <a href="#">Melanee Short</a>, <i>Sanofi Pasteur</i>; <a href="#">Kate Polkovsky</a>, <i>ARROW Utility</i></p>	<p>Room 707 <b>Workshop</b></p>	<p><b>1.15 TOWARDS UNIFIED GLOBAL ASSESSMENT OF DISEASE: STANDARDS FOR WASTEWATER SURVEILLANCE</b></p> <p>Chair: <a href="#">Dr Ishi Keenum</a>, <i>USA</i> Co-chair: <a href="#">Nancy Lin</a>, <i>USA</i></p> <p>Standards to support wastewater based surveillance (WBS) are needed to increase confidence in and improve comparability of results in order to inform decision-making related to public health and safety. Although the COVID-19 pandemic led to significant and rapid improvements in WBS, challenges remain. In this session, we will convene leading voices in this global field to discuss emerging and ongoing measurement and data quality challenges in WBS and efforts toward standards and controls to address them. The session is expected to derive a clear direction where WBS measurement improvement and standards are still needed. This session output will be applicable to WBS programs globally, informative for standards development efforts, and disseminated via a peer-reviewed viewpoint article.</p> <p><b>Speakers:</b> <a href="#">Alex Ho Shing Chik</a>, <i>Canada</i>; <a href="#">Bernd Manfred Gaelic</a>; <a href="#">Nishita DSouza</a>, <i>USA</i></p>	<p>Room 709 <b>Workshop</b></p>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a>, <i>Environmental Engineer, Brown and Caldwell Consultants</i>          Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a>, <a href="#">Abishek Narayan</a>, <a href="#">Sabrina Rashid Sheonty</a>, <a href="#">Saba Daneshgar</a></p>			

# Wednesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a> , <i>Global Director, Water Global Practice, World Bank Group</i> Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a> , <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>3.5 OCCURRENCE AND REMOVAL OF EMERGING CONTAMINANTS - SESSION 2</b> <b>Chair:</b> <a href="#">Martin Rygaard</a> , <i>Denmark</i> Multifaceted PFAS Removal In Drinking Water Treatment Using Granular Activated Carbon: Adsorption, Regeneration And Destruction, <a href="#">Martin Van Veggel</a> , <i>Netherlands</i> Impact Of Different Pollution Sources On Plasticsphere Microbiome In Aquatic Ecosystems, <a href="#">Sheena Kumari</a> , <i>South Africa</i> Sulphate-Form Anion Exchange Resins: A Novel Approach For Simultaneous Removal Of Natural Organic Matter (NOM) And Per- And Poly-fluoroalkyl Substances (PFAS) From Drinking Water, <a href="#">Hadia Terro</a> , <i>Canada</i> Long-term Changes In The Removal Of Perfluoroalkyl Substances By Activated Carbon Processes, <a href="#">Yoshifumi Nakazawa</a> , <i>Japan</i> <b>POSTERS</b> <i>Exploring Geospatial Environmental Analysis With Large Language Models: A Case Study On Caffeine Occurrences In Global Water Bodies</i> , <a href="#">Qiao Kang</a> , <i>Canada</i> <i>Responding To The Iqaluit Water Crisis</i> , <a href="#">Ian Moran</a> , <i>Canada</i>	<b>Room 711 Technical</b>	<b>3.12 DISINFECTION METHODS</b> <b>Chair:</b> <a href="#">Marjolein Vanoppen</a> , <i>UGent</i> Monitoring And Control Of Peracetic Acid In Water Disinfection Applications, <a href="#">Vadim Malkov</a> , <i>USA</i> Disinfectant Persistence At The Building Point Of Entry As A Risk Factor For Legionella Growth, <a href="#">Krystin Kadonsky</a> , <i>USA</i> Illuminating Alternative UV Dosing Strategies, <a href="#">Appana Lok</a> , <i>Canada</i> Peroxide Disinfection Of Vesicle-Cloaked Murine Norovirus Clusters: Vesicle Membranes Protect Viruses From Inactivation, <a href="#">Zhenzhen He</a> , <i>USA</i> <b>POSTERS</b> <i>AMOZONE Kinetic Model For Design And Optimization Of AOPs For Drinking Water Production</i> , <a href="#">Pieter Vlasschaert</a> , <i>Belgium</i> <i>Physiological And Transcriptional Responses Of Legionella Pneumophila To Reactive Oxygen Species And Their Implications To Water Treatment</i> , <a href="#">Li Qian</a> , <i>USA</i>	<b>Room 713 Technical</b>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>3.6 OCCURRENCE AND REMOVAL OF EMERGING CONTAMINANTS - SESSION 3</b> <b>Chair:</b> <a href="#">Manuel Kofi Tetteh</a> , <i>Ghana</i> Does Lake Stratification Affect The Vertical Distribution Of Microplastics In Hamilton Harbor Water?, <a href="#">Behman Nayebi</a> , <i>Canada</i> Microplastics Enhanced Virus Transport In Saturated Porous Media: A New Concern For Public Health, <a href="#">Ahmad Ameen</a> , <i>Austria</i> Profile Of Microplastics In Water For Human Consumption By Micro-FTIR: Lisbon Case Study (Portugal), <a href="#">Rui Neves Carneiro</a> , <i>Portugal</i> Territorial Diagnosis Of Microplastics And Tyre Residues In The Toulon Bay Area (France), <a href="#">Marie-Pierre Denieul</a> , <i>France</i> <b>POSTERS</b> <i>Water Quality In Rivers Of North Portugal</i> , <a href="#">Jose Fernandez</a> , <i>Portugal</i> <i>National-Scale Antimicrobial Resistance Surveillance In Wastewater: A Comparative Analysis Of HT-qPCR And Metagenomics Approaches</i> , <a href="#">Margaret Knight</a> , <i>United Kingdom</i>	<b>Room 711 Technical</b>	<b>3.13 DISINFECTION BY-PRODUCTS</b> <b>Chair:</b> <a href="#">Mark T. Ayertey</a> , <i>Ghana</i> Alternative Water Sources: How To Deal With The Organics?, <a href="#">Marjolein Vanoppen</a> , <i>Belgium</i> N-nitrosodimethylamine Formation During Oxidation Of N,N-dimethylhydrazine Compounds By Peroxymonosulfate, <a href="#">Linlu Shen</a> , <i>China</i> How Does Viewing DBPs Through The Lens Of Hazard Index Change Our Perspective On Risk Minimisation?, <a href="#">Bruce Jefferson</a> , <i>UK</i> Trihalomethane And Haloacetic Acid Species Prediction In Drinking Water, <a href="#">Arumugam Sathasivan</a> , <i>Australia</i> <b>POSTERS</b> <i>Understanding The Chemistry Of Brominated Disinfection By-Product Formation</i> , <a href="#">Polly Grundy</a> , <i>UK</i> <i>Seawater Intrusion Into The Drinking Water Sources: Impact On Formation Of Disinfection Byproducts In Drinking Water</i> , <a href="#">Shakhawat Chowdhury</a> , <i>Saudi Arabia</i>	<b>Room 713 Technical</b>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<b>3.10 INTERMITTENT SUPPLY SYSTEM CHALLENGES AND OPTIMISATION</b> <b>Chair:</b> <a href="#">Raziyeh Farmani</a> , <i>United Kingdom</i> Intermittent And Inconvenient: User's Experiences With Rural Piped Water Supply In Gujarat Suggest New Model For Estimating Water Consumption, <a href="#">Florence Udenby</a> , <i>Canada</i> Harnessing Smart Meters To Investigate Household Water Usage Under Intermittent Water Supply (IWS), <a href="#">Matthew MacRorie</a> , <i>UK</i> How To Live With Intermittent Water Supply, <a href="#">Dewi Rogers</a> , <i>Italy</i> A Quantitative Guide And Python Package For SWMM-based Modelling Of Intermittent Networks, <a href="#">Omar Abdelazeem</a> , <i>Canada</i> <b>POSTERS</b> <i>Pilot Scale Comparison Of Intermittent And Continuously Operated Drinking Water Biofilters Treating Groundwater</i> , <a href="#">Hemant Arora</a> , <i>Canada</i> <i>Reducing Residential Water Consumption In San Pedro Garza Garcia, Mexico: A Case Study</i> , <a href="#">Susana Guerrero Flores</a> , <i>Mexico</i>	<b>Room 711 Technical</b>	<b>6.2 IT AIN'T EASY BEING GREEN – HOW MUNICIPALITIES ACROSS CANADA ARE IMPLEMENTING GREEN STORMWATER INFRASTRUCTURE</b> <b>Chair:</b> <a href="#">Sylvie Spraakman</a> , <i>Canada</i> <b>Co-chair:</b> <a href="#">Kristina Hausmanis</a> , <i>Canada</i> How do you start a green infrastructure program? How do you work green infrastructure into existing bureaucracies for managing utilities and streets? How do we design these systems, and decide where green infrastructure should be placed? How do we sustain green infrastructure over the long term? <b>Speakers:</b> <a href="#">Dr Sylvie Spraakman</a> , <a href="#">Kristina Hausmanis</a> , <a href="#">Bert Van Duin</a> , <a href="#">Helen Langille</a> , <a href="#">Aaron Ward</a> , <i>Canada</i>	<b>Room 713 Workshop</b>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a> , <i>Environmental Engineer, Brown and Caldwell Consultants</i> Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a> , <a href="#">Abishek Narayan</a> , <a href="#">Sabrina Rashid Sheonty</a> , <a href="#">Saba Daneshgar</a>			

# Wednesday | Programme

<b>Keynote Plenary</b>		<b>09:00 - 09:45</b>	
<p>Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a>, <i>Global Director, Water Global Practice, World Bank Group</i>          Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a>, <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i></p>			
<b>Coffee Break</b>		<b>09:45 - 10:30</b>	
<b>Session 1</b>		<b>10:30 - 12:00</b>	
<p><b>5.1 COLLABORATION, CAPACITY BUILDING AND COMMUNICATION - SESSION 1</b></p> <p>Chair: <a href="#">Victor-Lucian Croitoru</a>, <i>Romania</i></p> <p>Lake Ontario Water Quality Forecasting System, <a href="#">Liza Ballantyne</a>, <i>Canada</i></p> <p>Unlocking Utility Engagement For Innovative Water Systems: Water Reuse In The United States, <a href="#">Miriam Hacker</a>, <i>USA</i></p> <p>Conceptualising Boundary Work Activities To Enhance Credible, Salient And Legitimate Knowledge In Transdisciplinary Research Projects, <a href="#">Lisa Andrews</a>, <i>Netherlands</i></p> <p>Water-Energy-Food-Ecosystem Nexus: How To Frame And How To Govern? Insights From An Initial Application In The Lielupe And Nestos-Mesta River Basin, <a href="#">Caro Mooren</a>, <i>Netherlands</i></p> <p><b>POSTERS</b></p> <p>Collaborative Multi-scale Water Resources Planning In England And Wales, <a href="#">Ali Leonard</a>, <i>UK</i></p> <p>School Visits, Guided Tours, Influencers And TikTok - Young People As The Target Audience For Raising Interest Towards Water Management, <a href="#">Leena Mikkonen-Young</a>, <i>Finland</i></p>	<p>Room 714 <b>Technical</b></p>	<p><b>SO.3 ENHANCING URBAN SANITATION: APPLICABLE CWIS FRAMEWORK CONSULTATION</b></p> <p>The session will commence with two keynotes showing where the sector stands concerning the definition of a CWIS Framework. A video will then show the specific example of a utility, MAWASCO, based in Malindi (Kenya), planning for and implementing a CWIS approach in its city.</p> <p>Participants will then, in groups, respond to the questions: 1) What are the three most successful factors that help local authorities and utilities to implement a CWIS approach? 2) What are the three most important challenges that local authorities and utilities face in implementing a CWIS approach? 3) What examples or stories of interesting CWIS implementation can you provide? The results of the working groups will then be presented and discussed in plenary, followed by a conclusion of the highlights of the workshop and suggested next steps.</p>	<p>Room 715 A <b>Session</b></p>
<b>Lunch</b>		<b>12:00 - 13:30</b>	
<b>Session 2</b>		<b>13:30 - 15:00</b>	
<p><b>5.6 COLLABORATION, CAPACITY BUILDING AND COMMUNICATION - SESSION 2</b></p> <p>Chair: <a href="#">Natalie DeRoock</a>, <i>United States</i></p> <p>Ensuring Safe Drinking Water From Private Wells In Florida Through The Florida Well Owner Network, <a href="#">Yilin Zhuang</a>, <i>USA</i></p> <p>Institutions Still Matter: Capacity Building Efforts Across Small And Medium Sized Water Utilities In Punjab, Pakistan, <a href="#">Faisal Shaheen</a>, <i>Canada</i></p> <p>Decision-making Factors For Financing Nature-based Solutions For Water Management In Urban Multi-stakeholder Settings: Understanding Financers And Deriving Implications For Collaborative Financing, <a href="#">Maria Wirth</a>, <i>Austria</i></p> <p>Enabling Safe Practices In Wastewater-irrigated Urban Agriculture, <a href="#">David Galibourg</a>, <i>UK</i></p> <p><b>POSTERS</b></p> <p>Plastic Free School – Repositioning Tap Water, <a href="#">Nuno Branco</a>, <i>Portugal</i></p> <p>Application Of Systemic Thinking And Planning In Revitalizing Rural Water Services In Kenya, <a href="#">Abdi Wario</a>, <i>Kenya</i></p>	<p>Room 714 <b>Technical</b></p>	<p><b>6.9: SCALING FINANCIAL INSTRUMENTS TO AVERT CLIMATE DAMAGES</b></p> <p>Chair: <a href="#">John Joyce</a>, <i>Ireland</i>          Co-chair: <a href="#">Henk Ovink</a>, <i>Ireland</i></p> <p>This session contributes to innovate a novel financial instrument to contribute to closing the financial gap for investments in adaptation/resilience and for disaster/damage averting. The session takes the analogous market-based instrument of carbon credits to explore establishing a resilience/damage/loss credit system.</p> <p><b>Speakers:</b> <a href="#">Saroj Jha</a>, <i>USA</i>; <a href="#">Sudhir Murthy</a>, <i>USA</i>; <a href="#">Beverley Stinson</a>, <i>USA</i>; <a href="#">John Ikeda</a>, <i>USA</i></p>	<p>Room 715 A <b>Workshop</b></p>
<b>Coffee Break</b>		<b>15:00 - 15:30</b>	
<b>Session 3</b>		<b>15:30 - 17:00</b>	
<p><b>6.5 SOURCE-TO-SEA POLLUTION MANAGEMENT &amp; POLLUTION FROM POINT SOURCES</b></p> <p>Chair: <a href="#">Gertjan Zwolsman</a>, <i>Netherlands</i></p> <p>Contribution Of Ships To The Faecal Pollution Of Navigable Rivers: A Novel Approach For Sensitive Impact Evaluation, <a href="#">Sophia Steinbacher</a>, <i>Austria</i></p> <p>Optimizing Drinking Water Production In Coastal Dunes By Extracting Brackish Groundwater: Results Of A Field Pilot In The Netherlands, <a href="#">Gertjan Zwolsman</a>, <i>Netherlands</i></p> <p>Responsibility Of Water Consumption For The Biodiversity Impacts In Global Supply Chains – A Case Of Japan, <a href="#">Masaharu Motoshita</a>, <i>Japan</i></p> <p>Decision Support Framework And Principal Component Analysis Applied To Eutrophic Shallow Lake Water Remediation Selection, <a href="#">Antonio Cavalcante Pereira</a>, <i>Canada</i></p> <p><b>POSTERS</b></p> <p>Water-based Architecture; A Way For Coastal Communities To Coexist With Rising Ocean Water Levels, <a href="#">Hossein Radmand</a>, <i>Iran</i></p> <p>Towards Tier 3 – Lessons For Measuring And Mitigating N:O At Water Resource Recovery Facilities, <a href="#">Amanda Lake</a>, <i>UK</i></p>	<p>Room 714 <b>Technical</b></p>	<p><b>5.10 NAVIGATING THE FUTURE LANDSCAPE OF GRADUATE TRAINING IN WASH</b></p> <p>Chair: <a href="#">Caetano Dorea</a>, <i>Canada</i>          Co-chair: <a href="#">Sara Beck</a>, <i>Canada</i></p> <p>How can we prepare graduates not only with specialized WASH knowledge but with the skills and attributes necessary for success in a rapidly changing and interconnected world? This session aims to facilitate a dialogue on contemporary practices and future trajectories in graduate training programs dedicated to water, sanitation, and hygiene (WASH). It will highlight effective approaches and suggested opportunities for new ways of addressing shifting priorities in the field of WASH.</p> <p><b>Speakers:</b> <a href="#">Prof. Thammarat Koottatep</a>, <i>Thailand</i>; <a href="#">Prof. Konstantina Velkushanova</a>, <i>Netherlands</i>; <a href="#">Prof. Sayed Mohammad Nazim Uddin</a>, <i>Bangladesh</i></p>	<p>Room 715 A <b>Workshop</b></p>
<b>Break</b>		<b>17:00 - 17:15</b>	
<b>Keynote Plenary</b>		<b>17:15 - 18:00</b>	
<p>Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a>, <i>Environmental Engineer, Brown and Caldwell Consultants</i>          Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a>, <a href="#">Abishek Narayan</a>, <a href="#">Sabrina Rashid Sheonty</a>, <a href="#">Saba Daneshgar</a></p>			

# Wednesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a>, <i>Global Director, Water Global Practice, World Bank Group</i>          Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a>, <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>2.10 BIOFILM AND GRANULAR SLUDGE PROCESSES</b></p> <p>Chair: <a href="#">Daniel A. Nolasco</a>, <i>Brazil</i></p> <p>Biofilm Process Enhanced Nitrogen Removal Through Partial Denitrification-anammox In Decentralized Sewage Treatment Plants, <a href="#">Xiaoxin Cao</a>, <i>China</i></p> <p>Ozonation Of The Pesticide Imidacloprid And Assessment Of The Impacts Caused In A Moving Bed Biofilm Reactor (MBBR), <a href="#">Marcia Dezotti</a>, <i>Brazil</i></p> <p>Assessing The Influence Of Prolonged Exposure Of Aerobic Granular Sludge To Four Target PFAS: Impacts On Granule Formation, System Performance And Microbial Community, <a href="#">Zanina Ilieva</a>, <i>Canada</i></p> <p>A Full-Scale Study On The Impact Of Aerobic Granular Sludge On Membrane Filtration Performance, <a href="#">Jan Dries</a>, <i>Belgium</i></p> <p><b>POSTERS</b></p> <p>CELLA™ - A New Biofilm Technology For Advanced, Compact And Sustainable Wastewater Treatment, <a href="#">Fernando Morgan-Sagastume</a>, <i>Sweden</i></p>	<p>Room 715 B <b>Technical</b></p>	<p><b>2.4 MEMBRANE AERATED BIOFILM REACTOR – FROM THEORY TO MODELING TO PRACTICE &amp; EMERGING APPLICATIONS</b></p> <p>Chair: <a href="#">Nerea Uri Carreno</a>, <i>Denmark</i>          Co-chair: <a href="#">Rob Nerenberg</a>, <i>USA</i></p> <p>MABR is experiencing accelerated adoption due to its ability to offer process intensification in combination with energy savings and N<sub>2</sub>O mitigation. At the same time, researchers continue to study the fundamentals and new potential applications for this technology.</p> <p><b>Speakers:</b> <a href="#">Rob Nerenberg</a>, <i>USA</i>; <a href="#">Dwight Houweling</a>, <i>Canada</i>; <a href="#">Tim Constantine</a>, <i>Canada</i>; <a href="#">Barry Heffernan</a> / <a href="#">John McConomy</a>, <i>Ireland</i>; <a href="#">Neri Nathan</a>, <i>Israel</i>; <a href="#">Jeff Peeters</a>, <i>Canada</i></p>	<p>Room 716 A <b>Workshop</b></p>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>2.18 MICROBIAL ELECTROCHEMISTRY &amp; MICROALGAE</b></p> <p>Chair: <a href="#">Juan Antonio Baeza</a>, <i>Spain</i></p> <p>Fish Processing Wastewater Treatment With Microalgae: Growth, Nutrient Recovery And Biomass Harvesting, <a href="#">Tiina Leiviskä</a>, <i>Finland</i></p> <p>Evaluation Of 3D Printed Cathodes For Microbial Electrolysis Cell-assisted Anaerobic Digester, <a href="#">Tae Hyun (Calvin) Chung</a>, <i>Canada</i></p> <p>Can Microalgae Be Grown In Primary Effluent Of Municipal Wastewater In The Presence Of Bacteria?, <a href="#">Sathasivan Arumugam</a>, <i>Australia</i></p> <p>Water Balance In Higher Education Institution: A Case Study In A Public University In Brazil, <a href="#">Marcelo Antunes Nolasco</a>, <i>Brazil</i></p>	<p>Room 715 B <b>Technical</b></p>	<p><b>6.5 THE SECRET LIVES OF WATER PROFESSIONALS: EXPLORING WATER CAREERS IN ACADEMIA, CONSULTING, GOVERNMENT AND UTILITIES</b></p> <p>Chair: <a href="#">Rasha Maal-Bared</a>, <i>Canada</i>          Co-chair: <a href="#">Frances Amoye</a>, <i>Canada</i></p> <p>The workshop will be divided into three components. The first involves four panelists highlighting their daily jobs/tasks, in addition to their favorite and least favorite parts of the job. The panelists will explain their backgrounds and how they ended up in specific careers. The second part has discussions around hiring in different sectors and what each job requires for success. This transitions into a hands-on exercise focused on resume writing for specific water careers. Panelists will join different tables and workshop participants will be asked to work with the panelist on “prepared resumes” that we provide (not from actual workshop participants). The panelists and participants will prepare a “dos/don’t’s” list that will be shared with the room. The third part of the workshop is focused on transitions. The first transition discussion is focused on moving from one career/sector to another (e.g., academic to consultant or government to utility). The second transition discussion focuses on the move from YP to mid-career professional.</p> <p><b>Speakers:</b> <a href="#">Dr. Jeff Charrois</a>, <i>Canada</i>; <a href="#">Rasha Maal-Bared</a>, <i>Canada</i>; <a href="#">Teresa Brooks</a>, <i>Canada</i>; <a href="#">Bipro Dhar</a>, <i>University of Alberta</i></p>	<p>Room 716 A <b>Workshop</b></p>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<p><b>2.39 LARGE WWTP OPERATION</b></p> <p>Chair: <a href="#">Joyce Chang</a>, <i>Canada</i></p> <p>Designing &amp; Integrating Toronto's Largest Sanitary Combined Sewer Overflow Pumping Station For Ashbridges Bay Wastewater Treatment Plant (ABTP), <a href="#">Patrick Sifri and Geoff Cole</a>, <i>Canada</i></p> <p>Overcoming Diverse Water Challenges On The Ashbridges Bay Treatment Plant Outfall, <a href="#">Kevin Waheer</a>, <i>Canada</i></p> <p>Optimisation Of Activated Sludge For Odour Control In WWTP: Large-Scale Studies On Berlin's Wastewater Treatment Plants, <a href="#">Regina Gnirss</a>, <i>Germany</i></p> <p>Bioenergetic Strategy for Full-Scale Biological Denitrification Operations, <a href="#">Sudong Yin</a>, <i>Canada</i></p>	<p>Room 715 B <b>Technical</b></p>	<p><b>6.7 SUSTAINABLE WATER RESOURCE MANAGEMENT AND LARGE-SCALE DEVELOPMENT IN ETHIOPIA</b></p> <p>Chair: <a href="#">Eshetu Cheru</a>, <i>Ethiopia</i></p> <p>This session seeks to present a comprehensive strategy for sustainable water resource management and large-scale development in Ethiopia, highlighting the critical importance of equitable water distribution, environmental sustainability, and long-term socio-economic growth. Desired Output: The desired output is to disseminate a detailed proposal for effective water resource utilization and management, emphasizing the implementation of an integrated water management framework, sustainable water usage practices, capacity-building programs, and strategic partnerships for funding and support.</p> <p><b>Speakers:</b> <a href="#">Eshetu Cheru Techebo</a>, <i>Ethiopia</i></p>	<p>Room 716 A <b>Workshop</b></p>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a>, <i>Environmental Engineer, Brown and Caldwell Consultants</i>          Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a>, <a href="#">Abishek Narayan</a>, <a href="#">Sabrina Rashid Sheonty</a>, <a href="#">Saba Daneshgar</a></p>			

# Wednesday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: Financing water solutions for climate resilience, <a href="#">Saroj Kumar Jha</a>, <i>Global Director, Water Global Practice, World Bank Group</i>          Keynote: The economics of water and beyond, <a href="#">Henk Ovink</a>, <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>1.24 NET-ZERO EMISSIONS IN THE WATER INDUSTRY – COLLABORATING FOR CLIMATE ACTION</b></p> <p><b>Chair:</b> <a href="#">Nerea Uri Carreno</a>, <i>Denmark</i>  <b>Co-chair:</b> <a href="#">Rob Nerenberg</a>, <i>USA</i></p> <p>Net Zero Workshop Series - This workshop is proposed as the second in a 4-workshop series at Toronto's Global Congress. The workshop series has been jointly developed by members of the IWA Climate Smart Utilities Group, the Water Research Foundation, the WEF GHG Focus Group, and Ontario's WEAO/OWWA Climate Change Committee, including: GHG Accounting for Water &amp; Wastewater Utilities We kn2Ow Enough - Mitigating Nitrous Oxide Emissions at WRRFs Today Targeting WRRF Methane Emissions A Net zero water industry.</p> <p><b>Speakers:</b> <a href="#">Seven Trent</a>, <i>UK</i>; <a href="#">Aarhus Vand</a>, <i>Denmark</i></p>	<p><b>Room 716 B Workshop</b></p>	<p><b>4.2 IMPACTS AND MITIGATION OF CLIMATE CHANGE</b></p> <p><b>Chair:</b> <a href="#">Amit Chanan</a>, <i>Fiji</i></p> <p>Wastewater Management In Urban Areas In Vietnam: Solutions For Sanitation Coverage Improvement And Climate Change Adaptation, <a href="#">Nguyen Viet - Anh</a>, <i>Vietnam</i></p> <p>Study Of Rainfall Distributions In The City Of Vancouver To Improve Climate Preparedness, <a href="#">Allyson Bingeman</a>, <i>Canada</i></p> <p>Protection And Valorisation Of Urban Water Courses In The Context Of Climatic Changes, <a href="#">Cláudia Costa</a>, <i>Portugal</i></p> <p>UMngeni-uThukela Water - Water Security Action Hub For Sustainable Water Supply, <a href="#">Ntombifuthi Vilakazi</a>, <i>South Africa</i></p> <p><b>POSTERS</b></p> <p><i>A New Assessment Tool For Disaster Risks To Water Supply</i>, <a href="#">Masaru Goto</a>, <i>Japan</i></p> <p><i>Water Distribution Systems And Climate Change Design Standards And Research In The Arctic</i>, <a href="#">Audrey Tam</a>, <i>Canada</i></p>	<p><b>Room 717 A Technical</b></p>
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>1.25 WE kn2Ow ENOUGH - MITIGATING NITROUS OXIDE EMISSIONS AT WRRFS TODAY</b></p> <p><b>Chair:</b> <a href="#">Emily Zegers</a>, <i>Canada</i>  <b>Co-chair:</b> <a href="#">Jose Porro</a>, <i>USA</i></p> <p>This session will tell the story of N<sub>2</sub>O as we know it in an engaging way, through practical experiences from around the world in order to inspire utilities, practitioners and academic participants to support the urgent work required to mitigate these emissions and play our rightful role as stewards of the nitrogen cycle.</p> <p><b>Speakers:</b> <a href="#">Nerea Uri</a>, <i>Denmark</i>; <a href="#">Amanda Lake</a>, <i>UK</i>; <a href="#">Mikkel Holmen Andersen</a>, <i>Denmark</i>; <a href="#">Liu Ye</a>, <i>Australia</i>; <a href="#">Giulia Pizzagali</a>, <i>UK</i>; <a href="#">Ellen Vanvoorthuizen</a>, <i>Netherlands</i>; <a href="#">Ana Soares</a>, <i>UK</i></p>	<p><b>Room 716 B Workshop</b></p>	<p><b>4.2 SUSTAINABILITY FOR URBAN WATER MANAGEMENT</b></p> <p><b>Chair:</b> <a href="#">Miriam Feilberg</a>, <i>Denmark</i>  <b>Co-chair:</b> <a href="#">Mbali Sibiyi</a>, <i>South Africa</i></p> <p>Urban water management is imperative to sustainable cities. The workshop will explore risks and challenges and the role of water utilities for providing solutions to sustainability. We will share knowledge on ensuring sustainability for urban water management, and discuss how utilities can contribute directly to the achievement of SDG 6, while also contributing to other goals.</p> <p><b>Speakers:</b> <a href="#">John Buur</a>, <i>Denmark</i>; <a href="#">Cheryl Davis</a>, <i>USA</i>; <a href="#">Kaia Bing</a>, <i>Norway</i>; <a href="#">Titilola Bright-Oridami</a>, <i>Nigeria</i>; <a href="#">Mohmad Asari Daud</a>, <i>Malaysia</i>; <a href="#">Prasad Kulkarni</a>, <i>India</i></p>	<p><b>Room 717 A Workshop</b></p>
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
<p><b>1.26 TARGETING METHANE GHG EMISSIONS FROM WASTEWATER</b></p> <p><b>Chair:</b> <a href="#">John Willis</a>, <i>USA</i>  <b>Co-chair:</b> <a href="#">Charlotte Scheutz</a>, <i>Denmark</i></p> <p>This two-part Workshop (first identifying likely CH<sub>4</sub> sources; and second on extreme outlier sources and solutions) will engage the audience to develop better industry understanding of CH<sub>4</sub>-emissions sources in centralized wastewater treatment. Each part begins with two introductory presentations framing context for related attendee-participation exercises. The speakers and organizers of this session are eager to learn from those exercises: making this an obvious workshop (as opposed to "training"). Because of CH<sub>4</sub>'s much higher short-term global warming potential (GWP-20 = ~90 compared to GWP-100 = ~25) and its potential leveraged use for renewable energy make this Session a "must have" for Toronto.</p> <p><b>Speakers:</b> <a href="#">Emma Shen</a>, <i>Canada</i>; <a href="#">Eveline Volcke</a>, <i>Belgium</i>; <a href="#">Jason Ren</a>, <i>USA</i>; <a href="#">John Willis</a>, <i>USA</i></p>	<p><b>Room 716 B Workshop</b></p>	<p><b>4.5 CHALLENGES IN SEWERAGE AND SEWER MANAGEMENT</b></p> <p><b>Chair:</b> <a href="#">Annalaura Carducci</a>, <i>Italy</i></p> <p>City Of Toronto Foundation Drainage Policy: Preserving Sewer Design Capacity, <a href="#">Nicole Segal</a>, <i>Canada</i></p> <p>Impacts Of Myopic And Panoramic Scheduling On Integrating The Dynamic Rehabilitation Of Urban Water Infrastructure Systems, <a href="#">Amin Minaei</a>, <i>Austria</i></p> <p>Sewer Gas Monitoring Pilot To Assess The Impact Of Sealing Perforated Sanitary Sewer Maintenance Hole Covers, <a href="#">Alonso Hurtado</a>, <i>Canada</i></p> <p>Increasing Flexibility Of Control In Sewer Management, <a href="#">Rodrigo da Silva Gesser</a>, <i>Luxembourg</i></p> <p><b>POSTERS</b></p> <p><i>Sewer Capacity Analysis And Discharge Permit Challenges In The Construction Industry</i>, <a href="#">Ramona Mirtorabi</a>, <i>Canada</i></p> <p><i>Techno-economic Analysis Of Sewage Conveyance In Scaled Decentralized Systems</i>, <a href="#">Pradip Kalbar</a>, <i>India</i></p>	<p><b>Room 717 A Technical</b></p>
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: Youth, technology and water, <a href="#">Farokh Kakar</a>, <i>Environmental Engineer, Brown and Caldwell Consultants</i>          Panel Moderator: <a href="#">Astrid Nørgaard Friis</a> Panellists: <a href="#">Marina Jimenez Galindo</a>, <a href="#">Abishek Narayan</a>, <a href="#">Sabrina Rashid Sheonty</a>, <a href="#">Saba Daneshgar</a></p>			



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<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>		
<p>Keynote: Financing water solutions for climate resilience, <b>Saroj Kumar Jha</b>, <i>Global Director, Water Global Practice, World Bank Group</i>          Keynote: The economics of water and beyond, <b>Henk Ovink</b>, <i>Executive Director, Commissioner, Global Commission on the Economics of Water, USA</i></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>2.6 BEYOND AUTOMATION – HOW DIGITAL TOOLS CAN ENABLE BREAKTHROUGH INNOVATION</b></p> <p>Chair: <b>Jan Hennigs</b>, <i>Germany</i>          Co-chair: <b>Kathrin Gantner</b>, <i>Germany</i>; <b>Deepa Karthykeyan</b>, <i>USA</i></p> <p>The workshop aims to explore problems in the process chain from planning over constructing to operating innovative water treatment technologies. The outcomes will form the basis of a roadmap towards overcoming these problems using digital tools. Zahnen Technik has created an engineering platform for the automatic creation of technical documents like circuit diagrams, P&amp;IDs, and Bills of Quantities based on customer specifications. In combination with another digital tool, a cloud based process control system, it enables the company's R&amp;D team to focus solely on innovation.</p> <p><b>Speakers:</b> <b>Jan Hennigs</b>, <i>Germany</i>; <b>Kimberly Worsham</b>, <i>USA</i>; <b>Deepa Karthykeyan</b>, <i>USA</i></p>	Room 718 A Workshop	<p><b>3.5 PARTICLE-ASSOCIATED VIRUSES AS EMERGING PATHOGENS IN WATER AND WASTEWATER</b></p> <p>Chair: <b>Danmeng Shuai</b>, <i>USA</i>          Co-chair: <b>Tiong GimAw</b>, <i>USA</i>; <b>Yun Shen</b>, <i>USA</i>; <b>Joan Rose</b>, <i>USA</i></p> <p>The workshop aims to provide the state-of-the-art knowledge and techniques to characterize particle-associated viruses in water environments, understand their presence, fate, transfer, and inactivation in water and wastewater treatment, and quantify their health risks. Ultimately, the discussion will promote the understanding of particle-associated viruses by the environmental engineering community and advance engineering interventions for waterborne pathogen control. The expected outcome from this workshop is an open-access perspective/review article published on top-tier environmental engineering journals, and it will be disseminated to the community at no cost.</p> <p><b>Speakers:</b> <b>Charles Gerba</b>, <i>USA</i>; <b>Scott Meschke</b>, <i>USA</i>; <b>Tiong Gim Aw</b>, <i>USA</i>; <b>Yun Shen</b>, <i>USA</i>; <b>Brian Pecson</b>, <i>USA</i>; <b>Raul Gonzalez</b>, <i>USA</i></p>	Room 718 B Workshop
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>2.7 BLUEPRINT FOR A CIRCULAR WATER SMART SOCIETY</b></p> <p>Chair: <b>Hein Molenkamp</b>, <i>Netherlands</i>          Co-chair: <b>Alan Shapiro</b>, <i>Canada</i></p> <p>The purpose of this session is to inform organizations on a global scale what types of circular water can be safely applied. The session also informs on existing obstacles in specific countries and on ways to overcome them, in order to accelerate the application of circular water worldwide and thus provide an important solution to the increasing water scarcity.</p> <p><b>Speakers:</b> <b>Hein Molenkamp</b>, <i>Netherlands</i>; <b>Alan Shapiro</b>, <i>Canada</i>; <b>Maarten Den Ouden</b>, <i>Netherlands</i>; <b>Arthur Valkieser</b>, <i>Netherlands</i></p>	Room 718 A Workshop	<p><b>3.6 IMPROVING EQUITY IN INTERMITTENT WATER SUPPLY NETWORKS: A COLLABORATIVE GAME</b></p> <p>Chair: <b>David Meyer</b>, <i>Canada</i>          Co-chair: <b>Pradip Kalbar</b>, <i>India</i>; <b>Raziyeh Farmani</b>, <i>UK</i>; <b>Kondwani Simukonda</b>, <i>Zambia</i></p> <p>The workshop aims to disseminate information and encourage discussion about Intermittent Water Supply (IWS) through an innovative, collaborative and interactive game. The workshop facilitators have created a game that allows for an enjoyable and productive experience, in which participants roleplay as IWS managers attempting to improve the equity of an IWS network. The game is designed to facilitate an exchange of experiences – academic and practical – and encourage participants to cooperate in addressing major IWS challenges. The game revolves around a simple water network designed to be operated continuously but due to underestimated demand, the network is forced to operate intermittently.</p> <p><b>Speakers:</b> <b>Chaitanya Ahuja</b>, <i>Canada</i>; <b>Florence Udenby</b>, <i>Canada</i>; <b>Ashish Nair</b>, <i>India</i>; <b>Pranesh M</b>, <i>India</i>; <b>Gabrielle Marega</b>, <i>Canada</i>; <b>Kevin Kuriakose Joseph</b>, <i>Canada</i>; <b>Omar Abdelazeem</b>, <i>Canada</i>; <b>Samantha LeValley</b>, <i>Canada</i></p>	Room 718 B Workshop
<b>Coffee Break</b>	<b>15:00 - 15:30</b>		
<b>Session 3</b>	<b>15:30 - 17:00</b>		
		<p><b>3.7 BRINE REDUCTION AND RESOURCE RECOVERY</b></p> <p>Chair: <b>Loreen Ople Villacorte</b>, <i>Denmark</i>          Co-chair: <b>Victoria Flexer</b>, <i>Argentina</i></p> <p>Freshwater is one of the most valuable resources for human consumption, agriculture and many industrial activities. Where freshwater is limited, brackish and saline water sources are converted to clean freshwater typically through reverse osmosis (RO) desalination process. Brine discharge (saline wastewater) from RO desalination and other industrial processes receives significant attention globally due to water scarcity and the need to protect the environment. Combining smart and water efficient membrane operations with brine valorization enables sustainable water treatment for the future. This synergy bring high recovery RO and zero liquid discharge into more widespread technological solutions.</p> <p><b>Speakers:</b> <b>Victoria Flexer</b>, <i>Argentina</i>; <b>Ruben Muñoz</b>, <i>Chile</i>; <b>Heidi Richards</b>, <i>South Africa</i>; <b>Loreen Ople Villacorte</b>, <i>Denmark</i>; <b>Aamer Ali</b>, <i>Denmark</i></p>	Room 718 B Workshop
<b>Break</b>	<b>17:00 - 17:15</b>		
<b>Keynote Plenary</b>	<b>17:15 - 18:00</b>		
<p>Keynote: Youth, technology and water, <b>Farokh Kakar</b>, <i>Environmental Engineer, Brown and Caldwell Consultants</i>          Panel Moderator: <b>Astrid Nørgaard Friis</b> Panellists: <b>Marina Jimenez Galindo</b>, <b>Abishek Narayan</b>, <b>Sabrina Rashid Sheonty</b>, <b>Saba Daneshgar</b></p>			

# Wednesday | Programme

## Keynote Plenary

09:00 - 09:45

BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
<p><b>10:30 — 11:15   SGS CANADA</b></p> <p><b>PFAS 1633</b> SGS will discuss the state of PFAS measurement in Canada and how it intersects with current and upcoming policy. New reference methods such as EPA 1633 have standardized the practice of targeted analysis of PFAS especially to aid in enforcement of regulation, PFAS treatment and more. But as the number and diversity of PFAS under scrutiny increases, new approaches such as organic fluorine testing, non target analysis and more are emerging. We will discuss all of these approaches and how they are being used today to inform PFAS mitigation and policy setting. <i>Dr. Bharat Chandramouli</i></p>	<p><b>10:30 — 11:15   XYLEM, INC.</b></p> <p><b>Are today's technology roadmaps sufficient to address reuse capacity that the world needs?</b> Attendees will be provided with throughputs of key existing and emerging technologies that can support potable reuse, and apply their own knowledge of technologies and processes to predict the scale of installations that might be required to keep pace with population growth. Groups will collate the results of this fun "mini-hack," which will lead to discussion of the gap between where we are today, and where we will need to be in 2030, when global demand is expected to exceed supply by 40%. Identification of technology and knowledge gaps will be summarized and shared by email after the conference. <i>Walt Kozlowski, Adam Ryder Session Moderator: Stephanie Smith</i></p>
<p><b>11:15 — 12:00   GRUNDFOS</b></p> <p><b>Sewer Security: predict, prevent and protect to enable a cleaner, greener world</b> More than 80% of the world's wastewater flows back into the environment without being treated or reused, according to the United Nations. Over 850 billion gallons of raw sewage are released into US waterways each year from sewer overflows alone. Higher temperatures and changing precipitation patterns are leading to more frequent and extreme weather events, such as floods and storms overwhelming the sewage system. With aging infrastructure, limited resources, a shortage of skilled labor, shifting regulatory standards and the pressure of time, utilities don't feel able to address today's problems, let alone what's coming next. What is the solution? What technologies are there available to address the problem? How IoT, Telemetry and sensors can help utilities predict storms, prevent overflows and protect the environment. <i>Ralph Exton, Grundfos VP and CMO Water Utility</i></p>	<p><b>11:15 — 12:00   GOVERNMENT OF ONTARIO</b></p> <p><b>Ontario Global Business Showcase: Empowering International Expansion</b> Dive into the diverse landscape of Ontario's business prowess with our Global Business Showcase, featuring presentations from 20 dynamic companies. Explore their innovative strategies and products as they aim to conquer international markets. Gain insights into the challenges and successes of expanding globally from Ontario's thriving business community. <i>Cinthy Ortiz</i></p>
<p><b>12:15 — 13:00   VEOLIA</b></p> <p><b>Transforming Municipal Wastewater Facilities into Energy Hubs</b> Canada has to replace, refurbish or build a sizable proportion of its vital municipal environmental infrastructure to accommodate demands for new housing and meet its climate change commitments. If Canada is to address its housing challenges while rebuilding or refurbishing its wastewater processing capacity, municipalities will have to consider new ways to support the development of critical environmental infrastructure. A number of communities throughout the world have transformed conventional wastewater facilities into resilient, productive local sustainability hubs called "Ecofactories." This presentation will discuss the Ecofactory approach, explore the challenges to overcome as well as present a case study. <i>Marco Fontana-Giusti, Vice-President of Municipal Services, Veolia North America (Canada)</i></p>	<p><b>12:15 — 13:00   AquaAction</b></p> <p><b>AquaAction Innovation Zone: Showcase of 10 water tech start ups</b> AquaAction is a North American freshwater innovation catalyzer, covering the full arc from water problem statement definition, through ideation, development, piloting and commercialization. It runs two technology programs from coast to coast, engaging young innovators into the AquaHacking Challenge and supporting their entrepreneurship journey, as well as accelerating commercial ready water tech startups across all industries. With over 85 start-ups in its community of water tech enterprises, AquaAction has created an Innovation Zone at IWA, and will share the 10 innovative water technologies that are on display. <i>Soula Chronopoulos, President of AquaAction</i></p>
<p><b>13:30 — 14:15   GEI CONSULTANS</b></p> <p><b>Is Asset Management the tide we need to navigate? Let's dive into the evolution of Asset Management and the crucial need to plan ahead, flowing from Ontario regulations and beyond</b> Asset Management: Critical planning for the long-term, sustainable management of your infrastructure and services provided to your community – are you ready? Join GEI, City of Toronto, Region of Peel and the Toronto Transit Commission to discuss the evolution of Asset Management under Ontario's regulations. Ontario is a leader in AM in North America, learn the challenges, opportunities and successes that have allowed these 3 leading organizations build better tools to make decisions and advance their AM initiatives, such as how to implement innovative digital tools/technology and how to integrate climate resilience goals into AM decision making. <i>Panel Discussion: Shelley Hazen, (GEI, Climate Change Specialist), Lou Di Gironimo (City of Toronto, GM of Water), Leanne Brannigan (Region of Peel, Director EAM), Sam Sidawi (TTC, Head of Enterprise Asset Management)</i></p>	<p><b>13:30 — 14:15   STELIS ENVIRONMENTAL SOLUTIONS</b></p> <p><b>Driving Change: How ColiMinder Transforms Water Treatment Economics and Ecology</b> <i>Steven Mallette, President, Stelis Environmental</i></p>
<p><b>15:45 — 16:30   SHARC ENERGY</b></p> <p>SHARC Energy's wastewater thermal energy exchange technology fits seamlessly into decarbonization plans by promoting electrification and significantly conserving water. Strategic access to the sewage authorities piping via tap easements can turn waste flow into a valuable community resource. The massive energy potential in daily wastewater can be harvested and transferred to the community buildings, creating a profit center for municipalities. SHARC Energy's innovative approach demonstrates how sustainable practices can drive environmental and economic benefits. <i>Michael Albertson</i></p>	<p><b>15:45 — 16:30   CANADIAN WATER AND WASTEWATER ASSOCIATION</b></p> <p><b>Canadian Innovation</b> As the Canada Pavilion and co-hosts, we hope to be able to feature a number of our Canadian Exhibitors in short 15 minute presentations. I would hope for one 45 min session each day for the Canada Pavilion. We are very flexible on time slots available. <i>Each session will feature 3 presenters (15 mins each) from amongst our exhibitors in the Canada Pavilion</i></p>

## Keynote Plenary

17:15 - 18:00

### 14:15 — 15:00 | JIANGSU TAIYUAN ENVIRONMENTAL SCIENCE AND TECHNOLOGY CORP., LTD

**Water plant in LEGO type Low carbon Fast Construction Lossless installation & removal**  
Water plant in LEGO type is steel structure assembled & prefabricated sewage (water purification) plant technology. Through standardized design, assembly, intelligent manufacturing, convenient in transport and installation. It can be disassembled and reassembled, based on the principle from Lego Blocks, developed more than ten different functions steel standardized modules for combination. Such Industrial intelligent manufacturing model is a groundbreaking research which would subvert the traditional concrete sewage treatment plant, wastewater purification plant which were rely on non-standardized site construction mode. Enable water treatment engineering to achieve assembled-engineering, modular-equipment, standardized-module, convenient (efficient)-assembly.  
*Cao Hui*



Thursday, 15 August

Track 1  
WATER UTILITY  
MANAGEMENT

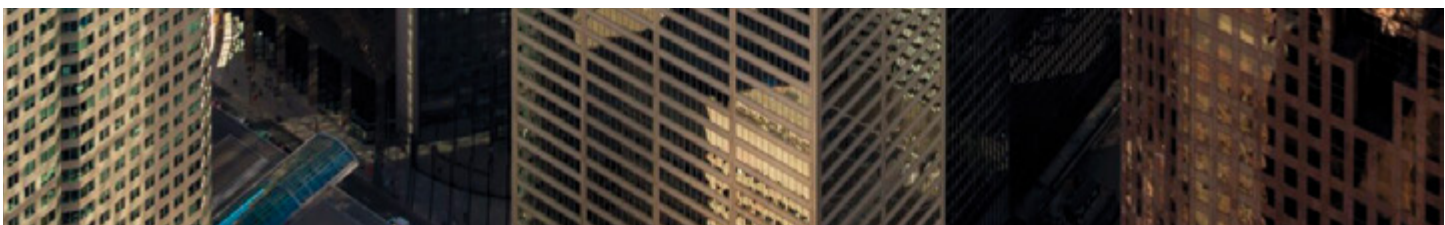
Track 2  
WASTEWATER  
TREATMENT AND  
RESOURCE RECOVERY

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



# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabuliile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>1.30 WATER/WASTEWATER MEASUREMENT AND OPERATIONS EXCELLENCE</b>	<b>Room 801 A Workshop</b>	<b>SO.4 IWA CLIMATE SMART UTILITIES RECOGNITION PROGRAMME WORKSHOP</b>	<b>Room 801 B Session</b>
<p><b>Chair:</b> <a href="#">Kevin McKinley, Canada</a></p> <p>The Workshop will have presentations by leading water industry and government speakers, followed by forum discussions, and an engaging closing panel session. Workshop participants will learn about and discuss risk management approaches to ensure public safety and water facility effectiveness, discussing and exchanging on real-world examples of best practice operation in Canadian municipalities.</p> <p><b>Speakers:</b> <a href="#">Jennifer Andersen, Canada</a>; <a href="#">Steve Craik, Canada</a>; <a href="#">Ema Gitej, Canada</a></p>		<p>The International Water Association (IWA), with the support of Xylem, is pleased to present the third edition of the IWA Climate Smart Utilities Recognition Programme. Building upon the successes of the 2022 and 2023 editions, this programme provides an excellent opportunity for utilities to reflect on their Climate Smart journeys, present their initiatives to an international audience, and share their aspirations for achieving a climate-smart water sector.</p> <p>During this workshop, the six most outstanding utilities of the 2024 edition, from Achiever and Entrant categories will showcase the key actions they have undertaken across three interconnected pillars: adaptation, mitigation, and leadership. Additionally, certificates of recognition will be awarded to all utilities recognized in the 2024 IWA Climate Smart Utilities Recognition Programme.</p> <p><i>The 2024 edition is powered by Xylem.</i></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>1.29: ADVANCEMENTS IN NON-SEWERED SANITATION</b>	<b>Room 801 A Workshop</b>	<b>4.10: WATER MANAGEMENT IN STRESSED URBAN AREAS - BRINGING COLLECTIVE UNDERSTANDING OF THE VALUE OF WATER</b>	<b>Room 801 B Workshop</b>
<p><b>Chair:</b> <a href="#">Jay Bhagwan, South Africa</a>; <a href="#">Kartik Chandran, USA</a></p> <p>This workshop aims to share practical developments and interventions, as well as new science and innovation in the area of Non-sewered sanitation (which includes Faecal Sludge management). There are many people in world and cities who will not realise piped or sewered sanitation, NSS and FSM offers the opportunity to leapfrog new systems, approaches, technology and processes to ensure that human waste can be management through innovation and smartness.</p> <p><b>Speakers:</b> <a href="#">Jennifer Molwantwa, South Africa</a>; <a href="#">Doulaye Kone, USA</a>; <a href="#">Kartik Chandran, USA</a>; <a href="#">Marc Dehusses, USA</a>; <a href="#">Srinivas Chari, India</a></p>		<p><b>Chair:</b> <a href="#">Lykke Leonardsen, Denmark</a>; <a href="#">Inês Breda, Denmark</a></p> <p>The purpose of this session is to reinforce the imperative for collaborative efforts among diverse stakeholders in addressing climate change within urban environments. Additionally, it will underscore the importance of integrating urban water resilience into comprehensive city planning, emphasizing the need for collaborative initiatives across businesses with an impact on the local ecosystem, considering both water footprint and handprint.</p> <p><b>Speakers:</b> <a href="#">Virginia Newton, Grundfos</a>; <a href="#">Cassie Sutherland</a>; <a href="#">Mayor NYC (TBC)</a>; <a href="#">Mayor Phoenix (TBC)</a>; <a href="#">Mayor Sao Paulo (TBC)</a>; <a href="#">Mayor Montreal (TBC)</a>; <a href="#">IWA Representative (TBC)</a></p>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		

# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts</a>, <i>Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</i> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabulile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<p><b>SO.5 ENHANCING UTILITY-REGULATORS COLLABORATION FOR EFFICIENT AND RESILIENT WATER SUPPLY AND SANITATION (WSS) SERVICES</b></p> <p><b>Room 803 A Session</b></p> <p>The purpose of this session is to explore the multifaceted relationship between water and sanitation regulators and utilities, with a focus on achieving efficiency gains, appropriate tariff setting, and attaining resilient Water Supply and Sanitation (WSS) services. The session will address the challenges and opportunities for collaboration, emphasizing dynamics involved in governance and operational interactions.</p> <p>The desired output of this session is to generate actionable insights and strategies for regulators and utilities. Participants will leave with a better understanding of how to navigate the complex relationship between governance and operations within utilities, and how to sustain service improvements towards achieving SDG targets and beyond.</p> <p>The outcomes of this session will be disseminated through a comprehensive report. The insights gained will be applicable in policy formulation, operational strategies, and educational programmes.</p>		<p><b>4.13 NATURE-BASED SOLUTIONS - SESSION 2: BARRIERS AND CHALLENGES FOR IMPLEMENTATION OF NBS</b></p> <p><b>Room 803 B Workshop</b></p> <p>Chair: <a href="#">Guenter Langergraber</a>, <i>BOKU University</i> Co-chair: <a href="#">Rob Cunningham</a>, <i>TNC</i></p> <p>Speakers: <a href="#">Bernhard Pucher</a> or <a href="#">Guenter Langergraber</a>, <i>BOKU University</i>; <a href="#">Jaimie Nivala</a> (<i>INRAE</i>) or <a href="#">Pedro Carvalho</a>, <i>Aarhus University</i>; <a href="#">Nancy Lilly</a>, <i>TNC</i>; <a href="#">Oscar Alvarado</a>, <i>LG Sonic</i>; <a href="#">Robin Price</a> or <a href="#">Chris Gerrard</a>, <i>Anglian Water</i></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<p><b>2.8 NEW PARADIGM OF WASTEWATER TREATMENT IN FAST-URBANIZING REGION</b></p> <p><b>Room 803 A Workshop</b></p> <p>Chair: <a href="#">Rong Chen</a>, <i>China</i> Co-chair: <a href="#">Shuming Liu</a>, <i>China</i>; <a href="#">Zhiwei Wang</a>, <i>China</i>; <a href="#">Yujie Feng</a>, <i>China</i></p> <p>The purpose of this session is to gather experts, policymakers, and practitioners from fast-urbanizing countries to discuss the challenges and opportunities of the wastewater treatment. Specifically, the session aims to highlight the latest innovations and best practices in wastewater treatment and management, focusing on energy efficiency, greenhouse gas reduction, and the transformation of wastewater into a valuable resource. The desired output of this session is to: Identify common challenges and opportunities in wastewater management across fast-urbanizing countries; Showcase successful case studies and best practices in innovative wastewater treatment technologies.</p> <p>Speakers: <a href="#">Rong Chen</a>, <i>China</i>; <a href="#">Zhiwei Wang</a>, <i>China</i>; <a href="#">Shuming Liu</a>, <i>China</i>; <a href="#">Can Wang</a>, <i>China</i>; <a href="#">Yu-You Li</a>, <i>Japan</i>; <a href="#">Yujie Feng</a>, <i>China</i>; <a href="#">Guanghua Wang</a>; <a href="#">Fengyu Guo</a>, <i>China</i>; <a href="#">Joan Rose</a>, <i>USA</i>; <a href="#">Xiaochang Wang</a>, <i>China</i>; <a href="#">Guodong Xu</a>, <i>China</i></p>		<p><b>4.14 NATURE-BASED SOLUTIONS - SESSION 3: STREAMLINING EFFORTS TO PROMOTE NBS</b></p> <p><b>Room 803 B Workshop</b></p> <p>Chair: <a href="#">Guenter Langergraber</a>, <i>BOKU University</i> Co-chair: <a href="#">Anacleto Rizzo</a>, <i>IRIDRA IWA Nbs Working Group</i></p> <p>Speakers: <a href="#">Robin Price</a> or <a href="#">Chris Gerrard</a>, <i>Anglian Water</i>; <a href="#">Jan Friesen</a>, <i>UFZ</i>; <a href="#">Nancy Lilly</a>, <i>TNC</i>; <a href="#">Alexandra Popartan</a>, <i>University of Girona</i>; <a href="#">Tom Mollenkopf</a>, <i>IWA President (TBC)</i>; <a href="#">N.N.</a>, <i>High-level exec from The Nature Conservancy (TBC)</i>; <a href="#">N.N.</a>, <i>IWA Urban Drainage SG (TBC)</i>; <a href="#">Tony Wong</a>, <i>Monash Sustainable Development Institute</i>; <a href="#">Anacleto Rizzo</a>, <i>IRIDRA, Chair, IWA Nbs Working Group</i></p>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		

# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabulile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>1.5 INCORPORATING HYDROGEN INTO BUSINESS AS USUAL, A GLOBAL VIEW</b>	<b>Room 701 A Workshop</b>	<b>2.28 FOOD WASTE BIOSOLIDS MANAGEMENT &amp; REUSE - SESSION 2</b>	<b>Room 701 B Technical</b>
<p>Chair: <a href="#">Shaunna Berendsen, UK</a></p> <p>In 2022 Anglian Water were awarded £4.7m by Ofwat, their economic regulator, to fund the project coined 'Triple Carbon Reduction'. The evidenced a step change reduction in greenhouse gas emissions and electricity used in the water treatment process. It simultaneously created a new renewable energy source through green hydrogen production. Now well underway, this workshop and panel looks in more detail at that project and, best practice examples of hydrogen creation and use across the globe.</p> <p><b>Speakers:</b> <a href="#">Blanca Antizar, Spain</a>; <a href="#">Chris Brace, Australia</a>; <a href="#">Jacobs, Canada</a>; <a href="#">Mark Fletcher, UK</a></p>		<p>Chair: <a href="#">Banu Ormeci, Canada</a> Co-chair: <a href="#">Kwadwo Gyasi, Ghana</a></p> <p>Achieving Unprecedented Intensification Rates Coupling Anaerobic Digestion And Side-stream Evaporation With The IntensiCarb™ Process: Experimental And Modelling Studies, <a href="#">Ali Khadir, Canada</a></p> <p>Anaerobic Digesters Mixing Performance Simulations, Considering Solids To Understand Long-term Performances, <a href="#">Roberta Muoio, Belgium</a></p> <p>Biosolids Management And Cryptic Currencies – Net Zero, Emerging Contaminants, And New Biosolids Markets, <a href="#">Ruth Roxburgh, Canada</a></p> <p>The Effect Of Coagulant Conditioning On The Dewaterability Of Digested Food Waste Sludge For Filter-press, <a href="#">Sanggyun Kim, Republic of Korea</a></p> <p><b>POSTERS</b></p> <p><i>Screening Of Emerging New Technologies For Sludge Treatment With Focus On Destruction Of Environmentally Hazardous Substances And Energy Production</i>, <a href="#">Anne Holm Jensen, Denmark</a></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>4.8 NAVIGATING THE WAVES: ACHIEVING THE GOALS OF THE UN WATER MINISTERS CONFERENCE 2023</b>	<b>Room 701 A Workshop</b>	<b>3.8 CATALYZING INNOVATIONS FOR WATER RESILIENT CITIES: POLICY AND PRACTICE IN INDIA</b>	<b>Room 701 B Workshop</b>
<p>Chair: <a href="#">Michael Rouse, UK</a> Co-chair: <a href="#">Gemma Boag, Canada</a></p> <p>The Global Water Cycle is a global common good; the human right to safe drinking water and sanitation must be accessible to all populations without further delay; and rather than being a threat to life, water must become a catalyst for health and well-being, securing nutrition and energy for all.</p> <p><b>Speakers:</b> <a href="#">Michael Rouse, UK</a>; <a href="#">Gemma Boag, Canada</a>; <a href="#">Representatives from IWMI</a>; <a href="#">IWA Strategic council</a>; <a href="#">IWA Regulatory Forum</a>; <a href="#">Oxford graduate from developing country</a></p>		<p>Chair: <a href="#">Srinivas Chary Vedala, India</a> Co-chair: <a href="#">Ramakant, India</a></p> <p>With an urban population of over 470 million and over 4041 urban local bodies, India faces significant challenges in providing adequate and safely managed urban water and sanitation services to its rapidly growing population. Climate change exasperated the situation. The government recognised that the business-as-usual approach to infrastructure and service delivery would compromise the time of implementation and quality of service. In response, it has introduced a technology sub-mission, focusing on sourcing and institutionalising innovations. The Wash Innovation Hub (WIH) at the Administrative Staff College of India (ASCI) was mandated to anchor this initiative.</p> <p><b>Speakers:</b> <a href="#">D. Tara, IAS, India</a>; <a href="#">Ramakant, India</a>; <a href="#">Manoj Gulati, India</a>; <a href="#">Suresh Krishana, India (TBC)</a>; <a href="#">Malini Reddy, India</a>.</p>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		

# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabulile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>1.5 HOW TO GO DIGITAL AS A WATER UTILITY - SESSION 2</b>	<b>Room 703 Technical</b>	<b>1.11 NITROUS OXIDE EMISSIONS IN FULL-SCALE OPERATIONS</b>	<b>Room 705 Technical</b>
<p>Chair: <a href="#">Rosemary Campbell, United Kingdom</a> Co-chair: <a href="#">Boyan Xu, China</a></p> <p>How GIS Supports Digital Transformation &amp; Sustainable Management, <a href="#">Christa Campbell, United States</a></p> <p>Low-energy IoT System For Continuous Monitoring Of Water Quality In Drinking Water Distribution Networks, <a href="#">Javier García del Río, Spain</a></p> <p>Technology Adoption Across South Asian Utilities: Evidence Of Leapfrogging?, <a href="#">Faisal Shaheen, Canada</a></p> <p>Water Service Replacement During Watermain Rehabilitation - Data Collection, Analysis, And GIS Visualization To Plan Water Service Replacements For The City Of Toronto, <a href="#">Aditya Dhamorikar, Canada</a></p> <p><b>POSTERS</b></p> <p><i>A Full-scale Operational Digital Twin For A Water Resource Recovery Facility – The Case Of Eindhoven WRRF</i>, <a href="#">Saba Daneshgar, Belgium</a></p>		<p>Chair: <a href="#">Mark Van Loosdrecht, Netherlands</a> Co-chair: <a href="#">Nerea Uri Carreno, Denmark</a></p> <p>AWAIRE - Novel Approaches To Plant-Wide N<sub>2</sub>O Quantification: Comparative Study Of Four Measurement Methods, <a href="#">Dines Thornberg, Denmark</a></p> <p>Quantifying Nitrogenous Greenhouse Gas From Emerging Biological Nutrient Removal (BNR) Processes, <a href="#">Kartik Chandran, United States</a></p> <p>Assessment And Long-term Monitoring Of N<sub>2</sub>O Process Emissions At Two Scottish WRRFs, <a href="#">Susan Lee, United States</a></p> <p>Demonstrating N<sub>2</sub>O Mitigation In Two Advanced Full-scale WWTPs, <a href="#">Maria Valtari, Finland</a></p> <p><b>POSTERS</b></p> <p><i>N<sub>2</sub>O Emissions Assessment, Mitigation, And Reporting At A Canadian Full-scale WWTP</i>, <a href="#">Roberta Muoio, Belgium</a></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>1.16 FROM DRAIN TO DATA: NAVIGATING THE WATERS OF AI IN WASTEWATER ENGINEERING</b>	<b>Room 703 Workshop</b>	<b>1.12 NITROUS OXIDE MODELLING AND CONTROL</b>	<b>Room 705 Technical</b>
<p>Chair: <a href="#">Mohamed Zaghoul, UAE</a> Co-chair: <a href="#">Ahmed Alsayed, USA</a></p> <p>This 2-part (90-minute x 2) workshop aims to foster dynamic dialogues surrounding machine learning (ML) applications within the wastewater sector. We aim to explore its limitations and consider hybrid approaches. Our diverse audience, composed of water industry professionals spanning academia, consulting, utilities, and technology providers, will engage in a multi-faceted discourse, generating comprehensive insights. Post-workshop, we will craft a white paper summarizing these discussions and circulate it among participants to gather their ultimate perspectives.</p> <p><b>Speakers:</b> <a href="#">Usman Khan, Canada</a>; <a href="#">Ahmed Alsayed, USA</a>; <a href="#">Mostafa Khalil, Canada</a>; <a href="#">Mohamed Zaghoul, UAE</a>; <a href="#">Peter Vanrolleghem, Canada</a></p>		<p>Chair: <a href="#">Wim Audenaert, Belgium</a> Co-chair: <a href="#">Hui Guo, Canada</a></p> <p>Application Of Advanced Process Control To Reduce N<sub>2</sub>O Emissions In Wastewater Treatment Works, <a href="#">Otto Icke, Netherlands</a></p> <p>Predicting And Mitigating N<sub>2</sub>O Emissions In WWTPs – Can Digital Twins Help Utilities Achieve Carbon Neutrality? <a href="#">Ryan Sanford, Denmark</a></p> <p>N<sub>2</sub>O Monitoring Redefined: Interpretable Machine Learning For Robust Decision Support In WRRFs, <a href="#">Mostafa Khalil, Canada</a></p> <p>Designing WWTPs For Both Minimal N<sub>2</sub>O Emissions And Best Effluent Quality, <a href="#">Wim Audenaert, Belgium</a></p> <p><b>POSTERS</b></p> <p><i>Quantifying, Modelling And Mitigating N<sub>2</sub>O Process Emissions: The Launch Of Welsh Water's N<sub>2</sub>O Reduction Journey</i>, <a href="#">Jose Porro, United Kingdom</a></p>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		

# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabuliile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>1.17 WATER TARIFFS IN A CHALLENGING WORLD</b>	<b>Room 707 Workshop</b>	<b>3.9 BIOFILMS AND PATHOGEN MANAGEMENT IN WATER DISTRIBUTION</b>	<b>Room 709 Technical</b>
<p>Chair: <a href="#">Ed Smeets, The Netherlands</a> Co-chair: <a href="#">Teodor Popa, Romania</a></p> <p>The main outcome of the workshop would be to give the participants concrete examples of the finance impact of the mentioned factors; to explore the correlation between the operational, technical and climate mitigation measures with the available funding resources; how this impacts the customers and the public budgets.</p> <p>Speakers: <a href="#">Ann Bijmens, Belgium</a>; <a href="#">David Tipping, Australia</a>; <a href="#">Nishu Fuminori, Japan</a>; <a href="#">Augustin Boer, Romania</a></p>		<p>Chair: <a href="#">Gertjan Medema, Netherlands</a> Co-chair: <a href="#">Chenwei Zheng, United States</a></p> <p>Enhancing Drinking Water Quality: Impact Of Biofilm In Danish PE Pipe Systems, <a href="#">Lone Tang, Denmark</a></p> <p>Reconsidering The Impact Of Water Age On Opportunistic Pathogen Growth, <a href="#">Tolulope Odimeyomi, USA</a></p> <p>Biofilm Structure And Composition Under Varied Flow Conditions: Implications For Drinking Water Distribution, <a href="#">Vinila Vasam, USA</a></p> <p>Development And Validation Of A Web-based Tool (CaST) For Minimising The Risk Of Nitrification In A Chloraminated System, <a href="#">Arumugam Sathasivan, Australia</a></p> <p>POSTERS</p> <p><i>Composition Of The Microbial Communities Within Sediment And Water In Chlorinated Drinking Water Distribution System Storage Tanks, <a href="#">Eva Bridges, USA</a></i></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>3.8 NON REVENUE WATER &amp; LEAKAGE MANAGEMENT</b>	<b>Room 707 Technical</b>	<b>3.11 PATHOGEN DETECTION METHODS</b>	<b>Room 709 Technical</b>
<p>Chair: <a href="#">Gary Wyeth, Thailand</a> Co-chair: <a href="#">Thomas Chen, United States</a></p> <p>Challenges In Tackling Trunk Loss In Kowloon Region Of Hong Kong Special Administrative Region Of The People's Republic Of China, <a href="#">Sze Man Chan, Hong Kong, China</a></p> <p>Experimental Observations Of The Initial Leaks Formed In Pitted Grey Cast Iron Water Pipes Due To Cyclic Water Pressure Fatigue Loading, <a href="#">Edward John, United Kingdom</a></p> <p>Porto's NRW Management And Reduction Strategy – From 54% To 13% In Less Than 20 Years, <a href="#">Sara Cunha, Portugal</a></p> <p>A Collaborative Model To Accelerate And Scale Transformative Solutions To Critical Water Challenges, <a href="#">Victoria Edwards, United Kingdom</a></p> <p>POSTERS</p> <p><i>Scalable District Metering Area Agnostic Leakage Detection, <a href="#">Michel Hoese, Norway</a></i></p> <p><i>Application/ Deployment Of Internet Of Things In The Management Of Non-Revenue Water In A Water Distribution Network, <a href="#">Patrick Obunga, South Africa</a></i></p>		<p>Chair: <a href="#">Ricardo Santos, Portugal</a> Co-chair: <a href="#">Bayan Khojah, Netherlands</a></p> <p>Development Of A Simple Analytical Method For Legionella Pneumophila Using Novel DNA Aptamer-Gold Nanoparticle Conjugates, <a href="#">Koji Matsunaga, Japan</a></p> <p>Using Natural Virus Markers To Safeguard The Integrity Of Membrane Treatment Plants, <a href="#">Emile Cornelissen, Netherlands</a></p> <p>Paper-based Microfluidic Device For The Detection Of Bacteria And Antimicrobial Resistance Genes In Drinking Water, <a href="#">Zhugen Yang, United Kingdom</a></p> <p>Enhanced Virus Capture And Detection In A Freshwater Lake: Implications For Viral Monitoring And Microbial Risk Assessments, <a href="#">Emalie Hayes, Canada</a></p> <p>POSTERS</p> <p><i>Comparing The Diversity Of Microbial Fungal Communities Found In Different Water Types, <a href="#">Caroline Reed, USA</a></i></p> <p><i>UVB Direct Photolysis Inactivates Vesicle-cloaked Murine Norovirus Clusters, <a href="#">Jiahao Chen, USA</a></i></p>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		



# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabuliile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
		<p><b>Room 711 Workshop</b></p>	<p><b>Room 713 Workshop</b></p>
		<p><b>4.3 DEMONSTRATING GLOBAL PRACTICES FOR SMART RESILIENT CITIES</b></p> <p>Chair: <a href="#">Tony Wong, Australia</a> Co-chair: <a href="#">Dr Michael Storey, Australia</a></p> <p>This panel conversation on Demonstrating Global Practices for Smart Resilient Cities will convene city officials that have implemented, in a significant way, initiatives and design and planning principles to meet the increasing challenges of climate change and urbanisation. This is moving from conceptual ideas and implementation one or a few specific initiatives to learning and gaining inspirations from cities that have "actually pulled it off".</p> <p>Speakers: <a href="#">Tony Wong, Australia</a>; <a href="#">Wnag Hao, China</a>; <a href="#">Bernard Koh, Singapore</a>; <a href="#">Nerina Di Lorenzo, Australia</a></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
		<p><b>Room 711 Workshop</b></p>	<p><b>Room 713 Workshop</b></p>
		<p><b>1.23 THE PERFECT PAIRING; DATA AND DIGITAL MEET ECOLOGY</b></p> <p>Chair: <a href="#">Peter Simpson, UK</a> Co-chair: <a href="#">Simon Parsons, Scotland</a></p> <p>The solutions to managing water must move away from increasing 'end of the pipeline' investments, to solutions developed at the catchment scale, utilising nature based solutions where ever possible. This would allow us to address the challenges at, or closer to, the source. Digital technologies provide the mechanism through which we can inform and transform our relationship with the environment and deliver and optimise these solutions for sustainable water and waste water management.</p>	
		<p><b>1.14 CLOSING THE GAP BETWEEN CLIMATE ADAPTATION AND CLIMATE MITIGATION</b></p> <p>Chair: <a href="#">Alexis De Kerchove, Sweden</a> Co-chair: <a href="#">Amanda Lake, UK</a></p> <p>Amid the escalating global climate crisis, the imperative to strategically prioritize adaptation projects in the water sector is more pressing than ever for water professionals. This workshop emphasizes the critical need for action. As climate change continues to exert its influence, the reduced focus on climate mitigation heightens the risk of perpetuating conventional water services, magnifying the urgency for future adaptation efforts.</p> <p>Speakers: <a href="#">Jon Rathjen, Scotland</a>; <a href="#">Sarah Bergado, Philippines</a>; <a href="#">Lindsay Birt, Xylem</a>; <a href="#">David Ponder, USA</a>; <a href="#">Jessica Akande, Canada</a>; <a href="#">Daniel Nolasco</a></p>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		

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<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabulile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>	
<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.24 NANOMATERIALS AND NANOTECHNOLOGY</b>	<b>Room 714 Technical</b>	<b>2.16 RECOVERY OF NUTRIENTS AND CHEMICALS - SESSION 1</b>	<b>Room 715 A Technical</b>
<p>Chair: <a href="#">Wenjun Sun, China</a> Co-chair: <a href="#">Daniel Kamal, Canada</a></p> <p>Influence Of Residual Coagulant On The Dynamic Evolution Of RO Membrane Fouling: Insights From Fouling Composition And Metagenomic Analysis, <a href="#">Haojie Ding, China</a></p> <p>Floatable ZnO-coated Micro Glass Bubbles For Sustainable And Renewable Solar Light-Driven Photodegradation Of Micropollutants In Wastewater Treatment, <a href="#">Yanan Li, Canada</a></p> <p>From By-product To Resource: An Integrated Approach For The Recovery Of Phosphorous From Industrial Side Stream, <a href="#">Malgorzata Szlachta, Finland</a></p> <p>3D Evaporative Crystallization For Lithium Recovery From Saline Water, <a href="#">Xi Chen, China</a></p>		<p>Chair: <a href="#">Catherine Mulligan, Canada</a> Co-chair: <a href="#">Daniel Gyamfi Opoku, Ireland</a></p> <p>Exploring The Valorisation Potential Of Urban Wastewater In Flanders By The Application Of A 2-stage Technology, <a href="#">Lennert Dockx, Belgium</a></p> <p>Ozone Treatment To Achieve Dominant Culture Of A Microalga Haematococcus Lacustris In Wastewater For Sustainable Phosphorous Recovery, <a href="#">Hideaki Nagare, Japan</a></p> <p>Relevance Of The Selection Time Of Mixed Microbial Cultures On PHA (polyhydroxyalkanoates) Production And Composition Using Residual Streams Of The Fruit Juice Industry, <a href="#">Heidrun Steinmetz, Germany</a></p> <p>Resource Recovery In Practise, <a href="#">Dines Thornberg, Denmark</a></p>	
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>2.25 OTHER PHYSICO-CHEMICAL TREATMENT TECHNIQUES</b>	<b>Room 714 Technical</b>	<b>2.17 RECOVERY OF NUTRIENTS AND CHEMICALS - SESSION 2</b>	<b>Room 715 A Technical</b>
<p>Chair: <a href="#">Stijn Van Hulle, Belgium</a> Co-chair: <a href="#">William Amoah, Ghana</a></p> <p>Novel Use Of Ferrous Iron  peroxymonosulfate For High-performance Seawater Desalination Pretreatment Under Harmful Algal Blooms, <a href="#">How Young Ng, China</a></p> <p>Modelling The Chemical Phosphorus Removal Of Peroxide Regenerated Iron, <a href="#">Amr Ismail, Canada</a></p> <p>Catalytic-oxidation Of Mn(II) By Superfine Activated Carbon: Mechanism And Kinetic Analysis, <a href="#">Shun Saito, Japan</a></p> <p>Surface Engineering Of Polyurethane For E.coli Removal From Water, <a href="#">Mina Mahdian, Canada</a></p>		<p>Chair: <a href="#">Jianhua Guo, Australia</a> Co-chair: <a href="#">Soureyatou Hamidou, Canada</a></p> <p>Comparing Two Advanced Selection Strategies For Polyhydroxyalkanoate Production From Domestic Wasted Sewage Sludge, <a href="#">Giorgio Mannina, Italy</a></p> <p>CaCO<sub>3</sub> Packed Electrochemical Precipitation Systems For Wastewater Nutrient Recycling: Boosted Performance And Innovations In Sustainable Solid Waste And Wastewater Management, <a href="#">Zhengshuo Zhan, China</a></p> <p>Eutectic Freeze Crystallization; A Novel Technique To Recover Nutrients From Human Urine, <a href="#">Caitlin Courtney, South Africa</a></p> <p>Removal Of Boron By Multi-stage Calcium-based Chemical Oxo-precipitation, <a href="#">Po Lin Liao, Chinese Taipei</a></p> <p>POSTERS</p> <p>Use Of The By-product Oxygen From Water Electrolysis For Wastewater Treatment, <a href="#">Linda Muller, Germany</a></p> <p>Analysis Of Phosphorus Recovery Pathways During Wastewater Treatment: Plant-wide Effects, <a href="#">Eveline Volcke, Belgium</a></p>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		

# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabuliile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>			
<b>Coffee Break</b>	<b>09:45 - 10:30</b>				
<b>Session 1</b>	<b>10:30 - 12:00</b>				
<p><b>6.6 INTEGRATED WATER RESOURCES MANAGEMENT AND CLIMATE CHANGE</b></p> <p>Chair: <a href="#">Kay Moeller, Germany</a> Co-chair: <a href="#">Marjolein Vanoppen, Belgium</a></p> <p>Adaptive Pathways Approach To Achieving City Water Resilience, <a href="#">Ryan Brotchie, Canada</a></p> <p>Designing Wastewater Treatment Plant Sites To Deliver Significant Biodiversity Value, <a href="#">Natalie Hackett, Australia</a></p> <p>Reaching Carbon Neutral Water Services In Finland, <a href="#">Suvi Lehtoranta, Finland</a></p> <p>Circularity And Sustainability Of Minimal Liquid Discharge Desalination System And Products: Assessment Approaches And Allocation Methods, <a href="#">João Ribeiro, UK</a></p> <p>POSTERS</p> <p>Thirsty Crops, Hungry Populations: Balancing Water Use In Bangladesh's Diet, <a href="#">Kamrul Islam, Japan</a></p> <p>Impact Of Wastewater Characteristics And Climate Factors On The N2 And N1 Gene Target Ratios During Wastewater Surveillance Of SARS-CoV-2, <a href="#">Lena Carolin Bitter, Canada</a></p>		<p>Room 715 B Technical</p>	<p><b>2.9 MEWE-BIOCLUSTER WORKSHOP: ADVANCING THE FRONTIERS OF INTEGRATED 'OMICS</b></p> <p>Chair: <a href="#">Ameet Pinto, USA</a> Co-chair: <a href="#">Cindy Smith, UK</a></p> <p>Advances in 'omics methods are pushing the boundaries of discovery in the microbiology. Nowhere are the impacts of these advances more apparent than in the water industry which relies on microbial communities to deliver sustainable processes of wastewater treatment, resource recovery, and drinking water. Yet, the microbial discovery process can be rife with pitfalls and lost opportunities.</p>		<p>Room 716 A Workshop</p>
<b>Lunch</b>	<b>12:00 - 13:30</b>				
<b>Session 2</b>	<b>13:30 - 15:00</b>				
<p><b>6.9 WATER RESOURCES MANAGEMENT TOWARDS SUSTAINABLE DEVELOPMENT GOALS (SDG): ENERGY AND RESOURCES MANAGEMENT</b></p> <p>Chair: <a href="#">Paul Brown, United States</a> Co-chair: <a href="#">Pranesh Muthuchami, India</a></p> <p>Assessing The Impact Of Indirect Groundwater Recharge Through Recycled Water For Food Security In Semi-Arid Regions, <a href="#">Manjari Manjari, India</a></p> <p>Assessment Of The Viability Of PRO Technology For Environmentally Sustainable Treatment Of Mining Wastewater And Energy Production, <a href="#">Giti Nouri, Canada</a></p> <p>Liquid Metal Technology For Collection Of Metal Resources From Seawater Desalination Brine And Polluted Groundwater, <a href="#">Toranosu Horikawa, Japan</a></p> <p>The Importance Of A Systemic Approach To Tackle The Issue Of Emerging Contaminants: Mapping Is The Key, <a href="#">Dores Cirne, Belgium</a></p> <p>POSTERS</p> <p>Circularity Assessment Of High Value-Added Resource Recovery; Ectoine Production From Biogas, <a href="#">David Renfrew, UK</a></p> <p>The Perspective Of A Smart City By Endorsing The Nexus In Integrated Water And Energy Security Management: The Case Of Semnan, Iran, <a href="#">Mohammad Reza Safaeian, Iran</a></p>		<p>Room 715 B Technical</p>	<p><b>4.11 PROGRESS OF INCLUSIVE SANITATION IN BANGLADESH / SOUTH ASIA</b></p> <p>Chair: <a href="#">Tanvir Ahmed, Bangladesh</a> Co-chair: <a href="#">Md Tahmidul Islam, Bangladesh</a></p> <p>The purpose of our session at the IWA World Water Congress 2024 is to share the progress of inclusive sanitation in Bangladesh as well as the experience from the South Asia region, focusing on Citywide Inclusive Sanitation (CWIS) approach. The output is to generate comprehensive insights into the current state of inclusive sanitation, highlighting key obstacles and potential solutions. This aims to disseminate these findings widely within the international water and sanitation community, including policymakers, practitioners, researchers, and NGOs, to catalyze meaningful collaboration.</p> <p>Speakers: <a href="#">Abdullah, Al-Muyeed, Bangladesh</a></p>		<p>Room 716 A Workshop</p>
<b>Coffee Break</b>	<b>15:00 - 15:15</b>				
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>				
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<b>Coffee Break</b>	<b>09:45 - 10:30</b>		
<b>Session 1</b>	<b>10:30 - 12:00</b>		
<b>2.10 COLLABORATIVE SOLUTIONS TO EMERGING CONTAMINANTS UNDER CLIMATE CHANGE</b>	<b>Room 716 B Workshop</b>	<b>5.12 AN ACCOUNTABILITY FRAMEWORK PROPOSAL FOR REALISTIC YOUTH ENGAGEMENT IN SDG 6</b>	<b>Room 717 A Workshop</b>
Chair: <a href="#">Bing Chen, Canada</a> Co-chair: <a href="#">Chris Marvin, Canada</a> ; <a href="#">Baiyu (Helen) Zhang, Canada</a> ; <a href="#">Satinder K. Brar, Canada</a>		Chair: <a href="#">Yang Villa, Denmark</a> Co-chair: <a href="#">Farokh Kakar, Canada</a>	
This workshop focuses on the emerging contaminants (not covered by the other sessions in the Congress) including flame retardants, pharmaceuticals and personal care products (PPCPs), PAHs and derivatives, and hazardous & noxious substances (HNS), etc. They have been given significant and growing attention due to their toxic, carcinogenic, and/or bio-accumulative properties and associated long-term ecological and health risks. This workshop aims to work with participants to identify the value of current research and facilitate the understanding of the scientific issues associated with their production and usage and the research gaps they brought. Moreover, we will delve into critical aspects and discuss collaborative solutions across disciplines and sectors at a global scale.		In this session, we will launch and present the YouthAction4SDG6 Accountability Framework to support organizations to start or elevate their youth engagement, particularly through their Water Action Agenda commitments.	
<b>Speakers:</b> <a href="#">Adewale Adewuyi, Nigeria</a> ; <a href="#">Bill Malyk, Canada</a> ; <a href="#">David Waite, Australia</a> ; <a href="#">Dongxiao Wang, China</a> ; <a href="#">Gertjan Medema, Netherlands</a> ; <a href="#">Jinren Ni, Denmark</a> ; <a href="#">Katrin Vorkamp, Norway</a>			
<b>Lunch</b>	<b>12:00 - 13:30</b>		
<b>Session 2</b>	<b>13:30 - 15:00</b>		
<b>1.31 WOMEN IN WATER- THE IMPORTANCE OF EQUITY DIVERSITY AND INCLUSION ACROSS UTILITY SECTORS AND ASSET MANAGEMENT</b>	<b>Room 716 B Workshop</b>	<b>6.11 CHALLENGES AND PROGRESS TOWARDS ACHIEVING THE SUSTAINABLE DEVELOPMENT GOALS (SDG)</b>	<b>Room 717 A Technical</b>
Chair: <a href="#">Vanessa Chau, Canada</a>		Chair: <a href="#">Ruben Fernandes, Portugal</a> Co-chair: <a href="#">Alyina Rizwan Hashmi, Pakistan</a>	
The Women in Water- Equity Diversity and Inclusion Forum includes interactive panels and presentations by leading water/wastewater/reuse/energy power/transportation industry professionals and utility managers and EDI speakers, followed by forum discussions, and an engaging closing panel session.		The Status Of Water Insecurity In Small, Rural, Remote, And First Nations Communities In Canada: A Review On Technical, Theoretical, And Socio-economic Contexts, <a href="#">Sorour Nasimi, Canada</a>	
Forum participants will learn about the importance of equity diversity and inclusion (EDI) in the workplace within the water/wastewater and other utility sectors across the globe through the diverse women in water- leaders across the globe.		Water Supply Of The Future In Saarland, Germany, <a href="#">Kay Moller, Germany</a>	
<b>Speakers:</b> <a href="#">Vanessa Chau, Canada</a> ; <a href="#">Rhonda Harris, USA</a> ; <a href="#">Derrick Dunkley, UK</a> ; <a href="#">Beth Weir, Canada</a> ; <a href="#">Chandra Brown, Canada</a> ; <a href="#">Imran Motala</a> ; <a href="#">Richard Wong, Canada</a> ; <a href="#">Hany Ibrahim</a>		Closing The Water For People And Communities Gap - Improving Water Services To Australian First Nations Remote Communities, <a href="#">Adam Lovell, Australia</a>	
		From Nearly Zero Water Buildings To Urban Water Communities: The Need To Define Parameters To Support The New Paradigms, <a href="#">Armando Silva-Afonso, Portugal</a>	
		POSTERS	
		<i>Commodified Access To Water: What Happens To The Poor When Bottled Water Is The Only Source Of Safe Drinking Water?</i> , <a href="#">Joshua Greene, Mexico</a>	
		<i>SaNiTi - New Innovative Non-sewered Sanitation Game Changing Strategy To Meet Water Security And SDG Goals</i> , <a href="#">Jay Bhagwan, South Africa</a>	
<b>Coffee Break</b>	<b>15:00 - 15:15</b>		
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>		
<b>Gala Dinner</b>	<b>Evening</b>		

# Thursday | Programme

<b>Keynote Plenary</b>	<b>09:00 - 09:45</b>	<p>Keynote: Path-shifting to address global challenges: Transformative adaptation in practice, <a href="#">Prof. Juliet Willetts, Institute for Sustainable Futures, Univ. of Technology Sydney, Australia</a> Panel Moderator: <a href="#">Annalisa Contos</a> Panellists: <a href="#">Miriam Feilberg</a>, <a href="#">Dr Jabuliile Mashwama</a>, <a href="#">Amit Chanan</a>, <a href="#">Adam Saffian Ghazali</a></p>		
<b>Coffee Break</b>	<b>09:45 - 10:30</b>			
<b>Session 1</b>	<b>10:30 - 12:00</b>			
<p><b>6.8 BASIN-CONNECTED CITIES: ENABLING URBAN AND RURAL STAKEHOLDERS TO TAKE ACTION IN BASIN MANAGEMENT</b></p> <p>Chair: <a href="#">John Riddiford, Australia</a> Co-chair: <a href="#">Jodie Bignall, Australia</a></p> <p>The workshop will focus on the actions such as economic incentives, partnerships and sharing of data that different stakeholders are taking to connect cities to their watershed; as well as the foundations needed such as governance, common vision and knowledge and skills. Perspectives in responding to extreme events will also be covered. There will be short perspectives from industry, regulators, utilities, city representatives and water resource agencies.</p> <p>Speakers: <a href="#">John Riddiford, Australia</a>; <a href="#">Peifang Wang, China</a>; <a href="#">Philip Weller, Austria/Canada</a>; <a href="#">Walter King, Vienna Waterworks</a></p>		<p>Room 718 A <b>Workshop</b></p>	<p><b>2.15 ENERGY EFFICIENCY AND RECOVERY</b></p> <p>Chair: <a href="#">Julian Sandino, United States</a></p> <p>Preparation Of Coarse Flocculant From Concentrated Organic Matter: Achieve Carbon Capture And Enrichment In Municipal Wastewater, <a href="#">Xiao Zha, China</a></p> <p>Wastewater Energy Transfer For Toronto Western Hospital, <a href="#">Mark Bruder, Canada</a></p> <p>Identification Of Sites For Electrolysers At Municipal Wastewater Treatment Plants In Germany, <a href="#">Johanna Walther, Germany</a></p> <p>Unveiling The Water-energy Nexus: Wastewater Reuse For District Heating Application, <a href="#">Francisca Sousa Braga, Denmark</a></p>	<p>Room 718 B <b>Technical</b></p>
<b>Lunch</b>	<b>12:00 - 13:30</b>			
<b>Session 2</b>	<b>13:30 - 15:00</b>			
<p><b>6.7 INTEGRATED WATER RESOURCES MANAGEMENT AND CLIMATE RESILIENCE</b></p> <p>Chair: <a href="#">Ligia Pinto, Portugal</a> Co-chair: <a href="#">Nidhi Singh, Canada</a></p> <p>Assessing The Impact Of Climate Change On Conventional Drinking Water Treatment Using 2 Decades Of Historical Data, <a href="#">Ryan Swinamer, Canada</a></p> <p>Assessing Climate Change Impacts On Water Quality In Montreal's Natural Water Bodies: A Big Data And Machine Learning Perspective, <a href="#">Bowen Xu, Canada</a></p> <p>Impact of Climate Change On a Large Regional Watershed, <a href="#">Allyson Bingeman, Canada</a></p> <p>Climate Change And Groundwater, The Case Of The State Of Chihuahua, Mexico, <a href="#">Miguel Angel Gonzalez-Nuñez, Mexico</a></p> <p>POSTERS</p> <p><i>Exploring The Impacts Of Adaption Strategies For Climate Change On Groundwater Resource Management, <a href="#">Chihhao Fan, Chinese Taipei</a></i></p> <p><i>Flood Risk Mapping And Participatory GIS For Flood Resilience On The Dundee Waterfront, <a href="#">Sarah Crowe, United Kingdom</a></i></p>		<p>Room 718 A <b>Technical</b></p>	<p><b>3.17 IN-PREMISES WATER QUALITY (HOUSE/BUILDING PLUMBING, METAL AND PLASTIC LEACHING)</b></p> <p>Chair: <a href="#">David Meyer, Canada</a> Co-chair: <a href="#">Shweta Lokhande, India</a></p> <p>Residential Lead And Copper Sampling In Atlantic First Nations Water Authority Communities – Sharing What We Learned, <a href="#">Megan Fuller, Canada</a></p> <p>What Can Homeowners Do About Their Drinking Water Quality? Development Of Guidance Document For Inorganic Contaminants In Premise Plumbing, <a href="#">Evelyne Dore, Canada</a></p> <p>Management Of Legacy Mn Deposits In A Distribution Network, <a href="#">Jerome Ducret, Canada</a></p> <p>Lead Dissolution In Various Solvent Conditions For Drinking Water Applications, <a href="#">Elizabeth Jacobia, USA</a></p> <p>POSTERS</p> <p><i>An Investigation Into The Influence Of Natural Organic Matter On The Efficacy Of Orthophosphate Treatment For Lead Control In Chloraminated Water Systems, <a href="#">Nastaran Mosavari, Canada</a></i></p> <p><i>Effect Of Pipe Roughness Variation Due To Aging On Hydraulic Transients' Results: A Computational Analysis And Comparison Of Materials In A Water Main Pipeline, <a href="#">Erico Manzochi, Brazil</a></i></p>	<p>Room 718 B <b>Technical</b></p>
<b>Coffee Break</b>	<b>15:00 - 15:15</b>			
<b>Closing Ceremony</b>	<b>15:15 - 16:45</b>			
<b>Gala Dinner</b>	<b>Evening</b>			

# Thursday | Programme

<b>Keynote Plenary</b> 09:00 - 09:45	
BUSINESS FORUM ROOM 1	BUSINESS FORUM ROOM 2
	<p><b>10:30 — 11:15   InCTRL SOLUTIONS</b></p> <p><b>Be inCTRL Using Model-Based and Data-Driven Digital Solutions</b>            This session will showcase how model- and data-driven techniques provide valuable insights for process optimization and control. Discover how inCTRL's consulting leads to advanced modeling and data analytics, culminating in innovative product solutions. We will highlight our soft sensors for real-time predictions, the N2O model for emissions reduction, and the patented ABAC-SRT strategy for balanced treatment performance and energy savings, demonstrating a comprehensive approach from consulting to modeling to data analytics to product.  <i>Carsten Owerdieck, CEO; Mahsa Sadeghassadi, PhD, Data &amp; Control Specialist; Mirzaman Zamanzadeh, PhD, Senior Process Specialist</i></p>
<p><b>11:15 — 12:00   ENDRESS+HAUSER CANADA LTD.</b></p> <p><b>The Benefits of Digital Instruments: Unlocking Their True Potential</b>            How do plant operators access the valuable data in digital instruments and utilize it to increase their efficiency in maintenance and operations?  <i>Dean Rudd Industry Manager, Water &amp; Wastewater</i></p>	<p><b>11:15 — 12:00   LOFTY PERCH INC.</b></p> <p><b>Assessing SCADA/OT Cyber Security Risk in Water Operations: Using Consequence and Engineering-Informed Approaches</b>            This fast-paced and informative session will showcase real world use cases to provide an objective review on how water utilities are moving toward more modern, accurate cyber risk assessment programs for their operational technology and industrial control systems (OT/ICS) infrastructures. With more than 25 years focused on engineering-informed OT/ICS cyber security, combined with more than 150 water/wastewater assessments globally, Loftly Perch will present intelligence and analysis to help water utilities identify realistic and appropriate cybersecurity assessment activities that are specific to their actual needs and help them address their rapidly changing cyber risk challenges.  <i>Mr. Mark Fabro, President and Chief Security Scientist</i></p>
	<p><b>12:15 — 13:00   CANADIAN WATER AND WASTEWATER ASSOCIATION</b></p> <p><b>Canadian Innovation</b>            As the Canada Pavilion and co-hosts, we hope to be able to feature a number of our Canadian Exhibitors in short 15 minute presentations. I would hope for one 45 min session each day for the Canada Pavilion. We are very flexible on time slots available.  <i>Each session will feature 3 presenters (15 mins each) from amongst our exhibitors in the Canada Pavilion</i></p>
<b>Keynote Plenary</b> 17:15 - 18:00	



## Poster Presentations

Track 1  
WATER UTILITY  
MANAGEMENT

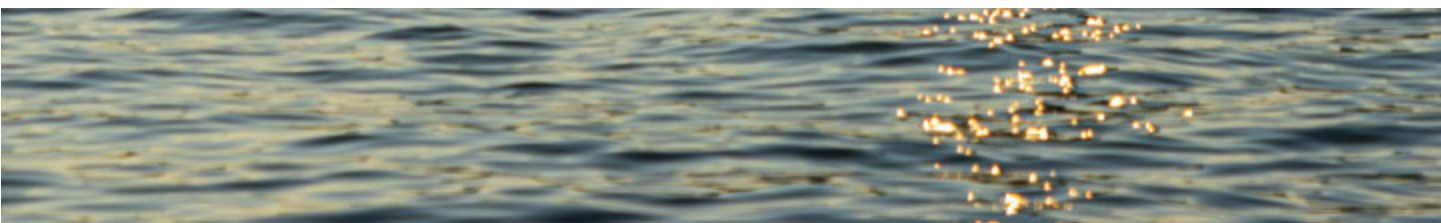
Track 2  
WASTEWATER  
TREATMENT AND  
RESOURCE RECOVERY

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



# Posters

<b>P1.1</b>	+45 Years Of Reliable Operation For World Largest Seawater Treatment Plant & Nine (9) Scattered Water Injection Plants	Quassem Bojbarah, <i>Saudi Aramco, Saudi Arabia</i>
<b>P1.2</b>	2D Or Not 2D - That Is The Question	Eric Kohnen, <i>Jacobs, Canada</i>
<b>P1.3</b>	A Building Information Modelling (BIM) And Common Data Environment (CDE) Pilot For Toronto Water Capital Projects And Asset Management.	Alonso Hurtado, <i>City of Toronto, Canada</i>
<b>P1.4</b>	A Full Scale Advanced Anaerobic Digestion Case Study At Tarnow Wwtp, Poland	Ashish Sahu, <i>Cambi Group AS, Norway</i>
<b>P1.5</b>	A Full-scale Operational Digital Twin For A Water Resource Recovery Facility -- The Case Of Eindhoven WRRF	Saba Daneshgar, <i>Ghent University, Belgium</i>
<b>P1.6</b>	A Low Energy Consumption Wireless Telemetry And Tanks Control Level System For Small Water Distribution Networks In Isolated Remote Population Centres	Javier García Del Río, <i>Canal de Isabel II, Spain</i>
<b>P1.7</b>	Advancing Towards A Circular Economy In Membrane Technology	Kelly Hill, <i>Isle Utilities, Australia</i>
<b>P1.8</b>	Aligning Pre-modern Urban Water Distribution Networks Into District Metered Areas: A Modelling And Optimization Approach Adopted In The City Of Lilongwe, Malawi	Kenneth Kuntambila, <i>Lilongwe Waterboard, Malawi</i>
<b>P1.9</b>	Applied Research For Multi-scale Asset Management Of The Walloon Water Company's Drinking Water Supply Network	Eric Smit, <i>Société Wallonne Des Eaux, Belgium</i>
<b>P1.10</b>	Carbon Footprint Reduction Through Advanced Imaging And Wastewater Tank Cleaning	Megan Ross, <i>SediVision, LLC, United States</i>
<b>P1.11</b>	Chances And Barriers Of Heat Extraction From Water Supply Systems	Florian Kretschmer, <i>University of Natural Resources and Life Sciences, Vienna, Austria</i>
<b>P1.12</b>	Comparison Of Data-driven And Industry Approach On Leak Noise Correlation Using Iterative Computation On Acoustic Signal	Chun Wai Lau, <i>The Hong Kong Polytechnic University, Hong Kong, China</i>
<b>P1.13</b>	Cost Saving By Using Ultrasonic Clamp On Flow Meter-Best Practice	Marko Rosenthal, <i>NIVUS GmbH, Germany</i>
<b>P1.14</b>	Decarbonization Strategies In The Water Sector: The Regulatory Landscape And Collaborative Imperative	Alexis De Kerchove, <i>Xylem, Sweden</i>
<b>P1.15</b>	Demonstration Plant For Post-treatment Options For Ozonation In Tertiary Municipal Wastewater Treatment	Regina Gnirss, <i>Berliner Wasserbetriebe, Germany</i>
<b>P1.16</b>	Developing And Applying A System-wide Energy Optimization Strategy For Large-scale Water Distribution Networks	Marcelo Cusacovich, <i>Xylem Inc, United States</i>
<b>P1.17</b>	Development Of An Unmanned Cleaning Robot For Sewer Pipes - Efficient Cleaning Of Sewer Pipes By A Robot Enables Human Workers To Avoid Danger -	Hiroyuki Motoyoshi, <i>Tokyo Metropolitan Government, Japan</i>
<b>P1.18</b>	Digital Twins: Transforming Nutrient Removal Optimization And Operation In WRRFs	Raj Chavan, <i>Atkinsrealis, United States</i>
<b>P1.19</b>	DREAM - Data For Reengineering And Evaluation Of Algorithms And Models: Mining Of Operational Data To Optimize A Design Tool For Wastewater Treatment Systems	Mathieu Delahaye, <i>Suez, France</i>
<b>P1.20</b>	Drought Projection In Gediz Basin In Turkey Based On The Outputs Of General Circulation Models	Farzad Rotbei, <i>Istanbul Gelisim University Turkey</i>



<b>PI.21</b>	Eco-Economic Benefits Of Underground Wastewater Treatment Plants In Beijing: Greener Urban Wastewater Management?	Gang Liu, <i>Chinese Academy of Sciences, China</i>
<b>PI.22</b>	Embracing Performance Based Contract For Management Of Non-Revenue Water; The Case Of Muranga South Water And Sanitation Company In Kenya.	Abdi Wario, <i>Gatsby Africa, Kenya</i>
<b>PI.23</b>	Emergency Watermain Rehabilitation Of A 12 Lane Expressway & 4-Track Rail Crossing Within A Joint Utility Tunnel, A Study In Stakeholder Consultation During A Complex Structural Lining Project.	Arthur Sinclair, <i>City of Toronto, Canada</i>
<b>PI.24</b>	Energy And Modern Infrastructure Society	Rana Elbittbssi, <i>Xylem, Canada</i>
<b>PI.25</b>	Energy Efficient High-Strength Organic Beverage Wastewater Treatment	Wenny Noha, <i>PepsiCo, USA</i>
<b>PI.26</b>	Environmental Decision Making For Innovative Drainage Management Works In South-Western Region Of Bangladesh: A Critical Approach	Md Monirul Islam, <i>City of Toronto   University of Toronto, Canada</i>
<b>PI.27</b>	Establish The Waterworks Decision-making And Tracking Management System Based On Space-time Scan Statistics And Utility Network Model	Taemun Hwang, <i>Korea Institute of Civil Engineering and Building Technology, Republic of Korea</i>
<b>PI.28</b>	Estimation Of CO <sub>2</sub> Reduction Potentials -Development Of An Estimation Tool And Assessment Of The Water Purification System Using It -Development Of An Estimation Tool And Assessment Of The Water Purification System Using It-	Ikuma Hayakawa, <i>Osaka Municipal Waterworks Bureau, Japan</i>
<b>PI.29</b>	Expanding Water Resource Recovery With Sustainable Food Waste Management	Michael Keleman, <i>InSinkErator, USA</i>
<b>PI.30</b>	Exploring The Role Of Meal-Free Synthetic Organic Dyes In Shaping A Sustainable Water Future	Hooman Moh, <i>Xylem Company, Canada</i>
<b>PI.31</b>	Financing Of Water Infrastructure Construction, Rehabilitation And Expansion Projects In Canada	Aaron Atcheson, <i>Miller Thomson LLP, Canada</i>
<b>PI.32</b>	Formation And Dynamics Of Sewer Blockages Caused By Snagging Of Wet Pipes	Katayoun Kargar, <i>Toronto Metropolitan University, Canada</i>
<b>PI.33</b>	Fugitive Methane Emissions At A Water Resource Recovery Facility: Preliminary Results From A Top-Down   Bottom-Up Field Campaign	Embrey Bronstad, <i>Brown and Caldwell, USA</i>
<b>PI.34</b>	Greenhouse Gas Emission Reductions As A Result Of Infrastructure Intensification In Water Resource Recovery Facilities	Peter Vanrolleghem, <i>Université Laval, Canada</i>
<b>PI.35</b>	Identification Of Factors Causing Taste And Odor And Their Removal Methods In The Golpayegan Water Treatment Plant.	Fahimeh Amiri, <i>Isfahan Water and Wastewater company, Iran</i>
<b>PI.36</b>	Initiatives For The Stable Operation Of Energy-Neutral Incinerators	Yukio Nagaya, <i>Tokyo Metropolitan Government, Japan</i>
<b>PI.37</b>	LEAKman: A Danish Demonstration Platform For Integrated Leakage Management Solutions	Gitte Marlene Jansen, <i>NIRAS, Denmark</i>
<b>PI.38</b>	Legal And Government Related Impediments To Innovation In Water Testing And Treatment In Canada	Aaron Atcheson, <i>Miller Thomson LLP, Canada</i>
<b>PI.39</b>	Lessons Learned From Disconnects Between Design And Operations That Can Lead To Process And Compliance Challenges At Wastewater Treatment Plants	Yaldah Azimi, <i>Ontario Clean Water Agency, Canada</i>
<b>PI.40</b>	Low-energy IoT System For Continuous Monitoring Of Water Quality In Drinking Water Distribution Networks	Javier García Del Río, <i>Canal De Isabel II, Spain</i>
<b>PI.41</b>	Mechanistic And Data-driven Models: From Confusion To Synergies And Opportunities	Wim Audenaert, <i>AM-Team, Belgium</i>

<b>P1.42</b>	Monthly Precipitation Forecast, Based On The ARIMA Model: Case Study Of The Totonicapán Area, Guatemala	Rubeny Garcia Campos, <i>University Of San Carlos of Guatemala, Guatemala</i>
<b>P1.43</b>	Multidimensional Spectral Analysis And Modeling In The Composting Process Of Tofu Residue	Weihua Li, <i>Anhui Jianzhu University, China</i>
<b>P1.44</b>	N <sub>2</sub> O Emissions Assessment, Mitigation, And Reporting At A Canadian Full-scale WWTP	Roberta Muoio , <i>AM-Team, Belgium</i>
<b>P1.45</b>	Navigating Carbon Emissions In Water Utilities: Mapping, Mitigation, And Innovation For A Sustainable Future	Alexis De Kerchove, <i>Xylem, Sweden</i>
<b>P1.46</b>	Occupational Exposure To Viral Pathogens, NGS In The Wastewater Treatment Plant Environment	Rosina Girones, <i>Universitat de Barcelona, Spain</i>
<b>P1.47</b>	Optimizing Granular Filter Performance: A Preventive Maintenance Program	Xiaohui Jin, <i>Ontario Clean Water Agency, Canada</i>
<b>P1.48</b>	Optimizing Water Efficiency In Porto: The Sectorization Plus Project's Impact	Flávio Oliveira , <i>Águas e Energia do Porto, Portugal</i>
<b>P1.49</b>	Porto's New Water Supply Master Plan: A Resilient And Sustainable Path To The Future	Flavio Oliveira, <i>Águas e Energia do Porto, Portugal</i>
<b>P1.50</b>	Prague Water -- ISO 14064-1 Certified Carbon Footprint And Strategy	Martin Srb, <i>Prazske vodovody a kanalizace, Czech Republic</i>
<b>P1.51</b>	Pro-poor Municipality Led Piped Water Supply System Is Transforming Lives In Bangladesh	Yeasin Arafat, <i>WaterAid, Bangladesh</i>
<b>P1.52</b>	Purification Of Phenolic Compounds From Segmenter Mandarin Wastewater By Ultrafiltration And Nanofiltration	Pablo Alonso Vázquez, <i>Instituto de Seguridad Industrial, Radiofísica y Medioambiental, Universitat Politècnica de València, Spain, Spain</i>
<b>P1.53</b>	Pysewer: A Simple Tool For Sewer Network Generation In Data-scarce Regions	Daneish Despot, <i>Helmholtz Centre for Environmental Research GmbH, Germany</i>
<b>P1.54</b>	Quantifying, Modelling And Mitigating N <sub>2</sub> O Process Emissions: The Launch Of Welsh Water's N <sub>2</sub> O Reduction Journey, Jose Porro	Susan Lee , <i>Cobalt Water Global, United States</i>
<b>P1.56</b>	Reporting GHG Emissions From Water Resource Recovery Facilities -- Best Practice Approaches	Alexis De Kerchove, <i>Xylem, Sweden</i>
<b>P1.57</b>	Seven Steps Towards Digitalizing Sludge Management	Puja Doshi, <i>Engineers without Borders, Germany</i>
<b>P1.58</b>	Strategic Planning To Adress Climate Change Impacts On Wastewater Infrastructures From Águas Do Tejo Atlântico	Rita Lourinho, <i>Águas do Tejo Atlântico,S.A, Portugal</i>
<b>P1.59</b>	SUSTRATO, The Leading Monitoring Platform In The Water Sector	Javier García Del Río, <i>Canal de Isabel II, Spain</i>
<b>P1.60</b>	The Life Cycle Of A Pipe Leak	Brian Harwood, <i>Gagliacqua Consulting, United States</i>
<b>P1.61</b>	The Road Towards A Nordic Climate Neutral Water Sector	Jeanette Agertved Madsen, <i>EnviDan A/S, Denmark</i>
<b>P1.62</b>	The Secrets To Incentivising And Achieving Great Customer Service	Julian Jacobs, <i>AtkinsRéalis, United Kingdom</i>
<b>P1.63</b>	The Xylem Wastewater Pump Manufacturing Plant In Emmaboda, Sweden: A Holistic Approach To Sustainability	Alexis De Kerchove, <i>Xylem, Sweden</i>
<b>P1.64</b>	Toronto Deep Lake Water Cooling Expansion - District Cooling For A Growing City	Ian Lake-Thompson, <i>R.V. Anderson Associates Limited, Canada</i>

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<b>P1.65</b>	Unconventional Hydropower The Hidden Opportunity -- Case Studies From South Africa	Jay Bhagwan, <i>Water Research Commission, South Africa</i>
<b>P1.66</b>	Unlocking The Gaps And Progress Of CWIS: Learnings From Five Cities In Bangladesh	Abdullah Al-Muyeed, <i>CWIS-FSM Support Cell, DPHE, Bangladesh</i>
<b>P1.67</b>	Wastewater Network Age Prediction For Critical Assets Identification Using Machine Learning Algorithm Gradient Boosting	Ricardo Ferreira, <i>Águas e Energia do Porto, EM, Portugal</i>
<b>P1.68</b>	Water Quality For Electrolysis: Utilizing Wastewater Final Effluent As A Feedwater Source	Ravina Bains, <i>Cranfield University, United Kingdom</i>
<b>P1.69</b>	Evaluation Of Pathogenic Bacteria In A Pilot-Scale Wastewater Treatment System For Hydroponic Irrigation In Controlled Environment Agriculture	Wellington Arthur, <i>Auburn University, USA</i>
<b>P2.1</b>	A Comprehensive Evaluation Of Chemical Conditioning For Anaerobic Digestate Post-Treatment	Umme Sharmeen Hyder, <i>Toronto Metropolitan University, Canada</i>
<b>P2.2</b>	A New Oxidative Process For Removal Of Dissolved Manganese Using Activated Carbon As A Catalyst: Practical Considerations	Shun Saito, <i>Metawater Corp., Ltd, Japan</i>
<b>P2.3</b>	A Side-stream Sludge Fermenter To Increase P-recovery In Bio-P WWTPs	Mengqi Cheng, <i>Universitat Autònoma de Barcelona, Spain</i>
<b>P2.4</b>	A Sustainable Sludge-based Bio-augmentation Strategy For Heterotrophic Bio-reduction Process Of Hexavalent Chromium	Chuanzhou Liang, <i>Wuhan University of Technology, China</i>
<b>P2.5</b>	Advanced Anaerobic Digestion For Enhanced Methane Yields And Micropollutants Degradation	Gowtham Balasundaram, <i>Indian Institute of Technology, Roorkee, India</i>

<b>P2.6</b>	Advanced Mainstream Partial Denitrification-anammox Process Was Rapidly Established Without Pre-domestication Through Inoculated Side-stream PN A Biofilm	<a href="#">Shenhua Yang, Beijing University of Technology, China</a>
<b>P2.7</b>	Advanced Membrane Modification Techniques To Improve The Ion Selectivity Of Nanofiltration And Ion Exchange Membranes For Developing Circularity Processing Of Urban Industrial Waste	<a href="#">Tanaz Moghadamfar, Universitat Politècnica de Catalunya (UPC), Spain</a>
<b>P2.8</b>	Advanced Nitrogen Removal From Wastewater By Coupling Nitritation, Partial Nitritation And Denitrification With Anammox In Membrane-aerated Biofilm Reactor Integrated Fixed-film Activated Sludge	<a href="#">Baoshan Xing, Xi'an University of Architecture and Technology, China</a>
<b>P2.9</b>	An Urgent Call For Using Real Human Urine In Research On Developing Decentralised Sanitation Technologies	<a href="#">Caitlin Courtney, Swedish University of Agricultural Sciences, South Africa</a>
<b>P2.10</b>	Anaerobic Co-digestion Of Ozone-pretreated Sewage Sludge And Food Waste	<a href="#">Toshiya Komatsu, Nagaoka University of Technology, Japan</a>
<b>P2.11</b>	Analysis Of Phosphorus Recovery Pathways During Wastewater Treatment: Plant-wide Effects	<a href="#">Eveline Volcke, Ghent University, Belgium</a>
<b>P2.12</b>	Analysis Of The Presence Of Microplastics In Drinking Water Sources	<a href="#">Aleksandra Bogdanowicz, Warsaw University of Technology, Poland</a>
<b>P2.13</b>	Analysis Of The Presence Of Microplastics In Water And The Adsorption Of Various Pollutants On Their Surface	<a href="#">Aleksandra Bogdanowicz, Warsaw University of Technology, Poland</a>
<b>P2.14</b>	Assessing Bioaerosol Production And Exposure Associated To Various Processes In Wastewater Treatment Plants	<a href="#">Salim Khaddouma, École Polytechnique Montréal, Canada</a>
<b>P2.15</b>	Assessing Challenges Associated With Use Of Machine Learning For Forecasting COVID-19 Community Spread Via Wastewater-based Epidemiological Data	<a href="#">Arash Zamyadi, Monash University, Australia</a>
<b>P2.16</b>	Benchmarking Alternative Chemical Disinfection And Process Control Strategies For Wastewater: PAA And PFA Vs Sodium Hypochlorite	<a href="#">Lomesh Tikariha, University of Toronto, Canada</a>
<b>P2.17</b>	Biochar-mediated Interspecific Electron Transfer For Enhanced Propionate Syntrophic Methanogenesis: A Kinetic And Thermodynamic Analysis	<a href="#">Danyang Zhao, Xi 'an University of Architecture and Technology, China</a>
<b>P2.18</b>	Biodegradation Of Surfactants In The O <sub>2</sub> -based MBfR And The Impacts On The Microbial Community And Antimicrobial-resistance Genes	<a href="#">Chenwei Zheng, Arizona State University, United States</a>
<b>P2.19</b>	Biogas Synthesis Enhancement Of Laundry Wastewater By Hydrodynamic Cavitation	<a href="#">Andreas Schmid, University of Applied Sciences, Germany</a>
<b>P2.20</b>	Biomass Buffer Design For Capturing Excess Nutrients From Agricultural Runoff	<a href="#">Tianying Li, University of Guelph, Canada</a>
<b>P2.21</b>	Can Thermophilic And Mesophilic Dark Fermentation Of Soybean Molasses Produce Moss Hydrogen And Carboxylic Acid Ethanol?	<a href="#">Isabela Mehi Gaspari Augusto, São Carlos School of Engineering, São Paulo University (EESC USP), Brazil</a>
<b>P2.22</b>	Capacitive Deionization For Wastewater Treatment And Reuse In Cooling Towers	<a href="#">Wenny Noha, PepsiCo, United States</a>
<b>P2.23</b>	CELLA™ - A New Biofilm Technology For Advanced, Compact And Sustainable Wastewater Treatment	<a href="#">Fernando Morgan-Sagastume, AnoxKaldnes-Veolia Water Technologies, Sweden</a>
<b>P2.24</b>	Characterizing Microbial Communities Across Ozone-Biofiltration Operations	<a href="#">Kara Cunningham, West Virginia University, United States</a>
<b>P2.25</b>	Circular nitrogen removal, recovery and reuse technologies	<a href="#">Wu Lina, BUCEA, China</a>
<b>P2.26</b>	Cleaning Of Oil Contaminated Water Using A Novel Treatment Process	<a href="#">Florence Dennis Uzuh, The University of Manchester, UK</a>

<b>P2.27</b>	Cobalt And Zinc Imidazolate Frameworks Derived Nitrogen-doped Carbon In Reduced Graphene Oxide (CoNC@rGO) For Oxidative Detection Of Acetaminophen (APAP)	Yujen Shih, <i>National Sun Yat-sen University, Chinese Taipei</i>
<b>P2.28</b>	Combined Biocatalytic And Photochemical Degradation Of Emerging Micropollutants In Water	Arbab Tufail, <i>University of Wollongong, Australia</i>
<b>P2.29</b>	Comparing Conventional Anaerobic Digestion With An Innovative Plug-flow Digestion Technology In North America	Sigrid Scherrenberg, <i>Royal Haskoning DHV, Netherlands</i>
<b>P2.30</b>	Continuous Filtration For The Removal Of Micropollutants By Biologically Granular Activated Carbon (Bio-GAC)	Lennert Dockx, <i>Aquafin NV, Belgium</i>
<b>P2.31</b>	Control Of Micro(nano)plastics In Wastewater By Innovative Living Membrane Bioreactors	Vincenzo Naddeo, <i>University of Salerno, Italy</i>
<b>P2.32</b>	Correlation of SR-AOP catalytic activity with the electrical properties of PBA based Co-LDH	Eunju Yang, <i>Yonsei University, Republic of Korea</i>
<b>P2.33</b>	Decentralised Wastewater Treatment Using The Example Of A Homestay In Hoa Bac, Da Nang	Mona Möller, <i>Ostfalia University of Applied Science, Germany</i>
<b>P2.34</b>	Development Of A Ceramsite-based Composite For Selective removal Of Se And As From (waste)water	Jingya Ren, <i>Ghent University, Belgium</i>
<b>P2.35</b>	Development Of A Representative Method For The Identification And Quantification Of Microplastics In Municipal Wastewater	Rachida Hamidou, <i>Centre des Technologies de L'eau, Canada</i>
<b>P2.36</b>	Dimensionless Correlation Of Oxygen Mass Transfer Coefficient In Membrane Bioreactors	Allyson Paris, <i>Lakehead University, Canada</i>
<b>P2.37</b>	Direct Membrane Filtration Of Municipal Wastewater Assisted By A Tannin-based Coagulant For An Energy-efficient Water Resource Recovery Facility	Eduardo Subtil, <i>Federal University of ABC, Brazil</i>
<b>P2.38</b>	Directional Bioelectrochemical Dechlorination Of Trichloroethene To Valuable Ethylene By Introduction Poly-3-hydroxybutyrate As A Slow Release Carbon Source	Xueqi Chen, <i>Harbin Institute of Technology, China</i>
<b>P2.39</b>	Effect Of Extended Solids Retention Time (SRT) On Enhanced Biological Phosphorus Removal (EBPR) Kinetics In A Membrane Bioreactor Process	Rony Das, <i>Associated Engineering, Canada</i>
<b>P2.40</b>	Effect Of High-density Polyethylene Microparticles In Aerobic Digestion And Their Influence On The Process And Biomass Characteristics	José Alonso, <i>Universitat Politècnica de Valencia, Spain</i>
<b>P2.41</b>	A Novel UV-LED Electrochemical Photoreactor For Decentralized Water Treatment	Arman Hejazi, <i>The University of British Columbia, Canada</i>
<b>P2.42</b>	Efficient Persulfate Activation By Photo-excited Organic Dyes: Mechanism And Application For Actual Dyeing Wastewater Self-purification	Xue Bai, <i>Xi'an Jiaotong University, China</i>
<b>P2.43</b>	Elemental Sulfur-based Autotrophic Denitrification Coupled With Anammox Process Realized Stable Mainstream Nitrogen Removal	Yuanjun Liu, <i>The Hong Kong University of Science and Technology, Hong Kong</i>
<b>P2.44</b>	Elucidating The Role Of Feed Water Constituents In Governing The Chemical Cleaning Performance Of Aged Ultrafiltration Membranes	Rahul Dutta, <i>University of British Columbia, Canada</i>
<b>P2.45</b>	Energy, Emissions, And Effluent Quality -- Insights From A Full-scale Membrane Aerated Biofilm Reactor (MABR) Upgrade	Narasimman Lakshminarasimman, <i>University of Waterloo, Canada</i>
<b>P2.46</b>	Enhancing Lithium Recovery From Brines: The Emerging Promise Of Direct Lithium Extraction Technologies	Malgorzata Szlachta, <i>Geological Survey of Finland, Finland</i>
<b>P2.47</b>	Enhancing Wastewater Reclamation: Integrative Valorization Of Ion-Exchange Eluates Via Membrane Technology Synergies	Maros Grosik, <i>MamBrain, s.r.o., Czech Republic</i>
<b>P2.48</b>	Enlarged Anaerobic Zone - Evolution Of EBPR Design In MBR	Soubhagya Pattanayak, <i>Associated Engineering, Canada</i>

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P2.49	Environmental DNA Analysis For The Rodents Monitoring In The Urban Drains And Environmental Samples	Shiori Kambara, <i>Kitasato University, Japan</i>
P2.50	Environmental Risk Assessment Of Recycled Plastics Based On Non-targeted Analytical Approach	Sota Sakai, <i>University of Shizuoka, Japan</i>
P2.51	Evaluation Of A Wastewater Surveillance Program For COVID-19	Caroline Huot, <i>Institut national de santé publique du Québec, Canada</i>
P2.52	Evaluation Of Optimal Operating Conditions For Struvite Precipitation At The Great Lakes Water Authority Water Resource Recovery Facility	Jiawei Liu, <i>The University of Michigan, USA</i>
P2.53	Water Balance In Higher Education Institution: A Case Study In A Public University In Brazil	Marcelo Antunes Nolasco, <i>USP - University of Sao Paulo, Brazil</i>
P2.54	Evolution Of Membrane Bioreactors To Enable Potable Reuse And Meet Today's Utility Challenges	Stephen Katz, <i>Veolia Water Technologies &amp; Solutions, Canada</i>
P2.55	Exploring Factors Affecting PNSB Behaviour In Wastewater Treatment Systems	Ananya Mohanty, <i>McGill University, Canada</i>
P2.56	Exposure To Pathogenic Bioaerosols Emitted By Wastewater Treatment On Workers In WWTPs	Arthur Ouradou, <i>Polytechnique Montréal, Canada</i>
P2.57	Extracellular Polymeric Substances For Microplastics Removal In Wastewater	Hossein Salehizadeh, <i>Biopolymix Inc., Canada</i>
P2.58	Extraction And Recovery Of Polyphosphate From Enhanced Biological Phosphorus Removal Biomass To Promote The Circular Economy.	Adrian Oehmen, <i>The School of Chemical Engineering, The University of Queensland, Australia</i>

<b>P2.59</b>	Flow Into The Future: AI In Wastewater Treatment	Mohamed Zaghloul, <i>Toronto metropolitan University, Canada</i>
<b>P2.60</b>	Smart Maintenance Of Sewer Networks Via Internet Of Things	Jiuling Li, <i>The University of Queensland, Australia</i>
<b>P2.61</b>	Generic Framework For A National Wastewater Surveillance Programme For Infectious Diseases And Antimicrobial Resistance (AMR)	Aleida Hommes-De Vos Van Steenwijk, <i>KWR Water Research Institute, Netherlands</i>
<b>P2.62</b>	Harnessing Nanobubbles For Treating Harmful Algal Blooms In Surface Waters For Improved Water Quality	Danillo Couto, <i>York University, Canada</i>
<b>P2.63</b>	High-performance Seawater Desalination Pretreatment Under Harmful Algal Blooms By Using Fe <sub>2</sub> + calcium Peroxide (CaO <sub>2</sub> )	Boyan Xu, <i>National University of Singapore, Singapore</i>
<b>P2.64</b>	High-pressure Anaerobic Digestion For In-situ Biogas Upgrading	Jing Zhao, <i>Tsinghua University, China</i>
<b>P2.65</b>	High-rate Nitrogen Removal Using HAP-PNA (partial Nitritation anammox) Granular Sludge	Yujie Chen, <i>Tohoku University, Japan</i>
<b>P2.66</b>	How Quantitative Is Quantitative PCR? Applying Fundamental Microbial Water Quality Theory To Improve Interpretation Of Trace Detections	Monica Emelko, <i>University of Waterloo, Canada</i>
<b>P2.67</b>	Hydrogen Recovery In A Modular Encapsulated Two-Stage Anaerobic Digestion System	Ian Song, <i>University of Minnesota, Twin Cities, United States</i>
<b>P2.68</b>	Identification And Environmental Behavior Of Bacteria-Associated Enteric Viruses In Wastewater	Xiaonan Tang , <i>The Gorege Washington University, United States</i>
<b>P2.69</b>	When Wastewater Treatment Processes Meet Machine Learning: Improving Predictive Performance Through Optimization Of Dataset Construction	Jiayuan Ji, <i>The University of Tokyo, Japan</i>
<b>P2.70</b>	Improvement Of Energy Recovery And Sludge Fertilizer Quality By The Addition Of Tofu Residue In Anaerobic Digestion Of Sewage Sludge	Takeo Togari, <i>Tottori University of Environmental Studies, Japan</i>
<b>P2.71</b>	Improving Dewaterability Of Digested Food Waste Sludge By Microwave-activated Persulfate Oxidation	Sujin Lee , <i>Pusan National University, Republic of Korea</i>
<b>P2.72</b>	"Influence Of Dissolved Oxygen On Phosphorus Removal By Polyphosphate-Accumulating Organisms Biofilm: Performance And metabolic Response"	Zhen Bi, <i>Suzhou University of Science and Technology, China</i>
<b>P2.73</b>	Innovating Ferro-sonication For Microplastics Extraction From Wastewaters.	Juviya Mathew, <i>York University, Canada</i>
<b>P2.74</b>	Investigating Greenhouse Gases (GHGs) Emissions From Non-sewered Sanitation Systems And Climate Change Mitigation In Dhenkanal, India	Shirish Singh, <i>IHE Delft Institute for Water Education, Netherlands</i>
<b>P2.75</b>	Lactate Dehydrogenase (LDH1) mRNA As A Metabolic Marker For Cryptosporidium Viability Analysis: A New Suggestion	Rabbee G. Mahmudunnabi, <i>QMNC &amp; School of Environment and Science, Griffith University, Australia</i>
<b>P2.76</b>	Leveraging Anaerobic Biodegradation Of Tetracycline In Anaerobic Digestion Systems With Different Operational Modes	Yuyin Wang, <i>University of Galway, Ireland</i>
<b>P2.77</b>	Machine Learning Model For Visualizing Relationships In Anaerobic Co-digestion Of Waste Activated Sludge And Food Waste	Maryam Ghazizade Fard, <i>Queen's University, Canada</i>
<b>P2.78</b>	Measurement Of MicroRNA In Wastewater As An Indicator Of Community Health	Ean Warren, <i>University of Utah, United States</i>
<b>P2.79</b>	Membrane Bioreactor Pathogen Removal And Monitoring For Potable Reuse Applications	Stephen Katz, <i>Veolia Water Technologies &amp; Solutions, Canada</i>
<b>P2.80</b>	Methods For Surveillance Of Antibiotic-Resistant Bacteria In Wastewater From Healthcare Facilities	Ean Warren, <i>University of Utah, United States</i>

<b>P2.81</b>	Minerals Recovery And Freshwater Production From Acid Mine Drainage By Membrane Crystallization	Cejna Anna Quist-Jensen, <i>Aalborg University, Denmark</i>
<b>P2.82</b>	Mixed Liquor Ozonation On WWTP As A Complementary Barrier For Micropollutants Removal In Potable Reuse	Mathieu Delahaye, <i>SUEZ International, France</i>
<b>P2.83</b>	Modeling Of Diffusion And Reaction Of Carbon Dioxide And Nutrients In Hydrophobic Membrane Attached Microalgal Biofilm-Concentration Profiles And Fluxes	Baoqiang Liao, <i>Lakehead University, Canada</i>
<b>P2.84</b>	Modelling The Chemical Phosphorus Removal Of Peroxide Regenerated Iron	Amr Ismail, <i>Toronto Metropolitan University, Canada</i>
<b>P2.85</b>	Monitor Biofilm Thickness Using MABR Fingerprint Soft Sensor	Yi Cao, <i>University of Michigan, USA</i>
<b>P2.86</b>	Monitoring Microbial Adaptation To Low DO Biological Nutrient Removal	Lilian Mcintosh, <i>Virginia Tech, United States</i>
<b>P2.87</b>	MS2 Bacteriophage Growth Protocol: A Case Study	Murilo De Melo Neto, <i>University of São Paulo, Brazil</i>
<b>P2.88</b>	Navigating Waters Of Change: The WInEco Initiative Blueprint For Smart Water Innovation	Patryk Wójtowicz, <i>Savonia University of Applied Sciences, Finland</i>
<b>P2.89</b>	Nitrogen Recovery From Swine Wastewater By Struvite Precipitation By Innovated Chemical Precipitation Technology	Thi-Hanh Ha, <i>National Chung Hsing University, Chinese Taipei</i>
<b>P2.90</b>	Nutrient Water Recovery From Anaerobic Effluent Through The Integration Of Electrodialysis (ED) With Forward Osmosis (FO): Process Optimization And Configuration Improvement	Xue Jin, <i>Oregon State University, United States</i>
<b>P2.91</b>	Occurrence Of Antibiotics In Municipal Wastewater Treatment Of Sao Paulo, Brazil	Juliana Mendonça Silva De Jesus, <i>Federal University of ABC, Brazil</i>
<b>P2.92</b>	Occurrence Of Microplastics In Underground Waters And Drinking Waters	Marie-Pierre Denieul, <i>Veolia, France</i>
<b>P2.93</b>	Optimized Operation Of Reed Beds For Wastewater Sludge Treatment In Greenhouses	Mette Guldborg Hansen, <i>Fors A/S, Denmark</i>
<b>P2.94</b>	Partial Denitrification Success Factors: Understanding The Fundamentals Behind NO <sub>2</sub> Accumulation	Parin Izadi, <i>Stantec, Canada</i>
<b>P2.95</b>	Performance Of A Moving Bed Settler For Removing Total Solids And Turbidity From Synthetic Water	Tsunao Matsumoto, <i>Sao Paulo State University, Brazil</i>
<b>P2.96</b>	Performance Study Of Inlet Design In Reactive Filters As Tertiary Treatment Unit For Decentralized Wastewater Systems	Amin Tabatabaefar, <i>Polytechnique Montreal, Canada</i>
<b>P2.97</b>	Phosphorus Harvesting From Fresh Human Urine: A Strategy Of Precisely recovering High-purity Calcium Phosphate And Insights Into The precipitation Conversion Mechanism	Bing Zhang, <i>Tongji University, China</i>
<b>P2.98</b>	Polyhydroxyalkanoate As A Promising Solution To Microplastics Pollution	Hossein Salehizadeh, <i>Biopolymix Inc., Canada</i>
<b>P2.99</b>	Prediction And Evaluation Of Removal Of Antibiotics In Actual Wastewaters By Various Oxidation Processes Using Machine Learning Approach	Masahiro Tokumura, <i>University of Shizuoka, Japan</i>
<b>P2.100</b>	Preparation And Characterization Of Crosslinked Coating Based On Chitosan Poly (vinyl Alcohol) Electrospun Nanofibrous Membrane For Wastewater Remediation	Romina Hajmohammadtaghishirazi, <i>Queen's University, Canada</i>
<b>P2.101</b>	Pre-treatment And Digestibility Of Aerobic Granular Sludge	Mohamed Zaghoul, <i>Toronto metropolitan University, Canada</i>
<b>P2.102</b>	Profiles Of Antibiotic Resistant Bacteria And Their Resistance Genes In The Influent And The Effluent Of Wastewater Treatment Plants In Kanagawa, Japan	Miku Kanazashi, <i>Kitasato University, Japan</i>



<b>P2.103</b>	Recovery Of Phosphorus As Vivianite From Municipal Wastewater By The Coupling Of Biofilm Sequencing Batch Reactor And Fluidized Bed Crystallization Process	<i>Lu Li, Suzhou University of Science and Technology, China</i>
<b>P2.104</b>	Regeneration Of Magnetic Powdered Activated Carbon For The Removal Of Organic Pollutants From Secondary Wastewater Effluents	<i>Heidrun Steinmetz, University of Kaiserslautern-Landau, Germany</i>
<b>P2.105</b>	Removal Of Complex Pharmaceuticals Compounds In Synthetic Sanitary Sewage Through Anaerobic Digestion: Is It Viable?	<i>Ana Paula Paulinetti, São Carlos School of Engineering, São Paulo University, Brazil</i>
<b>P2.106</b>	Research Of Stable Sludge Incineration By Injecting Aluminum-containing Poly Ferric Sulfate	<i>Yukari Abe, Tokyo Metropolitan Government, Japan</i>
<b>P2.107</b>	Research On The Preparation And Anti-fouling Performance Of Activated Carbon-based Conductive Microfiltration Membrane	<i>Zhen Lei, Xi'an university of architecture and technology, China</i>
<b>P2.108</b>	Sampling Method Considerations For Cost Efficient SARS-CoV-2 Wastewater Monitoring	<i>Nishita D'souza, Michigan State University, USA</i>
<b>P2.109</b>	SARS-CoV-2 And Other Respiratory Viruses Captured From The Air At A Conventional Wastewater Treatment Plant	<i>Richard Kibbee, Carleton University, Canada</i>
<b>P2.110</b>	Scaling-up Microbial Electrolysis Cells For Urban Wastewater Treatment And Hydrogen Production	<i>Oscar Guerrero-Sodric, Universitat Autònoma de Barcelona, Spain</i>
<b>P2.111</b>	Screening Of Emerging New Technologies For Sludge Treatment With Focus On Destruction Of Environmentally Hazardous Substances And Energy Production.	<i>Vibeke Reimer Borregaard, Aalborg Forsyning, Denmark</i>
<b>P2.112</b>	Seasonal Variation Of Microplastics In WWTP Sludges: A Case Study In Ottawa, Canada	<i>Nimitha Choran, Carleton University, Canada</i>
<b>P2.113</b>	Study On Energy Saving Operational Methods Of Blowers At A Wastewater Treatment Plant	<i>Ken Ishida, Japan Institute of Wastewater Engineering and Technology, Japan</i>
<b>P2.114</b>	Study On Enhancing Energy Production Using High-Concentration Digestion System In Wastewater Treatment Plants.	<i>Yuki Iida, Japan Institute of Wastewater Engineering and Technology, Japan</i>
<b>P2.115</b>	Sulphate Reduction, Mixed Sulphide- And Thiosulphate-driven Autotrophic Denitrification, Nitrification, And Anammox Integrated (SANIA) Process For Sustainable Wastewater Treatment	<i>Chukuan Jiang, HKUST, Hong Kong, China</i>
<b>P2.116</b>	Surface Oxygen Vacancy Enhanced The Activation Of Peroxymonosulfate On $\alpha$ -Ni <sub>0.2</sub> Fe <sub>1.8</sub> O <sub>3</sub> For Water Decontamination: The Overlooked Role Of H <sub>2</sub> O In Interface Mechanism	<i>Shuyu Wang, Harbin Institute of Technology, China</i>
<b>P2.117</b>	Sustainable Approach Towards Phosphorus Circulatory Recovering Phosphorus From Digester Supernatant In Wastewater Treatment Plants	<i>Salman Amjad, University of Southern Denmark, Denmark</i>
<b>P2.118</b>	Sustainable Water Treatment: Photocatalytic Degradation Of Diphenylguanidine Using Graphitic Carbon Nitride	<i>Bouthaina Aoudi, University of Alberta, Canada</i>
<b>P2.119</b>	Synthesis Of Graphene-based Single Atom Catalysts For Water Electrolysis Hydrogen Production	<i>Jihoon Lee, Yonsei University, Department of Environmental and Energy Engineering, Republic of Korea</i>
<b>P2.120</b>	The Anaerobic Co-digestion Of Excess Sludge And Organic Fraction Of Municipal Solid Waste: Influence Of Bioplastics Concentration During Laboratory Scale Semi-continuous Experiments	<i>Filippo Fazzino, Università di Catania, Italy</i>
<b>P2.121</b>	The Carbon Footprint Of Producing Biogas And Biomethane From Municipal Sludge Digestion	<i>William Barber, Cambi, Inc, United States</i>
<b>P2.122</b>	The Impact Of Informal Settlement Expansion On Greywater Generation: A Potential Missed Opportunity?	<i>Wihann Van Reenen, IIE MSA, South Africa</i>
<b>P2.123</b>	The Interaction Between Disposable Face Masks And Polybrominated Diphenyl Ethers	<i>Xing Song, Memorial University of Newfoundland, Canada</i>

<b>P2.124</b>	The Key Of Mechanistic Understanding For Effective Mitigation Of Nitrous Oxide Emissions In Wastewater Treatment Plants	Wim Audenaert, <i>AM-Team, Belgium</i>
<b>P2.125</b>	The Life-cycle Of Aerobic Granular Sludge In A Continuous Flow Membrane Bioreactor	Bing Tang, <i>Guangdong University of Technology, China</i>
<b>P2.126</b>	The Triple Carbon Reduction Project: Use Of MABR For GHG Emissions And Energy Efficiency	Josep Manzano, <i>OxyMem, Ireland</i>
<b>P2.127</b>	Transforming Cellular Encapsulation: Polymeric Silica As The New Frontier For Biofouling Mitigation	Syed Salman Ali Shah, <i>Beijing Normal University at Zhuhai, China</i>
<b>P2.128</b>	Treating Reverse Osmosis Concentrate From Landfill Leachate With Combined Electrochemical Processes	Yugo Sato, <i>The Hong Kong University of Science and Technology, Hong Kong, China</i>
<b>P2.129</b>	Unleashing Bacterial Synergy For Efficient Nitrogen Removal Through The Pioneering Integration Of MABR With The Hias Process: A Modelling And Piloting Investigation	Sondre Eikås, <i>Hias IKS, Norway</i>
<b>P2.130</b>	Unlocking The Precise Mechanisms Of Ion Separation In Nanofiltration Membranes: A New Perspective From Decoupling Dehydration And Dehydration-Induced Hindrance	Xuesong Li, <i>Tongji University, China</i>
<b>P2.131</b>	Unraveling The Reaction Characteristics Of Widespread Organic Pollutants In Micro-polluted Surface Water Based On Pilot UV H <sub>2</sub> O <sub>2</sub> System From Compound To Molecular Level	Wenjun Sun, <i>Tsinghua University, China</i>
<b>P2.132</b>	Unveiling N <sub>2</sub> O Emissions In A Pilot Hybrid Membrane-Aerated Biofilm Reactor (MABR) System	Ziping Wu, <i>The University of Queensland, Australia</i>
<b>P2.133</b>	Unveiling The Water-energy Nexus: Wastewater Reuse For District Heating Application	Francisca Sousa Braga, <i>Skanderborg Forsyning  DTU  VIA University College, Denmark</i>
<b>P2.134</b>	Use Of The By-product Oxygen From Water Electrolysis For Wastewater Treatment	Linda Müller, <i>University of Kaiserslautern-Landau, Germany</i>
<b>P2.135</b>	Wastewater Based Surveillance Of Respiratory Viruses For Public Health Purposes: Opportunities And Challenges	Annalaura Carducci, <i>University of Pisa, Italy</i>
<b>P2.136</b>	Wastewater Viral Monitoring Through A Virome Surveillance Panel - A Brazilian Experience	Livia Bomediano Camillo, <i>Federal University of ABC, Brazil</i>
<b>P3.1</b>	A Methodology To Simulate Peak Water Demand Regardless Human Factor Variable	Pedro Cortez-Lara, <i>Tecnologico de Monterrey, Mexico</i>
<b>P3.2</b>	A Novel Optimal Coagulant Dosage Control Scheme Using Flocculation Image Sensor By Extremum Seeking Technique	Masaki Hirano, <i>Toshiba Infrastructure Systems &amp; Solutions Corporation, Japan</i>
<b>P3.3</b>	Adaptative IoT system for continuous dynamic pressure control IN water distribution networks	José Darío Luis Delgado, <i>Canal de Isabel II, Spain</i>
<b>P3.4</b>	Advancements In Achieving Disinfection-free Drinking Water Treatment Plants: A Case Study From Pidpa, Belgium	Koen Joris, <i>Pidpa, Belgium</i>
<b>P3.5</b>	Aerobic Granular Sludge Exposed To Antibiotics Sulfamethoxazole And Ciprofloxacin: Biomass Characteristics And System Performance	Joao Bassin, <i>Federal University of Rio de Janeiro, Brazil</i>
<b>P3.6</b>	AMOZONE Kinetic Model For Design And Optimization Of AOPs For Drinking Water Production	Roberta Muoio, <i>AM-Team, Belgium</i>
<b>P3.7</b>	An Investigation Into The Influence Of Natural Organic Matter On The Efficacy Of Orthophosphate Treatment For Lead Control In Chloraminated Water Systems	Nastaran Mosavari, <i>University of Waterloo, Canada</i>
<b>P3.8</b>	Application Of Bovine Serum Albumin Nanofiber - Gypsum Adsorptive Nanofibrous Membrane Filtration Process For Ammonia Recovery From Anaerobic Digester Centrate	Romina Hajmohammadtaghishirazi, <i>Queen's University, Canada</i>

<b>P3.9</b>	Application of Dynamic Membrane Technology for Removal of Organic Compounds with an Amino Group	<i>Malczewska Beata, Wroclaw University of Environmental and Life Sciences, Poland</i>
<b>P3.10</b>	Application   Deployment Of Internet Of Things In The Management Of Non-Revenue Water In A Water Distribution Network	<i>Patrick Obunga, University of Johannesburg, South Africa</i>
<b>P3.11</b>	Bacterial Co-culture As A Sustainable Tool For Benzene-Toluene-Ethylbenzene And Xylene (BTEX) Biodegradation.	<i>Diego Hernandez, York University, Canada</i>
<b>P3.12</b>	Best Practices For Managing Dead-Ends And Blow-Offs	<i>Fatemeh Boloukasli Ahmadgourabi, Concordia University, Canada</i>
<b>P3.13</b>	Better Protection Of Drinking Water - The Catchment Area Is An Integrated Part Of The Waterworks Production Site.	<i>Pernille Jakobsen, York University, Canada</i>
<b>P3.14</b>	Better Protozoa Removal With Direct Filtration?	<i>Kalani Sachinthana Kalani, University of Waterloo, Canada</i>
<b>P3.15</b>	Biochar-Based Removal Of Forever Chemicals In Wastewater -- A Solution For Long-Chain Perfluorocarboxylic Acids	<i>Seyedehsepideh Nasrollahpour, York University, Canada</i>
<b>P3.16</b>	Case Study: The Use Of A Novel Antiscalant To Prevent Iron Fouling In A Brackish Water RO System	<i>Daniele Strongone, American Water Chemicals (AWC) Europe, Spain</i>
<b>P3.17</b>	Characterization Of antibiotic Resistance genes In drinking Water Sources Of the Douhe Reservoir, Tangshan, Northern China: the correlation With bacterial Communities and environmental Factors"	<i>Sheng Chang, Chinese Research Academy of Environmental Sciences, China</i>
<b>P3.18</b>	Clean Waters Ahead: Harnessing Salinity Fluctuations To Prevent Biofilm Formation In Reverse Osmosis Membranes	<i>Jan Poulsen, Aarhus University, Denmark</i>
<b>P3.19</b>	Comparing The Diversity Of Microbial Fungal Communities Found In Different Water Types	<i>Caroline Reed, Northern Arizona University, USA</i>
<b>P3.20</b>	Composition Of The Microbial Communities Within Sediment And Water In Chlorinated Drinking Water Distribution System Storage Tanks	<i>Eva Bridges, West Virginia University, United States</i>
<b>P3.21</b>	Control Of Ammonia Generation In Swine Manure By Addition Of Odor-Reducing Agents And Their Impact On Anaerobic Digestion	<i>Yeo-Myeong Yun, Chungbuk National University, Republic of Korea</i>
<b>P3.22</b>	Demonstrating The Control Of Pharmaceutical Compounds In Large Activated Sludge Wastewater Treatment Plants	<i>Catarina Silva, LNEC, Portugal</i>
<b>P3.23</b>	Determining Impact Of Artisanal & Small-scale Mining On Drinking Water Quality By Investigating Heavy Metal Concentration Variations From Source Water To Tap Water	<i>Jacob Amengor, University of Calgary, Canada</i>
<b>P3.24</b>	Drinking Water And Meeting Canada's Housing Shortage	<i>Aaron Atcheson, Miller Thomson LLP, Canada</i>
<b>P3.25</b>	Effect Of Pipe Roughness Variation Due To Aging On Hydraulic Transients' Results: A Computational Analysis And Comparison Of Materials In A Water Main Pipeline	<i>Erico Manzochi, Federal University of Parana (UFPR), Brazil</i>
<b>P3.26</b>	Effects of UV-C irradiation on cellular metabolisms and precursors of disinfection by-products during algal growth	<i>Sidik Fahrudin, Department of Environmental Engineering, Chung Yuan Christian University, Chung-Li, Chinese Taipei, ROC, Chinese Taipei</i>
<b>P3.27</b>	Enhancement Of Nutrients Release From Sewage Treatment Plants Expected Clean And Bountiful Sea With Carbon Capture And Storage	<i>Yize Chen, Tokyo Engineering Consultants Co., Ltd, Japan</i>
<b>P3.28</b>	Exploring Geospatial Environmental Analysis With Large Language Models: A Case Study On Caffeine Occurrences In Global Water Bodies	<i>Bing Chen, Memorial University of Newfoundland, Canada</i>
<b>P3.29</b>	Facilitating A Gradual Shift To UV LED Technology: A Retrofit Strategy For A Sustainable Future And Water Security	<i>Meghdad Barimani, Heraeus Noblelight, Germany</i>
<b>P3.30</b>	Flexible Management Of WRRF Objectives Using Nonlinear Model Predictive Aeration Control	<i>Louis Larsen, Veolia Water Technologies, Denmark</i>

<b>P3.31</b>	Fluoride Contamination In Southern Brazil Groundwater: Identifying Risks And Strategies For Public Health Improvement	Elvis Carissimi, <i>Federal University of Santa Maria, Brazil</i>
<b>P3.32</b>	High Performance Of Chloride-enhanced Heat-activated Peroxymonosulfate (PMS) Pretreatment Toward Zero Liquid Discharge (ZLD) System In Seawater Desalination	Jaewon Lee, <i>Korea University, Korea</i>
<b>P3.33</b>	Insulation As An Economical And Effective Means Of Limiting Legionella Growth In Water Heaters	Fernando Roman Jr, <i>Virginia Tech, United States</i>
<b>P3.34</b>	Ionic Surfactants Influence On Virus Surface Properties In Water And Wastewater And Impacts On Treatment Technologies	Makayla Loey, <i>University of Utah, United States</i>
<b>P3.35</b>	Management Of Legacy Mn Deposits In A Distribution Network	Jérôme Ducret, <i>Polytechnique Montreal, Canada</i>
<b>P3.36</b>	Maximising The Value Of Smart Metering. The Case Of Canal De Isabel II	Javier Fernandez, <i>Canal de Isabel II SA MP, Spain</i>
<b>P3.37</b>	Microorganisms' Regrowth In Treated Water Reservoirs: A Comparative Analysis After Different Disinfection Processes	Murilo De Melo Neto, <i>University of Sao Paulo, Brazil</i>
<b>P3.38</b>	National-Scale Antimicrobial Resistance Surveillance In Wastewater: A Comparative Analysis Of HT-qPCR And Metagenomics Approaches	Margaret Knight, <i>Bangor University, United Kingdom</i>
<b>P3.39</b>	On-line Evaluation Of Process Monitoring And Fault Diagnosis System At A Full-scale Wastewater Treatment Plant	Osamu Yamanaka, <i>Toshiba Infrastructure Systems and Solutions Corporation, Japan</i>
<b>P3.40</b>	Optimizing Drinking Water Surveillance Utilizing QIIME 2 Bioinformatics	Kennedy D B, <i>Northern Arizona University, USA</i>
<b>P3.41</b>	Optimizing Water Distribution: A Comprehensive Approach To Pressure Management, Smart Metering, And System Efficiency	Wesley Barbosa, <i>Iguá Saneamento, Brazil</i>
<b>P3.42</b>	Ozone And Biologically Activated Filter For Potable Water Reuse Treatment: Design, Performance & Case Studies	Adriano Vieira, <i>Veolia, United States</i>
<b>P3.43</b>	Physiological And Transcriptional Responses Of Legionella Pneumophila To Reactive Oxygen Species And Their Implications To Water Treatment	Li Qian, <i>The George Washington University, United States</i>
<b>P3.44</b>	Pilot Scale Comparison Of Intermittent And Continuously Operated Drinking Water Biofilters Treating Groundwater	Hemant Arora, <i>University of Waterloo, Canada</i>
<b>P3.45</b>	Presence And Health Effects Of Persistent Organic Pollutants (PAHs And PFAS) In The Ecuadorian Red Mangrove Crab	Andrée De Cock, <i>Ghent University, Belgium</i>
<b>P3.46</b>	Realization Of A Digital Twin Of An Operating 2.200 M <sup>3</sup>  h O <sub>3</sub>  H <sub>2</sub> O <sub>2</sub> And UV  H <sub>2</sub> O <sub>2</sub> Advanced Surface Water Treatment Plant	Steffen Rütting, <i>Xylem Services GmbH, Germany</i>
<b>P3.47</b>	Reducing Residential Water Consumption In San Pedro Garza García, Mexico: A Case Study	Susana Guerrero Flores, <i>Universidad de Monterrey, Mexico</i>
<b>P3.48</b>	Review And Suggestions Of Emergency Response Protocol By Drought Stage And Water Management Agencies In Korea	Hyunjung Kim, <i>Kyung Hee University, Republic of Korea</i>
<b>P3.49</b>	Scalable District Metering Area Agnostic Leakage Detection	Michel Hoese, <i>Norwegian University of Science and Technology, Norway</i>
<b>P3.50</b>	Seawater Intrusion Into The Drinking Water Sources: Impact On Formation Of Disinfection Byproducts In Drinking Water	Shakhawat Chowdhury, <i>King Fahd University of Petroleum &amp; Minerals, Saudi Arabia</i>
<b>P3.51</b>	South Africa's Recreational Waterscape: Analysing The Potential Risks And Impact On Public Health In The Gauteng Province	Zaakirah Delair, <i>University of Johannesburg, South Africa</i>
<b>P3.52</b>	Steps For Introducing Performic Acid Disinfection Technology To The North American Market	Iris Porat, <i>Kemira Solutions, USA</i>
<b>P3.53</b>	The Feasibility Of Adoption Of Catalytic Removal Of Nitrate In Groundwater: A Gate-to-gate Environmental Analysis	Mohammed Alrayaan, <i>Saudi Aramco, Saudi Arabia</i>

<b>P3.54</b>	The Use Of Automated Online Monitoring Of GUS Activity As A New Tool For Fecal Pollution Tracking	Luan Nguyen Thanh, <i>Polytechnique de Montreal, Canada</i>
<b>P3.55</b>	Understanding The Chemistry Of Brominated Disinfection By-Product Formation	Polly Grundy, <i>Cranfield University, United Kingdom</i>
<b>P3.56</b>	UVB Direct Photolysis Inactivates Vesicle-cloaked Murine Norovirus Clusters	Jiahao Chen, <i>George Washington University, USA</i>
<b>P3.57</b>	Virtual Prototyping And Piloting Through CFD Modeling As A Key Tool For Design And Utilities Retrofitting	María Constanza Sadino-Riquelme, <i>Modela, United Kingdom</i>
<b>P3.58</b>	Water Quality In Rivers Of North Portugal	José Fernandes, <i>Faculty of Pharmacy- LAQV-REQUIMTE, Portugal</i>
<b>P3.60</b>	Adoption Of Nature-Based Solutions For Sewage Treatment: Quantifying Environmental Benefits From A Life-cycle Perspective	Shweta Lokhande, <i>Indian Institute of Technology Bombay, India</i>
<b>P3.61</b>	Water Supply System Optimization Reducing The Energy Costs And Withdrawal Of Surface Water Resources	Farid Zahiri, <i>Tehran Province Water &amp; Wastewater Company, Iran</i>
<b>P3.62</b>	Olympics For Sensors - Results Of Online Water Quality Monitoring Devices Testing	Patryk Wójtowicz, <i>Savonia University of Applied Sciences, Finland</i>
<b>P4.1</b>	Generation Of Planning Scenarios For Stormwater Management In European Cities	Maria Chiara Lippera, <i>Helmholtz Centre for Environmental Research GmbH - UFZ, Germany</i>
<b>P4.2</b>	Documentation Of The Degradation Potential In Rain Gardens	Irina Pitropova, <i>VIA University College, Denmark</i>
<b>P4.3</b>	Analyzing Cost Reduction In The Water Distribution Systems Through Central Location Of Storage Tanks	Ashish Nair, <i>Indian Institute of Technology Bombay, India</i>
<b>P4.4</b>	Leveraging Triple Bottom Line Analysis And Value Of Water Indicator To Advance Sustainability And Water Stewardship	Melissa Harclerode, <i>CDM Smith, USA</i>
<b>P4.5</b>	Households' Willingness To Pay For Reliable Drinking Water Supply -- The Case Of Wallonia, Belgium	Bénédicte Rulleau, <i>INRAE, France</i>
<b>P4.6</b>	Understanding Adoption And Performance Of Rainwater Harvesting Systems Using Sensors: A Pilot Study	Eren Rudy, <i>University of Toronto, Canada</i>
<b>P4.7</b>	Proposal Of Sewerage Blue Carbon Scheme - Development Of Nutrient Supply Management Technologies To Coexist With Coastal Ecosystems	Ichiro Yamanoi, <i>Hitachi, Ltd., Japan</i>
<b>P4.8</b>	City Of Windsor - Preliminary Findings - Low Impact Development - Flow Monitoring Program	Ian Wilson, <i>City of Windsor, Canada</i>
<b>P4.9</b>	Effectiveness Of Low- Impact Development For Mitigating The Risk Of Pluvial Flooding-A Case Study In Trelleborg, Sweden	Adnan Asif Rifat, <i>Lund University, Sweden</i>
<b>P4.10</b>	Techno-economic Analysis Of Sewage Conveyance In Scaled Decentralized Systems	Pradip Kalbar, <i>Indian Institute of Technology Bombay, India</i>
<b>P4.11</b>	Water Distribution Systems And Climate Change Design Standards And Research In The Arctic	Audrey Tam, <i>York University, Canada</i>
<b>P4.12</b>	From Onsite To Remote Visual Inspections: How Wastewater Utilities Can Make Smarter Decisions When It Comes To Deploying Their Workforce More Effectively.	Hanna Nyberg, <i>Xylem, Sweden</i>
<b>P4.13</b>	Source Water Protection In Quebec City: Using An Integrated 3D Hydrological Model To Investigate Groundwater Pathways And Travel Times	Benjamin Frot, <i>Université Laval, Canada</i>

<b>P4.14</b>	Development Of Sustainable Bio-Sorbents For The Removal Of Ammonia From Industrial Wastewater	<i>Declan Wylie, University of Ottawa, Canada</i>
<b>P4.15</b>	Increased Methane Emissions Associated With Pollution In A Highly Urbanized Tropical Reservoir	<i>Roseli Benassi, Federal University of ABC, Brazil</i>
<b>P4.16</b>	Control Chart Methodology To Detect Faults In MBR Applications	<i>Mahsa Sadeghassadi, inCTRL Solutions Inc., Canada</i>
<b>P4.17</b>	Controlling Health Risks From Protozoa In Drinking Water: From Monitoring Approach To Verifying Sufficient Treatment	<i>Dafne De Brito Cruz, University of Waterloo, Canada</i>
<b>P4.18</b>	1-D Numerical Modeling Of The Transient-Corrosion Processes In Non-Prismatic Pipe And Implications Of The Flow Hydraulics To Lead Pipe Corrosion Events	<i>Md Monirul Islam, City of Toronto   University of Toronto, Canada</i>
<b>P4.19</b>	Risk Management Through Sanitation Safety Planning (SSP) In Sakhipur Municipality	<i>Abdullah Al-Muyeed, CWIS-FSM Support Cell, DPHE, Bangladesh</i>
<b>P4.20</b>	Snowmelt And Runoff From Extensive Green Roofs	<i>Bent Christen Braskerud, City of Oslo, Norway</i>
<b>P4.21</b>	Data Aplenty: Development Of Alternate Design Criteria For Watermains And Wastewater Sewers In York Region	<i>Fabian Papa, FP&amp;P HydraTek Inc., Canada</i>
<b>P4.22</b>	Sewer Capacity Analysis And Discharge Permit Challenges In The Construction Industry	<i>Ramona Mirtorabi, City of Toronto, Canada</i>
<b>P4.23</b>	Critical Analysis To Evaluate Uncertainty Of The Regional Scale Key Climate Data Depending On Bias And Strategic Location Of The Meteorological Stations	<i>Md Monirul Islam, City of Toronto   University of Toronto, Canada</i>
<b>P4.24</b>	Digital Decision Support Tools To Tackle Water Planning Challenges: Two Success Stories In Angola	<i>Maria De Fátima Pereira , Águas de Portugal   AdP VALOR, Portugal</i>
<b>P4.25</b>	Expert Choice And Graph-Informed Engineering Solutions For Efficiency Enhancement In The Evolutionary Optimization Of A Real-World Water Distribution Network	<i>Amin Minaei, Unit of Environmental Engineering, Department of Infrastructure Engineering, University of Innsbruck, Austria.</i>
<b>P4.26</b>	UMngeni-uThukela Water -- Water Security Action Hub For Sustainable Water Supply	<i>Ntombifuthi Vilakazi, uMngeni-uThukela Water, South Africa</i>
<b>P4.27</b>	A New Assessment Tool For Disaster Risks To Water Supply	<i>Masaru Goto, Japan Water Research Center, Japan</i>
<b>P4.28</b>	Multiple Overland Flow Paths To Enhance 1 D-1D Flooding Modelling Of Compound Road Corridor	<i>Julian Li, Toronto Water, Canada</i>
<b>P4.29</b>	Runoff Coefficient And Rainfall Estimates From Opportunistic Flow Measurements And Weather Radar	<i>Janni Mosekær Nielsen, Aalborg University, Denmark</i>
<b>P4.30</b>	Forecasting Future Groundwater Levels Under Select Climate scenarios In Saskatchewan	<i>Ahmed Okasha, McMaster University, Canada</i>
<b>P4.31</b>	JalVishwa 1.0 : A Tool For Wastewater Treatment Technology Selection Based On Multiple Attribute Decision Making	<i>Pradip Kalbar, Indian Institute of Technology Bombay, India</i>
<b>P4.32</b>	Flow Estimation And Prediction In Combined Sewer Systems Using Machine Learning	<i>Jesper Nielsen, Aalborg University, Denmark</i>
<b>P4.33</b>	Maximising The Physical, Environmental, Human, And Cultural Outcomes Of Nature-based Solutions Through Design.	<i>Tyler Mcnabb, University of Canterbury, New Zealand</i>
<b>P4.34</b>	Understanding Adoption And Performance Of Rainwater Harvesting Systems Using Sensors: A Pilot Study	<i>Eren Rudy, University of Toronto, Canada</i>
<b>P4.35</b>	Generation Of Planning Scenarios For Stormwater Management In European Cities	<i>Maria Chiara Lippera, Helmholtz Centre for Environmental Research GmbH - UFZ, Germany</i>

<b>P4.36</b>	Water Distribution Systems And Climate Change Design Standards And Research In The Arctic	<i>Audrey Tam, York University, Canada</i>
<b>P4.37</b>	Source Water Protection In Quebec City: Using An Integrated 3D Hydrological Model To Investigate Groundwater Pathways And Travel Times	<i>Benjamin Frot, Université Laval, Canada</i>
<b>P5.1</b>	Accompanying The Element Of Water With Sustainable And Modern Architecture	<i>Hossein Radmand, Rasam Tarh Arjmand Company, Iran</i>
<b>P5.2</b>	Application Of Systemic Thinking And Planning In Revitalizing Rural Water Services In Kenya.	<i>Abdi Wario, Gatsby Africa, Kenya</i>
<b>P5.3</b>	Collaborative Multi-scale Water Resources Planning In England And Wales	<i>Ali Leonard, Newcastle University, United Kingdom</i>
<b>P5.4</b>	CX360: Customer Communication Platform At Águas E Energia Do Porto	<i>Moisés Neves, Águas e Energia do Porto, Portugal</i>
<b>P5.5</b>	Design Thinking Processes In Águas E Energia Do Porto	<i>Moisés Neves, Águas e Energia do Porto, Portugal</i>
<b>P5.6</b>	Device To Continuously Detect The Sludge Volume And Physico-chemical Characteristics Of Faecal Sludge Within A Septic Tank For Informing Treatment Plant Design	<i>Monisha Naik, University of Toronto, Canada</i>
<b>P5.7</b>	Digital Tools For Participatory Water Governance: A Knowledge-Centered Approach To ICT-Facilitated Public Engagement In The Great Lakes Basin	<i>Johanna Dipple, McGill University, Canada</i>
<b>P5.8</b>	Easing Access To Safe Water With Nature-based Solution In Hard-to-reach Areas Of Bangladesh	<i>Md Zarif Oeishik, WaterAid, Bangladesh</i>
<b>P5.9</b>	Evaluation Of Zeta Potential Control Before UV Disinfection As A Novel Pre-Treatment Method In Water Treatment Industry	<i>Mehrnaz Soleimanpour Makuei, University of British Columbia, Canada</i>
<b>P5.11</b>	Holistic Approach To Assessing Investments In Drinking Water Infrastructure Maximises Impact And Efficiency	<i>Carl Heyrman, AquaFlanders vzw, Belgium</i>
<b>P5.12</b>	Improvement Of The Quality Of Water Used In The Pulping Of Açai (Euterpe Oleracea) In The Municipality Of Mazagão-AP, Brazil.	<i>Alba Lemos, National Health Foundation, Brazil</i>
<b>P5.13</b>	Industrial Applications Of Molecular Water Research	<i>Michael Bache, Danish Technical University Chemical Engineering, Denmark</i>
<b>P5.14</b>	Investigating The Effect Of Magnetic Field On Arsenic Removal From Drinking Water	<i>Hassan Masoudi, Khorasan Razavi Water and Wastewater company, Iran</i>
<b>P5.15</b>	Mapping Governance To Link Global Goals With Local Action: Process Tracing Methodologies For Urban Water Management Across Urban South Asia	<i>Faisal Shaheen, Toronto Water, Canada</i>
<b>P5.16</b>	Our Water, Together (documentary Film)	<i>Karl Zimmermann, University of British Columbia, Canada</i>
<b>P5.17</b>	Perceptions And Awareness Of Climate Change Impacts On Water Resources In A Rural Community In Limpopo, South Africa.	<i>Lee-Ann Modley, University of Johannesburg, South Africa</i>
<b>P5.18</b>	Plastic Free School -- Repositioning Tap Water	<i>Nuno Branco, AdRA - Águas da Região de Aveiro, S.A, Portugal</i>
<b>P5.19</b>	Residual Chlorine Adsorption By Activated Carbon: A Strategy To Increase Chlorination Acceptance In Isolated Communities	<i>Lyda Patricia Sabogal-Paz, University of Sao Paulo, Brazil</i>
<b>P5.20</b>	Retention Profiles Of Aerobic Spore-forming Bacteria In A Household Slow Sand Filter: An Analogy With The Transfer Of Resistant Organisms	<i>Emanuel Júnior Silva Soares, University of Sao Paulo, Brazil</i>
<b>P5.21</b>	Risk Assessment Of Several Organic Materials In Contact With Water For Human Consumption	<i>Rui Neves Carneiro, EPAL - Empresa Portuguesa das Águas Livres, S.A., Portugal</i>

<b>P5.22</b>	School Visits, Guided Tours, Influencers And TikTok - Young People As The Target Audience For Raising Interest Towards Water Management	<i>Leena Mikkonen-Young, Helsinki Region Environmental Services HSY, Finland</i>
<b>P5.23</b>	Sustainable Achievement In WASH Implementations In Lunugala Division Of Sri Lanka Through Context Specific Sustainable Community Approach	<i>Sarath Kumara, Sri Lanka</i>
<b>P5.24</b>	Sustainable And Transformative Partnerships In The Water Sector	<i>Elisabete Vale, Águas do Tejo Atlântico, S.A., Portugal</i>
<b>P5.25</b>	The Unintended Inequities Of Rural Piped Water Supply	<i>Samantha Levalley, University of Toronto, Toronto</i>
<b>P5.26</b>	Understanding The Interdependencies Of Intermittent Water Supply Systems In India Using System Dynamics	<i>Pranesh Muthuchami, Indian Institute of Technology Bombay, India</i>
<b>P5.27</b>	Waterlab: A Multidimensional Incubator For Innovation Acceleration	<i>David Marciniak, SWDE, Belgium</i>
<b>P5.28</b>	Legal Personhood For Waterways And Innovative Projects - Help Or Hindrance?	<i>Aaron Atcheson, Miller Thomson LLP, Canada</i>
<b>P6.1</b>	Hydrochemical And Major Ions Appraisal In Granitic Aquifers In Upper East Region Of Ghana	<i>Albert Acheampong, World Vision International, Ghana</i>
<b>P6.2</b>	Isolation And Dechlorination Mechanism Of A Novel Organohalide-respiring Pseudomonas Sp. Strain CP-1	<i>Xueqi Chen, Harbin Institute of Technology, China</i>
<b>P6.3</b>	Evaluation Of Methanotrophic Consortium To Aerobic Cometabolism Of Mixed Vinyl Chloride Pollutants By Adding Methane Micro- And Nano-bubbles	<i>Chu Fang Yang, Feng Chia University, Chinese Taipei</i>
<b>P6.4</b>	Dust Storms In Iran Following The Drought Crisis In The Middle East	<i>Zahra Elmi, Gilan Water and WasteWater Company, Iran</i>
<b>P6.5</b>	Life Cycle Assessment Of Industrial Munitions Wastewater Treatment Trains	<i>Jennifer Weidhaas, University of Utah, United States</i>
<b>P6.6</b>	'OCTOPUS' Principle Reduces Wastewater Management Costs Through Network Optimization And Clustering	<i>Jan Friesen, Helmholtz Centre for Environmental Research GmbH - UFZ, Germany</i>
<b>P6.8</b>	Global Risk Of Excess Sulfate In Groundwater	<i>Chengyu Xiao, The Hong Kong University of Science and Technology, Hong Kong, China</i>
<b>P6.9</b>	Sustainability As A Driver In Aarhus ReWater	<i>Jeanette Madsen, EnviDan A/S, Denmark</i>
<b>P6.10</b>	Characterizing DOC Sources In Greater Montreal And Their Impact On Water Quality For Drinking Water Supply	<i>Evelyne Pouliot, Polytechnique Montréal, Canada</i>
<b>P6.11</b>	Removal Of Organotin From Water Using A Coupled Adsorption And Electrochemical Regeneration Process	<i>Mingchong Wang, University of Manchester, United Kingdom</i>
<b>P6.12</b>	What Makes A Product Sustainable: How We Make It, Or How You Use It?	<i>Stephanie Smith, Xylem, Inc, United States.</i>
<b>P6.13</b>	The Increasing Conflict Over Shared Water Resources Between The Countries Of The Tigris And Euphrates River Basins	<i>Zahra Elmi, Gilan Water and WasteWater Company, Iran</i>
<b>P6.14</b>	Women In Water Leadership: Catalyst For Iran's Peace And Security	<i>Maryam Moridnejad, Wintec Te Pūkenga, New Zealand</i>
<b>P6.15</b>	Methodologies And Community Impacts Of Groundwater Recharge Interventions In Almora District, Uttarakhand, India	<i>Katya Koepsel, Western Colorado University, United States</i>
<b>P6.16</b>	Embracing Resource Recovery And Circular Economy For Iona Island Treatment Plant Starts With 2100 Vision	<i>Joyce Chang, Jacobs, Canada</i>
<b>P6.17</b>	Nitrification Of Ammonia Nitrogen In Liquid Fertilizer Using Titanium Dioxide Photocatalyst	<i>Chiho Mihara, University of Shizuoka, Japan</i>



<b>P6.18</b>	Effects On Ice Cover On Wave-driven Resuspension Of Organic Matter In A Boreal Lake	<i>Clemens Klante, Sydsvatten AB, Sweden</i>
<b>P6.19</b>	Long-term Trend Of Dissolved Organic Carbon In Woronora Drinking Water System, Australia	<i>Thusyanthini Ramanathan, Western Sydney University, Australia</i>
<b>P6.20</b>	Water Access In Rural Healthcare Clinics: A Case Study Within Mpumalanga Province, South Africa.	<i>Lee-Ann Modley, University of Johannesburg, South Africa</i>
<b>P6.21</b>	Purification Of Drinking Water With A High Nitrate Content.	<i>Signe Krogh, Aalborg Forsyning, Denmark</i>
<b>P6.22</b>	Halogenated Microbials: A Ubiquitous And Active Contamination In Nationwide Urban Rivers	<i>Dylan Ming-Han Li, The Hong Kong University of Science and Technology, Hong Kong, China</i>
<b>P6.23</b>	Collection Device For Residential Water Sampling After Natural Disasters To Test Water Quality	<i>Kayla Fericy, Duke University, United States</i>
<b>P6.24</b>	Biofiltration-based Drinking Water Treatment Technologies For Resilience Post-wildfire	<i>Emma Blackburn, University of Waterloo, Canada</i>
<b>P6.25</b>	Visualizing Water Supply Inequalities In A Large Indian City	<i>Kevin Kuriakose Joseph, University of Toronto, Canada</i>
<b>P6.26</b>	The Impact Of Flue Gas Carbon Capture On Water And Wastewater In Existing Facilities	<i>Joshua Lawrence, Fluor Corporation, Canada</i>
<b>P6.27</b>	Reflection On Terms And Concepts Related To Aquifer Recharge	<i>Miguel Angel Gonzalez-Nuñez, Universidad Autónoma de Chihuahua, Mexico</i>
<b>P6.28</b>	Runoff Analysis In Urban Areas Through Parameter Optimization And LID Techniques	<i>Hyeong Joo Lee, Hoseo University, Republic of Korea</i>
<b>P6.29</b>	Rapid Detection Of Microplastics In Water Samples Using Surface-Enhanced Raman Scattering (SERS) Technique	<i>Zhugen Yang, Cranfield University, United Kingdom</i>
<b>P6.30</b>	Occurrence, Source Modeling, Influencing Factors And Exposure Assessment Of Drinking Water PAHs: A Mega Study From Mainland China	<i>Sheng Chang, Chinese Research Academy of Environmental Sciences, Canada</i>
<b>P6.32</b>	Spatial-temporal Analysis Of Human Access To Green And Blue Infrastructure In Two Metropolises South Of The Equator	<i>Deyvid Rosa, Universidade Federal de Minas Gerais, Brazil</i>
<b>P6.33</b>	The Management Of Urban Storm Water At Block-level (MUST-B): A New Approach For Potential Analysis Of Decentralized Storm Water Management Systems	<i>Ganbaatar Khurelbaatar, Helmholtz Centre for Environmental Research, Germany</i>
<b>P6.34</b>	Water-based Architecture; A Way For Coastal Communities To Coexist With Rising Ocean Water Levels	<i>Hossein Radmand, Rasam Tarh Arjmand Company, Iran</i>
<b>P6.35</b>	Hydro Geochemistry Of Ground Water By Using Water Quality Indexing And Statistical Modelling In Outer Himalayan Region	<i>Kanchan Deoli Bahukhandi, University of Petroleum and Energy Studies, India</i>
<b>P6.36</b>	Drinking Water Scarcity In Cameroon The Need For More Effective Management Of Water Supply Facilities.	<i>Mbah Obed Sama, EF-ENSECO Inc., Cameroon</i>
<b>P6.37</b>	Exploring Innovative Approaches For Water Resources Assessments In Data-Scarce Regions With Earth Observations	<i>Rishma Chengot, UKCEH, UK</i>
<b>P6.38</b>	Design And Optimization Of Low Impact Development (LID) Controls Using Evidence-based Approach In A Tropical Urban Catchment	<i>Gil Cruz, De La Salle University, Philippines</i>
<b>P6.39</b>	Coupling Geothermal Heating With Bioremediation For Enhanced Degradation Of BTEX From Subsurface	<i>Gurpreet Kaur, York University, Canada</i>
<b>P6.40</b>	Wastewater-effluent Phosphorus After Tertiary Treatment: An Additional And Unexpected Threat To Downstream Reservoir Eutrophication?	<i>Kelvin Vianini, University of Waterloo, Canada</i>

<b>P6.41</b>	Adaptive Pathways Approach To Achieving City Water Resilience	Ryan Brotchie, <i>GHD, Canada</i>
<b>P6.42</b>	Thirsty Crops, Hungry Populations: Balancing Water Use In Bangladesh's Diet	Kamrul Islam, <i>National Institute of Advanced Industrial Science and Technology, Japan</i>
<b>P6.43</b>	Exploring The Impacts Of Adaption Strategies For Climate Change On Groundwater Resource Management	Chihhao Fan, <i>National Chinese Taipei University, Chinese Taipei</i>
<b>P6.44</b>	Sponge Cities; A New Strategy In Water Resources Management	Hossein Radmand, <i>Rasam Tarh Arjmand Company, Iran</i>
<b>P6.45</b>	Flood Risk Mapping And Participatory GIS For Flood Resilience On The Dundee Waterfront.	Sarah Crowe, <i>The University of Dundee, UK</i>
<b>P6.46</b>	A "Sustainability-risk Assessment" Process For Sourcing Water For Green Hydrogen Production	Kabir Suara, <i>Fortescue, Australia</i>
<b>P6.47</b>	Circularity Assessment Of High Value-Added Resource Recovery; Ectoine Production From Biogas	David Renfrew, <i>Imperial College London, UK</i>
<b>P6.48</b>	Global Sanitation Transformation: Bridging Circular Economy And Climate Resilience	Sumeet Pawar, <i>WASTE Netherlands, Netherlands</i>
<b>P6.49</b>	An Ontology-based Digital Architecture And Modelling Ecosystem For Water-fit-for-reuse Applications	Saba Daneshgar, <i>Ghent University, Belgium</i>
<b>P6.50</b>	The Perspective Of A Smart City By Endorsing The Nexus In Integrated Water And Energy Security Management: The Case Of Semnan, Iran	Mohammad Reza Safaeian, <i>Water &amp; Wastewater Company, Iran</i>
<b>P6.51</b>	Navigating The Waters Of Cooperation: Federated Learning Machine Learning And The Federated Collaborative Governance Framework	Elizabeth Taylor, <i>Waterloom, USA</i>
<b>P6.52</b>	Towards Tier 3 -- Lessons For Measuring And Mitigating N <sub>2</sub> O At Water Resource Recovery Facilities	Amanda Lake, <i>Jacobs, UK</i>
<b>P6.53</b>	Advanced Recovery And Reuse Of Beverage Facility Wastewater	Craig Duvall, <i>Veolia Water Technologies &amp; Solutions, Canada</i>
<b>P6.54</b>	Contribution To The Quality Assessment Of Purified Water: A Case Study Of The Methods Used By UN Field Operations Mission In The Province Of South Kivu In The DRC.	Soumana Gagara, <i>United Nations, Somalia</i>
<b>P6.55</b>	Urban Water Consumption -- Prioritizing Reduce Strategy From Circular Economy Framework	Nikita Kakwani, <i>Indian Institute of Technology Bombay, India</i>
<b>P6.56</b>	SaNiTi - New Innovative Non-sewered Sanitation Game Changing Strategy To Meet Water Security And SDG Goals	Jay Bhagwan, <i>Water Research Commission, South Africa</i>
<b>P6.57</b>	Better Protection Of Drinking Water - The Catchment Area Is An Integrated Part Of The Waterworks Production Site.	Pernille Jakobsen, <i>Aalborg Forsyning, Denmark</i>
<b>P6.58</b>	Impact Of Wastewater Characteristics And Climate Factors On The N <sub>2</sub> And N <sub>1</sub> Gene Target Ratios During Wastewater Surveillance Of SARS-CoV-2	Lena Carolin Bitter, <i>Carleton University, Canada</i>
<b>P6.59</b>	Commodified Access To Water: What Happens To The Poor When Bottled Water Is The Only Source Of Safe Drinking Water?	Joshua Greene, <i>Center for Advanced Research in Social Anthropology, Mexico</i>
<b>P6.60</b>	Probabilistic Monitoring And Forecasting Of Meteorological Drought Impacts On Vegetation Using Copula Function	Jeongeun Won, <i>Pukyong National University, Republic of Korea</i>

## Exhibition



# Floorplan

## to the Exhibition





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We look forward to meeting you  
at the UK Pavilion (Stand 1000)

The events below are open to all:

MON (12 AUG)	TUE (13 AUG)	WED (14 AUG)	THU (15 AUG)
<p>Morrison <b>Climate Change: Impacts and a Sustainable Solution Approach</b> 11:00 - 12:00</p>	<p>Ofwat <b>Supporting Water Sector Innovation in England &amp; Wales</b> 10:00 - 11:00</p>	<p>Scottish Government &amp; Hydro Nation <b>Scotland - A Leading Hydro Nation Through Research and Innovation</b> 10:00 - 10:30</p>	<p>Vyntelligence <b>AI Powered Capital Delivery and Customer Engagement</b> 10:00 - 11:00</p>
<p>Global Leaders Share Net Zero Initiatives 13:00 - 13:40</p>		<p>WRC <b>Microplastics Awareness</b> 10:30 - 11:00</p>	<p>Young Water Professionals Lunchtime Reception Sponsored by RSE 12:30 - 14:00</p>
<p>GHD <b>From Concept to Context in Seconds</b> 14:00 - 14:30</p>	<p>RSE <b>Modular Solutions for the Water Sector</b> 11:00 - 12:00</p>	<p>ARUP <b>Coastal Resilience and Adaptive Planning</b> 11:00 - 12:00</p>	<p><b>Official Closing Ceremony</b> Handing over the baton to Glasgow (Alex Plant, CEO Scottish Water) in Main Theatre 15:15 - 16:45</p>
<p>Atkins <b>Resilient futures: Using growth in the water sector to create resilient infrastructure, enhanced environments and thriving communities</b> 15:00 - 15:30</p>	<p>WaterAid <b>WaterAid Showcase</b> 12:30 - 13:30</p>	<p><b>Women in Water Lunchtime Reception</b> Sponsored by ARUP 13:00 - 14:00</p>	<p>Find us at:</p> <div style="border: 1px solid black; padding: 10px; text-align: center;">   <b>STAND 1000</b> </div> <p><b>IWA World Water Congress and Exhibition</b> MTCC, South Building, Toronto 11 - 15th August 2024</p>
<p>Capgemini <b>Digitally Enabling Sustainable Water Infrastructure</b> 15:30 - 16:00</p>	<p><b>Panel Discussion on River Health</b> 15:30 - 16:30</p>	<p><b>Women in Water Panel Discussion</b> 14:00 - 14:30</p>	
<p><b>Enabling and Celebrating Global Collaboration</b> Networking reception sponsored by Morrison 16:30 - 18:30</p>	<p><b>Looking ahead to Glasgow 2026</b> Networking reception sponsored by RSE 16:30 - 18:30</p>	<p><b>Managing Demand and Reducing Surface Water Panel</b> 15:30 - 16:30</p>	



SEE YOU  
NEXT TIME

Did you know the next IWA World Water Congress & Exhibition will be in Glasgow? We hope to see you there in 2026.

# Exhibitor

## by organisation name

Exhibitor	Stand	Exhibitor	Stand
Aarhus Vand <i>Denmark</i>	300	Capgemini <i>United Kingdom</i>	1000
ACME Engineering Products <i>Canada</i>	710-4	Carleton University <i>Canada</i>	610-7P
Acti-Zyme Products Ltd <i>Canada</i>	515	CAWQ ACQE <i>Canada</i>	510/610/710
ADS Pipes <i>Canada</i>	422	China Pavilion <i>China</i>	310
Advancing Canadian Water Assets (ACWA) <i>Canada</i>	610-7P	Cima+ <i>Canada</i>	740
AECOM - Operations Challenge <i>Canada</i>	740	City of Toronto <i>Canada</i>	610-14
Aguardio <i>Denmark</i>	300	City of Toronto - Toronto Water Lounge <i>Canada</i>	610-3
Anglian Water <i>United Kingdom</i>	1000	Cla-Val <i>USA</i>	913
AquaAction <i>Canada</i>	710-1	Clean <i>Denmark</i>	300
Aquacycl <i>USA</i>	820	Comcore <i>China</i>	505
AquaTech <i>Netherlands</i>	910	Concordia University <i>Canada</i>	610-7P
Armtec <i>Canada</i>	610	Consibio <i>Denmark</i>	300
ARUP <i>United Kingdom</i>	1000	Continental Carbon <i>Canada</i>	423
Asian Water <i>Malaysia</i>		Continental Carbon – Operations Challenge <i>Canada</i>	740
ATCovers <i>Italy</i>	635	CrayoNano <i>Canada</i>	735
Atkins Realis <i>United Kingdom</i>	1000	Critical Matrix <i>Canada</i>	610-1
AWWA <i>USA</i>	929	Cromer <i>Canada</i>	407
Balmoral <i>United Kingdom</i>	421	CST Industries <i>USA</i>	912
Beijing Drainage <i>China</i>	308	CWI <i>Canada</i>	610-1
Bisan Incl. - Operations Challenge <i>Canada</i>	740	CWWA <i>Canada</i>	510/610/710
Bishop Water <i>Canada</i>	510-15	Dalhousie Univeristy and Centre for Water Resources Studies <i>Canada</i>	610-16
Black & Veatch - sponsor lounge <i>USA</i>	402	Danish Export Association <i>Denmark</i>	300
BluMetric <i>Canada</i>	610	Danva <i>Denmark</i>	300
BPC Instruments <i>Sweden</i>	104	DataStream <i>Canada</i>	510-10
British Water <i>United Kingdom</i>	1000	Deepchill <i>Canada</i>	610-1
Bureau of Sewerage <i>Japan</i>	730	Denmark Pavilion <i>Denmark</i>	300
Bureau of Waterworks <i>Japan</i>	730	DHI <i>Denmark</i>	300
Cambi <i>USA</i>	1012	Digital Water Solutions Inc. <i>Canada</i>	610-10P
Cameron <i>Canada</i>	407	Directrik Inc - Operations Challenge <i>Canada</i>	740
Canada Pavilion <i>Canada</i>	510/610/710	DTU <i>Denmark</i>	300
Canadian Water Network <i>Canada</i>	510-8		

Durham Region - Operations Challenge <i>Canada</i>	<b>740</b>	Isle Utilities <i>Australia</i>	<b>820</b>
E M Fluids Inc. <i>Canada</i>	<b>710-12</b>	Itron <i>USA</i>	<b>1015</b>
EBC Foundation <i>Netherlands</i>	<b>910</b>	IUVA - International UV Association <i>Canada</i>	<b>734</b>
ecoAI Innovates Inc. <i>Canada</i>	<b>710-13</b>	IWA <i>United Kingdom</i>	<b>600</b>
Emerging Technology Pavilion <i>Global</i>	<b>820</b>	IWA Cities of the Future Research Center (Xi'An) <i>China</i>	<b>600</b>
Endress + Hauser <i>Switzerland</i>	<b>411</b>	IWA WWCE 2026 host <i>United Kingdom</i>	<b>600</b>
Enspired Solutions - PFAStigator <i>USA</i>	<b>820</b>	IWA WWCE 2028 host <i>Malaysia</i>	<b>600</b>
Environmental Science & Eng. Magazine <i>Canada</i>	<b>1013</b>	IWA YWP Canada <i>Canada</i>	<b>610-13</b>
Enwave Energy Corporation - sponsor lounge <i>Canada</i>	<b>403</b>	Jacobs - sponsor lounge <i>USA</i>	<b>403</b>
ESRI <i>USA</i>	<b>406</b>	Jacobs - Operations Challenge <i>USA</i>	<b>403</b>
ETA <i>Canada</i>	<b>610-1</b>	John Brooks - Operations Challenge <i>Canada</i>	<b>740</b>
ExactBlue Technologies Inc. <i>Canada</i>	<b>510-5</b>	Jiangsu Taiyuan Environmental Protection Techn. Co. <i>China</i>	<b>310</b>
Fibracast <i>Canada</i>	<b>610-1</b>	K&K Trading <i>Nepal</i>	<b>931</b>
Fleming College <i>Canada</i>	<b>710-11</b>	Kamstrup <i>Denmark</i>	<b>300</b>
Flownergia <i>Canada</i>	<b>610-1</b>	KWR <i>Netherlands</i>	<b>907</b>
FYLD <i>UK</i>	<b>820</b>	LG Sonic <i>Netherlands</i>	<b>910</b>
GEI Consultants <i>Canada</i>	<b>610-11P</b>	Lofty Perch <i>Canada</i>	<b>710-6</b>
GEMU <i>Canada</i>	<b>630</b>	Lovibond <i>Germany</i>	<b>420</b>
GHD <i>United Kingdom</i>	<b>1000</b>	Malaysia Water Association (MWA) <i>Malaysia</i>	<b>Room 705</b>
Greatario <i>Canada</i>	<b>421</b>	Malaysia Water Association, Sarawak Branche (MWAS) <i>Malaysia</i>	<b>Room 705</b>
Grundfos <i>Denmark</i>	<b>400</b>	MANTECH <i>Canada</i>	<b>510-3</b>
GWI <i>United Kingdom</i>		MDGBio <i>USA</i>	<b>736</b>
Harmsco <i>USA</i>	<b>926</b>	MDPI <i>China</i>	<b>1204</b>
Hermann Sewerin GmbH <i>Germany</i>	<b>407</b>	Memorial University <i>Canada</i>	<b>610-7P</b>
Hetek Solutions <i>Canada</i>	<b>510-12</b>	Morrison Construction <i>United Kingdom</i>	<b>1000</b>
High Sense Solutions <i>Canada</i>	<b>510-4</b>	MS Filter Systems Inc. <i>Canada</i>	<b>510-13</b>
Huber Technology Ltd. <i>Canada</i>	<b>Room 803</b>	Much More Water <i>Denmark</i>	<b>300</b>
Hydraloop <i>Netherlands</i>	<b>910</b>	Mueller <i>Canada</i>	<b>805</b>
inCTRL <i>Canada</i>	<b>510-6</b>	Nanyuan pump industry Co. <i>China</i>	<b>310</b>
India Pavilion <i>India</i>	<b>810</b>	National Mission for Clean Ganga (NMCG) <i>India</i>	<b>810</b>
Innovation Pavilion <i>Global</i>	<b>820</b>	National Water & Sewerage Company <i>Uganda</i>	<b>425</b>
INRS <i>Canada</i>	<b>610-7P</b>	Neptune Technology Group Canada <i>Canada</i>	<b>710-14</b>
IPEX <i>Canada</i>	<b>610-2</b>	Netherlands Pavilion <i>Netherlands</i>	<b>910</b>
IPEX - Operations Challenge <i>Canada</i>	<b>740</b>	Netherlands Water Partnership (NWP) <i>Netherlands</i>	<b>910</b>
IQ Energy <i>Australia</i>	<b>820</b>		

Nickel Institute <i>Canada</i>	<b>825</b>	South West Water <i>United Kingdom</i>	<b>1000</b>
Nivus <i>Germany</i>	<b>409</b>	SPD Sales Limited - Operations Challenge <i>Canada</i>	<b>740</b>
Northumbrian Water <i>United Kingdom</i>	<b>1000</b>	Stantec - sponsor lounge <i>USA</i>	<b>403</b>
Noventa Energy Partners <i>Canada</i>	<b>Room 803</b>	State of Green <i>Denmark</i>	<b>300</b>
Ofwat Innovation Fund <i>United Kingdom</i>	<b>1000</b>	Stelis Environmental Solutions <i>Canada</i>	<b>710-8</b>
Government of Ontario <i>Canada</i>	<b>610-1</b>	SulfiLogger <i>Denmark</i>	<b>300</b>
Ontario Clean Water Agency (OCWA) <i>Canada</i>	<b>510-11</b>	SWEL - Operations Challenge <i>Canada</i>	<b>740</b>
Ontario First Nations Technical Services Corporation <i>Canada</i>	<b>510-14</b>	Symbiant <i>Canada</i>	<b>610-1</b>
Operation Challenge <i>Canada</i>	<b>740</b>	Syntec Process Equipment - Operations Challenge <i>Canada</i>	<b>740</b>
Operators Without Borders <i>Canada</i>	<b>708-8</b>	TCI Carbon Fibre <i>Canada</i>	<b>710-7</b>
Peel Region - Operations Challenge <i>Canada</i>	<b>740</b>	TEMcompany <i>Denmark</i>	<b>300</b>
Peel Region <i>Canada</i>	<b>710-9</b>	Terra15 <i>Australia</i>	<b>820</b>
Polytechnique Montreal <i>Canada</i>	<b>610-7P</b>	TGS <i>Japan</i>	<b>730</b>
PR'eautech <i>Canada</i>	<b>510-2</b>	The University of British Columbia <i>Canada</i>	<b>610-7P</b>
Puroxi Pure Water Global Inc <i>Canada</i>	<b>510-7</b>	The Water Tower Global Innovation Center <i>USA</i>	<b>708-6P</b>
PWNT <i>Netherlands</i>	<b>910</b>	Tintometer <i>Germany</i>	<b>420</b>
Qingdao Comcore Technologies Co., Ltd. <i>China</i>	<b>505</b>	TMG <i>Japan</i>	<b>730</b>
QMC Metering Solutions <i>Canada</i>	<b>710-5</b>	Tokyo Pavilion <i>Japan</i>	<b>730</b>
Raetts <i>Germany</i>	<b>1010</b>	Toray <i>USA</i>	<b>915</b>
Ramboll - sponsor lounge <i>Denmark</i>	<b>403</b>	Toronto Metropolitan University <i>Canada</i>	<b>610-15</b>
Rapid Assessment Technology Services - Operations Challenge <i>Canada</i>	<b>740</b>	Toronto Metropolitan University <i>Canada</i>	<b>610-7P</b>
RLS Wacon <i>Germany</i>	<b>928</b>	Tradeworks <i>Canada</i>	<b>610-1</b>
Royal Society of Chemistry <i>United Kingdom</i>	<b>1203</b>	Trojan Technologies <i>Canada</i>	<b>608</b>
RSE <i>United Kingdom</i>	<b>1000</b>	UK Pavilion <i>United Kingdom</i>	<b>1000</b>
SciCorp International <i>Canada</i>	<b>510-1</b>	Unisense <i>Denmark</i>	<b>300</b>
Scottish Gov <i>United Kingdom</i>	<b>1000</b>	Unisense Environment <i>Denmark</i>	<b>300</b>
Scottish Water <i>United Kingdom</i>	<b>1000</b>	United Utilities <i>United Kingdom</i>	<b>1000</b>
SebaKMT <i>Germany</i>	<b>510-12</b>	Université Laval <i>Canada</i>	<b>610-7P</b>
Severn Trent <i>United Kingdom</i>	<b>1000</b>	University of Calgary <i>Canada</i>	<b>610-7P</b>
SGS North America <i>Canada</i>	<b>710-3</b>	University of New Brunswick <i>Canada</i>	<b>610-7P</b>
Shanghai Beifu Inverter technology Co. <i>China</i>	<b>310</b>	University of Victoria <i>Canada</i>	<b>610-7P</b>
SHARC energy <i>Canada</i>	<b>610-14</b>	University of Waterloo - The Water Institute <i>Canada</i>	<b>610-7P</b>
Skyjuice Foundation <i>Australia</i>	<b>103</b>	US Pavilion <i>USA</i>	<b>708</b>
SkyTEM Canada Inc. <i>Canada</i>	<b>510-9</b>	UV Solutions Magazine <i>Canada</i>	<b>734</b>



UVPure <i>Canada</i>	610-1
Vaughan Company, Inc - Operations Challenge <i>Canada</i>	740
Veolia <i>France</i>	305
VerifiGlobal / CSA Group <i>Canada</i>	710-16
VEWIN <i>Netherlands</i>	910
Visit Britain <i>United Kingdom</i>	1000
VorTech <i>Ireland</i>	820
Vyntelligence <i>United Kingdom</i>	1000
Washington University in St. Louis <i>USA</i>	708-4P
WASTECORP PUMPS - Operations Challenge <i>Canada</i>	740
Water Alliance <i>Netherlands</i>	910
Water Canada <i>Canada</i>	634
Water Project <i>Canada</i>	825
Water Valley Denmark <i>Denmark</i>	300
Water4All <i>Netherlands</i>	910

WaterTech <i>China</i>	310
WEAO - Operations Challenge <i>Canada</i>	740
WEF <i>USA</i>	631
WEF - Operations Challenge <i>USA</i>	740
Wessex Water <i>United Kingdom</i>	1000
Wellmaster <i>Canada</i>	610-1
Wietec <i>China</i>	310
WPI - Water Professionals International <i>USA</i>	Room 703-3
WRC <i>United Kingdom</i>	1000
WWEMA <i>USA</i>	708-2
Xylem <i>Luxemburg</i>	800
York Region - Operations Challenge <i>Canada</i>	740
York University <i>Canada</i>	610-7P
Yorkshire Water <i>United Kingdom</i>	1000
Zero Energy Water <i>Canada</i>	710-10

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# Exhibitor

## by stand number

Stand	Exhibitor
103	Skyjuice Foundation <i>Australia</i>
104	BPC Instruments <i>Sweden</i>
300	Aarhus Vand <i>Denmark</i>
300	Aguardio <i>Denmark</i>
300	Clean <i>Denmark</i>
300	Consibio <i>Denmark</i>
300	Danish Export Association <i>Denmark</i>
300	Danva <i>Denmark</i>
300	Denmark Pavilion <i>Denmark</i>
300	DHI <i>Denmark</i>
300	DTU <i>Denmark</i>
300	Kamstrup <i>Denmark</i>
300	Much More Water <i>Denmark</i>
300	State of Green <i>Denmark</i>
300	SulfiLogger <i>Denmark</i>
300	TEMcompany <i>Denmark</i>
300	Unisense <i>Denmark</i>
300	Unisense Environment <i>Denmark</i>
300	Water Valley Denmark <i>Denmark</i>
305	Veolia <i>France</i>
308	Beijing Drainage <i>China</i>
310	China Pavilion <i>China</i>
310	Jiangsu Taiyuan Environmental Protection Techn. Co. <i>China</i>
310	Nanyuan pump industry Co. <i>China</i>
310	Shanghai Beifu Inverter technology Co. <i>China</i>
310	WaterTech <i>China</i>
310	Wietec <i>China</i>
400	Grundfos <i>Denmark</i>
403	Black & Veatch - sponsor lounge <i>USA</i>
403	Enwave Energy Corporation - sponsor lounge <i>Canada</i>
403	Jacobs - sponsor lounge <i>USA</i>

Stand	Exhibitor
403	Ramboll - sponsor lounge <i>Denmark</i>
403	Stantec - sponsor lounge <i>USA</i>
406	ESRI <i>USA</i>
407	Cameron <i>Canada</i>
407	Cromer <i>Canada</i>
407	Hermann Sewerin GmbH <i>Germany</i>
409	Nivus <i>Germany</i>
411	Endress + Hauser <i>Switzerland</i>
420	Lovibond <i>Germany</i>
420	Tintometer <i>Germany</i>
421	Balmoral <i>United Kingdom</i>
421	Greatario <i>Canada</i>
422	ADS Pipes <i>Canada</i>
423	Continental Carbon <i>Canada</i>
425	National Water & Sewerage Company <i>Uganda</i>
505	Comcore <i>China</i>
505	Qingdao Comcore Technologies Co., Ltd. <i>China</i>
510/610/710	Canada Pavilion <i>Canada</i>
510/610/710	CAWQ ACQE <i>Canada</i>
510/610/710	CWWA <i>Canada</i>
510-1	SciCorp International <i>Canada</i>
510-10	DataStream <i>Canada</i>
510-11	Ontario Clean Water Agency (OCWA) <i>Canada</i>
510-12	Hetek Solutions <i>Canada</i>
510-12	SebaKMT <i>Germany</i>
510-13	MS Filter Systems Inc. <i>Canada</i>
510-14	Ontario First Nations Technical Services Corporation <i>Canada</i>
510-15	Bishop Water <i>Canada</i>
510-2	PR'eautech <i>Canada</i>
510-3	MANTECH <i>Canada</i>

510-4	High Sense Solutions <i>Canada</i>
510-5	ExactBlue Technologies Inc <i>Canada</i>
510-6	inCTRL <i>Canada</i>
510-7	Puroxi Pure Water Global Inc <i>Canada</i>
510-8	Canadian Water Network <i>Canada</i>
510-9	SkyTEM Canada Inc. <i>Canada</i>
515	Acti-Zyme Products Ltd <i>Canada</i>
600	IWA <i>United Kingdom</i>
600	IWA Cities of the Future Research Center (Xi'An) <i>China</i>
600	IWA WWCE 2026 host <i>United Kingdom</i>
600	IWA WWCE 2028 host <i>Malaysia</i>
608	Trojan Technologies <i>Canada</i>
610	Armtec <i>Canada</i>
610	BluMetric <i>Canada</i>
610-1	Critical Matrix <i>Canada</i>
610-1	CWI <i>Canada</i>
610-1	Deepchill <i>Canada</i>

610-1	Wellmaster <i>Canada</i>
610-1	ETA <i>Canada</i>
610-1	Fibracast <i>Canada</i>
610-1	Flownergia <i>Canada</i>
610-1	Government of Ontario <i>Canada</i>
610-1	Symbiant <i>Canada</i>
610-1	Tradeworks <i>Canada</i>
610-1	UVPure <i>Canada</i>
610-10P	Digital Water Solutions Inc. <i>Canada</i>
610-11P	GEI Consultants <i>Canada</i>
610-13	IWA YWP Canada <i>Canada</i>
610-14	City of Toronto <i>Canada</i>
610-14	SHARC Energy <i>Canada</i>
610-15	Toronto Metropolitan University <i>Canada</i>
610-16	Dalhousie Univeristy and Centre for Water Resources Studies <i>Canada</i>
610-2	IPEX <i>Canada</i>
610-3	City of Toronto - Toronto Water Lounge <i>Canada</i>

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- » Protect revenue

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<b>610-7P</b>	Advancing Canadian Water Assets (ACWA) <a href="#">Canada</a>
<b>610-7P</b>	Carleton University <a href="#">Canada</a>
<b>610-7P</b>	Concordia University <a href="#">Canada</a>
<b>610-7P</b>	INRS <a href="#">Canada</a>
<b>610-7P</b>	Memorial University <a href="#">Canada</a>
<b>610-7P</b>	Polytechnique Montreal <a href="#">Canada</a>
<b>610-7P</b>	The University of British Columbia <a href="#">Canada</a>
<b>610-7P</b>	Toronto Metropolitan University <a href="#">Canada</a>
<b>610-7P</b>	Université Laval <a href="#">Canada</a>
<b>610-7P</b>	University of Calgary <a href="#">Canada</a>
<b>610-7P</b>	University of New Brunswick <a href="#">Canada</a>
<b>610-7P</b>	University of Victoria <a href="#">Canada</a>
<b>610-7P</b>	University of Waterloo - The Water Institute <a href="#">Canada</a>
<b>610-7P</b>	York University <a href="#">Canada</a>
<b>630</b>	GEMU <a href="#">Canada</a>
<b>631</b>	WEF <a href="#">USA</a>
<b>634</b>	Water Canada <a href="#">Canada</a>
<b>635</b>	ATCovers <a href="#">Italy</a>
<b>Room 705</b>	Malaysia Water Association (MWA) <a href="#">Malaysia</a>
<b>Room 705</b>	Malaysia Water Association, Sarawak Branche (MWAS) <a href="#">Malaysia</a>
<b>Room 703-3</b>	WPI - Water Professionals International <a href="#">USA</a>
<b>708</b>	US Pavilion <a href="#">USA</a>
<b>708-2</b>	WWEMA <a href="#">USA</a>
<b>708-4P</b>	Washington University in St. Louis <a href="#">USA</a>
<b>708-6P</b>	The Water Tower Global Innovation Center <a href="#">USA</a>
<b>708-8</b>	Operators Without Borders <a href="#">Canada</a>
<b>710-1</b>	AquaAction <a href="#">Canada</a>
<b>710-10</b>	Zero Energy Water <a href="#">Canada</a>
<b>710-11</b>	Fleming College <a href="#">Canada</a>
<b>710-12</b>	E M Fluids Inc. <a href="#">Canada</a>
<b>710-13</b>	ecoAI Innovates Inc. <a href="#">Canada</a>
<b>710-14</b>	Neptune Technology Group Canada <a href="#">Canada</a>
<b>710-16</b>	VerifiGlobal / CSA Group <a href="#">Canada</a>

<b>710-3</b>	SGS North America <a href="#">Canada</a>
<b>710-4</b>	ACME Engineering Products <a href="#">Canada</a>
<b>710-5</b>	QMC Metering Solutions <a href="#">Canada</a>
<b>710-6</b>	Lofty Perch <a href="#">Canada</a>
<b>710-7</b>	TCI Carbon Fibre <a href="#">Canada</a>
<b>710-8</b>	Stelis Environmental Solutions <a href="#">Canada</a>
<b>710-9</b>	Peel Region <a href="#">Canada</a>
<b>730</b>	Bureau of Sewerage <a href="#">Japan</a>
<b>730</b>	Bureau of Waterworks <a href="#">Japan</a>
<b>730</b>	TGS <a href="#">Japan</a>
<b>730</b>	TMG <a href="#">Japan</a>
<b>730</b>	Tokyo Pavilion <a href="#">Japan</a>
<b>734</b>	IUVA - International UV Association <a href="#">Canada</a>
<b>734</b>	UV Solutions Magazine <a href="#">Canada</a>
<b>735</b>	CrayoNano <a href="#">Canada</a>
<b>736</b>	MDGBio <a href="#">USA</a>
<b>740</b>	AECOM - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Bisan Incl. - Operations Challenge <a href="#">Canada</a>
<b>740</b>	CIMA+ - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Continental Carbon - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Directrik Inc - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Durham Regiuon - Operations Challenge <a href="#">Canada</a>
<b>740</b>	IPEX - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Jacobs - Operations Challenge <a href="#">Canada</a>
<b>740</b>	John Brooks - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Operation Challenge <a href="#">Canada</a>
<b>740</b>	Peel Region - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Rapid Assessment Technology Services - Operations Challenge <a href="#">Canada</a>
<b>740</b>	SPD Sales Limited - Operations Challenge <a href="#">Canada</a>
<b>740</b>	SWEL - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Syntec Process Equipment - Operations Challenge <a href="#">Canada</a>
<b>740</b>	Vaughan Company, Inc - Operations Challenge <a href="#">Canada</a>

740	WASTECORP PUMPS - Operations Challenge <i>Canada</i>
740	WEAO - Operations Challenge <i>Canada</i>
740	WEF - Operations Challenge <i>USA</i>
740	York Region - Operations Challenge <i>Canada</i>
800	Xylem <i>Luxemburg</i>
Room 803	Huber Technology Ltd. <i>Canada</i>
Room 803	Noventa Energy Partners <i>Canada</i>
805	Mueller <i>Canada</i>
810	India Pavilion <i>India</i>
810	National Mission for Clean Ganga (NMCG) <i>India</i>
820	Aquacycl <i>USA</i>
820	Emerging Technology Pavilion <i>Global</i>
820	Enspired Solutions - PFASTigator <i>USA</i>
820	FYLD <i>UK</i>
820	Innovation Pavilion <i>Global</i>
820	IQ Energy <i>Australia</i>
820	Isle Utilities <i>Australia</i>
820	Terra15 <i>Australia</i>
820	VorTech <i>Ireland</i>
825	Nickel Institute <i>Canada</i>
825	Water Project <i>Canada</i>
907	KWR <i>Netherlands</i>
910	AquaTech <i>Netherlands</i>
910	EBC Foundation <i>Netherlands</i>
910	Hydraloop <i>Netherlands</i>
910	LG Sonic <i>Netherlands</i>
910	Netherlands Pavilion <i>Netherlands</i>
910	Netherlands Water Partnership (NWP) <i>Netherlands</i>
910	PWNT <i>Netherlands</i>
910	VEWIN <i>Netherlands</i>
910	Water Alliance <i>Netherlands</i>
910	Water4All <i>Netherlands</i>
912	CST Industries <i>USA</i>
913	Cla-Val <i>USA</i>

915	Toray <i>USA</i>
926	Harmsco <i>USA</i>
928	RLS Wacon <i>Germany</i>
929	AWWA <i>USA</i>
931	K&K Trading <i>Nepal</i>
1000	Anglian Water <i>United Kingdom</i>
1000	ARUP <i>United Kingdom</i>
1000	Atkins Realis <i>United Kingdom</i>
1000	British Water <i>United Kingdom</i>
1000	Capgemini <i>United Kingdom</i>
1000	GHD <i>United Kingdom</i>
1000	Morrison Construction <i>United Kingdom</i>
1000	Northumbrian Water <i>United Kingdom</i>
1000	Ofwat Innovation Fund <i>United Kingdom</i>
1000	RSE <i>United Kingdom</i>
1000	Scottish Gov <i>United Kingdom</i>
1000	Scottish Water <i>United Kingdom</i>
1000	Severn Trent <i>United Kingdom</i>
1000	South West Water <i>United Kingdom</i>
1000	UK Pavilion <i>United Kingdom</i>
1000	United Utilities <i>United Kingdom</i>
1000	Visit Britain <i>United Kingdom</i>
1000	Vyntelligence <i>United Kingdom</i>
1000	Wessex Water <i>United Kingdom</i>
1000	WRC <i>United Kingdom</i>
1000	Yorkshire Water <i>United Kingdom</i>
1010	Raetts <i>Germany</i>
1012	Cambi <i>USA</i>
1013	Environmental Science & Eng. Magazine <i>Canada</i>
1015	Itron <i>USA</i>
1203	Royal Society of Chemistry <i>United Kingdom</i>
1204	MDPI <i>China</i>
	Asian Water <i>Malaysia</i>
	GWJ <i>United Kingdom</i>



## NWSC - UGANDA

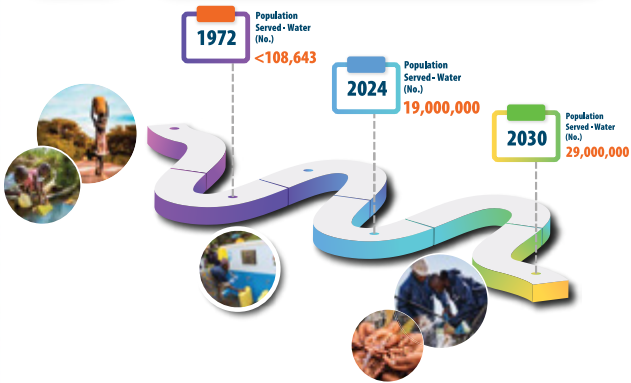
RACE SDG 2030 TARGET



## 22<sup>nd</sup> African Water & Sanitation Association

INTERNATIONAL CONGRESS AND EXHIBITION

**Theme: Water and Sanitation for All**  
A Secure Future for Africa



16<sup>th</sup> - 20<sup>th</sup>  
**February 2025**  
Kampala, Uganda

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# Exhibitor Profiles



**Stand 300**  
AARHUS VAND



**Stand 710-4**  
ACME ENGINEERING PRODUCTS  
Country: Canada



**Stand 515**  
ACTI-ZYME PRODUCTS LTD



**Stand 422**  
ADS PIPES

Company/organization name: ADS  
City: Thorndale, ON  
Country: Canada  
Web address: <https://adspipe.ca/>  
LinkedIn: <https://www.linkedin.com/company/advanced-drainage-systems-inc->  
X: [https://x.com/ADS\\_Inc](https://x.com/ADS_Inc)  
Facebook: <https://www.facebook.com/AdvancedDrainageSystems>

Company description/products and services:  
Advanced Drainage Systems is a leading manufacturer of innovative stormwater and onsite septic wastewater solutions that manages the world's most precious resource: water. ADS is one of the largest plastic recycling companies in North America, ensuring over half a billion pounds of plastic is kept out of landfills every year. Visit [adspipe.ca](http://adspipe.ca)



**Stand 610-7P**  
ADVANCING CANADIAN WATER ASSETS (ACWA)



**Stand 740**  
AECOM - OPERATIONS CHALLENGE

City: Markham  
Country: Canada  
Web address: [aecom.ca](http://aecom.ca)  
LinkedIn: <https://www.linkedin.com/company/aecom>  
X: <https://x.com/AECOM>  
Facebook: <https://www.facebook.com/AecomTechnologyCorporation/>

AECOM is the world's trusted infrastructure consulting firm, partnering with clients to solve the world's most complex challenges and build legacies for generations to come. From flood protection to nutrient control to desalination, AECOM's goal is to ensure that our water clients have access to globally sustainable technologies, locally delivered.



**Stand 300**  
AGUARDIO  
City: Viby J  
Country: Denmark  
Web address: [www.aguardio.com](http://www.aguardio.com)  
LinkedIn: [www.linkedin.com/company/AGUARDIO](http://www.linkedin.com/company/AGUARDIO)  
X: [www.X.com/aguardio](http://www.X.com/aguardio)  
Facebook: [www.facebook.com/aguardio](http://www.facebook.com/aguardio)

Company description/products and services:  
Aguardio designs and produces IoT sensors that help reduce water usage in bathrooms, specifically showers and toilets. The sensors alert users to water waste and enable usage monitoring, promoting user interaction and leading to behavioral change. The online Aguardio platform helps industries make building planning and time management more effective.



**Stand 1000**  
ANGLIAN WATER SERVICES  
Company/organization name: Anglian Water Services  
City: Huntingdon  
Country: UK  
Web address: [www.anglianwater](http://www.anglianwater)  
LinkedIn: @anglianwater  
X: @anglianwater  
Facebook: @anglianwater

Anglian Water is the largest water and water recycling company in England and Wales by geographic area and the first major utility to incorporate their purpose into their Articles of Association.

In 2023, Anglian Water received several prestigious accolades, including being named Water Industry Awards Company of the Year. They were also featured in The Times Top 50 Employers for Gender Equality and recognized as one of the Top 10 Best Private Companies in the FTSE Women Leaders Review.



**Stand 300**  
APX10  
City: Milwaukee, WI  
Country: USA  
Web address: [www.apx10.com](http://www.apx10.com)

Revolutionizing water data  
The APX® platform brings superior infrastructure overview and pipeline reinvestment decision guidance to water and wastewater utilities



**Stand 710-1**  
AQUAACTION  
City: Montreal  
Country: Canada  
Web address: [www.aquaaction.org](http://www.aquaaction.org)  
LinkedIn: <https://www.linkedin.com/company/aquaaction/mycompany/>  
X: [https://x.com/i/flow/login?redirect\\_after\\_login=%2FTakeAquaAction](https://x.com/i/flow/login?redirect_after_login=%2FTakeAquaAction)  
Facebook: <https://www.facebook.com/TakeAquaAction>

Founded in 2015, AquaAction is a registered charity focused on revitalizing freshwater health, through innovative technologies. Through its two tech-focused programs, AquaAction develops entrepreneurial skills, and supports the launch of water-tech startups (AquaHacking Challenge) as well as secure pilots and 1st clients for water tech start-ups (AquaEntrepreneur).



**Stand 820**  
AQUACYCL



**Stand 910**  
AQUATECH GLOBAL  
City: Amsterdam  
Country: The Netherlands  
Web address: [www.aquatechtrade.com](http://www.aquatechtrade.com)  
LinkedIn: <https://www.linkedin.com/company/aquatech-global-events/>  
X: <https://x.com/aquatech/>  
Facebook: <https://www.facebook.com/aquatechtrade/>

Aquatech is the leading global platform on technology & solutions driving a sustainable water future, hosting international trade shows in Amsterdam, China, and Mexico and an online community. The flagship event, Aquatech Amsterdam, attracts an attendance of over 25,000 and 800 exhibitors biennially, showcasing cutting-edge water technologies and fostering industry connections worldwide.



**Stand 608**  
ARIA FILTRA  
City: Cortland, NY  
Country: USA  
Web address: [www.ariafiltra.com](http://www.ariafiltra.com)  
LinkedIn: Aria Filtra

Aria Filtra, a division of Trojan Technologies, is the filtration partner of choice for municipal and industrial customers that need reliable access to consistent, high-quality water. Featuring industry-leading durability, reliability, and ease of operations, our broad portfolio of solutions ensures mission-critical functions continue to work as needed, day in, day out, for years to come.



**Stand 610-4P**  
ARMTEC



**Stand 1000**  
ARUP

Dedicated to sustainable development, Arup is a collective of designers, consultants and experts working globally. Founded to be humane and excellent, we collaborate with our clients and partners using imagination, technology, and rigour to shape a better world



**ASIAN WATER MAGAZINE**

City: Petaling Jaya, Selangor  
Country: Malaysia  
Web address: [www.asianwater.com.my](http://www.asianwater.com.my)  
Linkedln: [www.linkedin.com/company/asian-water-magazine](http://www.linkedin.com/company/asian-water-magazine)

Asian Water has been an impartial, interesting and trusted source of information covering every country on Asia. Asian Water continues to be an unbeatable source of the very information that Asia's water professionals are keen to read about. Asian Water also brings to you a regular digital weekly newsletter, where you will be kept abreast with the latest news, trends and developments in the water and wastewater industry as it happens.



**Stand 635**  
A.T COVERS S.R.L

City: Piacenza  
Country: Italy  
Web address: [www.atcovers.it](http://www.atcovers.it)

A.T COVERS srl is an Italian company with 25 years of experience in producing Aluminum Covers for odors containment in Public and Industrial Wastewater Treatment Plants. We offer our clients a complete service: Customized design, Production and Installation on all types and shapes of tanks.



**Stand 1000**  
ATKINSRÉALIS

Created by the integration of long-standing organizations dating back to 1911, AtkinsRéalis is a world-leading professional services and project management company dedicated to engineering a better future for our planet and its people. We create sustainable solutions that connect people, data and technology to transform the world's infrastructure and energy systems.



**Stand 421**  
BALMORAL TANKS

City: Thurnscoe  
Country: England  
Web address: [www.balmoraltanks.com](http://www.balmoraltanks.com)  
Linkedln: [www.linkedin.com/company/3049519](http://www.linkedin.com/company/3049519)

Balmoral Tanks is a leading design and manufacturing company that provides unique turnkey services spanning civils groundwork, tank design and manufacture, installation, commissioning and technical after sales services. Producing what is believed to be the most comprehensive range of tank products from a single source.



**Stand 308**  
BEIJING DRAINAGE

Beijing Drainage Group Co., LTD  
City: Beijing  
Country: China  
Web address: <https://www.bdc.cn/>

Beijing Drainage Group Co., LTD is a franchise enterprise specializing in sewage treatment and reclaimed water utilization in the urban area of Beijing. It is a national leader in sewage treatment and recycling, sludge treatment and disposal, pipe network O&M, integrated plant and network operation, and technological innovation.



**Stand 740**  
BISAN INCL. - OPERATIONS CHALLENGE

City: Mississauga  
Country: Canada  
Web address: [www.bisaninc.com](http://www.bisaninc.com)  
Linkedln: <https://www.linkedin.com/company/bisan-trading-and-industrial-services-inc/?originalSubdomain=ca>  
Facebook: <https://www.facebook.com/bisaninccanada>

BISAN offers equipment and pre-engineered systems to both municipal and industrial clients including:

- Chemical Feed equipment and systems (Local Ontario representative for Watson Marlow Pumps)
- Dry & Wet Polymer preparation and feed systems
- Dynamic and static Mixing Systems
- Instrumentation & Instruments panels
- Specialty valves.



**Stand 510-15**  
BISHOP WATER



**Stand 402**  
BLACK & VEATCH - SPONSOR LOUNGE



**Stand 610**  
BLUMETRIC



**Stand 820**  
bNOVATE TECHNOLOGIES

City: Ecublens  
Country: Switzerland  
Web address: <https://www.bnovate.com/>  
Linkedln: <https://www.linkedin.com/company/bnovate-technologies/>  
X: <https://x.com/bNovatePR?mx=2>  
Facebook: [https://www.facebook.com/channel/UCub7ZhAR\\_kK4O1xIB26\\_UMQ](https://www.facebook.com/channel/UCub7ZhAR_kK4O1xIB26_UMQ)  
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Featured by Isle at: USA Technology Approval Group

bNovate Technologies enhances water quality monitoring with products, AQUA@Sens and Bactosense. The BactoSense is an automated and online sensor for the rapid monitoring of bacteria in drinking water. It provides a direct, high-resolution bacteria count to quickly detect microbiological contamination, dramatically reducing the current routine measurement time from 1-5 days to 20 minutes.



**Stand 104**  
BPC INSTRUMENTS

City: Lund  
Country: Sweden  
Web address: [www.bpcinstruments.com](http://www.bpcinstruments.com)  
Linkedln: <https://www.linkedin.com/company/bioprocess-control-sweden-ab/mycompany/>

BPC Instruments is a global Swedish based pioneering technology company developing and offering analytical instruments enabling more efficient, reliable, and higher quality research and analysis for industries in renewable bioenergy and environmental biotechnology. Today, BPC Instruments exports to nearly 70 countries around the world.



**Stand 730**  
BUREAU OF SEWERAGE, TOKYO METROPOLITAN GOVERNMENT

City: Tokyo  
Country: Japan  
Web address: <https://www.gesui.metro.tokyo.lg.jp/>  
X: @tocho\_suido (available in Japanese)

The Bureau of Sewerage TMG is a public corporation operating sewerage services in Tokyo, a capital city with a population of over 14 million. We are working to solve problems on facility maintenance utilizing the strength of Tokyo Sewerage.





### Stand 730

#### BUREAU OF WATERWORKS, TOKYO METROPOLITAN GOVERNMENT

City: Tokyo  
Country: Japan  
X: @tocho\_suido (available in Japanese)

We have been constantly providing a stable supply of high quality water to approx. 13.6 million customers. While constructing a water supply system with higher reliability at both the hard and soft aspects, we are aiming at developing the high quality water service and the waterworks that make customers satisfied.



### Stand 1012

#### CAMBI

City: Malvern, PA  
Country: United States of America  
Web address: [www.cambi.com](http://www.cambi.com)  
LinkedIn: <https://www.linkedin.com/company/cambithp/>  
X: <https://x.com/CambiTHP>  
Facebook: <https://www.facebook.com/CambiTHP/>

With over 89 facilities, Cambi is the acknowledged worldwide leader in Thermal Hydrolysis. For over 25 years Cambi THP has been successfully pre-treating solids prior to digestion. Cambi THP reduces capital and operating costs by reducing digester volume by 60% alone and producing.



### Stand 407

#### CAMERON INSTRUMENTS INC.

City: Guelph, ON  
Country: Canada  
Web address: [www.cameroninstruments.com](http://www.cameroninstruments.com)  
LinkedIn: <https://www.linkedin.com/company/cameron-instruments-inc-/mycompany/>  
X: [https://x.com/Cameron\\_Inst](https://x.com/Cameron_Inst)  
Facebook: <https://www.facebook.com/cameroninstruments>

Cameron Instruments Inc. is a Canadian distributor of high quality calibration, measurement & test instrumentation for pressure, temperature, gas and flow measurement. Proudly representing Sewerin - Technologies for Leak Detection across Canada. We are also the Approved Service Partner for all Sewerin Gas Detectors in Canada.



### Stand 510/610/710

#### CANADA PAVILION

The Canada Pavilion  
Country: Canada  
Web address: [www.cwwa.ca](http://www.cwwa.ca)

Visit the Canada Pavilion to meet over 40 Canadian innovators and solution providers. Relax in the Toronto Water Lounge and hear presentations from Canadian entrepreneurs. Be sure to drop by Tuesday afternoon 1700-1830 for the Canada Reception and try ouroutine – a Canadian classic!



### Stand 510-8

#### CANADIAN WATER NETWORK

City: Waterloo, Ontario  
Country: Canada  
Web address: <https://cwn-rce.ca/>  
LinkedIn: <https://www.linkedin.com/company/canadian-water-network/>  
X: @CdnWaterNetwork  
Facebook: <https://www.facebook.com/CanadianWaterNetwork>

Canadian Water Network supports decision-makers across sectors in addressing nationally relevant water-related challenges and opportunities within three focus areas: water and communities, water and health, and water and climate. Our goal is to foster a more resilient, equitable and healthy relationship with water while contributing to reconciliation with Indigenous peoples.



### Stand 1000

#### CAPGEMINI

Company/organization name: Capgemini UK  
City: London  
Country: United Kingdom  
Web address: <https://www.capgemini.com/gb-en/>  
LinkedIn: [Capgemini Energy Transition & Utilities](https://www.linkedin.com/company/capgemini-energy-transition-utilities/)

Capgemini is a global business and technology transformation partner, helping organisations to accelerate their dual transition to a digital and sustainable world, while creating tangible impact for enterprises and society. Capgemini delivers end-to-end services and solutions leveraging strengths from strategy and design to engineering, all fueled by its market leading capabilities in AI, cloud and data, combined with its deep industry expertise and partner ecosystem.



### Stand 610-7P

#### CARLETON UNIVERSITY

City: Ottawa, Ontario  
Country: Canada  
Web address: <https://carleton.ca/>  
LinkedIn: <https://www.linkedin.com/school/carleton-university/>  
X: [https://x.com/Carleton\\_U](https://x.com/Carleton_U)  
Facebook: <https://www.facebook.com/carletonuniversity>

Carleton University, Canada's capital university is situated on a beautiful campus bordered by the sparkling Rideau River and Canal, Carleton is just minutes from the heart of our nation's government and enjoys easy access to the many organizations, associations and businesses which thrive in Ottawa. Many of Ontario's leading high tech companies surround our campus where cutting-edge research joins with highly innovative teaching to solve real-life problems. Members of a dynamic, research-intensive university, Carleton's faculty and staff provide a superior learning experience for our fine students who hail from every province and from over 100 countries around the world.



### Stand 510/610/710

#### CAWQ/ACQE - CANADIAN ASSOCIATION ON WATER QUALITY/ASSOCIATION CANADIENNE SUR LA QUALITÉ DE L'EAU

City: Hamilton  
Country: Canada  
Web address: <https://www.cawq.ca/en/home/>  
LinkedIn: <https://www.linkedin.com/company/canadian-association-on-water-quality-cawq-acqe/>  
X: [https://x.com/i/flow/login?redirect\\_after\\_login=%2Fcaqw1967](https://x.com/i/flow/login?redirect_after_login=%2Fcaqw1967)  
Facebook: <https://www.facebook.com/CAWQACQE>

The mission of the Canadian Association on Water Quality (CAWQ) is to create and foster a nationwide network of professionals dedicated to the development and communication of knowledge to preserve and enhance the water quality environment.



### Stand 310

#### CHINA PAVILION

The China pavilion includes, industry representative enterprises business platform and academic institution from China. They are Beijing Drainage Group Co., Ltd., Jiangsu Taiyuan Environmental Protection Technology Co., Ltd., Shanghai Beifu Inverter technology Co., Ltd., Nanyuan pump industry Co., Ltd., WieTec and Watertech China, IWA Cities of the Future Research Center (Xi'an).



### Stand 740

#### CIMA+



### Stand 610-14

#### CITY OF TORONTO



### Stand 610-3

#### CITY OF TORONTO - TORONTO WATER LOUNGE



### Stand 913

#### CLA-VAL

City: Costa Mesa, California  
Country: USA  
Web address: [www.cla-val.com](http://www.cla-val.com)  
LinkedIn: <https://www.linkedin.com/company/cla-val>  
Facebook: <https://www.facebook.com/clavalusa>

For over 80 years, Cla-Val has been a leading manufacturer of automatic control valves, serving customers throughout the world. Our commitment to excellence shows in each valve we produce. The valves are designed to improve system efficiency along with a complete line of electronic products, enhancing the functionality of the valves.



### Stand 300 CLEAN

City: Copenhagen  
Country: Denmark  
Web address: [www.cleancluster.dk](http://www.cleancluster.dk)  
LinkedIn: [www.linkedin.com/company/cleancluster](https://www.linkedin.com/company/cleancluster)

Clean is the Danish Water and Environmental Cluster. We connect and work with companies, utilities, universities, and the public sector to create innovative market-driven solutions to accelerate the green transition. By connecting these actors, we facilitate projects to strengthen the Danish ecosystem within water with international partners.



### Stand 610-7P CONCORDIA UNIVERSITY

Montreal, Quebec  
Canada  
<https://www.concordia.ca/about.html>  
<https://www.linkedin.com/school/concordia-university/>  
<https://x.com/Concordia>  
<https://www.facebook.com/ConcordiaUniversity>

As a next-generation university, we reimagine the future of higher education. Concordia's innovative approach to experiential learning and cross-functional research benefits our 50,000 students. Concordia is the top-ranked university in North America under 50, located in vibrant Montreal on the traditional lands of the Kanien'kehá:ka Nation. We strive to be socially responsible and create a more equitable and sustainable world.



### Stand 300 CONSIBIO

City: Aarhus  
Country: Denmark  
Web address: [www.consibio.com](http://www.consibio.com)

Consibio, a Danish company, helps water utilities and private companies tackle climate change and stricter regulations by providing real-time, high-quality data on sewer health and climate monitoring.



### Stand 423 CONTINENTAL CARBON GROUP

City: Stoney Creek  
Country: Canada  
Web address: [www.continental-carbon.com](http://www.continental-carbon.com)  
LinkedIn: <https://www.linkedin.com/company/continental-carbon-group/>

Continental Carbon Group (CCG) is a turn-key solutions provider for air, water and wastewater solutions within the municipal, industrial, commercial, and construction industries. We have the technology, resources, and expertise in designing, manufacturing, and implementing innovative air and water treatment solutions. Our dedicated and experienced team of engineering, project management, and field service personnel provide our customers with high quality solutions and services.



### Stand 740 CONTINENTAL CARBON – OPERATIONS CHALLENGE

City: Stoney Creek  
Country: Canada  
Web address: <https://continental-carbon.com/>  
LinkedIn: <https://www.linkedin.com/company/continental-carbon-group/>

Continental Carbon Group is a turn-key solutions provider for the treatment of air, water and wastewater within the municipal, industrial, commercial, and construction industries. We have the technology, resources, and expertise in designing, manufacturing, and implementing systems to address air and water treatment needs.



### Stand 735 CRAYONANO AS

City: Trondheim  
Country: Norway  
Web address: [www.crayonano.com](http://www.crayonano.com)  
LinkedIn: <https://no.linkedin.com/company/crayonano>  
X: [@crayonanoas](https://x.com/crayonanoas) (<https://x.com/crayonanoas>)  
Instagram: <https://www.instagram.com/crayonano/>

CrayoNano develops and manufactures nanomaterials-based semiconductor components using proprietary technologies. Headquartered in Trondheim, Norway with a branch office in Chinese Taipei, CrayoNano supports our customers with global sales representatives and distributors in EMEA, APAC and Americas. CrayoNano's innovative semiconductor components advance global solutions in health and safety, water purification, consumer, and industrial applications, and more.



### Stand 610 -1 CRITICAL MATRIX



### Stand 407 CROMER INDUSTRIES INC

City: Seguin, Ontario  
Country: Canada  
Web address: [www.cromerindustries.com](http://www.cromerindustries.com)

Representing Sewer Water Leak Detection products in Canada for sales and service.



### Stand 912 CST INDUSTRIES

City: Kansas City, Missouri  
Country: United States of America  
Web address: [www.cstindustries.com](http://www.cstindustries.com)  
LinkedIn: <https://www.linkedin.com/company/cst-industries-inc-/>  
X: <https://x.com/CSTIndustries>  
Facebook: <https://www.facebook.com/CSTIndustries/>

CST Industries is the largest dome and storage tank manufacturer in the world. CST's global network includes manufacturing facilities and technical design centers across North America, Europe, the United Kingdom, and Vietnam which are complemented by a network of global sales offices. With over 130 years of industry experience, CST is dedicated to delivering high-quality solutions to customers worldwide.



### Stand 610-1 CWII



### Stand 610-16 DALHOUSIE UNIVERSITY AND CENTRE FOR WATER RESOURCES STUDIES

City: Halifax, Nova Scotia  
Country: Canada  
Web Address: <https://www.dal.ca/>  
LinkedIn: <https://www.linkedin.com/school/dalhousie-university/>  
X: <https://x.com/dalhousieu>  
Facebook: <https://www.facebook.com/DalhousieU/>

Dalhousie University combines exceptional student experience, high-impact research, and a deep sense of social responsibility in Nova Scotia, Canada.



### Stand 300 DANISH EXPORT ASSOCIATION

Danish Export - Water Tech gathers Danish suppliers in a large network, making it your shortcut to suppliers with lots of know-how. The Danish suppliers operate within all aspects of the water industry: Ground water, drinking water, process water, wastewater, urban water issues etc



### Stand 300 DANVA – THE DANISH WATER AND WASTEWATER ASSOCIATION

City: Skanderborg / Copenhagen  
Country: Denmark  
Web address: [www.danva.dk/waterinfigures2022](http://www.danva.dk/waterinfigures2022)  
LinkedIn: <https://www.linkedin.com/company/danva/>  
X: [@DANVA1926](https://x.com/DANVA1926)

DANVA, Danish Water and Wastewater Association, is an industry organization for drinking water and wastewater utilities in Denmark. DANVA is a nonprofit association, funded by its members and commercial activities. DANVA provides secretariat function for the Danish National IWA Committee, reinforcing the link between IWA and the Danish water sector.

# WATER CANADA

NOW AVAILABLE!

## TOP 50 WATER PROJECTS REPORT

The annual *Top 50 Water Projects Report* provides a ranking and description of the largest water projects across Canada (by investment). Featured projects include wastewater treatment, stormwater management, conveyance, and conservation. Project descriptions include a comprehensive range of data, from funding and funding models, to key players, timelines, and more.

The *Top 50 Water Projects Report* is a key source of information, for communities and professionals alike, who operate across Canada's diverse water sector. Access the Report today!



- ➔ For editorial inquiries, contact **Toby Gorman**, [toby@actualmedia.ca](mailto:toby@actualmedia.ca)
- ➔ For advertising inquiries, contact **Vanessa Watson**, [vanessa@actualmedia.ca](mailto:vanessa@actualmedia.ca)

### DataStream

Stand 510-10  
DATASTREAM

### Deepchill

Stand 610 - 1  
DEEPCHILL



Stand 300  
DENMARK PAVILION

Pavilion of Denmark is a joint pavilion for Danish export companies, and it is your direct access to Danish suppliers at international trade fairs. The pavilion gathers Danish suppliers in a large network, making it your shortcut to lots of know-how. The Danish suppliers of the Danish Export – Water Tech network operate within all facets of the water industry: Ground water, drinking water, process water, wastewater, urban water issues etc.



Stand 300  
DHI

DHI A/S is a global digitally enabled advisory company innovating new ways to use, manage and live with water and protect water-related ecosystems.



Stand 610-10P  
DIGITAL WATER SOLUTIONS INC.  
City: Guelph, ON  
Country: Canada  
Web address: [digitalwater.solutions](http://digitalwater.solutions)  
LinkedIn: [linkedin.com/company/digital-water-solutions-inc](https://www.linkedin.com/company/digital-water-solutions-inc)  
X: @digitalwater5

The hydrant.AI device from Digital Water Solutions monitors water distribution networks for pressure, transients and leaks. Using advanced AI/ML algorithms our solution identifies emerging issues in your network before they become significant events thus allowing the utility some time to act before a significant disruption to service occurs.



Stand 740  
DIRECTRIK INC - OPERATIONS CHALLENGE



Stand 300  
DTU



Stand 710-12  
E M FLUIDS INC.



### Stand 910

#### THE EUROPEAN BENCHMARKING CO-OPERATION (EBC FOUNDATION)

Web address: <https://www.waterbenchmark.org/>

The European Benchmarking Co-operation (EBC Foundation) is a not-for-profit sector initiative to improve drinking water & wastewater services. EBC offers drinking water & wastewater utilities in Europe and beyond a leading improvement- and knowledge exchange programme, in which participants gain insight into potential improvement areas, industry best practices, and innovations through extensive, annual benchmarking exercises and knowledge exchange events. So far, some 250 different water companies have participated in the programme. Next to facilitating a the European programme, EBC is also involved in several Water Operator Partnerships globally with a benchmarking component as a basis for capacity building.

The programme was initiated in 2005 by Dutch- & Nordic water utility associations. EBC Foundation is based in The Hague, The Netherlands, and is governed by partners from the water industry (Aquanet (PL), FIWA (FIN), Norsk Vann (N), Vewin (NL) and EurEau). EBC decided to be a member of NWP because of NWP's large international network in the water sector, the marketing opportunities via international water exhibitions and the possibilities to meet partners in the sector to collaborate with.



### Stand 710-13

#### BIZDATA CO., LTD.(ECOAI INNOVATES INC.)

City: Seoul

Country: Republic of Korea

Web address: <https://bizdata.kr/>

LinkedIn: <https://www.linkedin.com/company/ecoai-innovates/>

Facebook: <https://www.facebook.com/bizdataai/>

BizData is a company specializing in AI autonomous operations, dedicated to developing sustainable environmental AI platforms. Our main products include the NAIAD Hexa Series and AISCT.

The NAIAD Hexa Series is a smart water treatment platform capable of autonomous operation, while AISCT is a portable soil contamination analysis platform based on AI.



### Stand 411

#### ENDRESS+HAUSER

City: Burlington

Country: Canada

Web address: [www.ca.endress.com](http://www.ca.endress.com)

LinkedIn: <https://www.linkedin.com/company/endress-hauser-group/>

X: [https://www.X.com/Endress\\_CA](https://www.X.com/Endress_CA)

Facebook: <https://www.facebook.com/EndressHauser>

Endress+Hauser is a leading supplier of products, solutions and services for industrial process measurement and automation. We offer comprehensive process solutions for flow, level, pressure, analysis, temperature, recording and digital communications across a wide range of industries, optimizing processes with regards to economic efficiency, safety and environmental protection.



### Stand 820

#### ENSPIRED SOLUTIONS

City: Michigan

Country: USA

Web address: <https://www.enspiredsolutions.com/product>

LinkedIn: [https://www.linkedin.com/company/enspired-solutions/?miniCompanyUrn=urn%3Ali%3Afs\\_miniCompany%3A79864746&lipi=urn%3Ali%3Apage%3Ad\\_flagship3\\_company%3BbJlQbnmHTVKQo%2Fasywpg7w%3D%3D](https://www.linkedin.com/company/enspired-solutions/?miniCompanyUrn=urn%3Ali%3Afs_miniCompany%3A79864746&lipi=urn%3Ali%3Apage%3Ad_flagship3_company%3BbJlQbnmHTVKQo%2Fasywpg7w%3D%3D)

Enspired solutions have created the The PFASigator™ technology. This technology is an onsite, fully automated, skid-mounted UV batch reactor capable of mineralising PFAS molecules to non-toxic by-products. The PFASigator™ destroys PFAS molecules even in water chemistries of pH 3-12, under aerobic or anaerobic conditions. The equipment is modular, fully automated and operated under atmospheric pressure and temperature.



### Stand 1013

#### ENVIRONMENTAL SCIENCE & ENGINEERING MAGAZINE

City: Aurora

Web address: [www.esemag.com](http://www.esemag.com)

LinkedIn: Environmental Science and Engineering Magazine

X: @esemag

Facebook: @esemagazine

We have covered Canada's water, wastewater and environmental protection sectors since 1988. Our expert articles are "must reading" for consulting, municipal and industrial engineers, contractors and key government technical staff across Canada. Articles are written by leading environmental companies, engineers and scientists and cover a wide-range of environmental topics, with an emphasis on water and wastewater.



### Stand 406

#### ESRI

City: Redlands

Country: United States of America

Web address: [www.esri.com/water-utilities](http://www.esri.com/water-utilities)

LinkedIn: <https://www.linkedin.com/groups/6533227>

X: <https://X.com/EsrWater>

Esri is the global market leader in geographic information system (GIS) software, location intelligence, and mapping. Esri's ArcGIS technology empowers users with solutions that improve collaboration, coordination, and decision-making. ArcGIS transforms workflows by providing maps and apps that enable users to collect and map data, perform analysis, and share information.



### Stand 610-1

#### ETA



### Stand 510-5

#### EXACTBLUE TECHNOLOGIES INC



### Stand 610-1

#### FIBRACAST



### Stand 710-11

#### FLEMING COLLEGE



### Stand 610-11

#### FLOWNERGIA



### Stand 820

#### FYLD

City: London

Country: UK

Web address: <https://www.fyld.ai/>

LinkedIn: <https://www.linkedin.com/company/fyldai/>

X: [https://X.com/fyld\\_ai?lang=en](https://X.com/fyld_ai?lang=en)

Featured by Isle at: W-Lab Safety & Wellbeing Showcase and USA Technology Approval Group 23

Company description/products and services: FYLD has developed an award-winning digital platform that automatically transforms video and audio footage into real-time workflows, video risk assessments and analytics dashboards. By harnessing the power of machine learning, it eliminates paperwork, saves time and creates safer sites.



### Stand 610-11P

#### GEI CONSULTANTS

City: Vaughan, Ontario

Country: Canada

Web address: [www.geiconsultants.com](http://www.geiconsultants.com)

LinkedIn: [https://www.linkedin.com/company/geiconsultants-inc-/](https://www.linkedin.com/company/geiconsultants-inc/)

X: [https://X.com/i/flow/login?redirect\\_after\\_login=%2Fgeiconsultants](https://X.com/i/flow/login?redirect_after_login=%2Fgeiconsultants)

Facebook: <https://www.facebook.com/GEIConsultants/>

GEI Consultants is a consulting engineering and environmental firm that delivers value by providing professional services to improve our world's built environments. With more than 1,400 staff and 56 offices nationwide, GEI provides multi-disciplined engineering and technical services to a range of private and public sector clients domestically and abroad.



### Stand 1000

#### GHD

GHD is a global professional services company that leads through engineering, construction and architectural expertise. Our forward-looking and innovative approaches connect and sustain communities around the world. Delivering extraordinary social and economic outcomes, we are focused on building lasting relationships with our partners and clients.



### Stand 630

#### GEMÜ VALVES CANADA INC.

City: Laval, Quebec  
 Country: Canada  
 Web address: [https://www.gemu-group.com/en\\_CA/](https://www.gemu-group.com/en_CA/)  
 LinkedIn: <https://www.linkedin.com/company/gemuvalves>  
 X: <https://X.com/GemuUsa>  
 Facebook: <https://www.facebook.com/GEMUValves/>

The GEMÜ Group is a leading manufacturer of valves, measurement and control systems for liquids, vapors and gases. GEMÜ is a global market leader when it comes to solutions for sterile applications.



### Stand 421

#### GREATARIO

City: Innerkip Ontario  
 Country: Canada  
 Web address: <https://greatario.com>  
 LinkedIn: <https://www.linkedin.com/company/greatario>

Since 1986, Greatario has supplied Canadian municipal and industrial customers with turn-key, liquid storage tanks and covers. Our commitment to build the very best has led us to partner with Balmoral Tanks as their exclusive sales and service provider in Canada. With decades of experience and hundreds of installations, you can trust us for your next project.



### Stand 400

#### GRUNDFOS HOLDING A/S

City: Bjerringbro  
 Country: Denmark  
 Web address: [grundfos.com](https://www.grundfos.com)  
 LinkedIn: <https://www.linkedin.com/company/grundfos>  
 X: <https://X.com/grundfos>  
 Facebook: <https://www.facebook.com/Grundfos>

Grundfos pioneers solutions to the world's water and climate challenges and improves quality of life for people. We develop, produce and sell pump solutions which help reduce water-related challenges. We create research and product development based solutions to meet growing demands for minimising the consumption of resources and emission of CO2. We provide expertise in energy- and water efficient solutions and systems for a wide range of applications, including water supply, water treatment and waste water, industries and buildings. An annual production of over 15 million units positions the Grundfos Group as one of the world's largest pump manufacturers with 20,000 employees in 56 countries.



### Stand 926

#### HARMSCO

Harmsco Filtration Products manufactures innovative and cost-effective solutions for liquid filtration challenges provides Proven Value Added products for 3 divisions; Harmsco Industrial Products, Harmsco Swimming Pool Products and Harmsco Municipal Products. As a pioneer in the filtration industry, Harmsco holds numerous U.S. and International Patents for innovative filtration technologies committed to quality and value for the end user.



### Stand 407

#### HERMANN SEWERIN GMBH

City: Gütersloh  
 Country: Germany  
 Web address: [www.sewerin.com](http://www.sewerin.com)  
 LinkedIn: <https://www.linkedin.com/company/hermann-sewerin-gmbh>  
 X: <https://X.com/SewerinNews>  
 Facebook: <https://www.facebook.com/seweringmbh/>

Technology leader for gas and water leak detection equipment  
 The Sewerin group of companies is an internationally successful group with its headquarters in Gütersloh, Germany. Core business is the development, production and global distribution of electronic measuring equipment for the gas and water supply and distribution industry.



### Stand 510-12

#### HETEK SOLUTIONS

Stand 510-4  
 High Sense Solutions Inc.  
 City: Richmond Hill  
 Country: Canada  
 Web address: [www.highsensesolutions.ca](http://www.highsensesolutions.ca)  
 LinkedIn: <https://www.linkedin.com/company/highsensesolutions>  
 X: [https://X.com/sense\\_inc](https://X.com/sense_inc)  
 Facebook: <https://www.facebook.com/HighSenseSolutions>

High Sense Solutions is an innovative manufacturer of water leak detection systems, underground detection equipment, and utility instrumentation, especially for Gas & Oil, water and wastewater, refineries, power, power plants, and a wide range of other industries. The pioneering PERIJA® Series systems represented a major shift from conventional current water Leak detectors and opened opportunities for acoustic detection in a wide variety of areas not previously deemed practically. Water pipe locating and water leak detecting both has been combined in one device and made a revolution named LT-SONIC®.



### Stand Room 803

#### HUBER TECHNOLOGY LTD. CANADA.

HUBER Technology provides state-of-the-art equipment for municipal and industrial water and wastewater treatment. Our main focus is liquid/solid separation in general and headworks equipment in particular. We offer a comprehensive line of stainless-steel equipment. The HUBER Group is successfully operating in the environmental engineering sector and with its more than 60 subsidiaries, representative offices and agents, the HUBER Group is among the worldwide leading suppliers in the field of wastewater/sludge treatment and process engineering. With more than 175 years of commitment to drinking water and wastewater treatment, HUBER has always been an innovator in this field with a continuous focus on the development of new solutions to conserve one of our most valuable resources: water. HUBER Technology, Inc. began production in the US in January 2024 with the inauguration of its 203,000 sq. ft., state-of-the-art manufacturing facility in Denver, North Carolina. This investment empowers HUBER Technology, Inc. to enhance production efficiency and meet growing demands of the US & Canadian markets.



### Stand 910

#### HYDRALOOP INC.

City: Leeuwarden  
 Country: The Netherlands  
 Web address: [www.hydraloop.com](http://www.hydraloop.com)  
 LinkedIn: (1) [Hydraloop: Overview](#) | [LinkedIn](#)  
 Facebook: [Facebook](#)

Hydraloop is used to recycle greywater from shower/bath & laundry. This allows you to save up to 45% on tap water use and wastewater without losing comfort. The reuse water is used for toilet flushing, washing machines, garden irrigation, and topping up swimming pools.



### Stand 510-6

#### INCTRL SOLUTIONS

City: Toronto, ON  
 Country: Canada  
 Web address: <https://www.inctrl.com/>  
 LinkedIn: <https://www.linkedin.com/company/inctrl-solutions-inc->  
 X: <https://X.com/inCTRL10>  
 Facebook: [https://www.facebook.com/profile.php?id=100092507841167&sk=about&view\\_as=100000686899395](https://www.facebook.com/profile.php?id=100092507841167&sk=about&view_as=100000686899395)

Understand. Manage. Optimize. inCTRL's process experts provide tailored recommendations to improve efficiency and reduce costs by gaining insights from your data to deliver intelligent digital platforms for your water, wastewater, and biogas treatment needs.



### Stand 810

#### INDIA PAVILION



### Stand 820

#### INNOVATION PAVILION



### Stand 610-7P

#### INRS-ETE

City: Quebec, Quebec  
 Country: Canada  
 Web Address: <https://inrs.ca/en/inrs/centres-de-recherche/eau-terre-environnement-research-centre/>  
 LinkedIn: <https://www.linkedin.com/school/institut-national-recherche-scientifique-inrs/>  
 X: [https://X.com/i/flow/login?redirect\\_after\\_login=%2Finrsiences](https://X.com/i/flow/login?redirect_after_login=%2Finrsiences)  
 Facebook: <https://www.facebook.com/inrsiences/>

The INRS Eau Terre Environnement Research Centre contributes to the advancement of knowledge to better protect, preserve, and develop natural, water, and land resources.



### Stand 610-2

#### IPEX INC.

City: Oakville  
Country: Canada  
Web address: <https://ipexna.com/>  
LinkedIn: <https://www.linkedin.com/company/ipexbyalixis>

For over 50 years, IPEX has led in thermoplastic piping systems, offering unmatched engineering expertise for complex municipal needs. IPEX's piping systems boast proven strength, flexibility, and exceptional resistance to corrosion and chemical attack, providing quality assurance that surpasses the industry's toughest standards.



### Stand 740

#### IPEX - OPERATIONS CHALLENGE

City: Mississauga  
Country: Canada  
Web address: [www.ipexna.com](http://www.ipexna.com)  
LinkedIn: IPEXbyAliaxis  
Facebook: IPEX by Aliaxis

IPEX companies design and manufacture the largest, most recognized and diverse range of integrated piping products for today's municipal, industrial, commercial and residential needs. Backed by the industry's most comprehensive and experienced sales and distribution network. It's what has made IPEX the responsible choice in North America for over fifty years.



### Stand 820

#### IQ ENERGY

City: Alberta  
Country: Canada (with an office in Australia)  
Web address: <https://iqenergy.ca/> (<https://iq-energy.com.au/>)  
LinkedIn: <https://www.linkedin.com/company/iq-energy-inc/> (<https://www.linkedin.com/company/iq-energy-au/>)  
Featured by Isle at: W-Lab Nature Based Solutions Showcase

IQ Energy designs, builds, and markets clean energy products focused on converting otherwise underutilized waste streams into valuable clean energy. IQ Energy's principal products are the patented Indirect Gasification Systems, Counter-flow Bio-Mass Gasification Systems; Boundary Generator Inc – Let-Down Expander Generator Systems and WET-ORC heat recovery generators.



### Stand 820

#### ISLE UTILITIES

City: Multiple – London, Sydney  
Country: Global Company servicing regions - Europe, North America, Latin America, Asia Pacific, Africa and the Middle East  
Web address: <https://www.isleutilities.com/>  
LinkedIn: [https://www.linkedin.com/company/isle-utilities/?miniCompanyUrn=urn%3Ali%3Afsd\\_compan%3A1386453&lipi=urn%3Ali%3Apage%3Acompan%3Acompany\\_posts\\_index%3B1ca1900b-cfdf-4a72-a440-f7bf1d30a56b](https://www.linkedin.com/company/isle-utilities/?miniCompanyUrn=urn%3Ali%3Afsd_compan%3A1386453&lipi=urn%3Ali%3Apage%3Acompan%3Acompany_posts_index%3B1ca1900b-cfdf-4a72-a440-f7bf1d30a56b)

Passionate about technology and innovation, we care

about making the world a better place.

A global team of scientists, engineers, business and regulatory experts, with a common drive to make a positive social, economic, and environmental impact through the advancement of innovation, benchmarking, technologies and best practices. We advise our clients to solve the problems of today, Navigate emerging sector issues and Discover the possibilities of tomorrow.



### Stand 734

#### INTERNATIONAL ULTRAVIOLET ASSOCIATION

City: Chevy Chase, MD  
Country: USA  
Web address: [www.iuva.org](http://www.iuva.org)  
<https://www.linkedin.com/company/international-ultraviolet-association-inc/>

The International Ultraviolet Association is a 501-c-3 non-profit dedicated to the advancement of ultraviolet (UV) technologies for public health and the environment. Our efforts include education, research and participation in public policy forums worldwide. We also publish a quarterly magazine, UV Solutions.



### Stand 600

#### INTERNATIONAL WATER ASSOCIATION (IWA)

Country: United Kingdom  
Web address: <https://iwa-network.org/>

As the largest membership association for the global water sector, and with members in more than 140 countries, the International Water Association (IWA) brings together scientists, researchers, technology companies, water and wastewater utilities, and wider stakeholders involved in water management to promote a world in which water is wisely, sustainably and equitably managed.



### Stand 1015

#### ITRON

City: Liberty Lake, WA  
Country: USA  
Web address: [www.itron.com](http://www.itron.com)  
LinkedIn: <https://www.linkedin.com/company/7550>  
X: <https://X.com/itroninc>  
Facebook: <https://www.facebook.com/ItronInc/>

Itron is a proven global leader in energy, water, smart city, IIoT and intelligent infrastructure services. For utilities, cities and society, we build innovative systems, create new efficiencies, connect communities, encourage conservation and increase resourcefulness. By safeguarding our invaluable natural resources today and tomorrow, we improve the quality of life for people around the world.



### Stand 600

#### IWA CITIES OF THE FUTURE RESEARCH CENTRE (XI'AN)

City: Xi'an  
Country: China

This Centre is co-established between IWA and Xi'an University of Architecture and Technology in 2023 in Xi'an, China, which aims to gather researchers from the IWA members and partners within and outside China, as well as researchers interested in the Cities of the Future topics, to carry out initiatives on building water-wise cities and integrated water management for sustainable urban development.



### Stand 600

#### IWA WWCE 2026 HOST

Country: Scotland  
City: Glasgow



### Stand 600

#### IWA WWCE 2028 HOST

Country: Malaysia

Malaysian Water Association (Sarawak Branch) is an NGO formed in 2019. We strive to be the platform where policy makers, stake holders, industry practitioners and academia can freely exchange ideas and formulate solutions to ensure a sustainable water and wastewater infrastructure for Sarawak, Malaysia.



### Stand 610-13

#### IWA YWP CANADA

## Jacobs

### Stand 402

#### JACOBS - SPONSOR LOUNGE

Web address: [jacobs.com](http://jacobs.com)  
LinkedIn: <https://www.linkedin.com/company/yorkshire-water?originalSubdomain=uk>

At Jacobs, we're challenging today to reinvent tomorrow by solving the world's most critical problems for thriving cities, resilient environments, mission-critical outcomes, operational advancement, scientific discovery and cutting-edge manufacturing, turning abstract ideas into realities that transform the world for good. With approximately \$16 billion in annual revenue and a talent force of more than 60,000, Jacobs provides a full spectrum of professional services including consulting, technical, scientific and project delivery for the government and private sector. Visit [jacobs.com](http://jacobs.com) and connect with Jacobs on Facebook, Instagram, LinkedIn and X.

## Jacobs

### Stand 740

#### JACOBS - OPERATIONS CHALLENGE



### Stand 740

#### JOHN BROOKS - OPERATIONS CHALLENGE

City: Mississauga, ON  
Country: Canada  
Web address: <https://www.johnbrooks.ca/>  
LinkedIn: <https://www.linkedin.com/company/john-brooks-company/>

John Brooks Company has been creating fluid handling solutions for the people that keep our world flowing since 1938. Their portfolio includes pumps, spraying equipment, filtration products, valves, and custom-engineered systems for the simplest and most complicated industrial and municipal applications.



### Stand 310

#### JIANGSU TAIYUAN ENVIRONMENTAL PROTECTION TECHNOLOGY CO., LTD

City: Yixing City, Jiangsu Province  
Country: China  
Web address: [www.ty-hb.com](http://www.ty-hb.com)

Taiyuan E.P. established in 2004 and listed in 2016, is an environmental protection enterprise that integrates investment, construction, design, equipment manufacturing, installation, operation & maintenance, and water reclaimed resource utilization services for water environment treatment projects. The main product is TIMP assembled & prefabricated sewage (water purification) plant.



### Stand 931

#### K&K INTERNATIONAL TRADING COMPANY

Country: Nepal

Goal: Trading business (Export & Import of Any product as per customer demand nationally and internationally). Product for exhibition: water related products like wastewater management tool, sanitation, quality control and environmental products.

## kamstrup

### Stand 300

#### KAMSTRUP

Kamstrup is a leading supplier of intelligent metering solutions and services. We help utilities all over the world reduce waste and optimize their production and distribution of clean water and energy. We are headquartered in Denmark with production facilities in Denmark and in Georgia, USA.

## KWR

### Stand 907

#### KWR WATER RESEARCH INSTITUTE

City: Nieuwegein  
Country: The Netherlands  
Web address: [www.kwrwater.nl](http://www.kwrwater.nl)  
LinkedIn: <https://nl.linkedin.com/company/kwr-water-research-institute>  
X: [X.com/KWR\\_Water](https://x.com/KWR_Water)

KWR's guiding motto is "Bridging Science to Practice". KWR-researchers work at the interface of science, business and society. Our strength lies in the ability to translate scientific knowledge into practical and implementable solutions for end-users in the Dutch and international water sectors. KWR has developed a solid reputation as a top-level innovation accelerator and international network builder. Our shareholders are the 10 Dutch water companies and the Belgian De Watergroep.

## LGSONIC

### Stand 910

#### LG SONIC

City: Zoetermeer  
Country: Netherlands  
Web address: <https://www.lgsonic.com>  
LinkedIn: <https://www.linkedin.com/company/lg-sonic>  
X: [https://x.com/lgsonic\\_nl](https://x.com/lgsonic_nl)  
Facebook: <https://www.facebook.com/lgsonicbv>

LG Sonic offers sustainable, cutting-edge technologies to monitor water quality and control algal blooms. With our solar-powered ultrasonic algae control technology, we remediate large reservoirs and restore aquatic ecosystems without the use of chemicals. We also offer remote sensing, water quality monitoring, vertical profiling, multi-parameter sensors, consulting and watershed management.



### Stand 710-6

#### LOFTY PERCH INC.

City: Toronto  
Country: Canada  
Web address: [www.loftyperch.com](http://www.loftyperch.com)  
LinkedIn: [lofty perch inc.](https://www.linkedin.com/company/lofty-perch-inc)  
X: [@loftyperch/X](https://x.com/loftyperch/X)

Lofty Perch Inc. is the global leader in providing cyber security services for water/wastewater operational technology (OT) and SCADA systems. Leveraging decades of real-world SCADA and control systems security engineering experience, and operating globally, LPI provides unparalleled capability delivering cyber security risk management services that meet unique water sector requirements.



### Stand 420

#### LOVIBOND® WATER TESTING - TINTOMETER

City: Dortmund  
Country: Germany  
Web address: <https://www.lovibond.com>  
LinkedIn: <https://www.linkedin.com/company/lovibond%C2%AE-water-testing/mycompany/>  
Facebook: <https://www.facebook.com/profile.php?id=61552040277950>

Lovibond® Tintometer is a global leading supplier of water analysis equipment to the leisure, environmental and industrial sectors for the precise determination of different types of water: from pools & spas; drinking, waste, ground water and effluents, through to cooling and boiler water.



### Stand Room 705

#### MALAYSIAN WATER ASSOCIATION

City: Kuala Lumpur  
Country: Malaysia  
Web address: Home - Malaysian Water Association ([mwa.org.my](http://mwa.org.my))

The Malaysian Water Association (MWA) unites diverse water industry stakeholders to enhance knowledge, raise public awareness, and advocate for sustainable water management. It engages with authorities on strategic issues and maintains international connections, including membership with the International Water Association (IWA), to support global water industry goals.



### Stand: Room 705

#### MALAYSIAN WATER ASSOCIATION (SARAWAK BRANCH) MWASB

City: Kuching  
Country: Malaysia

Malaysian Water Association (Sarawak Branch) is an NGO formed in 2019. We strive to be the platform where policy makers, stakeholders, industry practitioners and academia can freely exchange ideas and formulate solutions to ensure a sustainable water and wastewater infrastructure for Sarawak, Malaysia.



### Stand 510-3

#### MANTECH

City: Guelph  
Country: Canada  
Web address: <https://mantech-inc.com/>  
LinkedIn: <https://www.linkedin.com/company/mantech-inc->  
X: [https://x.com/MANTECH\\_INC](https://x.com/MANTECH_INC)

Trusted worldwide, MANTECH manufactures water quality analyzers that help industrial facilities, laboratories and utilities deliver clean and safe water. Manufacturer of the PeCOD® analyzer for 10-minute, safe & green BOD/COD results and analyzers for pH, EC, alkalinity, TOC, fluoride, hardness, turbidity and more. Available in benchtop, autosampler or online configurations.



### Stand 736

#### MICROBIAL DISCOVERY GROUP (MDG)

City: Oak Creek  
Country: United States  
Web address: <https://www.mdgbio.com/>  
LinkedIn: <https://www.linkedin.com/company/microbial-discovery-group/>  
X: [https://x.com/MDG\\_bio](https://x.com/MDG_bio)  
Facebook: <https://www.facebook.com/MicrobialDiscoveryGroup/>

Microbial Discovery Group is an R&D-driven product development, large-scale Bacillus fermentation company. MDG supplies distributors with bioaugmentation products to treat challenges in municipal and industrial wastewater such as FOG, H<sub>2</sub>S, sludge, and odors. MDG's Biotifx® Program supplies distributors with high-end products, tools, and a supportive team to get started quickly using bioaugmentation.



### Stand 1204

#### MDPI AG

City: Basel  
Country: Switzerland  
Web address: [https://www.mdpi.com/?name=IWA2024&utm\\_from=d38cbb34f8](https://www.mdpi.com/?name=IWA2024&utm_from=d38cbb34f8)  
LinkedIn: [https://www.linkedin.com/company/mdpi?name=IWA2024-linkedln&utm\\_from=c11ceba91e](https://www.linkedin.com/company/mdpi?name=IWA2024-linkedln&utm_from=c11ceba91e)  
X: [https://x.com/MDPIOpenAccess?name=IWA2024-X&utm\\_from=2eRoom\\_803a6237](https://x.com/MDPIOpenAccess?name=IWA2024-X&utm_from=2eRoom_803a6237)  
Facebook: <https://www.facebook.com/MDPIOpenA>

ccessPublishing?name=IWA2024-FACEBOOK&\_utm\_ from=aa7949184a

A pioneer in scholarly, open access publishing, MDPI has supported academic communities since 1996. Based in Basel, Switzerland, MDPI has the mission to foster open scientific exchange in all forms, across all disciplines. Our 439 diverse and open access journals are supported by more than 295,000 academic experts.



### Stand 610-7P

#### MEMORIAL UNIVERSITY

City: Saint John's, Newfoundland and Labrador  
Country: Canada  
Web Address: <https://www.mun.ca/>  
LinkedIn: <https://www.linkedin.com/school/memorial-university-of-newfoundland/>  
X: <https://x.com/MemorialU>  
Facebook: <https://www.facebook.com/MemorialUniversity>

As Newfoundland and Labrador's only university, Memorial has a special obligation to the people of this province. Established as a memorial to the Newfoundlanders who lost their lives on active service during the First World War and subsequent conflicts, Memorial University draws inspiration from these sacrifices of the past as we help to build a better future for our province, our country and our world.



### Stand 1000

#### MORRISON CONSTRUCTION

City: Edinburgh  
Country: Scotland  
Web address: [www.morrisonconstruction.co.uk](http://www.morrisonconstruction.co.uk)  
LinkedIn: [www.linkedin.com/company/morrison-construction](http://www.linkedin.com/company/morrison-construction)  
X: @morrisonbuilds

Morrison Construction is one of Scotland's leading construction businesses, working to improve the built environment and delivering lasting change for the communities we work in. We have a longstanding partnership with Scottish Water, through our ESD joint venture, assisting with the long-term asset management plans, collaborating with our partners to ensure we offer a multi-disciplined approach able to deal with the significant challenges the sector poses.



### Stand 510-13

#### MS FILTER SYSTEMS INC.

City: Kawartha Lakes  
Country: Canada  
Web address: [www.msfilter.com](http://www.msfilter.com)  
LinkedIn: [linkedin.com/company/ms-filter-systems-inc](http://linkedin.com/company/ms-filter-systems-inc)  
X:  
Facebook: [facebook.com/msfiltersystems](http://facebook.com/msfiltersystems)

MS Filter Systems Inc. provides practical and sustainable water treatment solutions for small systems. With 25 years of operations and over 40 successful slow-sand water treatment plants across Canada and the U.S., MS Filter Systems is simply a better solution.



### Stand 300

#### MUCH MORE WATER

City: Roskilde  
Country: Denmark  
Web address: [www.MuchMoreWater.com](http://www.MuchMoreWater.com)  
LinkedIn: [www.linkedin.com/company/muchmorewater-a-s/](http://www.linkedin.com/company/muchmorewater-a-s/)

Much More Water is an innovative Danish company that produces small, compact, robust water purification systems named BlueBoxes, which are easy to transport, move, and set up. The system can run on different energy sources, like solar or wave energy. Tailormade to any water source and situation.



### Stand 805

#### MUELLER WATER PRODUCTS

City: Atlanta, Georgia  
Country: USA  
Web address: <http://www.muellerwaterproducts.com>  
LinkedIn: <https://www.linkedin.com/company/mueller-water-products>  
X: @MuellerWaterPro <https://x.com/MuellerWaterPro>

Mueller Water Products is a leading manufacturer and marketer of products and services used in the transmission, distribution and measurement of water in North America. Our broad product and service portfolio includes engineered valves, fire hydrants, pipe connection and repair products, metering products, leak detection, pipe condition assessment, pressure management products, and software technology that provides critical water system data. We help municipalities increase operational efficiencies, improve customer service, and prioritize capital spending.



### Stand 310

#### NANYUAN PUMP INDUSTRY CO., LTD.

City: Zhejiang  
Country: China  
Web address: <https://www.teskpump.com/>  
LinkedIn: <https://www.teskpump.com/public/img/share-linkedin.png>  
X: <https://www.teskpump.com/public/img/share-X.png>  
Facebook: <https://www.teskpump.com/public/img/share-facebook.png>

TESK is a overseas brand name of Zhejiang Nanyuan Pump Industry Co., Ltd. We are located in Leidian industry area, Huzhou city, Zhejiang, China. We are specialised in the research, development and large-scale production of stainless steel centrifugal pumps.



### Stand 810

#### NATIONAL MISSION FOR CLEAN GANGA (NMG)



### Stand 425

#### NATIONAL WATER AND SEWERAGE CORPORATION

City: KAMPALA  
Country: UGANDA  
Web address: [www.nwsc.co.ug](http://www.nwsc.co.ug)  
X: @nwscug  
Facebook: @waterug

National Water and Sewerage Corporation is Uganda's largest government owned urban water authority providing potable water and sewerage services. The principal business of the Corporation is to operate and provide water and sewerage services in areas entrusted to it by the Government, on a commercial and financially viable basis.



### Stand 710-14

#### NEPTUNE TECHNOLOGY GROUP CANADA



### Stand 910

#### NETHERLANDS PAVILION

The Netherlands Pavilion, organized by the Netherlands Water Partnership and Water Alliance. NWP is a network of 180 of innovative companies, knowledge institutes, NGOs and governmental organisations from the Netherlands. NWP's members are involved in projects all over the world relating to water management, water governance, flood prevention, engineering, reliable supply, and safe drinking water and sanitation.



### Stand 910

#### NETHERLANDS WATER PARTNERSHIP (NWP)

[www.nwp.nl](http://www.nwp.nl)  
[www.dutchwatersector.com](http://www.dutchwatersector.com)

The Netherlands Pavilion, organized by the Netherlands Water Partnership and Water Alliance. NWP is a network of 180 of innovative companies, knowledge institutes, NGOs and governmental organisations from the Netherlands. NWP's members are involved in projects all over the world relating to water management, water governance, flood prevention, engineering, reliable supply, and safe drinking water and sanitation.

Water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in Dutch watertech. Water Alliance is partner in business at WaterCampus Leeuwarden. [www.wateralliance.nl](http://www.wateralliance.nl)





### Stand 825

#### NICKEL INSTITUTE/TEAM STAINLESS

City: Toronto  
Country: Canada  
Web address: [www.nickelinstitute.org](http://www.nickelinstitute.org)

Team Stainless is an industry association partnership promoting the proper use of stainless steel in the water industry. Stainless Partially Corrugated Tubes (SPCT) for service water lines has widespread use in Japan, Chinese Taipei, Korea and China and has now been introduced in Europe, Australasia and North America.



### Stand 1000

#### OFWAT INNOVATION FUND

Ofwat, the Water Services Regulation Authority for England and Wales, has established a £200 million Innovation Fund to grow the water sector's capacity to innovate, enabling it to better meet the evolving needs of customers, society and the environment. Learn about the solutions underway: <https://waterinnovation.challenges.org/>



### Stand: 610

#### ONTARIO TRADES



### Stand 929

#### ONTARIO WATER WORKS ASSOCIATION

City: Mississauga, ON  
Country: Canada  
Web address: [www.owwa.ca](http://www.owwa.ca)  
LinkedIn: Ontario Water Works Association  
X: @owwa1

The Ontario Water Works Association – A Section of AWWA, is a leader in the delivery of safe drinking water. OWWA, with the support of its parent organization, the American Water Works Association (AWWA), is at the forefront of research, technology and policy development with respect to safe, sufficient, and sustainable drinking water.



### Stand 409

#### NIVUS GMBH

City: Eppingen  
Country: Germany  
Web address: [www.nivus.com](http://www.nivus.com)  
LinkedIn: <https://www.linkedin.com/company/nivus/mycompany/?viewAsMember=true>  
Facebook: <https://www.facebook.com/nivusgroup>

The NIVUS Group is a worldwide leader for measurement technology in potable and wastewater. Apart from developing, manufacturing and supplying the complete range of products for flow and level as well as the corresponding communication interfaces, we are also experts in the field of consulting and engineering.



### Stand 610 -1

#### ONTARIO GOVERNMENT OF ONTARIO

City: Ontario  
Country: Canada  
Web address: <https://www.sourcefromontario.com/>

Ontario dives deep when it comes to water technology. Our water companies have made clean water a reality in some of the world's toughest industrial and urban environments. The province has plenty of fresh water—over 250,000 lakes, 100,000 kilometres of rivers, and our Great Lakes contain 20% of the world's freshwater supply. With that abundance, Ontario has developed vital technology to address water needs, making us a world leader in innovation.



### Stand 1000

#### NORTHUMBRIAN WATER GROUP

City: Durham  
Country: UK  
Web address: Northumbrian Water | Supplying Water and Sewerage Services in the North East of England ([nwl.co.uk](http://nwl.co.uk))  
LinkedIn: NWG (Northumbrian Water Group)  
X: @NorthumbrianH2O  
Facebook: Northumbrian Water

Northumbrian Water Limited supplies 2.7 million customers in the North East with both water and sewerage services, trading as Northumbrian Water. In 2024, Northumbrian Water Group was named the world's most ethical water company for the 13th time and received accreditation for the third time to the Good Business Charter. The company was also recognised as one the UK's Best Workplaces (Super Large) by the Great Places to Work Institute for the fourth consecutive year and awarded Centre of Excellence in Wellbeing status.



### Stand 510-11

#### ONTARIO CLEAN WATER AGENCY (OCWA)

For more than 30 years, municipalities, First Nations communities, institutions and businesses across the province have chosen the Ontario Clean Water Agency (OCWA) as their trusted provider of safe, reliable and cost-effective water and wastewater services. Today, we operate over 1,000 water and wastewater facilities – more than any other operator in Canada. Established as a provincial crown Agency in 1993, OCWA operations, engineering, and technical services provide clean water expertise to businesses and communities all across Ontario. The Agency is committed to partnering with municipalities and First Nations communities. [www.ocwa.com](http://www.ocwa.com)



### Stand 510-14

#### ONTARIO FIRST NATIONS TECHNICAL SERVICES CORPORATION

City: Mississauga of the Credit First Nation (Head Office) with service centres in Thunder Bay, Brantford, and Atikameksheng Anishnabek.  
Country: Canada  
Web address: <https://ofntsc.org/>  
LinkedIn: <https://www.linkedin.com/company/10051345/admin/feed/posts/>  
X: <https://X.com/OFNTSC>  
Facebook: <https://www.facebook.com/ofntsc>

The OFNTSC provides technical advisory services to First Nations in Ontario in the areas of Environment, Engineering, Fuel Management, Fire and Safety, Housing, Infrastructure, Operations and Maintenance, and Water & Wastewater. These core services are at the heart and soul of our mission to help First Nations communities achieve technical self-reliance.



### Stand 740

#### OPERATION CHALLENGE



### Stand 708-8

#### OPERATORS WITHOUT BORDERS

City: Vancouver  
Country: Canada  
Web address: <https://operatorswithoutborders.org/>  
LinkedIn: Operators Without Borders  
Facebook: Operators Without Borders

Operators Without Borders is the only charity globally with a mandate to support water and wastewater utilities in developing countries. by providing volunteer operators and water professionals following disaster situations to ensure that water and wastewater services are quickly resumed and providing expert volunteers to mentor and train utility operators.



### Stand 710-9

#### PEEL REGION

City: Brampton, Ontario  
Country: Canada  
Web address: <https://www.peelregion.ca/>  
LinkedIn: <https://ca.linkedin.com/company/regionofpeel>  
X: @regionofpeel  
Facebook: <https://www.facebook.com/regionofpeel>  
Instagram: @peelregion.ca

Peel Region's water and wastewater mission is simple... Deliver Clean Water for Life to residents and businesses. We provide clean, safe and reliable drinking water and collect and treat wastewater, while also protecting the environment.



### Stand Room 803

#### NOVENTA ENERGY PARTNERS

As the exclusive distributor of HUBER's ThermWin® equipment for sewer heat recovery across North America and the United Kingdom, Noventa is able to offer a full range of products and services; from behind the meter equipment installations to the design, building, financing, owning, operation and maintenance of large scale, low carbon, district energy systems. Centred around our Wastewater Energy Transfer™ (WET™) sewer heat recovery system and proprietary technology, Noventa's Energy-as-a-Service (EaaS) model and operational guarantee allows us to provide our clients with low carbon heating and cooling, energy, and operational cost savings, avoided capital costs, added resiliency and redundancy for their HVAC systems and transfer of operational risk.



### Stand 740

PEEL REGION - OPERATIONS CHALLENGE



### Stand 610-7P

POLYTECHNIQUE MONTREAL

City: Montreal, Quebec

Country: Canada

Web Address: <https://www.polymtl.ca/en/>

LinkedIn: <https://www.linkedin.com/school/polytechnique-montreal/mycompany/verification/>

X: <https://x.com/polymtl>

Facebook: <https://www.facebook.com/polymtl>

Polytechnique Montréal is a flagship of engineering in Québec, and is also one of Canada's leading engineering educational and research institutions. Since its establishment in 1873, Polytechnique Montréal has trained nearly 50,000 engineers, specialists, and researchers. Polytechnique is a key player in Québec's engineering and innovation sector, in addition to being a partner of choice for a number of innovative businesses in Québec, elsewhere in Canada and all over the world.



### Stand 510-2

PR'EAUTECH, INSTRUMENTATION & ODORS INC

City: Richelieu, Quebec

Country: Canada

Web address: [www.preautech.com](http://www.preautech.com)

LinkedIn: PR'eautech

PR'eautech is 2 divisions.

First is Odor control:

Our speciality is the treatment of industrial and municipal malodorous problems. We give you access to a complete range of technical and particular processes as well as to a diversified series of patented molecules capable of neutralizing the smells and having no character of toxicity. Our job is based on EFFICIENCY, RELIABILITY and SERVICES.

Second is instrumentation for water treatment plant:

Our speciality for this division is to provide the best and most advanced technologies for measurement, analysis, control and detection of all the equipment that we find in a wastewater and drinking water treatment plant. We are the leader in overflow equipment in Canada



### Stand 510-7

PUROXI PURE WATER GLOBAL INC.

City: Victoria

Country: Canada

Web address: [www.puroxi.com](http://www.puroxi.com)

LinkedIn: [www.linkedin.com/in/zak-motala-a6547a33](http://www.linkedin.com/in/zak-motala-a6547a33)

X: [https://x.com/puroxi\\_watersol](https://x.com/puroxi_watersol)

Facebook: <https://www.facebook.com/puroxi1>

Instagram: [https://www.instagram.com/puroxi\\_watersolution/](https://www.instagram.com/puroxi_watersolution/)

Puroxi Pure Water Global Inc. provides effective, customized water treatment and purification solutions. We specialize in Ultrasonic Algae Treatment, Ultrasonic Descalers, Nano Bubble Technology, UV-C LED Air/ water disinfection, and aeration. Our industries of expertise include agriculture, livestock, well water, ponds and lagoons, industrial, municipal, wastewater and commercial operations.



### Stand 910

PWNT

City: Amsterdam

Country: The Netherlands

Web address: [www.pwnt.com](http://www.pwnt.com)

X: [x.com/pwnttechnologies](http://x.com/pwnttechnologies)

Facebook: [www.facebook.com/PWNTTechnologies](http://www.facebook.com/PWNTTechnologies)

PWNT, owned by Nijhuis Saur Industries, leverages 100 years of experience to develop innovative water treatment technologies. Our initiatives focus on suspended ion exchange, ceramic membranes, and advanced oxidation for various water sources. We offer efficient, sustainable solutions with lower costs and environmental impact, partnering with leading universities and companies.



### Stand 505

QINGDAO COMCORE TECHNOLOGIES CO.,LTD.

City: Shandong province—Qing Dao

Country: China

Web address: <https://www.techen.cn/>

LinkedIn: <https://www.linkedin.com/company/comcore-technology/?viewAsMember=true>

X: <https://x.com/ComcoreTech>

Facebook: <https://www.facebook.com/profile.php?id=100092996884510>

Comcore focuses on providing accurate and efficient smart water solutions for water supply enterprises. Through the research and development of ultrasonic metering and the in-depth application of AI technology, it realizes accurate identification and effective control of leakage, so that water supply management is more intelligent, green and low-carbon!



### Stand 710-5

QMC METERING SOLUTIONS

City: North York

Country: Canada

Web address: <https://qcmeters.com>

LinkedIn: <https://www.linkedin.com/company/qmc-metering-solutions>

QMC enables building portfolios, utilities and institutions to optimize their energy and water use by utilizing best-in-class submetering hardware, software, and communications. Improve building performance, utility conservation and achieve your sustainability goals in partnership with QMC.



### Stand 1010

RAETTS

City: New Jersey

Country: America

Web address: <https://www.raettsgroup.com>

LinkedIn: Official: <https://www.linkedin.com/company/14566355/admin/inbox/thread/2-N2Q3MW>

MzMDYtOWI1Zi00MjdiLTkwMmYtNjdKYTM1MmNlMmM2XzAxMA==/

X: [https://x.com/i/flow/login?redirect\\_after\\_login=%2FRAETTSOFFICIAL](https://x.com/i/flow/login?redirect_after_login=%2FRAETTSOFFICIAL)

Facebook: [https://www.facebook.com/profile.php?id=61557206497Room\\_717&name=xhp\\_nt\\_fb\\_action\\_\\_open\\_user&paipv=0&eav=Afb55z24pDswl9JpdLiitnwnglYXWU3tSQ1ASFz3rYhLi9\\_xAxCMXxQskU6ZlCqDTr0&\\_rdr](https://www.facebook.com/profile.php?id=61557206497Room_717&name=xhp_nt_fb_action__open_user&paipv=0&eav=Afb55z24pDswl9JpdLiitnwnglYXWU3tSQ1ASFz3rYhLi9_xAxCMXxQskU6ZlCqDTr0&_rdr)

RAETTS is a global manufacturing company specializing in energy-saving products like blowers and compressors. Their advanced technologies, including

air and magnetic levitation, deliver efficient and cost-effective solutions for various industries, especially in sewage treatment by changing your aeration blowers. RAETTS blower can help you gain 30% power consumption less and cut your maintenance cost into half.



### Stand 402

RAMBOLL - SPONSOR LOUNGE

Ramboll is a global engineering, architecture, and consultancy company with more than 18,000 experts that create sustainable solutions for governments and companies all over the world. We combine insights with the power to drive positive change to our clients, in the form of ideas that can be realised and implemented.



### Stand 740

RAPID ASSESSMENT TECHNOLOGY SERVICES (RATS) INC. - OPERATIONS CHALLENGE

City: Vaughan

Country: Canada

Web address: [www.ratsinc.ca](http://www.ratsinc.ca)

LinkedIn: <https://www.linkedin.com/company/ratsinc/>

RATS, Inc, provides a high-level sewer assessment service that allows municipalities and utilities to transition from high-cost, resource intensive, time-based maintenance to a condition-based program, saving time, money and resources while dramatically reducing the risk of SSO and basement flooding events.



### Stand: 740

REGIONAL MUNICIPALITY OF DURHAM - OPERATIONS CHALLENGE

City: Whitby

Country: Canada

Web address: <https://www.durham.ca/>

LinkedIn: @RegionofDurham

X: @RegionofDurham

Facebook: @RegionofDurham

Durham Region is one of Canada's fastest growing communities. It has eight unique area municipalities and is a community where talented, smart and ambitious people bring access to world markets, insights, invention and traditions. Durham offers a thriving agriculture sector, urban development and a diverse employment base.



### Stand 928

#### RLS WACON ANALYTICS GMBH

City: Hildesheim  
Country: Germany  
Web address: [www.rls-wacon.de](http://www.rls-wacon.de)  
LinkedIn: <https://www.linkedin.com/company/rls-wacon-gmbh/?viewAsMember=true>

Germany based company with in-house development and production of automatic water analysis devices, the associated chemicals and manual testing solutions. The focus is on monitoring process water. We are open to individual requests and offer our customers OEM production.



### Stand 1000

#### RSE (ROSS-SHIRE ENGINEERING)

City: Inverness  
Country: United Kingdom  
Web address: [www@ross-eng.com](http://www@ross-eng.com)  
LinkedIn: @Ross-shire Engineering  
Facebook: @RossshireEngineering  
Instagram: @rossshire\_engineering

RSE is a Trusted Water Technology Solutions company – Disrupting the water industry through Products and Solutions for purifying drinking water, recycling effluent and cleaning water in industrial processes. RSE's products and modular solutions reduce construction schedules, enhance quality, provide greater cost certainty and have a positive impact on the environment.



### Stand 1100

#### RSE (ROSS-SHIRE ENGINEERING)

City: Inverness  
Country: United Kingdom  
Web address: [www@ross-eng.com](http://www@ross-eng.com)  
LinkedIn: @Ross-shire Engineering  
Facebook: @RossshireEngineering  
Instagram: @rossshire\_engineering

RSE is a Trusted Water Technology Solutions company – Disrupting the water industry through Products and Solutions for purifying drinking water, recycling effluent and cleaning water in industrial processes. RSE's products and modular solutions reduce construction schedules, enhance quality, provide greater cost certainty and have a positive impact on the environment.



### Stand 1203

#### ROYAL SOCIETY OF CHEMISTRY

City: London  
Country: United Kingdom  
Web address: [www.rsc.org](http://www.rsc.org)  
LinkedIn: <https://www.linkedin.com/company/roysocchem>  
X: <https://X.com/RoySocChem>  
Facebook: <https://www.facebook.com/RoyalSocietyofChemistry>

The Royal Society of Chemistry publishes over 50 world-leading journals that span the core chemical sciences and related fields. Known for rigorous, fair peer review and fast publication times, our journals publish the best science, from original research articles to authoritative reviews.



### Stand 510-1

#### SCICORP INTERNATIONAL, CORP

City: Mississauga, Ontario  
Country: Canada  
Web address: <https://scicorp.net/>  
LinkedIn: <https://www.linkedin.com/in/scicorpinternational/>

SciCorp with its BIOLOGIC™ SR2 technology is revolutionizing the wastewater and solid waste industry with their transformative and innovative solutions that are reducing the carbon footprint and environmental impact on a global scale assisting plants to achieve net zero carbon emission objectives.



### Stand 1000

#### SCOTTISH GOVERNMENT

City: Edinburgh  
Country: Scotland  
Web address: [www.gov.scot](http://www.gov.scot)



### Stand 1000

#### SCOTTISH WATER

City: Scottish Water Registered Office is: Stepps, Glasgow  
Country: Scotland  
Web address: [www.scottishwater.co.uk](http://www.scottishwater.co.uk)  
LinkedIn: @scottish-water  
X: @scottish\_water  
Facebook: @scottishwater

Scottish Water - Trusted to care for the water on which Scotland depends. We deliver essential water and waste water services to over 2.6 million households and more than 160,000 business premises to support a flourishing Scotland. Publicly owned, we deliver excellent service to customers and communities, providing value for money and reducing our effect on the environment.



### Stand 510-12

#### SEBAKMT/MEGGER

City: Phoenixville Pennsylvania  
Country: United States  
Web address: [https://www.sebakmt.us/en\\_US/home-us.html](https://www.sebakmt.us/en_US/home-us.html)  
LinkedIn: <https://www.linkedin.com/company/Room71741262/>

SebaKMT has representatives in 130 countries worldwide, with excellently trained staff and the most modern technology. With that we have the most comprehensive service and consulting network in the industry. We have from A-Z in equipment from Monitoring flow and pressure to hand held devices.



### Stand 1000

#### SEVERN TRENT

Severn Trent is the UK's second biggest water company. It serves 4.8m homes and business in England and Wales. The company delivers almost two billion litres of water every day through 50,000km of pipes and a further 93,000km of sewer pipes take waste water away to more than 1,000 sewage treatment works.



### Stand 710-3

#### SGS NORTH AMERICA



### Stand 310

#### SHANGHAI BEIFU INVERTER TECHNOLOGY CO., LTD.

City: Shanghai  
Country: China  
Web address: <http://shbfbp.com/>  
LinkedIn: <http://shbfbp.com/>  
X: inverter, soft start, controller, protector  
Facebook: <http://shbfbp.com/>

Located in Jiading District, shanghai, Haibei fuer is mainly engaged in the research and production of various types of automatic control systems and equipment, such as frequency converters, soft starters, large project control cabinets, etc,



### Stand 610-14

#### SHARC ENERGY

City: Port Coquitlam  
Country: Canada  
Web address: [www.sharcenergy.com](http://www.sharcenergy.com)  
LinkedIn: [www.linkedin.com/company/sharcenergy](http://www.linkedin.com/company/sharcenergy)  
X: @SHARCEnergy  
Facebook: [www.facebook.com/SHARCEnergySystems/](http://www.facebook.com/SHARCEnergySystems/)

SHARC Energy is a world leader in energy recovery from the wastewater we send down the drain every day. SHARC Energy's systems recycle thermal energy from wastewater, generating one of the most energy efficient and economical systems for heating, cooling & hot water production for commercial, residential and industrial buildings.



### Stand 103

#### SKYJUICE FOUNDATION INC.

City: Sydney  
Country: Australia  
Web address: [www.skyjuice.org.au](http://www.skyjuice.org.au)  
LinkedIn: @Skyjuice Foundation Inc  
X: @SkyJuiceInc  
Facebook: @skyjuicefoundation

SkyJuice manufactures and supplies patented passive membrane filtration systems for safe drinking water. SkyHydrant ultrafiltration units are used globally for small communities, NGO's and emergency water response. SkyHydrant systems are sustainable and use no chemical or electricity for water production in over 74 countries.



### Stand 510-9

#### SKYTEM CANADA INC.

City: Toronto, ON  
Country: Canada  
Web address: [www.skytem.com](http://www.skytem.com)  
LinkedIn: <https://www.linkedin.com/company/skytem>  
X: <https://X.com/SkyTEMsurveys>  
Facebook: <https://www.facebook.com/SkyTEMsurveys>

SkyTEM is a leading airborne geophysical survey company offering the acquisition and advanced processing of transient electromagnetic (TEM) and magnetic data for characterization of aquifers around the world, recently participating in statewide programs across the USA including critical surveys in California, Nebraska, Delaware, Illinois as well as many others.



**Stand 1000**  
SOUTH WEST WATER

South West Water supplies drinking water and treats wastewater for around 1.8 million customers in the South West of England across Devon, Cornwall, Somerset and the Isles of Scilly. As a water company it sits alongside Bristol Water, Bournemouth Water and Sutton East Surrey Water under the umbrella group Pennon.



**Stand 740**  
SPD SALES LIMITED - OPERATIONS CHALLENGE



**Stand 300**  
STATE OF GREEN



**Stand 402**  
STANTEC - SPONSOR LOUNGE



**Stand 710-8**  
STELIS ENVIRONMENTAL SOLUTIONS



**Stand 300**  
SulfiLogger A/S  
City: Aarhus  
Country: Denmark  
Web address: [www.sulfilogger.com](http://www.sulfilogger.com)  
LinkedIn: [www.linkedin.com/company/12662317/](http://www.linkedin.com/company/12662317/)  
X: [www.x.com/sulfilogger](http://www.x.com/sulfilogger)

SulfiLogger™ is an innovative Danish company that produces H2S sensors for continuous, liquid-phase H2S measurements in sewers and wastewater treatment plants



**Stand 740**  
SWEL - OPERATIONS CHALLENGE  
City: Toronto  
Country: Canada  
Web address:  
LinkedIn: SWEL (Sahely Water Engineering Ltd.)

SWEL offers services of Class EAs support, preliminary and detailed design, Contractor engagement, contract administration, commissioning, Facility Manual preparation, training, process studies and optimization, RFP support, value engineering, courtesy ("peer") reviews and project management. SWEL is a certified minority business enterprise under the Canadian Aboriginal and Minority Supplier Council (CAMSC).



**Stand 610-1**  
Symbiant



**Stand 740**  
Syntec Process Equipment – Operations Challenge  
City: Bolton, Ontario  
Country: Canada  
Web address: [www.syntecpe.com](http://www.syntecpe.com)  
LinkedIn: <https://ca.linkedin.com/company/syntec-process-equipment-ltd->

Founded in 1993, Syntec is one of Ontario's fastest growing manufacturers' representatives in both the municipal and industrial sectors. The combined expertise of Syntec and our manufacturing partners enables our team of professionals to provide solutions in all aspects of valving controls and Instruments.



**Stand 710-7**  
TCI CARBON FIBRE TECHNOLOGIES  
City: Mississauga  
Country: Canada  
Web address: [www.tccarbonfibre.com](http://www.tccarbonfibre.com)

At TCI Carbon Fibre Technologies, we have pioneered a ground-breaking range of Carbon Fibre Reinforced Polymer (CFRP) products, Thermoset Epoxy Products and techniques that have revolutionized the construction, repair, and rehabilitation of vital infrastructures that supports our communities. With unparalleled expertise and industry knowledge, TCI has established design and detail standards poised to reshape the entire industry.



**Stand 300**  
TEMcompany  
City: Aarhus C.  
Country: Denmark  
Web address: [www.temcompany.com](http://www.temcompany.com)  
LinkedIn: [linkedin.com/company/temcompany](http://linkedin.com/company/temcompany)

TEMcompany develops, produces and sells geoscanners for imagining of groundwater resources and managed aquifer recharge. We aim to make instruments easy-to-use and to cover depths from the surface to hundreds of meters. The growing TEMcompany range of instruments makes surveying for groundwater affordable and available to everybody.



**Stand 820**  
TERRA15 TECHNOLOGIES PTY LTD  
City: Perth  
Country: Australia  
Web address: <https://terra15.com.au/>  
LinkedIn: <https://www.linkedin.com/company/terra15/>  
Featured by Isle at: W-Lab Webinar

Terra15 specialises in Distributed Acoustic Sensing (DAS) using fiber optics, providing solutions for pipeline monitoring and leak detection for utilities and industrial applications. The solution uses standard fibre optic cables that run in parallel and within metres of the pipeline, including cable that may already exist (e.g. for telecommunications) for 24/7, live, continuous monitoring at all locations along a pipeline, locating leaks and detecting other risk factors such as tampering, hydrant usage, construction activity and pressure transients.



**Stand 730**  
TOKYO METROPOLITAN SEWERAGE SERVICE CORPORATION  
City: Tokyo  
Country: Japan  
Web address: <https://www.tgs-sw.co.jp/>

Tokyo Metropolitan Sewerage Service Corporation performs a wide range of sewerage services as a policy collaboration organization of the Bureau of Sewerage, Tokyo Metropolitan Government. In addition, this corporation is not limited in Tokyo, but is also expanding its technologies internationally and participating in overseas projects.



**Stand 730**  
TOKYO WATER CO.,LTD.  
City: Tokyo  
Country: Japan  
Web address: <https://www.tokyowater.co.jp/en/>

Tokyo Water Co.,Ltd., a largest comprehensive provider of water supply services in Japan, has carried out projects utilizing Non-Revenue Water reduction technology around the world (Africa, Middle East, South East Asia etc.). TS Leak Checker is designed to detect the leakage in 2 seconds to boost the efficiency.



**Stand: 730**  
TOKYO PAVILION



**Stand 708-6P**  
THE WATER TOWER GLOBAL INNOVATION CENTER



### Stand 915

Toray Membrane USA, Inc.  
City: Poway, CA  
Country: USA  
Web address: [www.water.toray](http://www.water.toray)  
LinkedIn: <https://www.linkedin.com/company/toray-membrane-usa-inc/>

Toray Membrane USA, Inc. manufactures membrane elements for various membrane technologies (RO, NF, UF, MF, MBR). Toray offers membrane configurations in spiral-wound, hollow-fiber, and flat sheet or plate and frame membrane bioreactor units used in many industries, namely water, wastewater, pharma, dairy, and food and beverage processing.



### Stand 610-7P

Toronto Metropolitan University  
City: Toronto, Ontario  
Country: Canada  
Web address: <https://www.torontomu.ca/>  
LinkedIn: <https://www.linkedin.com/school/torontometropolitanuniversity/>  
X: <https://x.com/torontomet>  
Facebook: <https://www.facebook.com/torontomet>

Toronto Metropolitan University is at the intersection of mind and action. What our students learn in the classroom is enhanced by real-world knowledge and experience. We champion diversity, entrepreneurship and innovation.



### Stand 610-1

**TRADEWORKS**  
Stand 608  
Trojan Technologies  
Company/organization name: Trojan Technologies  
City: London, ON  
Country: Canada  
Web address: [www.trojantechnologies.com](http://www.trojantechnologies.com)  
LinkedIn: Trojan Technologies

Trojan Technologies ensures greater water confidence and environmental stewardship for people, industries and municipalities, improving the lives of over one billion people globally. The products and services provided by Trojan play vital roles in making various stages of the water treatment process more effective, efficient and sustainable.



### Stand 1000

**UK PAVILION**  
City: UK  
Country: UK  
Web address: <https://theukpavilion.co.uk/>

The UK Pavilion represents the best of the UK water industry from utilities to suppliers, academia to associations. Here, we will exhibit and showcase world class practices and innovations, ahead of welcoming you to the IWA World Water Congress in Glasgow in 2026.



### Stand 300

The Microsensor Company: Unisense offers microsensors for studying sediments, biofilm, mats, and many more biological matrices. We provide full systems for lab, field and underwater. Measure oxygen, pH, hydrogen sulfide, nitrous oxide, hydrogen, redox and more on a micrometer scale. Visit us to learn more about our systems and products.



### Stand 300

**UNISENSE ENVIRONMENT**  
Wastewater's biggest CO2 problem is N2O. Unisense Environment manufactures the world's only liquid-phase sensor for measurement of nitrous oxide emissions. You can apply the sensor data to optimize your wastewater treatment process, reduce greenhouse gas emissions, and for reliable input to your sustainability accounting. Measure to kn2Ow



### Stand 1000

**UNITED UTILITIES**  
We provide water and wastewater services to more than seven million people and businesses in the North West of England. We care about delivering great customer service, protecting and enhancing the environment, contributing to our communities, and investing in the region to support future growth and address climate change.



### Stand 610-7P

**UNIVERSITY OF BRITISH COLUMBIA**  
City: Vancouver, British Columbia  
Country: Canada  
Web address: <https://www.ubc.ca/>  
LinkedIn: <https://www.linkedin.com/school/universityofbc/>  
X: <https://x.com/ubc>  
Facebook: <https://www.facebook.com/universityofbc?fref=ts>

The University of British Columbia is a global centre for teaching, learning and research, consistently ranked among the top public universities in the world. UBC embraces innovation and transforms ideas into action. Since 1915, UBC has been opening doors of opportunity for people with the curiosity, drive and vision to shape a better world.



### Stand 610-7P

**UNIVERSITÉ LAVAL**  
City: Quebec, Quebec  
Country: Canada  
Web address: <https://www.ulaval.ca/en>  
LinkedIn: <https://www.linkedin.com/school/universite-laval/>  
X: <https://x.com/universitelaval>  
Facebook: <https://www.facebook.com/ulaval.ca/>  
New ideas and excellence are the core values of Université Laval, which over the years has educated and graduated over 342,000 individuals, each of whom in their own way has contributed to the progress of their community and of society as a whole.



### Stand 610-7P

**UNIVERSITY OF CALGARY**  
City: Calgary, Alberta  
Country: Canada  
Web address: <https://www.ucalgary.ca/>  
LinkedIn: <https://www.linkedin.com/school/ucalgary/>  
X: <https://x.com/ucalgary>  
Facebook: <https://www.facebook.com/universityofcalgary>

A community of pioneers and discoverers - We've been ranked amongst the world's top universities and we've done it by pushing our limits, challenging ourselves to do better, and seeking knowledge – wherever that journey takes us. We're never afraid to question conventional wisdom, and we share what we find openly and eagerly. It's an approach that's led to exponential growth since we were founded in 1966.



### Stand 610-7P

**UNIVERSITY OF CALGARY - ACWA**  
City: Calgary, Alberta  
Country: Canada  
Web address: <https://research.ucalgary.ca/acwa/acwa>  
LinkedIn: <https://www.linkedin.com/school/ucalgary/>  
X: <https://x.com/ucalgary>  
Facebook: <https://www.facebook.com/universityofcalgary>

ACWA is a partnership between The City of Calgary and the University of Calgary that supports research and development, knowledge transfer, de-risking and piloting of leading-edge water, stormwater and wastewater treatment technologies. ACWA's mandate is to facilitate the transformation of today's water and wastewater research into tomorrow's innovative technologies to recover resources, improve process efficiencies and protect receiving environments to benefit local and global communities. ACWA is an initiative of the Urban Alliance, a strategic partnership between The City of Calgary and the University of Calgary.



### Stand 610-7P

**UNIVERSITY OF NEW BRUNSWICK**  
City: Fredericton, New Brunswick  
Country: Canada  
Web address: <https://www.unb.ca/>  
LinkedIn: <https://www.linkedin.com/school/university-of-new-brunswick/?originalSubdomain=ca>  
X: <https://x.com/UNB>  
Facebook: <https://www.facebook.com/uofnb>

The University of New Brunswick (UNB) is Canada's oldest English-language university and one of the first public universities established in North America. Founded in 1785, the multi-campus institution is home to over 60 research centres and institutes, groups and ongoing projects. As the largest research institution in New Brunswick, UNB conducts more than 70 per cent of the province's university research.



### Stand 610-7P

#### UNIVERSITY OF VICTORIA

City: Victoria, British Columbia  
 Country: Canada  
 Web address: <https://www.uvic.ca/>  
 LinkedIn: <https://www.linkedin.com/school/university-of-victoria/>  
 X: <https://x.com/uvic>  
 Facebook: <https://www.facebook.com/universityofvictoria>

As a top-ranked university on Canada's West Coast, we're driven by our curiosity, engagement and innovative spirit to help solve the world's biggest problems. We're guided by our principles, our extraordinary natural and cultural environment and our deep respect for learning that has come before.



### Stand 610-7P

#### UNIVERSITY OF WATERLOO – THE WATER INSTITUTE

City: Waterloo, Ontario  
 Country: Canada  
 Web address: <https://uwaterloo.ca/>  
 LinkedIn: <https://www.linkedin.com/school/uwaterloo/>  
 X: <https://x.com/uWaterloo>  
 Facebook: <https://www.facebook.com/university.waterloo>

University of Waterloo is a leader in innovation that drives economic and social prosperity for Canada and the world. We are home to a renowned talent pipeline, game-changing research and technology, and unmatched entrepreneurial culture, that together create solutions to tackle today's and tomorrow's challenges. Our greatest impact happens together. A strategic integration of research and teaching excellence, the world's largest co-operative education program, entrepreneurship-intensive programs, and creator-owned IP, has resulted in extensive industry collaboration, the generation of thousands of commercial and social enterprises, and a dynamic learning experience for more than 41,000 undergraduate and graduate students.



### Stand 708

#### USA PAVILION

The U.S. Pavilion is your gateway to cutting-edge innovations and industry leadership in the water sector. As the premier showcase of American expertise and ingenuity, the U.S. Pavilion brings together a dynamic array of exhibitors, representing the forefront of technology, sustainability, and solutions-driven approaches to water challenges. From groundbreaking innovations to proven best practices, the Pavilion offers a comprehensive platform for networking, collaboration, and knowledge exchange. Explore the latest advancements in water treatment, management, and conservation, and engage with industry leaders shaping the future of water worldwide. Join us at the U.S. Pavilion and discover the limitless possibilities for advancing water resilience and sustainability.



### Stand 734

#### UV SOLUTIONS MAGAZINE

City: Chevy Chase, MD  
 Country: USA  
 Web address: [www.uvsolutionsmag.com](http://www.uvsolutionsmag.com)  
<https://www.linkedin.com/company/uv-solutions-mag>

UV Solutions brings targeted content through print, digital and mobile distribution for individuals involved with UV disinfection and purification applications. UV Solutions is the official publication of the International Ultraviolet Association (IUVA).



### Stand 610-1

#### UVPURE



### Stand 740

#### VAUGHAN COMPANY, INC – OPERATIONS CHALLENGE

City: Montesano, WA  
 Country: USA  
 Web address: <https://chopperpumps.com/>  
 LinkedIn: <https://www.linkedin.com/company/vaughan-company-inc-/>  
 X: [@companyvaughan](https://twitter.com/companyvaughan)  
 Facebook: <https://www.facebook.com/vaughancompany>

Established in 1960, Vaughan Company is the industry leader in reliable chopper pumps and mechanical hydraulic mixing systems. With more than 63 years of experience, Vaughan Company remains committed to giving their customers outstanding service and the most dependable product solutions in the world.



### Stand 305

#### VEOLIA

City: Boston  
 Country: United States  
 Web address: <https://www.veolianorthamerica.com/>  
 LinkedIn: <https://www.linkedin.com/company/veolia-environnement/>  
 X: [@Veolia\\_NA](https://twitter.com/Veolia_NA)  
 Facebook: <https://www.facebook.com/veolianorthamerica/>

For more than 170 years, Veolia has been by the side of cities, industries and communities to help them manage, recycle and protect their critical resources in the face of environmental challenges. A global leader in optimized resource management, we provide water, waste and energy solutions, promoting a circular economy.



### Stand 710-16

#### VERIFIGLOBAL/CSA GROUP

City: Copenhagen / Toronto  
 Country: Denmark / Canada  
 Web address: <https://www.verifiglobal.com/en>

VerifiGlobal provides quality-assured technology performance testing and verification through competent third-party organizations. VerifiGlobal recognizes that credible technology performance information supports decisions made by public and private sector organizations to reduce investment risk and enhance the potential for sustainable solutions. The VerifiGlobal Secretariat is located in Copenhagen.



### Stand 910

#### VEWIN



#### VISIT BRITAIN

### Stand 1000

#### VISIT BRITAIN



### Stand 820

#### VORTECH WATER SOLUTIONS

City: Galway  
 Country: Ireland  
 Web address: <https://vortechws.com/vortex-powered-aeration/>  
 LinkedIn: <https://www.linkedin.com/company/vortech-water-solutions>

Featured by Isle at: W-Lab Net Zero Showcase and EU Wastewater Technology Approval Group  
 Company description/products and services: The Vortex Power Aerator (VPA) provides high-efficiency oxygen transfer and mixing for aeration applications in wastewater treatment without the need for a complex, costly retrofit



### Stand 1000

#### VYNTELLIGENCE



### 708-4P

#### WASHINGTON UNIVERSITY IN ST. LOUIS



### Stand 740

WASTECORP PUMPS - OPERATIONS CHALLENGE



### Stand 910

WATER ALLIANCE

City: Leeuwarden  
Country: the Netherlands  
Web address: [www.wateralliance.nl](http://www.wateralliance.nl)  
X: <https://x.com/waterallianceNL>

The Water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in water technology in the Netherlands. The Water Alliance focuses on innovative and sustainable water technology that can be used worldwide. It brings together a complete chain of innovation for water technology, from first idea, research & development, specialized laboratories, a water application centre, various demosites, launching customers to international applications with commercial companies. Indeed from knowledge to business.



### Stand 634

WATER CANADA



### Stand 825

WATER PROJECT



### Stand 300

WATER VALLEY DENMARK



### Stand 910

WATER4ALL

Water4All brings together a wide and cohesive group of 90 partners from 33 countries in the European Union and beyond. This partnership is committed to ensuring the provision of water for all. It will boost systemic transformations and changes across the entire water R&I pipeline, fostering the matchmaking between problem owners and solution providers for ensuring water security for all in the long term.



### Stand 310

WATERTECH, SHANGHAI HERUI EXHIBITION SERVICE (GROUP) CO., LTD.

City: Shanghai  
Country: China  
Web address: <https://www.watertechsh.com/>  
LinkedIn: WATERTECH CHINA  
Facebook: Watertech China

WATERTECH CHINA 2025, Asia's premier trade show for water treatment, environmental protection, and energy-saving solutions, will be held from June 3-5 at NECC, Shanghai. With 2,571 exhibitors and 102,689 visitors in 2024, the 2025 event promises to be an unparalleled opportunity for those looking to enter or expand in the Chinese market.



### Stand 740

WATER ENVIRONMENT ASSOCIATION OF ONTARIO (WEAO) - OPERATIONS CHALLENGE

City: Mississauga  
Country: Canada  
Web address: [weao@weao.org](mailto:weao@weao.org)

Water Environment Association of Ontario (WEAO) is a diverse group of technical and professional individuals working to ensure the future of our water and environment industries. As Ontario's water sector leader, we connect members, the industry, and the public through education, training and networking to collectively ensure a resilient water environment.



### Stand 631

WATER ENVIRONMENT FEDERATION (WEF)

City: Alexandria, Virginia  
Country: United States of America  
Web address: [www.wef.org](http://www.wef.org)  
LinkedIn: <https://www.linkedin.com/company/water-environment-federation/>  
X: <https://x.com/WEForG>  
Facebook: <https://www.facebook.com/WaterEnvironmentFederation>

The Water Environment Federation (WEF) is a not-for-profit technical and educational organization of more than 30,000 individual members and 75 affiliated Member Associations (MAs) representing water quality professionals around the world. WEF is the host of WEFTEC, the largest annual water quality exhibition in the world.



### Stand 740

WEF - OPERATIONS CHALLENGE



### Stand 1000

WESSEX WATER

City: BATH  
Country: ENGLAND  
Web address: [wessexwater.co.uk](http://wessexwater.co.uk)  
LinkedIn: <https://www.linkedin.com/company/wessexwater>  
X: @wessexwater  
Facebook: [www.facebook.com/wessexwater](http://www.facebook.com/wessexwater)

Wessex water is one of the leading water and sewerage companies in England and Wales. We play a critical role that goes beyond providing an essential public service. We aim to help tackle the climate emergency, support the communities we serve and contribute to the growth of the UK economy.



### Stand 610-1

WELLMASTER



### Stand 310

WIETEC



### Stand Room 703-3

WPI - WATER PROFESSIONALS INTERNATIONAL



### Stand 1000

WRC- WATER RESEARCH CENTRE

City: Swindon  
Country: United Kingdom  
Web address: [www.wrcgroup.com](http://www.wrcgroup.com)  
LinkedIn: WRC Group  
X: @WRCGroup (<https://x.com/WRCGroup>)  
Facebook: WRC Group (<https://www.facebook.com/WaterResearchCentreWRCGroup>)

Water Research Centre (WRC) is a trusted provider of consultancy, technical services, accreditation schemes, research, innovation and training to customers in the water, waste and environment sectors around the globe. Our priority is creating a better tomorrow through helping to solve problems with technical expertise and innovative sustainable solutions.



### Stand 708

#### WWEMA - WATER AND WASTEWATER EQUIPMENT MANUFACTURERS ASSOCIATION

City: Leesburg, VA  
 Country: USA  
 Web address: [www.wwema.org](http://www.wwema.org)  
 LinkedIn: <https://www.linkedin.com/company/3886825/admin/dashboard/>  
 X (X): <https://x.com/WWEMAtweets>  
 Facebook: <https://www.facebook.com/people/Water-Wastewater-Equipment-Manufacturers-Association/100078863522296/>

The Water and Wastewater Equipment Manufacturers Association (WWEMA) is a Washington DC-based non-profit trade association representing water and wastewater technology and service providers since 1908. We advocate, inform, and connect our members with key policy and decision-makers and help our members increase their competitiveness and profitability in the U.S. and abroad.



### Stand 800

#### XYLEM

Web address: [www.xylem.com](http://www.xylem.com)

Xylem (XYL) is a leading global water technology company committed to solving the world's critical water, wastewater, and water-related challenges with innovation and expertise. Our 23,000 diverse employees delivered combined pro forma revenue of \$8.1 billion in 2023. We are creating a more sustainable world by enabling our customers to optimize water and resource management and helping communities in more than 150 countries become water-secure. Join us at [www.xylem.com](http://www.xylem.com) and Let's Solve Water.



### Stand 740

#### YORK REGION - OPERATIONS CHALLENGE

Stand 610-7P  
 York University  
 City: Toronto, Ontario  
 Country: Canada  
 Web address: <https://www.yorku.ca/>  
 LinkedIn: <https://www.linkedin.com/school/york-university/>  
 X: <https://x.com/yorkuniversity>  
 Facebook: <https://www.facebook.com/yorkuniversity/>

York is a top international teaching and research university and a driving force for positive change. Located in Toronto, Canada, York is empowered by a welcoming and diverse community with a uniquely global perspective, we are preparing our students for their long-term career and personal success. Together we are making things right for our communities, our planet, and our future.



### Stand 1000

#### YORKSHIRE WATER SERVICES LTD

City: Bradford  
 Country: UK  
 Web address: [www.yorkshirewater.com](http://www.yorkshirewater.com)  
 LinkedIn: Yorkshire Water | LinkedIn  
 X: @yorkshirewater  
 Facebook: [facebook.com/yorkshirewater](https://facebook.com/yorkshirewater)

Yorkshire Water is a UK water and waste company, providing 5.7m customers with essential water

services. With a focus on sustainability and community, they manage 72,000 acres and operate 671 treatment works, ensuring the region's water needs are met responsibly. Their strategy is for a thriving Yorkshire – Right for customers and right for the environment.



### Stand 710-10

#### ZERO ENERGY WATER

City: Toronto  
 Country: Canada  
 Web address: [www.zeroenergywater.com](http://www.zeroenergywater.com)  
 Facebook: N/A

We are a graphene R&D company who have created a molecular sieve for H2O molecules that has 99.9% rejection and over 10 times the flux of any polyamide-based Sea Water Reverse Osmosis membrane when operating at 800 psi.