

World Water Congress & Exhibition 2018



Shaping our Water Future

Congress Programme & Exhibition Catalogue

16 - 21 SEPTEMBER, 2018
TOKYO, JAPAN
www.worldwatercongress.org

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In 1931, we made history with the first installation of domestically produced pressure rapid filtration equipment for municipal water systems in Japan. Since then, we have been supporting people's lives and the environment as a pioneer in the design, construction, maintenance and operation of infrastructure facilities for water and the environment.

We are contributing to the society through water, the source of all life. Our company name "Swing" is a creative combination of sui(水 or water) and ing. Building a better future with various solutions for sustainable water and the environment... this is our steady goal and mission.

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**SUSTAINABLE
DEVELOPMENT GOALS**
17 GOALS TO TRANSFORM OUR WORLD



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Welcome to Tokyo



It is our great pleasure to welcome you with “OMOTENASHI”, a Japan-style distinctive hospitality, to the IWA World Water Congress & Exhibition taking place in Tokyo, from September 16-21, 2018.

We realise that there are several important water challenges such as achieving Sustainable Development Goals (SDGs) and the implementation of water-wise city principles. For this purpose, we need to deepen our scientific knowledge and develop new innovative technology for a sustainable and resilient water society considering global warming prevention and a secured, sound, water cycle.

Japan has proactively and continuously shared its experiences and know-how in the water sector with other countries. We will do our best to provide a wonderful opportunity for looking at the real challenges of mega-cities, a showcasing innovative water technology, and offering business opportunities for strengthening our partnerships and expanding network of water professionals.

We experienced the Great East Japan Earthquake and Tsunami in 2011. We plan to organize the Forum on Disaster Counter-measures and Risk Management based on our lessons and experiences in the water sector. The forum will provide cues for developing better disaster management to reduce similar risks with best practice all over the world.

Tokyo represents a vital crossroads where over 400 years of history and tradition meet innovation. The Congress and Exhibition takes place at the Tokyo International Exhibition Centre, which is located on the expansive Daiba waterfront near the central Tokyo area. We sincerely look forward to seeing many attendants from across the world.

The IWA, and the World Water Congress, are ready to address the water challenges we collectively face. We come together in Tokyo, Japan, to innovate and shape a better water future for all. We hope that you will enjoy and benefit from joining us on this journey.

Professor Hiroaki Furumai
Chair of Host Country Committee



Welcome to Tokyo!
We are very excited to welcome the IWA World Water Congress & Exhibition at last.

It is truly a pleasure and an honour to welcome so many people from all over the world to our city, Tokyo, and have the IWA World Water Congress & Exhibition, one of the world's largest international conferences, held here.

Currently, the world faces a range of water problems, including more frequent natural disasters brought on by climate change and water shortages, and water quality deterioration due to rapid urbanization.

I hope that the active discussions and exchange of opinions at this conference will facilitate the sharing of the latest knowledge and technologies, and that the outcomes of these discussions will greatly contribute to resolving the world's water problems. Tokyo, as the host city, will also proactively promote the technologies and know-how it has cultivated to date.

This year, Tokyo celebrates the 150th anniversary of the city being renamed from Edo to Tokyo. Over the span of the last 150 years, Tokyo has overcome many difficulties and achieved amazing growth in a variety of areas such as the economy, culture, and public safety.

Tokyo is a leading global city with a well-developed social infrastructure, including its waterworks and sewerage systems and transportation network, a high concentration of the functions of the nation's capital, and a population of over 13 million.

It is also a city that boasts traditions passed down through generations, including washoku, or Japanese cuisine, which has even been placed on UNESCO's Intangible Cultural Heritage list; arts and culture, including traditional crafts and fireworks; historic buildings such as shrines and temples; and Japanese gardens.

I hope that all of the conference participants will take this opportunity to really experience Tokyo—a city with endless appeal, where tradition and innovation coexist side by side.

With the Rugby World Cup 2019 and the Olympic and Paralympic Games Tokyo 2020 just ahead, please enjoy our city as it continues to further evolve.

Finally, please accept my best wishes for a productive conference and an enjoyable stay in Tokyo.

Yuriko Koike
Governor of Tokyo

Welcome to the IWA World Water Congress and Exhibition 2018



For many of us, the IWA World Water Congress is one of the highlights not to miss every two years. Meeting colleagues, friends, and peers, gathering with the leading experts in the field is the opportunity we all use to leverage solutions for one of the biggest challenges we face in our world: water.

Today, billions of people lack safe water and wastewater services. Pollution continues to heavily affect ecosystems and water sources, and funding for provision of safe water services is inadequate. In addition, governance and delivery systems are weak and fragmented. But not only are water and sanitation a human right, these services are also at core of the environment, the economic development, and our societies.

In a world that faces increasing water stress and is impacted by global change, by population growth, by climate change, and by pollution, it is of the highest importance to allocate water and wastewater services under the premises of the ever-increasing demands to our diverse uses and needs. All these demands, all these responsibilities, present an all-time challenge for the water sector. We must work together to manage our water wisely, today and tomorrow.

This year, several reports have raised international awareness and activated existing and new political processes. In January, the World Economic Forum Global Risks Report 2018 assessed the likelihood and impact of 30 global risks over a 10-year horizon, and identified water as one of the key risks, a risk of high likelihood and high impact almost everywhere in the world. And two months ago, the High Level Political Forum (HLPF), the United Nations' central platform for follow-up and review of the 2030 Agenda for Sustainable Development focused its review and monitoring on the dedicated water goal, the SDG6. Having water at the heart of sustainable development is critical for all social and economic development, and the environment. Here, the outcome of this HLPF review is that the world is not on track to reach the Water and Sanitation Goal by 2030.

The IWA membership delivers solutions for the complex water problems we are facing and will be confronted with. Spread across countries and disciplines, IWA members represent the diverse and transdisciplinary force that is required to tackle this monumental task. It requires leading-edge scientific research and technological developments to be combined with the best water management practices. As a sector we must embrace groundbreaking technologies and innovation, and pioneering science. With a focus on integrated water management, we bridge the gaps between sectors and raise awareness at decision making and political levels to encourage fast adoption of solutions and changing mindsets.

Ours is an industry of people and, as an industry, we face the twin challenges of ensuring human resources available to deliver the massive growth in water and wastewater services to meet the SDGs; and that water professionals around the world have the right skills and knowledge to manage the sector of the future. It is a critical priority for us to invest in driving more professionals to enter the water and related sectors, and to provide accessible and affordable professional development opportunities for them.

The IWA World Water Congress and Exhibition 2018 will bring together over 6,000 of the world's leading water professionals. It is a unique opportunity for connecting and networking with water sector leaders, and to share knowledge on the latest trends.

Tokyo, our host city, is one of the world's great metropolitan areas, and offers many insights for successful water management. I wish you a fruitful and enjoyable week at the 2018 IWA Congress and Exhibition and I look forward to meeting you all in Japan's capital.

Diane d'Arras

President, International Water Association



Hitachi's Vision for the Future of Water

HITACHI
Inspire the Next

Water has a decisive influence on your life.
To achieve a society that sustains water,
Hitachi aims to achieve a smart future and SDGs.

What makes the world sustainable?

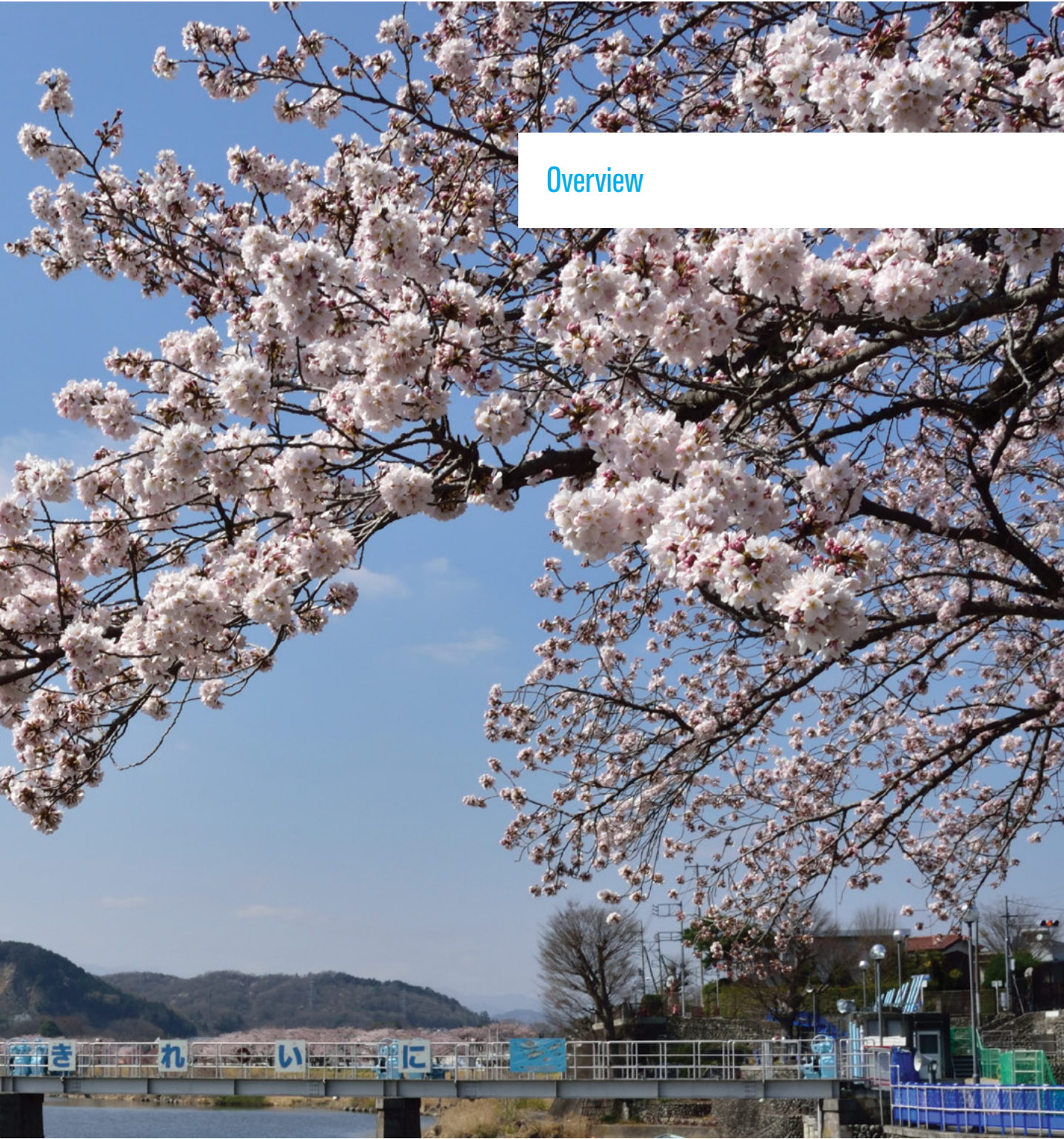


Values to provide

Water quality that meets needs: Safe
Anyone, anywhere, and any time: Secure
Higher efficiency, optimization, and strengthening: Stable

Hitachi's strength

Operational Technology (OT) with IT and products that support water infrastructure.
Lumada, the IoT platform that connects them.
The formation of a circulating society.



Overview

Track 1
WATER UTILITY
MANAGEMENT

Track 2
WASTEWATER

Track 3
DRINKING WATER AND
POTABLE REUSE

Track 4
URBAN WATER
SYSTEMS

Track 5
COMMUNITIES,
INTEGRATED
PLANNING AND
THE ENABLING
ENVIRONMENT

Track 6
LARGE SCALE WATER
MANAGEMENT



Thematic Tracks

Shaping the future of water management

Track 1

Water Utility Management

The management of water utilities is a key part of the fabric of our cities and countries. Effective collaboration with their many stakeholders at different scales is an important feature of innovative and engaged utilities. How can water utilities optimise operation and management to be efficient in their use of human and physical resources, as well as being innovative and adaptive to short and long-term changes and future challenges?

Track 2

Wastewater

Wastewater management and resource-recovery face many challenges and opportunities. This includes municipal and industrial wastewater management, non-potable reuse, recovery of energy, nutrients and chemicals. What is the role of various wastewater treatment technologies, from individual-scale to large WWTPs, in delivering the sustainable, circular water management of the future?

Track 3

Drinking Water & Potable Reuse

The growth of emerging contaminants, such as nanoparticles, pharmaceuticals and antibiotic resistance, threatens the global goal of safe and high quality drinking water. Potential disasters such as bacterial outbreaks, storm impacts and security events, as well as concerns around the distribution systems (disinfection by-products, lead and opportunistic pathogens), require that innovations move from science and engineering research into practice. How do we make potable water reuse part of the solution as more cities move to planned reuse to meet the growing community demands and provide water security for megacities?

Track 4

Urban Water Systems

Solutions for optimizing water and wastewater systems at the urban scale include strategic planning, operation, design and maintenance of drinking water, wastewater services and drainage infrastructure in urban environments. How can urban water systems deliver resilient, productive and sustainable solutions to achieve water-wise and liveable cities and provide water security for megacities?

Track 5

Communities, Integrated Planning & the Enabling Environment

Achieving water-wise cities of the future requires the involvement of many key stakeholders and professionals with different backgrounds. This track will explore how local (city) governments, utilities, planners, professional groups, the community, and private-sector partners can best work together to maximize their effectiveness and achieve better overall outcomes for their cities?

Track 6

Large-Scale Water Management

For cities and utilities to be able to deliver long-term sustainable, resilient and affordable services for future generations, it is important they are able to plan and manage the interrelationships and interdependences across catchments, basins and also within national and international contexts. How can water management at basin scale ensure the sustainability of services which cities and utilities rely upon from the wider natural system?

Plan Your Week

Track 1 WATER UTILITY MANAGEMENT	Track 2 WASTEWATER	Track 3 DRINKING WATER AND POTABLE REUSE	Track 4 URBAN WATER SYSTEMS	Track 5 COMMUNITIES, INTEGRATED PLANNING AND THE ENABLING ENVIRONMENT	Track 6 LARGE SCALE WATER MANAGEMENT
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Sunday 16 September	Monday 17 September	Tuesday 18 September	Wednesday 19 September	Thursday 20 September
WORKSHOP 13:00 - 14:30 High Quality Water Supply and Sewerage Systems in Japan - Innovative Technologies and Collaborative Practices	KEYNOTE PLENARY 09:00 - 09:45			
	BREAK 09:45 - 10:30			
	SESSION 1 10:30 - 12:00			
HOW TO MAKE THE MOST OF THE CONGRESS 14:30 - 16:00	LUNCH 12:00 - 13:30			
	SESSION 2 13:30 - 15:00			
OPENING CEREMONY 16:00 - 18:00	BREAK 15:00 - 15:45			
TOASTING CEREMONY 18:00 - 18:15	SESSION 3 15:45 - 17:15			CLOSING CEREMONY 15:15 - 16:45
EXHIBITION OPENING 18:40	KEYNOTE PLENARY 17:30 - 18:15			
WELCOME RECEPTION 18:30 - 20:00	PROJECT INNOVATION AWARDS (PIA) DINNER	CULTURAL EVENT Evening		GALA DINNER Evening

Monday 17 September									
SCHEDULE	RECEPTION HALL A	RECEPTION HALL B	ROOM 101	ROOM 102	ROOM 601	ROOM 604	ROOM 605	ROOM 606	ROOM 607
09:00 – 09:45	KEYNOTE PLENARY Yuriko Koike Governor of Tokyo and Toshio Koike Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan								
BREAK 09:45 – 10:30	TECHNICAL Customers and Tariffs	TECHNICAL Emerging Contaminants: Treatment	WORKSHOP Post SDGs: Future Vision Call	TECHNICAL Energy Efficiency & Recovery in Wastewater Management	TECHNICAL Instrumentation, Control & Automation in Treatment Processes	TECHNICAL Water Management in: Agroindustries/Food Industries	WORKSHOP Process Synthesis, Design and Control of Next Generation Resource Recovery & Wastewater Treatment Plants (WWTPs)	WORKSHOP Assessing Log Reduction Values for Drinking Water Treatment Technologies	WORKSHOP Climate Change Adaptation Through Application of Low Impact Development Strategies And Green Infrastructures
SESSION 1 10:30 – 12:00									
LUNCH 12:00 – 13:30	TECHNICAL Water Efficiency	TECHNICAL Community Based Planning	WORKSHOP Handling Emerging Substances in the Urban Watercycle	TECHNICAL Sulfur Conversions	WORKSHOP Principles of Online Data validation - An introduction	TECHNICAL Industry Onsite Recycling & Zero Discharge	WORKSHOP Towards A Next Generation Of Water Systems And Services For The Circular Economy	TECHNICAL Water Infrastructure Asset Management & Maintenance Solutions	TECHNICAL Algae, Taste, Odor & Toxin Control
SESSION 2 13:30 – 15:00									
BREAK 15:00 – 15:45	TECHNICAL Urban Drainage	TECHNICAL Modelling for Resilience	WORKSHOP Micropollutants II - Removal in WWTP	WORKSHOP Principles of Data Management - How Collected Data Can Be Useful & Reliable	WORKSHOP What Water Technologists Should Know about Advanced Process Modelling that will Accelerate their Design and Scale-up Efforts	TECHNICAL Water Reclamation for Non-potable Reuse	WORKSHOP From Innovation Partnerships to Citizen Involvement In The Modern Water Sector	WORKSHOP International Approaches to Water Efficiency Labelling	TECHNICAL Risk Assessment & Toxicology
SESSION 3 15:45 – 17:15									
17:30 – 18:15	KEYNOTE PLENARY Silver Mugisha Chief Executive Officer, National Water and Sewerage Corporation, Uganda								
ROOM 608	ROOM 609	ROOM 610	ROOM ICR	ROOM 701 / 702	ROOM 703	ROOM 801	ROOM 802	BUSINESS FORUM 1	BUSINESS FORUM 2
KEYNOTE PLENARY Yuriko Koike Governor of Tokyo and Toshio Koike Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan									
TECHNICAL Utilities Striving Towards Energy / Carbon Neutral Urban Water Services	WORKSHOP Appropriate Tariff Setting and Improvement of Customer Perception Towards Sustainable Water Supply	WORKSHOP Intermittent Water Supply (IWS) - A Paradigm Shift Is Imperative	FORUM Disaster Counter-measures and Risk Management towards Resilient Cities	TECHNICAL Benchmarking of Water Utilities	TECHNICAL Application of ICT for Utility Management	SKILL DEVELOPMENT Solving Complex Water Problems - A Toolkit (part 1)	TRAINING 07:30 - 12:00 Delivering Regulatory Excellence in Water Energy Nexus <i>Registration required</i>	09:45 – 10:30 METAWATER	09:45 – 10:30 Japan Pavilion
								10:30 – 11:15 Taisei Kiko	10:30 – 11:15 Veolia
								11:15 – 12:00 Swing Corporation	
TECHNICAL Integration of Decentralised Solutions & Private Sector Strategies in Centralised Systems	WORKSHOP Nature Based Solutions: Engineering Approaches to Integrating Green and Grey Infrastructure From Catchment to Consumer	TECHNICAL Blue-Green Infrastructure	FORUM Disaster Counter-measures and Risk Management towards Resilient Cities	TECHNICAL Plant & Process Performances: How Can We Compromise Chemical Consumptions & Water Quality	TECHNICAL Non Revenue Water Management	SKILL DEVELOPMENT Solving Complex Water Problems - A Toolkit (part 2)	TRAINING 13:00 - 16:30 Delivering Regulatory Excellence in Water Energy Nexus <i>Registration required</i>	12:15 – 13:00 Cosmo Koki	12:00 – 13:30 Denmark Pavilion
								13:30 – 14:15 Kubota Corporation	13:30 – 15:30 Emerging Technologies Programme
TECHNICAL Economic Evaluations & Financial Incentives to Support Community / City Benefits & Outcomes	WORKSHOP Nature Based Solutions: Financial and Regulatory Incentives for Green Infrastructure in Water Utilities	WORKSHOP Best Practice for Social Media in the Water Sector	FORUM Disaster Counter-measures and Risk Management towards Resilient Cities	TECHNICAL Chemical Drinking Water Treatment – Optimisation	TECHNICAL Leakage Detection & Solutions	SKILL DEVELOPMENT Publish in Style, a How To for Authors		14:15 – 15:00 Hitachi	
								15:45 – 17:15 Japan Pavilion	15:45 – 16:30 Meidensha Corporation
KEYNOTE PLENARY Silver Mugisha Chief Executive Officer, National Water and Sewerage Corporation, Uganda									
PROJECT INNOVATION AWARDS (PIA) DINNER									

Tuesday 18 September									
SCHEDULE	RECEPTION HALL A	RECEPTION HALL B	ROOM 101	ROOM 102	ROOM 601	ROOM 604	ROOM 605	ROOM 606	ROOM 607
09:00 - 09:45	KEYNOTE PLENARY Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>								
BREAK 09:45 - 10:30	TECHNICAL Monitoring & System Control	TECHNICAL Enabling Technology	FORUM 5th International Water Regulators Forum	TECHNICAL Emerging Contaminants & Microplastics	TECHNICAL Biosolids Management & Reuse	TECHNICAL Sewage Pollution & Treatment	WORKSHOP Water-Wise Cities I - Multi-purpose Water Services, Leveraging Multiple Benefits Across Sectors	WORKSHOP People Management I - Building the Water/Wastewater Workforce Needed to Protect the Public and the Environment	TECHNICAL Microbiology of Water Distribution Systems & Biofilms
SESSION 1 10:30 - 12:00									
LUNCH 12:00 - 13:30	WORKSHOP Global Water Pathogen Project and WHO Workshop for the Action Plan on Antimicrobial Resistance and Water Environment I	TECHNICAL Diffuse Pollution	FORUM 5th International Water Regulators Forum	WORKSHOP Microplastics in Wastewater - Why Do We Care?	WORKSHOP Sustainable Use of Water by Industry	TECHNICAL Sensors & Smart Solutions	WORKSHOP Water-Wise Cities II: Implementing Water-Wise Cities around the World: Lessons Learned	WORKSHOP People Management II - A Vision for Cultural Change through Diversity	TECHNICAL Novel Technologies
SESSION 2 13:30 - 15:00									
BREAK 15:00 - 15:45	WORKSHOP Global Water Pathogen Project and WHO Workshop for the Action Plan on Antimicrobial Resistance and Water Environment II	FORUM 5th International Water Regulators Forum	WORKSHOP Subsurface Water Storage: Catalyzer of Water Reuse Worldwide	WORKSHOP Effects of Microplastics in Freshwater and Soil Ecosystems	WORKSHOP Water Reuse in the Food-processing Industry	TECHNICAL Modelling for Decision Support	WORKSHOP Water-Wise Cities III - Water for Smart Liveable Cities	WORKSHOP Development & Advancements in Non-sewered Sanitation and Faecal Sludge Management	TECHNICAL Activated Carbon
SESSION 3 15:45 - 17:15									
17:30 - 18:15	KEYNOTE PLENARY Shinichiro Ohgaki <i>President Japan Water Research Center (JWRC), Japan</i>								
ROOM 608	ROOM 609	ROOM 610	ROOM ICR	ROOM 701 / 702	ROOM 703	ROOM 801	ROOM 802	BUSINESS FORUM 1	BUSINESS FORUM 2
KEYNOTE PLENARY Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>									
TECHNICAL Resource Recovery I - Inorganic	TECHNICAL Activated Sludge Processes	WORKSHOP Climate Resilient Water Safety & Security Planning	LECTURE Phosphorus Recovery & Reuse from Wastewater	TECHNICAL Pipe Failures & Corrosion	TECHNICAL Pumps & Energy	SKILL DEVELOPMENT Water Communication in the Age of Fake News	TRAINING 08:30 - 12:00 Performance Assessment & Improvement in Urban Water Services: The IWA Approach <i>Registration required</i>	09:45 – 10:30 METAWATER	09:45 – 10:30 Japan Pavilion
								10:30 – 11:15 Kubota Corporation	10:30 – 11:15 Xylem Inc
								11:15 – 12:00 Kurimoto	11:15 – 12:00 JFE Engineering Corp.
TECHNICAL Resource Recovery II - Organic	TECHNICAL Nutrient Removal I (Anammox)	WORKSHOP Groundwater for the Future	WORKSHOP Toward the Achievement of SDGs Relating to Sanitation and Wastewater Management (SDG 6.2, 6.3)	TECHNICAL Corrosion Control & Pipe Life Extension	TECHNICAL Distribution Network & Energy Savings	TRAINING Climate Smart Utilities: Tools for Resilience <i>Registration required</i>	TRAINING 13:00 - 15:30 Performance Assessment & Improvement in Urban Water Services: The IWA Approach <i>Registration required</i>	12:15 – 13:00 Swing Corporation	12:00 – 13:30 Denmark Pavilion
								13:30 – 14:15 Cosmo Koki	13:30 – 15:30 Emerging Technologies Programme
								14:15 – 15:00 Meidensha Corporation	15:45 – 16:30 Netherlands Pavilion
TECHNICAL Physio-chemical Treatment - Electrochemistry	TECHNICAL Biofilm & Granular Sludge Processes	TECHNICAL Groundwater Management	WORKSHOP Toward the Achievement of SDGs Relating to Sanitation and Wastewater Management (SDG 6.2, 6.3)	WORKSHOP Implementing Infrastructure Asset Management: Good Practice & Challenges	TECHNICAL Chemical Optimisation	TRAINING Climate Smart Utilities: Tools for Resilience <i>Registration required</i>	TRAINING 16:00 - 17:00 Performance Assessment & Improvement in Urban Water Services: The IWA Approach <i>Registration required</i>	15:45 – 17:15 Japan Pavilion	
								KEYNOTE PLENARY Shinichiro Ohgaki <i>President Japan Water Research Center (JWRC), Japan</i>	
CULTURAL EVENING									

Thursday 20 September									
SCHEDULE	RECEPTION HALL A	RECEPTION HALL B	ROOM 101	ROOM 102	ROOM 601	ROOM 604	ROOM 605	ROOM 606	ROOM 607
09:00 - 09:45	KEYNOTE PLENARY Lars Therkildsen CEO, HOFOR, Denmark								
BREAK 09:45 - 10:30	TECHNICAL Disinfection By-Products	TECHNICAL Membrane Bioreactors	FORUM Emerging Water Leaders	WORKSHOP Digitalisation of Water - Trends & Opportunities	TECHNICAL Physico-chemical Treatment - Nanomaterials	TECHNICAL Integrated Water Resource Planning	FORUM Basin-Connected Cities Forum I - Urban Perspectives	TECHNICAL Resilience	WORKSHOP Taste and Odor Compounds and Algal Toxins in Water: Management Strategies in An Era of Extreme Climate and Urban Growth I
SESSION 1 10:30 - 12:00									
LUNCH 12:00 - 13:30									
SESSION 2 13:30 - 15:00	TECHNICAL Emerging Contaminants	TECHNICAL Membrane Application Wastewater Management	FORUM Emerging Water Leaders	WORKSHOP Digital Water Hot Topics: Cybersecurity, Connected Workforce & Business 4.0	TECHNICAL Nanotechnology / Nanomaterial Application		FORUM Basin-Connected Cities Forum II - Tools for Action	TECHNICAL Water Stress: Droughts & Floods	WORKSHOP Taste and Odor Compounds and Algal Toxins in Water: Management Strategies in An Era of Extreme Climate and Urban Growth II
BREAK 15:00 - 15:15									
15:15 - 16:45	CLOSING CEREMONY Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.								
	GALA DINNER								
ROOM 608	ROOM 609	ROOM 610	ROOM ICR	ROOM 701 / 702	ROOM 703	ROOM 801	ROOM 802	BUSINESS FORUM 1	BUSINESS FORUM 2
KEYNOTE PLENARY Lars Therkildsen CEO, HOFOR, Denmark									
TECHNICAL WWTP & Energy Optimisation I	TECHNICAL Emerging Contaminants & Micro Pollutants - General Aspects	WORKSHOP Reuse, Recover, Recycle - Accelerating Resource Recovery from Water – Part I and II	LECTURE Recent Trends in Potable Water Reuse	WORKSHOP BioCluster Workshop: Real-time Analysis of Microbial Communities - How Close Are We?	TECHNICAL Earthquake Experience	SKILL DEVELOPMENT Open Access & Innovations in Publishing	TRAINING 08:30 - 12:00 Infrastructure Asset Management in Light of ISO 5500x Standards IAM	09:45 – 10:30 METAWATER	09:45 – 10:30 Belgium Pavilion
								10:30 – 11:15 Blue Foot Membranes	10:30 – 11:15 Yokogawa Electric Corp.
								11:15 – 12:00 Hitachi Zosen	11:15 – 12:00 Japan Pavilion
TECHNICAL WWTP & Energy Optimisation II	WORKSHOP Efficient Management of Water Supply by Introducing Public-Private Partnership	WORKSHOP Reuse, Recover, Recycle - Accelerating Resource Recovery from Water - Part III	WORKSHOP Supporting Policy Development – How to Land Policy Decision in Water & the Environment	WORKSHOP BioCluster Workshop: Real-time Analysis of Microbial Communities - How Close Are We?	TECHNICAL Outbreak & Emergency Response		TRAINING 13:30 - 15:00 Infrastructure Asset Management in Light of ISO 5500x Standards IAM	12:15 – 13:00 Taisei Kiko	
								13:30 – 14:15 Japan Pavilion	13:30 – 14:15 Systea SpA
									14:15 – 15:00 Japan Pavilion
CLOSING CEREMONY Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.									
GALA DINNER									

Information

Practical & Useful

Useful Information

ACCOMMODATION QUERIES

For questions about accommodation, you can go to the registration desk.

ATM

ATM (Automated Teller Machine) for Mizuho Bank, Tokyo Star Bank, Seven Bank, Japan Post Bank are located in the Entrance Hall 2nd floor.

Major credit cards such as VISA, Master Card, AMERICAN EXPRESS and many others are applicable to withdraw cash in the local currency at either machine.

CATERING AND REFRESHMENTS

Morning coffee, lunch and afternoon coffee is served in the exhibition area in West Hall 1. You can find a lunch voucher per day in your registration envelope.

EXTRA TICKETS

At the registration desk you can book extra tickets for social events, if available.

MEDICAL ASSISTANCE

Tokyo Big Sight do not stock medical supplies. A first aid room is available and designed to allow persons feeling ill to rest temporarily. For medical assistance please go to the registration desk.

SIGHTSEEING TOURS

The Tokyo Convention & Visitors Bureau will be onsite to assist with tours.

TAXI

From center of Tokyo

Metropolitan Expressway (Route No.11 Daiba). Approx. 5 minutes from Daiba Exit

From Yokohama/Haneda

Metropolitan Expressway (Wangan Route). Approx. 5 minutes from Rinkai Fukutoshin Exit

From Chiba/Kasai

Metropolitan Expressway (Wangan Route). Approx. 2 minutes from Ariake Exit

TRAIN

Rinkai Line, approximately 7 minutes' walk from Kokusai-Tenjijo Station <http://www.twr.co.jp/en/tabid/237/Default.aspx>

Yurikamome, approximately 3 minutes walk from Kokusai-Tenjijo Station <http://www.yurikamome.tokyo/>

REGISTRATION DESK

The registration desk will be open from:
Saturday 15.09 - 14:30 until 17:00
Sunday 16.09 - 08:00 until 18:00
Monday 17.09 - 08:00 until 18:00
Tuesday 18.09 - 08:00 until 18:00
Wednesday 19.09 - 08:00 until 18:00
Thursday 20.09 - 08:00 until 15:00

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.

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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

Want the IWA World Water Congress & Exhibition at your fingertips? Get the official mobile app. A one-stop-shop for the entire Congress, the app offers a comprehensive guide to every workshop, technical session, presentation, event and exhibitor. Search for and 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.



Congress mobile app



Pre-print proceedings

IWA MOBILE APP – IWA-CONNECT

Want to stay in touch with the IWA network after the event? Connect to the global platform for water professionals. Access experts from across sectors & disciplines; Learn & share world-class best practices and find career development opportunities.



IWA connect

SOCIAL MEDIA

Planning to use social media while at the conference?

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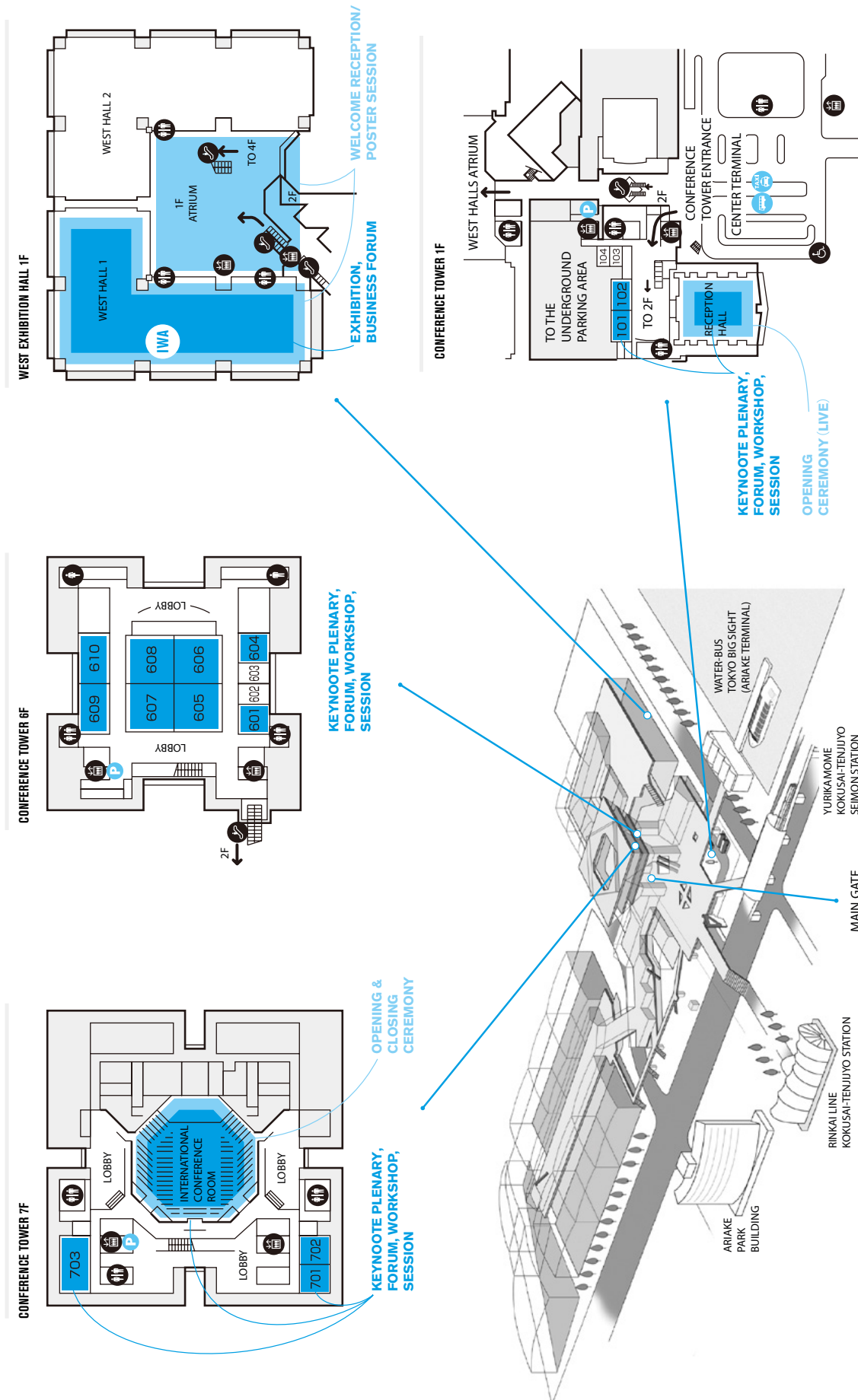
Congress Director

Keith Robertson
International Water Association
phone + 31 6 159 031 54
email keith.robertson@iwahq.org



Floor Plan

Congress: Conference Tower / Exhibition: West Hall 1



Congress Focus



Track 1
WATER UTILITY
MANAGEMENT

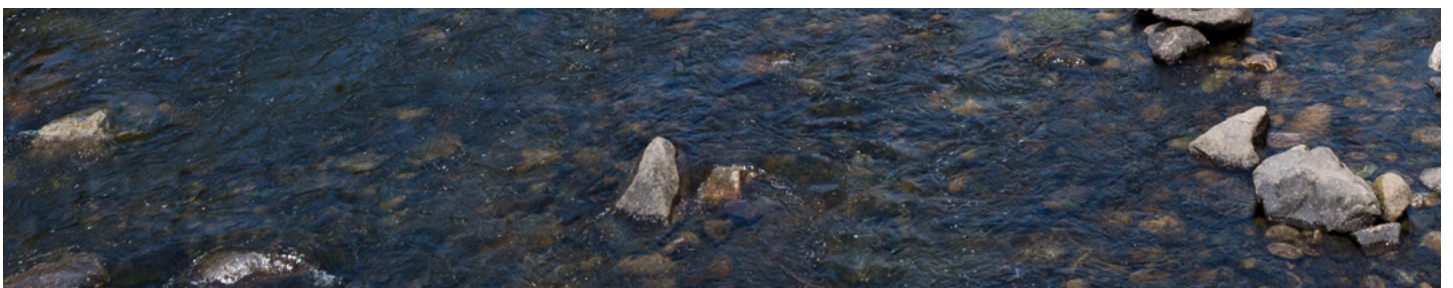
Track 2
WASTEWATER

Track 3
DRINKING WATER AND
POTABLE REUSE

Track 4
URBAN WATER
SYSTEMS

Track 5
COMMUNITIES,
INTEGRATED
PLANNING AND
THE ENABLING
ENVIRONMENT

Track 6
LARGE SCALE WATER
MANAGEMENT



Inspiring Change



Water and Development Congress & Exhibition

COLOMBO
SRI LANKA

04-07 • AUGUST

2019

World Water Congress & Exhibition

COPENHAGEN
DENMARK

18-23 • OCTOBER

2020



Become an agent of change!

As an IWA member you can contribute towards a better water future. Join IWA and get access to a network of thought leaders, exclusive content and professional development.

Come meet us at the IWA Pavilion and discover a world of opportunities.

Special 20% discount on individual memberships available until 31 October with the code: **WWCETOK2018**.

stands 115 and 74

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Science, Practice and Policy for Sustainability and Resilience



From 16 to 21 September 2018, the International Water Association gathers in Tokyo, Japan. Attracting water professionals from over one hundred countries, the IWA World Water Congress & Exhibition provides a unique opportunity to learn about the latest trends in leading practices, innovative technologies and pioneering science. It also connects you with the right people and the right solutions, and fosters new collaborations and partnerships.

We at IWA are happy to announce that the IWA World Water Congress & Exhibition 2018 presents the collective and state of the art knowledge and know-how through leading keynote speakers, presentations, poster sessions, workshops, open discussions, technology showcases, dialogues on emerging issues and leadership forums.

The Global Event Shaping our Water Future

The water sector faces a pivotal moment. With increasing global change pressures, cities around the world are experiencing difficulties in managing protracted droughts, flash floods and rising seas. Delivering solutions for these complex water management problems requires leading-edge scientific research, technological developments and new mindsets. Technology breakthroughs and innovative designs need to be coupled with comprehensive system changes to urban processes, institutions and regulations that ultimately shape our cities. As a sector we must embrace disruptive technologies and thinking, and adopt them at a much faster rate if we are to deliver maximum benefit.

The IWA World Water Congress & Exhibition 2018 is where the ideas for solutions are being fomented and can be rigorously debated. It plays a critical role in bridging the chasm between research and practice, to accelerate the development and diffusion of innovation in the global water sector. The 2018

edition will showcase innovations in areas such as resilient, flexible and adaptive urban water systems; systems thinking for integrated urban water management; reconsideration of the way water is used (and reused); resource recovery and reuse – generating value from wastes; and application of natural systems for water and wastewater treatment.

We at IWA are also happy to announce the launch several new initiatives including ones on Digital Water; Intermittent Supplies and Non-Sewered Sanitation.

6000+ Water Professionals

During five days, the critical debates shaping our water future will take place in 5 Leadership Forums, 9 Plenary Sessions, 55 Workshops, 88 Technical Sessions, 352 Presentations and over 680 Posters, and offers in the IWA exhibition to more than 240 exhibitors to showcase and demonstrate their work.

At this exciting week, the IWA water community will award outstanding water leaders in 7 IWA Award categories recognizing professional dedication and work, contribution to innovation and outstanding performance.

This year's IWA World Congress & Exhibition programme provides a great opportunity to network with water sector leaders, and to highlight and share knowledge on the latest trends in best practice, innovative technologies, pioneering research and science.

I have the honour to welcome you to the IWA World Water Congress & Exhibition in Tokyo!

Kalanithy Vairavamoorthy

Executive Director, International Water Association

Keynote Speakers

Leading voices and thought-leaders



Rudy de Waele

*Founder and CEO,
Shift 2020, Belgium*



Yuriko Koike

*Governor of
Tokyo, Japan*



Toshio Koike

*Director, International
Centre for Water Hazard
and Risk Management
(ICHARM), Japan*



Silver Mugisha

*Chief Executive
Officer, National
Water and Sewerage
Corporation, Uganda*

Consciousness of Water

Rudy de Waele is a futurist, innovation strategist and change agent, content curator and author. He assists global brands, entrepreneurs and startups, companies and organisations with cutting-edge open innovation strategy using new methodologies to re-invent and transform business. He has helped diverse global brands such as BMW, IBM, Coca-Cola, Google, Intel, Louis Vuitton, Mastercard, Microsoft, Orange, PayPal, Samsung, Telefonica, Vodafone and the World Bank. His latest book, “shift 2020 – How Technology Will Impact Our Future”, delivers impactful insights into how future influences such as IoT, genetics, robotics and AI will affect our collective daily lives, including foresights by some of the world's leading technology experts. He is an associate of The Futures Agency, a member of the IoT Council – a global think-tank for the Internet of Things, and a Strategic Advisor and Ambassador to Smart Cities World.

Strengthening Water-related Disaster Resilience for Sustainable Development

Yuriko Koike has been the Governor of Tokyo since July 2016. Before being elected to the post, she was active in national politics. She was a member of the House of Councillors and the House of Representatives for a total of 24 years from 1992, during which time she held major posts including Minister of the Environment, Minister of State for Okinawa and Northern Territories Affairs, Special Advisor to the Prime Minister for National Security Affairs, Minister of Defense, and Director of the Committee on Budget of the House of Representatives. As the first woman to serve as the Minister of Defense and the Governor of Tokyo, she is paving the way for women to be more active in society. With a BA in Sociology from Cairo University, she is fluent in English and Arabic, and was a prominent news anchor before entering politics.

Dr Toshio Koike is Professor Emeritus of the University of Tokyo, a Council Member of the Science Council of Japan, Cabinet Office and Chair of the River Council of Japan. His research interest includes the water cycle and climate sciences and their applications to water resources management, which can be classified into the following three components: establishment of satellite remote sensing; development of data integration and information fusion systems; and development of hydrological down-scaling methods including satellite-based data assimilation. Apart from his academic contributions, he has been leading international water cycle science projects and inter-governmental science and technology cooperation.

Water Governance and Institutional Issues in Developing Countries

Dr Eng Silver Mugisha holds a PhD in Engineering and Economics from Makerere University, Uganda. His PhD research, which was performed in collaboration with PURC of the University of Florida, USA, focused on areas of performance monitoring, incentive design and productivity analysis. He has published a book on “Utility Benchmarking and Regulation: Practical Application of Performance Monitoring and Incentives” and over 20 policy and research papers. Dr Mugisha has been the Managing Director of the National Water and Sewerage Corporation (NWSC) since August 2013. He has worked, on external consultancies, in Uganda and other foreign countries. He is a Vice President of the International Water Association (IWA) and Vice President of African Water Association (AfWA) for the East African Region. Dr Mugisha is a Senior Research Fellow at Public Utilities Research Centre (PURC), University of Florida, USA. He is also a fellow of the International Water Association and Sense Research School of the Netherlands.



Claudia Sadoff

*Director-General,
International Water
Management
Institute, Sri Lanka*

The Status of and Outlook for Sustainable Development Goal 6

Dr Claudia Sadoff is the Director General of the International Water Management Institute (IWMI), a scientific “research for development” organisation headquartered in Sri Lanka. Before joining IWMI, she spent over 20 years at the World Bank where she held multiple positions including Global Lead for Water Security and Integrated Resource Management. She has served as a Distinguished Visiting Scholar at Oxford University, Chair of the GWP/OECD Task Force on Water Security and Sustainable Growth, and as a member of the World Economic Forum’s Global Agenda Council on Water Security.



Shinichiro Ohgaki

*President Japan Water
Research Center
(JWRC), Japan*

Decision Making With Uncertainty – Challenges Facing Water Professionals

Professor Shinichiro Ohgaki is the President of Japan Water Research Center and Professor Emeritus and the former Dean of Graduate School of Engineering at The University of Tokyo. Professor Ohgaki also served as the President of the National Institute for Environmental Studies, one of the prestigious research institutions of the Japanese Government. He was one of the Vice Presidents of the International Water Association and served as one of the Vice Presidents of Science Council of Japan. His lasting contribution is in R&D for water use in urbanised areas and health-related water microbiology.



Rebekah Eggers

*Global Water Leader, WW
IoT, Energy, Environment,
& Utilities Business,
IBM, United States*

"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities

Rebekah Eggers currently has worldwide responsibility for IBM’s Watson IoT Energy, Environment, and Utility solutions. She has dedicated over 20 years to working with utilities across the globe in various stages of leveraging technology and analytics. She began her career learning the industry and building a foundation of knowledge in the World Class Finance division of a “Big 5” consulting firm and went on to pursue her passion constructing solutions addressing emerging industry challenges. Recently as climate change, rising operating costs and technology advances have evolved, she has turned her focus to helping utilities add layers of digital intelligence to their infrastructure.

**Sudhir Murthy***CEO, NEWhub,
USA***Mark van Loosdrecht***Chair professor
in Environmental
Biotechnology, Delft
University of Technology,
Netherlands***Lars Therkildsen***CEO of HOFOR,
Greater Copenhagen
Utility, Denmark*

Innovation to Implementation – Academia and Utility Perspectives

Dr Sudhir Murthy is the CEO of NEWhub, a Cleantech firm that commercialises new technologies and helps utilities and industry navigate their internal innovation processes. Previously, Dr Murthy was the Innovations Chief at DC Water, the public water utility that serves Washington DC metropolitan region. During his 16-year tenure at DC Water, he led innovations in water and wastewater treatment that resulted in the investment of nearly US\$1 billion of new and innovative technologies and approaches. Much of the work was conducted through a worldwide open innovation programme. Dr Murthy has an MS and a PhD in Civil/Environmental Engineering from Virginia Tech, USA.

Mark van Loosdrecht is Professor in Environmental Biotechnology at TU-Delft. He obtained his PhD on bacteria adhesion in 1988 from Wageningen University. Since 1988 he has worked at Delft and became a Full Professor in 1998. His research is characterised by the combination of the scientific understanding of complex microbial systems and the development of new processes. Dr van Loosdrecht's scientific interests are mainly related to biofilm processes, nutrient conversion processes and the role of storage polymers in microbial ecology. His research has resulted in several processes currently applied at full scale such as the Sharon process, Anammox process and Nereda process. He is past chairman of the Biofilm and the Nutrient Removal Specialist Groups of IWA. He is Editor in Chief of the journal Water Research. He obtained the Lee Kuan Yew Singapore Prize and the Stockholm Water Prize, and is member of the Royal Dutch Academy of Arts and Sciences, the Dutch and the US Academy of Engineering.

The Options and Opportunities for a Big Multipurpose Utility

In 2008, Lars Therkildsen was appointed CEO of Københavns Energi A/S, which in 2012 merged to form HOFOR A/S, owned by eight municipalities, including the City of Copenhagen. HOFOR ensures that a million Danes receive clean drinking water, and supplies Copenhagen with climate-friendly district heating, town gas and district cooling. In addition, HOFOR discharges wastewater and erects wind turbines throughout the country.

Among other things, HOFOR owns seven regional waterworks, a power plant, two cooling centres as well as an extensive pipeline network through which water, wastewater, district heating, town gas and cooling are piped to and from customers. HOFOR's goal is to create sustainable towns and cities through green, safe and affordable utilities. Adaptation to climate change, cloudburst protection and the supply of CO₂-neutral energy are just some of HOFOR's focus areas.

Lars Therkildsen also sits on several governing boards and is, inter alia, chairman of the Danish Water and Waste Water Association (DANVA).

INTERVIEW: NIGEL WATSON,
CIO, NORTHUMBRIAN WATER

the Source

The magazine of the International Water Association

The rise of digital water

How technology will transform the 21st century utility



**California's
fight for the
right to water**

**Why cutting
supplies is not a solution
to drought**

**The three
scales of
innovation**

Issue 12, August 2018

£25 | €32 | \$36

Forums

MONDAY, 17 SEPTEMBER

International Conference Room / 10:30 - 17:15

Disaster Counter-measures and Risk Management towards Resilient Cities*

The Forum focuses on the resilience of water supply, drainage and wastewater systems in cities. It is a unique opportunity to learn about the Japanese experience from the Great East Japan Earthquake in 2011 in recovering the functions of their water and sewerage works. The sessions also share practical experiences of several cities in the world on building water resilience strategies, understanding resilience as the capacity to recover after a disruptive event (disaster or crisis) or slow changes (diminishing resources, social changes, climate change). Lessons learned on how to assess the risks, how to reduce the risks and prepare for the emergency response will be shared throughout the three complementary sessions on the following topics:

- Lessons learned from the Great East Japan Earthquake, the recovery of water and sewerage works
- Enhancing water security
- Water, wastewater and drainage as opportunities to enhance resilience

TUESDAY, 18 SEPTEMBER

Room 101 / 10:30 - 15:00
Hall B / 15:15 - 17:15

5th International Water Regulators Forum

The 5th International Water Regulators Forum (IWRF) welcomes high-level regulatory authorities and officials with regulatory and supervisory functions related to the provision of water, sanitation and wastewater management services. This year we continue facilitating peer-to-peer dialogue and learning across regulatory functions – economic, health, environment and quality of service; and bridging regulators across the sector and, especially, with the research, science and technology communities to enable the innovation and collaboration for the water-wise world we want. Sound working regulatory systems and mechanisms are one of the building blocks of this transition, with regulators being a driver for innovative investments and sustainable growth.

This 5th IWRF builds on previous editions to address the SDG challenge towards water-related ecosystems and their services (SDG 6.6 and 15.1) by 2030, to reach resilient and sustainable universal access to water and sanitation for all. The one day Forum will be complemented by a series of activities throughout the congress, connecting regulators to other water champions.

WEDNESDAY, 19 SEPTEMBER

Room 101 / 13:30 - 17:15

Science to Practice Forum

Science and technology development is needs-driven and existing potentially disruptive technologies could help to accelerate innovation and adoption activities in the water sector. The main purpose of the Science to Practice Forum is to identify mechanisms and processes on translating science and technology into practice. Through this forum we would like to identify elements during this translation process such as challenges and barriers, necessary elements to lead to success, lessons learned, etc.

We will also exchange ideas on how science and technology can be translated into practices by different organizations and individuals from different segments (academia, utility, government, etc.) and in different areas and regions. The forum aims to be summarized into a report on the translation of science into practice with recommendations in terms of a set of general and specific challenges/barriers we might face (and how to overcome them), what key factors lead to success, etc. The main audience of this forum will be researchers, utilities, consultancy and all other individuals and organizations interested in translating science into practice.

For more information please contact
Corinne Trommsdorff:
corinne.trommsdorff@iwahq.org

For more information please contact
Carolina Latorre:
carolina.latorre@iwahq.org

For more information please contact
Hong Li:
hong.li@iwahq.org

* *Invitation only.*

The remaining forums require pre-registration. For more information please contact the organizer.

THURSDAY, 20 SEPTEMBER

Room 605 / 10:30 - 15:00

Basin-connected Cities Forum

Urban stakeholders have a critical role to play in preserving the freshwater resources on which they depend. A disruption in supply of freshwater resources to cities can have significant economic, environmental and health consequences. The Basin-Connected Cities Forum will explore what actions need to be taken today by cities to achieve sustainable management of basins into the future.

Join cities, regulators, utilities, industry and basin leaders in exchanging experiences and determining how to become better water stewards in their watersheds to secure the water resource, protect water quality and prepare for (and respond to) extreme events.

The Forum is an open event and will also launch the Action Agenda for Basin-Connected Cities, which aims to influence and activate urban stakeholders to protect and invest in water resources with basin and catchment organisations.

For more information please contact
Katharine Cross:
katharine.cross@iwahq.org

THURSDAY, 20 SEPTEMBER

Room 605 / 10:30 - 15:00

Emerging Water Leaders Forum

The leaders of tomorrow need to start planning their water future today. Join the young and emerging water leaders in this forum to answer three key questions – posed by the Congress Keynote Speakers – that the sector will have to address in 2030–2050 in the areas of digital water, climate resilience and healthy liveable cities.

Using teaching and applying techniques to break complex questions down into smaller components, you will discuss the answers among your peers and with invited senior experts Banu Ormeci (Carleton University), Claudia Sadoff (IWMI Sri Lanka), Jean Spencer (Anglian Water, UK), Tom Mills (Xylem, Singapore), Philip de Souza (Emanti, South Africa), Gustaf Olsson (Lund University, Sweden), Xavier Litrico (Suez, France), Tony Wong (CRC for Water Sensitive Cities, Australia) and Mark Fletcher (Arup, UK).

You will practise your problem-solving skills whilst developing actions towards planning our future. Be part of the #FutureWaterLeaders #WorldWaterCongress

For more information please contact
Kirsten de Vette:
kirsten.devette@iwahq.org

THURSDAY, 20 SEPTEMBER

Meeting Room 2 / 10:30 - 15:00

Utility Leaders Summit*

The Utility Leaders Summit (ULS) will be an ideal place to exchange and network with fellow utility leaders. This session will close the Congress with an opportunity to exchange between high-level utility leaders on the ability for utilities to drive change and innovate for their customers towards a water-wise world. Part 1 of the ULS will focus on how utilities can deliver added value beyond basic services. Part 2 will dive into planning and investing in innovation. Part 3 will be an opportunity to discuss on ensuring resilience. And Part 4 will close with a discussion on how to put the customer in the driver's seat and continue the discussion among utility leaders during the World Water Congress & Exhibition in Copenhagen 2020.

The objectives of the Forum are as follows:

- Provide utility leaders with a space to exchange amongst peers on the strategic orientations and choices to steer their utility.
- Utility leaders create connections that will potentially lead to future utility-to-utility knowledge exchange
- Utility leaders are triggered in their thinking and ways of working by the content discussed. Be inspired by how things are done differently in different places.
- How IWA is guided to better help leaders achieve their goals?

For more information please contact
Corinne Trommsdorff:
corinne.trommsdorff@iwahq.org

* The forums are by invitation and pre-registration only. For more information, please refer to the contact details.

Training

You have to be registered for the training sessions to attend.

MONDAY 17 SEPTEMBER

Delivering Regulatory Excellence in the Water-Energy Nexus (7hrs)

Room 802 / 07:30 - 16:30

Organiser: International Centre of Regulatory Excellence

After this training, you will:

- Be able to apply principles of the Regulatory Excellence Model;
- Be able to isolate the parts of the model most relevant to your home situation and do a gap analysis within your own regulatory context (no matter what or how you regulate);
- Learn how emergent and renewable geo-energy resources like shale gas, geothermal energy, and carbon-capture and storage tie to regulatory and operational challenges in water supply, wastewater treatment and disposal, and watershed/aquifer stewardship; and
- Get insight into how excellent regulators balance the competing triple-bottom-line objectives in the water-energy nexus.

Target Audience:

The following professionals working in the water-energy nexus:

- Water regulators;
- Water-policy makers;
- Decision makers;
- Advisors in firms.

TRAINING COSTS FOR TRAININGS FROM MONDAY TO THURSDAY:

- IWA members – € 25
- Non- IWA members – € 50

TUESDAY 18 SEPTEMBER

Performance Assessment and Improvement in Urban Water Services: The IWA Approach (7hrs)

Room 802 / 08:30 - 17:00

Organiser: IWA Benchmarking and Performance Assessment Specialist Group

After the course, you will be able to:

- Develop a performance assessment (PA) system for urban water services;
- Adapt the PA system to the needs and limitations of the case of application;
- Analyse the results from PA systems using Sigma, a free software; and
- Cluster utilities into different groups according to their context.

Target Audience:

All water professionals with a focus on managers of water services, policy-makers and regulators of the water sector.

Climate Smart Utilities – Tools for Building Resilience (3.5 hrs)

Room 801 / 13:30 - 17:15

Organiser: IWA and Emanti

After the training, you will be able to:

- Explain the concept of climate-resilient water safety planning;
- Interpret and use climate data to identify hazards and risks to be included in water safety planning; and
- Apply a methodology that supports the identification, assessment of climate risks impacting your water utility analysis of climate issues, and how to monitor and respond to the risks.

Target Audience:

- Water utility staff (technical/operational) dealing with water and climate risks;
- Water utility staff involved in water safety planning; water professionals advising water utilities.

WEDNESDAY 19 SEPTEMBER

Non-Revenue Water Management in Low- and Middle-Income Countries (7hrs)

Room 802 / 08:30 - 16:00

Organiser: IWA Water Loss Specialist Group

After this training, you will have a better understanding of:

- How to assess the the Non-Revenue Water Management (NRW)problem in a water utility;
- Preparation of an NRW reduction plan;
- Simple ways to do an initial cost-benefit analysis; and
- Problems of starting to engage in comprehensive NRW.

Target Audience:

- Policy-makers and other key decision makers;
- Water utility managers;
- Consultants;
- Representatives from International Funding Agencies and NGOs.

THURSDAY 20 SEPTEMBER

Infrastructure Asset Management in Light of ISO 5500x Standards (7hrs)

Room 802 / 08:30 - 15:00

Organiser: IWA Strategic Asset Management Specialist Group

After this training, you will:

- Understand the Concept of Infrastructure Asset Management (IAM) in light of ISO 5500x and its application in urban water services;
- Be able to apply the principles of IAM in urban water services with a focus on developing a sound assessment system; and
- Be able to select appropriate approaches, techniques and methodologies for the implementation of IAM based on the assessment.

Target Audience:

- Administrators and engineers of public services;
- Research institutions;
- Ministries and government agencies;
- Decision makers;
- All those managing and operating water infrastructure assets.

FRIDAY 21 SEPTEMBER

The Human Rights to Safe Drinking Water and Sanitation (HRWS): Focus on Ensuring Drinking Water Quality (7hrs)

Hilton Odaiba / 08:30 - 17:15

Organiser: IWA

After this training, you will have a better understanding of:

- The human rights to safe drinking water and sanitation, and what these entail for service delivery in terms of policies, regulation and management;
- The specific needs for drinking water quality as a human rights criterion, and how to tackle human rights challenges in drinking water quality management; and
- How the human rights criterion of drinking water quality relates to the indicators of target 6.1 under the Sustainable Development Goals framework.

and you will have developed skills:

- To engage in a productive dialogue between utility managers, regulators and human rights specialists; and
- To make considered decisions on introducing human rights elements into their managerial and regulatory functions.

Target Audience:

- Managers of utilities;
- Drinking water quality regulators;
- NGO staff with responsibilities for drinking water supply in low- and middle-income countries;
- Human rights specialists.

Delegate Category Training fee*

IWA member - €350

Non IWA member - €450

IWA LIC member + Students - €250

Non IWA LIC + Students - €350

FRIDAY & SATURDAY 21 & 22

Modelling Activated Sludge Plants (14 hrs)

Chuo University / 10:00 - 18:30

Organiser: IWA Good Modelling Practices Task Group

After the training, you will:

- Know and fully understand the principles of mathematical models for wastewater treatment plants;
- Understand the structure of the IWA Activated Sludge Models (ASMs) and their use in practice;
- Understand the requirements and needs for performing a simulation study for AS plants; and
- Be able to use a simulator for building, running and calibrating a model for a AS plants.

Target Audience:

The following (young, emerging and established) audiences interested in modelling wastewater treatment

- Consultants;
- Plant managers or operators;
- Water boards; and
- Academics.

Delegate Category Training fee*

IWA member - €300

Non IWA member - €400

IWA LIC member + Students - €250

Non IWA LIC + Students - €350

* The post-congress trainings comes at an extra cost and is separately accessible to non-delegates of the congress also.

** The Fee includes morning coffee/tea, lunch and materials. Participants are requested to bring their laptops.



For more information please contact

Kirsten de Vette:

kirsten.devette@iwahq.org

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 organize themselves into Specialist Groups (SG), Task Groups (TG) and Clusters. IWA Specialist Groups are central to IWA's work and mission. Group members are engaged in activities such as organising conferences, seminars and workshops; writing 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.

MONDAY 17 SEPTEMBER	
SMALL WATER AND WASTEWATER SYSTEMS The group meeting will mainly discuss the points from the SG leaders meet. The group will discuss the activities went on since the last meeting held in France. Further to discuss the conference planning to be held at Israel during October 2018. There is also a new proposal for conference organisation in Brazil, which will be presented. The meeting will also be open for discussions from other members.	Room 603 10:30 - 12:00
WETLAND SYSTEMS FOR WATER POLLUTION CONTROL Welcome @ Wetland Systems 4 WPC open meeting. During this event, we will mostly present the SG activities and the management structures. We will also present our involvement for the IWA world water congress and 3 recent major international initiatives related to the use of Nature Based Solutions. We will have a discussion on how to attract news members and how to optimize our collaboration with other SGs. Finally our past and forthcoming SG conferences will be presented.	Room 602 10:30 - 12:00
DESIGN, OPERATION AND COSTS OF LARGE WASTEWATER TREATMENT PLANTS The open meeting will give an update on group activities and the management structures. A main focus is given to the preparation of the next SG conference 2020 in Vienna and 2022 outside of Europe. We look forward to an interesting discussion and invite you to join us.	Room 603 12:15 - 13:15
INSTRUMENTATION, CONTROL AND AUTOMATION The open ICA-SG meeting will show the objectives, organization and activities of the group, and also present the call for affiliated YWPs to the management committee. We look forward to discussing the future of the group, going beyond Instrumentation, Control and Automation, to Information and Communication Technologies (ICT), Internet of Things (IoT) and Smart Water Factories following Industry 4.0.	West Hall 1 Room 5 12:30 - 13:15
JOINT MEETING ON INTERMITTENT WATER SUPPLY AND WATER LOSS This joint meeting will provide an opportunity to inform participants of the purpose, objectives and deliverables of the Groups and to exchange ideas and thoughts on the way forward in assisting water utilities and governments in improving the level of service to consumers and water supply conditions in general reflecting on technical, financial, institutional, social and communication challenges and constraints. An excellent chance to be part of an exciting future and learn how to deliver successful NRW programs from world experts.	West Hall 1 Room 4 12:30 - 13:15
MEMBRANE TECHNOLOGY In open meeting, we will report the renewed management committee members, update the coming group events, and discuss the future work of the SG, including how to enhance the communication and interaction within the SG, how to play the role of YWPs, and how to collaborate with other SGs.	West Hall 1 Room 7 12:30 - 13:15
RESOURCE RECOVERY FROM WATER CLUSTER The RR-cluster was established in '14 with the main objective to boost Resource Recovery from the water cycle. During this meeting we will give you an update of our activities and results. We will look forward: e.g. the upcoming RR-conference in Venice '19, our joint book on RR and our plans for webinars. Please join us and let yourself be submerged into this important and interesting 'new' topic in the water sector.	
WATER SAFETY PLANNING In our SG open meeting we will report the renewed management committee members, and discuss the future work of the SG, including how to advocate widespread water safety plans implementation. All SG members and those congress participants who are interested are welcome to join the open meeting.	
SUSTAINABILITY IN THE WATER SECTOR Our specialist group supports water use that promotes healthy communities and economies while protecting the environment. Please come learn about what we are doing in the areas of (1) sustainable use of water by industry and (2) workforce issues in the water sector.	
TUESDAY 18 SEPTEMBER	
DISINFECTION Our SG cares the issues related with water, wastewater and sludge disinfection, including disinfection process, microorganisms inactivation, disinfection by-products and water stability in distribution system. This group open meeting will welcome all the delegates interested in these topics. We will introduce our new management committee, report the work in the past 2 years, set up the roadmap for next years and discuss the trend of disinfection development.	Room 602 10:30 - 12:00
ASSESSMENT AND CONTROL OF HAZARDOUS SUBSTANCES IN WATER The ACHSW open meeting will provide an update on SG's activities in year 2018 and will also discuss about the planned activities in year 2019. The hot topics and trends on micropollutants and their assessment and control will be presented and discussed in the meeting. All ACHSW SG members and those congress participants who are interested are welcome to join the open meeting to have interactions.	West Hall 1 Room 5 12:30 - 13:15
PRETREATMENT OF INDUSTRIAL WASTEWATERS The SG open meeting provides a place to discuss the future evolution of our strategic objectives; debate new areas to be presented in the report on SG trends; discuss our conference in Germany in November 2018; and look for new regional Committee members to enhance annual activities.	Room 603 12:15 - 13:15



SLUDGE MANAGEMENT

Our open meeting will provide an update on group activities, conferences, book projects, research awards and other initiatives. We are also actively seeking new members for our management committee and will provide information on the election process. The group meeting will be followed by the ceremony for the presentation of the P. Aarne Vesilind Specialist Medal for Residuals Research to Prof. Okuno at the Japan Pavilion at 4 pm.

West Hall 1
Room 4
12:30 - 13:15

INSTITUTIONAL GOVERNANCE AND REGULATION

We contribute to the understanding of responsibilities of institutions and aspects of institutional arrangements, resource planning and service provision (I); development of appropriate governance structures and stakeholder engagement (G); and aspects of regulation of resources and services (R) for attainment of the Sustainable Development Goals. Join us to learn more.

Room 602
13:30 - 15:00

WEDNESDAY 19 SEPTEMBER

METALS AND RELATED SUBSTANCES IN DRINKING WATER

The main focus of SG METRELS open meeting will be on how to engage new members and to work together through different activities and communication channels available. After a brief introduction of the group's ideology an overview of the ongoing and planned activities will be presented and discussed.

Room 602
10:30 - 12:00

ADVANCED OXIDATION PROCESSES

The open meeting of the SG AOP will give an update of the Group Structure and activities planned for 2018/2019. All SG members and people interested in Advanced Oxidation Process are welcome to join the meeting for sharing information and discussion of trends in AOP

West Hall 1
Room 3
12:30 - 13:15

DIFFUSE POLLUTION AND EUTROPHICATION

The SG promotes understanding of diffuse pollution from urban and rural watersheds and eutrophication and algal blooms in surface waters. At our meeting, we will introduce our SG activities and upcoming events, and discuss the priorities of future direction. We will also open floor for networking and diffusing our knowledge with attendees from all over the world. Please feel free to join us! We would welcome your participation and look for new members.

West Hall 1
Room 4
12:30 - 13:15

HEALTH-RELATED WATER MICROBIOLOGY

The open meeting of Health-Related Water Microbiology (HRWM) Specialist Group will inform IWA WWC participants on recent activities of HRWM SG, present the schedule FOR our UPCOMING biannual symposium, the award type and selection system as well as the status of the Journal of Water and Health.

Room 603
12:15 - 13:15

MODELLING AND INTEGRATED ASSESSMENT

We will present the Management Committee and its associated YWPs, and ongoing activities relating to MIA Task Groups and Working Groups and upcoming events. Join us to know more how you can get involved in MIA SG. We are also keen to hear your topics and ideas. Welcome!

West Hall 1
Room 5
12:30 - 13:15

STRATEGIC ASSET MANAGEMENT

The SAM SG is pleased to invite you to our open meeting where we will present our new Management Committee and engage you in the groups' latest developments and future events.

West Hall 1
Room 7
12:30 - 13:15

WATER SECURITY AND SAFETY MANAGEMENT

What are the significant risks that might impair the water and sanitation services? How to prevent them from striking, and how to limit their consequences? How to implement effective preparedness for more resilient services? What are the best practices? These are questions to which W2SM Specialist Group tries to give answers.

Room 602
12:15 - 13:15

PUBLIC AND CUSTOMER COMMUNICATIONS

This open meeting will provide attendees an opportunity to learn the purpose, objectives, and agenda of the SG. It is also an excellent platform for the participants to meet the newly elected management committee, and to exchange ideas, opinions and thoughts on customer communication, crisis communication, and the challenges that come with public participation.

Room 602
15:45 - 17:15

THURSDAY 20 SEPTEMBER

ANAEROBIC DIGESTION

The IWA SG on Anaerobic Digestion (AD) is an international forum for activities related to anaerobic conversion processes. The core issues of the open meeting is concerned with the following: (1) to discuss the updating of the SG scope; (2) to discuss the activities planned for 2018/2019. All SG members and people interested in anaerobic process are welcome to join the meeting.

West Hall 1
Room 3
12:30 - 13:15

BENCHMARKING AND PERFORMANCE ASSESSMENT

The BPA SG welcomes any Congress delegate to join us to know more about our topics, group activities, and the options to actively participate in our group.

Room 603
12:15 - 13:15

EFFICIENT URBAN WATER MANAGEMENT

The mission of the Efficient Urban Water Management Specialist Group is to encourage the interchange of knowledge, research, best practices and programs regarding efficient management and use of water in urban zones. Our meeting will cover current projects/ initiatives and the next Efficient conference in January 2019 in Manila.

West Hall 1
Room 4
12:30 - 13:15

MICROBIAL ECOLOGY AND WATER ENGINEERING

Our goal is to foster greater collaboration between water research and practice, in order to develop novel, technology-oriented solutions that provide the most benefit to the water sector and society. All delegates are welcome to the MEWE SG open meeting where the an update on recent SG activities and how to get engaged with the group will be presented.

Room 602
12:15 - 13:15

Technical Tours

Connecting you to leading practice and large scale applications

Book your place early for one of the Friday 21 September full or half day Technical Tours

Please note numbers to tours are limited and bookings will be taken on a first in basis.



TOKYO WATERWORKS' HUMAN RESOURCES DEVELOPMENT AND INHERITED TO NEXT GENERATION

€40 per ticket

Friday 21st September, 09:45 – 12:30

Training and Technical Development Center

The facility is combined between training section and R & D section of the Tokyo Waterworks. The largest experience-based facility for waterworks training in Japan.

Experience training at the training field such as water leakage detection, etc. and demonstration of R & D products, etc.

Implement demonstration and hands-on experience of emergency water supply by a waterworks emergency services unit who is a rapid response organization in case of "earthquakes" and "accidents".

**Participate with comfortable clothes is desirable.*



TECHNOLOGY AND PRODUCTS OF JAPANESE COMPANY – TOUR OF JAPAN'S LARGEST FACTORY OF STEEL PIPES FOR WATER

€40 per ticket

Friday 21st September, 09:45 – 11:45

Water pipeline manufacturing plant

JFE Engineering Corporation has one of the largest manufacturing lines of steel pipes for water in Japan. In this tour, you can see the manufacturing process of steel pipe from a steel plate through welding, painting, etc. Diesel engines, large shield machines, etc. are also manufactured in the same plant.

Course of tour:

- Showing DVD and brief presentation
- Plant tour (steel pipes, shield machines, etc.)

**Participate with comfortable clothes is desirable.*

**Photography in the plant is not allowed.*



WATER FLOW IN TOKYO – WATER INTAKE, PURIFICATION AND DISTRIBUTION

€70 per ticket

Friday 21st September, 10:30 – 16:45

Akigase Intake Weir, 10:30 – 11:30

Akigase Intake Weir was constructed to cope with growing demand in the Tokyo metropolitan area, which utilized water developed in Tone river, and Ara river. The water is used for supplying domestic and industrial purposes in Tokyo as well as Saitama, and for drawing water stably to use water purification in Sumida river.

Course of tour:

- Guide to the facility
- Visit to the operation room
- Visit to the intake weir

**Participate with comfortable clothes is desirable.*

Asaka purification plant, 13:00 – 14:30

The purification plant to support civic life for 13 million citizen of Tokyo and urban activities in the capital of Japan. Introduction of advanced water treatment by ozonation and biological activated carbon in order to supply more safer and tastier water.

Due to security measures, below conditions are required to follow strictly upon implementation.

** Mandatory to confirm identification by ID with a photo such as passport, etc.*

** Tour course is limited within allowable areas.*

** Photography is prohibited.*

Construction site, 14:45 – 16:45

Tours on practical construction sites which are under-construction by the Tokyo Waterworks. It is possible to visit shield construction sites of large-diameter transmission pipes with 2600mm by getting down from the departure shaft.

**Participate with comfortable clothes is desirable.*

**Impossible to participate in the high-heeled shoes or sandals.*



FLOOD CONTROL INFRASTRUCTURE BY UTILIZING URBAN SPACE AND INHERITED TO NEXT GENERATION BY TOKYO SEWERAGE

€70 per ticket

Friday 21st September, 10:30 – 15:00

Tokyo Sewerage Museum "Rainbow", 10:30 – 11:30

Tokyo Sewerage Museum "Rainbow" is the PR hands-on facility where children can learn about sewerage. By experience work with having access to sewerage pipes, pumping station, central monitoring room and water analysis room, children can learn about aspiration and devise of people who involves with sewerage works (Only introduction available about the hands-on at the time of attending the tour).

The Metropolitan Area Outer Underground Discharge Channel, 14:00 – 15:00

The Metropolitan Area Outer Underground Discharge Channel is the world's largest underground discharge channels at 50 meters below ground with a 6.3 kilometers long tunnel. The total storage capacity is 670,000m³. The channel is the flood-control measures facility and consists of the "Inflow facilities" and "Banks" for taking water from the rivers, the "Tunnel" of the underground water channel for directing intake water downstream while pooling, the "Pressure-adjusting water tank" for reducing the water flow in the underground area and securing a smooth flow, and the "Draining pump station" and "Drainage sluiceway" for draining intake water from underground areas.

Course of tour:

- Pavilion tour (introducing of basin and projects, and tour of exhibition in the pavilion) (approx. 30 minutes)
- Tour of pressure-adjusting water tank (underground) (approx. 30 minutes)

**Participate in the clothes and shoes which may be stained.*

**Impossible to participate in the high-heeled shoes or sandals.*

** In event of heavy rain or facility operation, a slight change in the tour course may occur.*



TOKYO SEWERAGE'S SEWAGE TREATMENT AND HUMAN RESOURCES DEVELOPMENT

€70 per ticket

Friday 21st September, 09:30 – 12:00

Sunamachi Water Reclamation Center, 09:30 – 11:00

Sunamachi Water Reclamation Center is the second oldest wastewater treatment plant in Tokyo since 1930. Sunamachi treatment area is a delta area surrounded by Sumida River and Arakawa river. The center is treating the sewer generated from the vast zone (6,153ha) with Ariake Water Reclamation Center.

The treated water is discharged to Tokyo Bay. Besides, a part of the treated water is cleaned through sand filtration and used inside the center for cleaning facilities, cooling machines, and flushing toilets.

The Sewerage Technology Training Center, 11:00 – 12:00

The Sewerage Technology Training Center has been established as Japan's first large-scale training facility for human resources development and technology inheritance in sewerage industry. It is located in Sunamachi Water Reclamation Center and has 21 training facilities in the training building and 12 training facilities outside.



Sightseeing Tours

Explore Tokyo and surrounding regions with our programme of full day and half-day tours to the top sights on offer. Additional tours will take you to some of Japan's most recognised destinations, including Mt Fuji, Ueno Zoo, and Disneyland Tokyo.

To find out more or book go to
www.worldwatercongress.org

Find out more about each tour or book your place online at **www.worldwatercongress.org** or use the attached registration form



Sunday, 16 September

Track 1 WATER UTILITY MANAGEMENT	Track 2 WASTEWATER	Track 3 DRINKING WATER AND POTABLE REUSE	Track 4 URBAN WATER SYSTEMS	Track 5 COMMUNITIES, INTEGRATED PLANNING AND THE ENABLING ENVIRONMENT	Track 6 LARGE SCALE WATER MANAGEMENT
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Opening Ceremony

the IWA Awards, Toasting Ceremony and Welcome Reception

Opening Ceremony, Sunday 16 September, 16:00 - 18:00 • International Conference Room



The Congress's must-attend opening event features the highest-level international and regional water and political leaders. His Highness the Crown Prince of Japan, the Governor of Tokyo and other high-level representatives from the Japanese Government will welcome all participants to initiate the discussions about one of the most precious issues for human survival. It will set the tone for the week and explore the big issues to be addressed throughout the 2018 World Water Congress & Exhibition. The importance of water is manifested by the presence of the highest representatives of Japan in areas as diverse as health, labour and welfare; land, infrastructure and transportation; economy, trade and industry; and last but certainly not least environment. Sri Lanka and Denmark as hosts of the next main IWA Congresses & Exhibition will also contribute to the international dynamic of the ceremony.



Consciousness of Water

Rudy de Waele
Founder and CEO,
Shift 2020, Belgium

Rudy de Waele is a futurist, innovation strategist and change agent, content curator and author. He assists global brands, entrepreneurs and startups, companies and organisations with cutting edge open innovation strategy using new methodologies to re-invent and transform business. He has helped diverse global brands such as BMW, IBM, Coca-Cola, Google, Intel, Louis Vuitton, Mastercard, Microsoft, Orange, PayPal, Samsung, Telefonica, Vodafone and World Bank. His latest book *shift 2020 – How Technology Will Impact Our Future* delivers impactful insights into how future influences such as IoT, Genetics, Robotics and AI will have on our collective daily lives and includes foresights by some of the world's leading technology experts. He is an associate of The Futures Agency, a member of the IoT Council – a global think tank for the Internet of Things, and Strategic Advisor and Ambassador to Smart Cities World.

Workshops

High Quality Water Supply and Sewerage Systems in Japan - Innovative Technologies and Collaborative Practices

Room Reception Hall A / 13.00-14.30

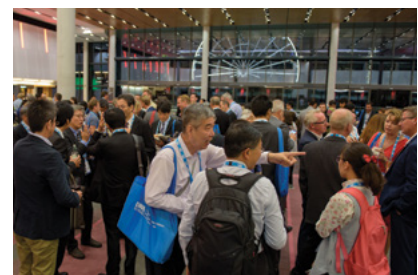
The session starts with an overview of the water supply and sewerage systems in Japan by Dr. FURUMAI Hiroaki (The University of Tokyo). Mr. KORESAWA Yuji (Ministry of Health, Labour and Welfare) will then present specifically on the water supply in Japan, followed by Mr. UEMATSU Ryuji (Ministry of Land, Infrastructure, Transport and Tourism) presentation on sewerage works in the country. Mr. KIMATA Masatoshi (Federation of Japan Water Industries, Inc.) will present on "How Japanese Industries are Striving for High-Quality Water Technology". The session ends with Dr. FURUMAI Hiroaki view on "Future Prospects of the Urban Water Infrastructure in Japan".

Make the Most Out of the Congress: First-Time Attendees

Room 101 / 14:30 - 15:45

Attending a congress takes you away from your job, study, or your family life, and we need to make the most of the congress to justify the attendance. But coming to an IWA congress for the first time, you may require some support to get connected, and to process all the types of session (workshops, training, forums, lectures) that will be held, the networking events that happen, the exhibition and what you can gain there, the apps/programme book and browsing through them. IWA members with experience in conference attendance will offer assistance.

Toasting Ceremony and Welcome Reception



Kagami Biraki Toasting Ceremony
18:20 – 18:30, Atrium

Welcome Reception
18:30 – 20:00, Exhibition Hall

An early opportunity to connect and network with other water sector professionals in a relaxed and informal setting. The Welcome Reception will take place in the 2018 World Water Congress Exhibition Hall, which will be the centre of networking throughout the week.

The 2018 IWA Awards

The IWA Awards are a vehicle through which IWA encourages and rewards innovation and sets international benchmarks for innovative thinking, and application of solutions for wise water management and practice. The awards recognise the broad range of excellence, leadership and innovation that IWA members and network participants bring both to our Association and to the industry at large, and they exist to encourage the continued role of innovation in contributing to the sustainable management of water.



IWA Global Water Award 2018
Professor Tony Wong
*Cooperative Research Centre
 for Water Sensitive Cities*

Over the past 30 years, Professor Wong has pioneered a programme of work — the water sensitive cities approach — that uses a unique socio-technical approach to concurrently address the social, environmental and economic challenges of traditional urban water management. This approach is the culmination of Professor Wong's significant achievements in research and development across technology, urban design and policy. These advances are not only significant, but have consistently reflected his foresight and creativity in generating new directions and potential solutions that push through barriers to better urban water management. His early work on water-sensitive urban design (WSUD) is now globally diffused, and his subsequent reimagining of WSUD within the water-sensitive cities approach has been mainstreamed across Australia and, increasingly, among developing nations.



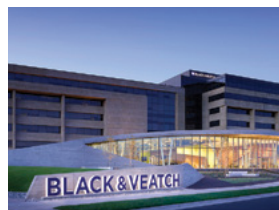
IWA Women in Water Award 2018
Professor Akiça Bahri
*National Agricultural
 Institute of Tunisia (INAT)*

Akiça Bahri, an agricultural engineer by training, has worked in water research in the fields of water resources development and management, agricultural use of marginal waters and biosolids, and their impacts on the environment with a focus on water quality and water use efficiency. She has been dealing with the double-sided problems of dwindling water resources and the risks of soil deterioration associated with land application of brackish and reclaimed waters and sewage sludge. She has a long-standing interest in how a more integrated approach to managing water, stormwater, wastewater, a fecal sludge, biosolids and solid wastes can contribute to meeting water demand and protecting the environment.



**IWA Young Leadership Award
 Winner**
Jacob Kwasi Amengor
Ghana Water Company

Jacob has secured land as a first step of achieving his vision of setting up a water research and management institute that will focus on carrying out research studies, training young professionals on varied areas within the water sector, organizing professional development courses and engaging industries and policy-makers to implement the outcomes of research studies for the sustainable development of the water and sanitation sector in Africa. Ultimately, Jacob wants to see an Africa where access to clean water and sanitation is no longer a reserve for the privileged few; rather, a human right realised for all regardless of place, class and status.



**IWA Professional Development
 Award**
Black & Veatch

Sustainability of its business and success is to Black & Veatch the people who research, develop, design, construct and manage them and the way the company provides them with career development opportunities. Black & Veatch does this through a robust career development program that features the rotational program EDGE (Experience, Develop, Guide, Excel), the connection inhouse programme for professionals and projects in needs of specific expertise NextOps. It further puts special attention to formation and matching career paths of and for project managers (PM). Further to these strong pillars of inhouse career the other remarkable career development component the company puts emphasis on are mentoring, onboarding programs, Growth Accelerator and leadership development.

Bureau of Sewerage Tokyo Metropolitan Government is

responsible for constructing, operating and managing Tokyo's sewerage system, which plays a vital role in ensuring a safe and pleasant living environment. We are promoting reconstruction of facilities, flood control, earthquake measures, combined sewer system improvement, advanced treatment, global warming measures etc.

Web address: <http://www.gesui.metro.tokyo.jp/english/>



Bureau of Sewerage
Tokyo Metropolitan Government

Wada-Yayoi Trunk Sewer

It is the biggest flood control storage sewer in Tokyo.

[Data]
Diameter 8.5m
Length 2.2km
Depth 50m(max)
Storage volume 150,000m³
PHOTO: Takuya Omura (dobohaku.com)

Bureau of Waterworks, Tokyo Metropolitan Government supplies high quality safe and tasty tap water as a lifeline to support civic life and urban activities in the capital of Japan.

In addition, we operate resilient and sustainable waterworks system which can endure various risks including disasters and climate change.

Stable Supply & High Quality



PURE TOKYO WATER

Bureau of Waterworks
Tokyo Metropolitan Government





Monday, 17 September

Track 1
WATER UTILITY
MANAGEMENT

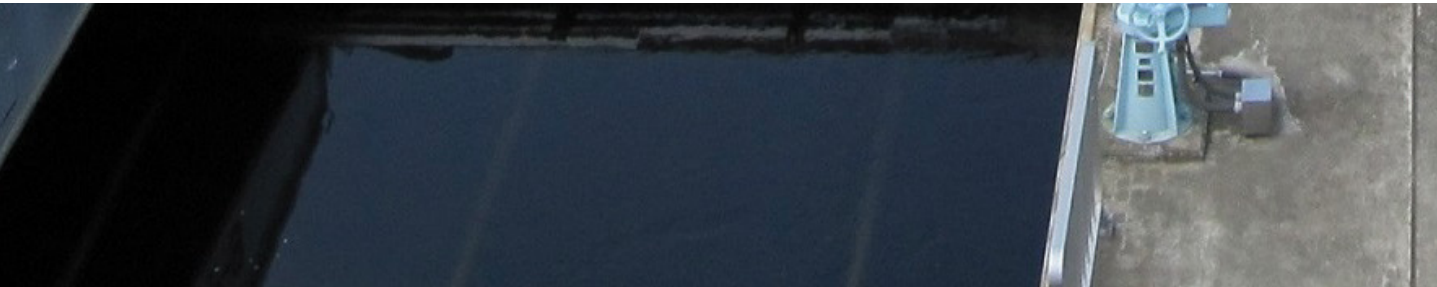
Track 2
WASTEWATER

Track 3
DRINKING WATER AND
POTABLE REUSE

Track 4
URBAN WATER
SYSTEMS

Track 5
COMMUNITIES,
INTEGRATED
PLANNING AND
THE ENABLING
ENVIRONMENT

Track 6
LARGE SCALE WATER
MANAGEMENT



Monday Spotlight

Keynote Plenary ▪ International Conference Room

09:00 - 09:45

Strengthening Water-related Disaster Resilience for Sustainable Development



Keynote speakers:

Yuriko Koike

Governor of Tokyo, Japan

Toshio Koike

Director, International Centre for Water Hazard and Risk Management (ICHARM)

17:15 - 17:45

Water Governance and Institutional Issues in Developing Countries



Keynote speaker:

Silver Mugisha

Chief Executive Officer, National Water and Sewerage Corporation, Uganda

Panel discussion:

Hamanth Kasan

General Manager, Scientific Services, Rand Water, South Africa

Eleanor Allen

CEO, Water for People, United States

Rosie Wheen

Chief Executive, WaterAid, Australia

Roshan Shrestha

Senior Program Officer/Lead, Urban Sanitation Market, Bill & Melinda Gates Foundation, United States

Marcus Rink

Chief Inspector for England and Wales, Drinking Water Inspectorate, United Kingdom

Rafaela Matos

Research Coordinator, LNEC, Portugal

Forum ▪ International Conference Room

09:45 - 17:15

Disaster Counter-measures and Risk Management towards Resilient Cities



The Forum focuses on the resilience of water supply, drainage and wastewater systems in cities. It is a unique opportunity to learn about the Japanese experience from the Great East Japan Earthquake in 2011 in recovering the functions of their water and sewerage works. The sessions also share practical experiences of several cities in the world on building water resilience strategies, understanding resilience as the capacity to recover after a disruptive event (disaster or crisis) or slow changes (diminishing resources, social changes, climate change). Lessons learned on how to assess the risks, how to reduce the risks and prepare for the emergency response will be shared throughout the three complementary sessions on the following topics:

1. Lessons learned from the Great East Japan Earthquake; the recovery of water and sewerage works
2. Enhancing water security
 - Water, wastewater and drainage as opportunities to enhance resilience

Please note that there will be simultaneous translation between Japanese and English. Arrive early to acquire your headsets for the entire forum.

IWA Pavilion

On Monday morning, join for a coffee at the IWA Pavilion and meet the newly appointed Emerging Water Leaders Steering Committee. Later in the day, seize the opportunity to exchange ideas with IWA President, Diane d'Arras and IWA Executive Director Kala Vairavamoorthy over lunch. Highlight is the partnership of IWA with the Chartered Institution of Water and Environmental Management; and the launch of the Lisbon Charter in Japanese. Be sure to check in for other activities planned such as book launches from IWA Publishing and pitches from IWA members!



Skill Development - Room 801

15:45 - 17:15

Publish in Style, a How To for Authors

Getting your work published is not easy! Ensuring your message comes across is not either. In this session we will be working with you on how to adapt your paper to the desired readership, whilst helping you to understand what a journal reviewer is looking for in a paper.



IWA Project Innovation Awards (PIA) Gala 2018 • Hilton Tokyo Odaiba

18:45 - Cocktail Reception

19:30 - Dinner and Awards Presentation

The Project Innovation Awards (PIA) recognise and promote excellence and innovation in water management, research and technology.

This year's revamped PIA programme features six exciting new categories, each recognizing a distinct aspect of water innovation. From breakthroughs in research to innovations in governance, the 2018 PIAs have truly gone global – attracting a record 160 entries from 45 countries. An expert panel of judges have selected three finalists for each category. The Category Winners will be announced at the Awards Presentation in Tokyo – and the best among them will be crowned winner of the new and exclusive Grand Innovation Award.

Introducing the Drs Kiran and Pallavi Patel Grand Innovation Award

Celebrating ground-breaking achievement in the global water sector, the inaugural Drs Kiran and Pallavi Patel Grand Innovation Award will be presented to the outstanding example of innovation selected from amongst the six PIA Category Winners.



Exhibition

12:00 - 13:30*

Denmark Pavilion Danish Approach to Energy Use and Recovery in the Water Sector

Presented by: Danish Minister, Water Utilities and Companies

Water is energy intensive; accounting for 2% and 4% of the total energy consumption in the world. In Denmark, energy efficiency and energy recovery in the water sector have high priority. The Danish approach to energy savings and recovery will be presented followed by concrete examples from major Danish wastewater treatment plants.



Monday

Programme

Keynote Plenary		09:00 - 09:45	
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
CUSTOMERS AND TARIFFS Chairs: Stuart White <i>Australia</i> and Aaron Burton <i>United Kingdom</i>		R. Hall A Technical	EMERGING CONTAMINANTS: TREATMENT Chairs: Despo Fatta-Kassinou <i>Cyprus</i> and Pernille Lyngsø Pedersen <i>Denmark</i>
10:30	How Water Utility Set Capital Costs in Water Tariff Raise Yoji Matsui <i>Public Utility Services Center Co., Ltd, Japan</i>		10:30 New Innovative Moving Bed Biofilm Reactor (MBBR) Concept Removes Pharmaceutical from Municipal Wastewater Using Only Bio Caroline Kragelund <i>Danish Technological Institute, Denmark</i>
10:45	Putting Social Franchising to Work In O&M in South Africa Jay Bhagwan Water Research Commission, South Africa		10:45 Sustainable Removal of Pharmaceuticals and Micro Pollutants in Effluent from Municipal WWTPs Elena Torresi Herning Vand A/S, Denmark
11:00	The Policies to Levy Unpaid Water Bills Akihiro Nagai <i>Osaka Municipal Waterworks Bureau, Japan</i>		11:00 Sustainable Treatment Systems for Removal of Pharmaceutical Residues and Other Priority Persistent Substances Christian Baresel IVL Swedish Environmental Research Institute, Sweden
11:15	Efforts by the Service Stations toward Progress an Accessible Service Base Susumu Sugiyama <i>Bureau of Waterworks, Tokyo Metropolitan Government, Japan</i>		11:15 Development of a Treatment Concept Based on Technically Modified Hybrid Filtration Systems for Indirect Potable Reuse Uwe Huebner <i>Technical University of Munich, Germany</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
WATER EFFICIENCY Chairs: Roland Liemberger <i>Austria</i> and Aaron Burton <i>United Kingdom</i>		R. Hall A Technical	COMMUNITY BASED PLANNING Chairs: Pat McCafferty <i>Australia</i> and Shaun Cox <i>Australia</i>
13:30	Clarification of The Actual Condition of Water Use Classified by Purpose at Home in Tokyo by Water Amount Measurement Naoki Hoso <i>Tokyo Metropolitan Government, Japan</i>		13:30 Challenge for Sustainable Drinking Water Management System in Rural Zone of Burkina Faso Ono Takeshi <i>Earth and Human Corporation, Japan</i>
13:45	Analysis of People Behaviour towards Water Conservation (Case Study) Ali Rostamiranagh <i>Rural Water & Wastewater Company, Iran</i>		13:45 Developing a New National Framework for Integrated Water Management: a Country Case Study Jong Ho Ahn <i>Korea Environment Institute, Republic of Korea</i>
14:00	The Household Water Consumption of Different Socioeconomic Classes in Selected Communities in Metro Manila, Philippines Roberto Soriano <i>University of the Philippines - Diliman, Philippines</i>		14:00 Community Engagement in River Restoration in Western Mexico Joshua Greene <i>University of Geneva, Switzerland</i>
14:15	Identifying the Key Motivations for High Water Use in Remote Indigenous Communities Using a Socio-technical Approach Cara Beal <i>Griffith University, Australia</i>		14:15 Planning for Water-Wise Cities in Victoria, Australia - Implementing an Integrated Water Management (IWM) Framework Abby Farmer <i>Victorian State Government Department of Environment Land Water and Planning, Australia</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
URBAN DRAINAGE Chairs: Mooyoung Han <i>Republic of Korea</i> and Jose Arturo Gleason <i>Mexico</i>		R. Hall A Technical	MODELLING FOR RESILIENCE Chairs: Jean Spencer <i>United Kingdom</i> and Chris Sweetapple <i>United Kingdom</i>
15:45	Damage Forecasting Formula Using Information on Sewer Facilities Tetsujiro Uehara <i>Tokyo Metropolitan Sewerage Service Corporation, Japan</i>		15:45 Ecosystem Services from Combined Natural and Engineered Treatment Systems - Understanding the Potential Heather Smith <i>Cranfield University, United Kingdom</i>
16:00	Urban Drainage Research: Quo Vadis? Jeroen Langeveld <i>TU Delft, Netherlands</i>		16:00 Reduce the Impact of Stormwater in the Ancient Part of the City of Antwerp Marjolaine Weemaes <i>Aquaflin nv, Belgium</i>
16:15	Quality Based Intelligence for Sewerage Systems Bruno Barillon <i>SUEZ, France</i>		16:15 Combining Risk and Futures Analyses to Increase Resilience of Water Utilities in the Short-, Mid- and Long-term Ana Luis EPAL - Empresa Portuguesa das Aguas Livres, Portugal
16:30	Dilution of Sewage: Impacts on The Urban Wastewater System Geert Dirckx <i>Aquaflin NV, Belgium</i>		16:30 Evaluating Water Supplies Based on Resilience to Climate Change and Ability to Meet Demand in African Cities Danlu Guo <i>University of Melbourne, Australia</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>			Plenary Room

Monday

Programme

Keynote Plenary		09:00 - 09:45	
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
POST SDGS FUTURE VISION CALL Chair: Hiroshi Yamamura <i>Japan</i> What should be our post-SDG vision towards 2050? The workshop starts preparing ideas towards post-SDGs. After inputs provided by speakers, participants will engage in dynamic roundtable discussions using apps to brainstorm water-related vision towards 2050. Collected ideas will be shared among IWA members during the Congress and be promoted widely afterwards. Speakers: Yasuhiro Asada , <i>National Institute of Public Health Japan-YWP Chair, (JP)</i> , Young Water Professional (YWP) (TBC) and Reporting from the UN High-Level Political Forum (TBC)		Room 101 Workshop	ENERGY EFFICIENCY & RECOVERY IN WASTEWATER MANAGEMENT Chairs: Marjolein Weemaes <i>Belgium</i> and Blanca Antizar-Ladislao <i>United Kingdom</i> 10:30 Sustainable Resources Recovery from Wastewater Using Microalgae Larissa Arashiro <i>Polytechnic University of Catalonia, Spain</i> 10:45 ANITA™ Mox Deammonification Process for THP Reject Water Hugues Humbert <i>Veolia, France</i> 11:00 Knowledge Integration, System / Process Approach and Internal Communication as Key Drivers to Energy Efficiency Pedro Fontes <i>EPAL S.A., Portugal</i> 11:15 Demonstration of Hydrogen Production Technology from Sewage Biogas Katsuaki Umezaki <i>Fukuoka City, Japan</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
HANDLING EMERGING SUBSTANCES IN THE URBAN WATERCYCLE Chair: Stefan Kools <i>Netherlands</i> What are the abatement options for the Urban Watercycle? Emerging substances in the watercycle are an issue of growing concern. When treating water, practitioners want to know how to handle emerging substances to improve water quality. Decision support systems, like Abates and Aquapriori, might be of help in this daunting task. At the same time innovative water treatment technologies are being developed, both on centralized and decentralized scale. In practice many problems are experienced with respect to emerging compounds in the watercycle and data is gathered about removal efficiencies. This workshop will focus on the improvement of existing decision support systems by sharing and implementing knowledge on novel technology based solutions and data from specific cases. Speakers: Jan Peter van der Hoek , <i>Waternet (NL)</i> , Regina Gnirss , <i>Berliner Wasser Betriebe, Kompetenzzentrum Wasser Berlin, (DE)</i> , Annemarie van Wezel , <i>KWR Watercycle Research Institute, (NL)</i> and Stefan Kools , <i>KWR Watercycle Research Institute, (NL)</i>		Room 101 Workshop	SULFUR CONVERSIONS Chairs: Catherine Mulligan <i>Canada</i> and Wilasinee Yoochatchaval <i>Thailand</i> 13:30 Enhanced Performance of Autotrophic Denitrification by Applying Micro-aerobic Condition Ruochen Zhang <i>Harbin Institute of Technology, China</i> 13:45 Comparison of the Robustness of the Microbial Selenium Removal Systems for Flue Gas Desulfurization Wastewater Hiroaki Kariyama <i>Kurita Water Industries LTD., Japan</i> 14:00 Innovative Biological Desulfurization System for Highly H ₂ S-laden Biogas Germán Buitrón <i>Universidad Nacional Autónoma de México, México</i> 14:15 Biocidal Effect of Sulfite on the Enhanced Methane Production from Waste Activated Sludge Feixiang Zan <i>Hong Kong University of Science and Technology, China</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
THE WAY FORWARD FOR MICROPOLLUTANT REMOVAL AT WWTPS Chair: Christian Baresel <i>Sweden</i> How to implement sustainable and effective micropollutant removal at WWTPs? The workshop looks at the way forward for the implementation of micropollutant removal at WWTPs. Examples from different countries are presented and discussed. The most appropriate way forwards to facilitate sustainable and effective solutions will be discussed in groups. Speakers: Christian Baresel , <i>IVL Swedish Environmental Research Institute (SE)</i> and Michael Cimbritz , <i>Lund university (SE)</i>		Room 101 Workshop	PRINCIPLES OF DATA MANAGEMENT - HOW COLLECTED DATA CAN BE USEFUL & RELIABLE Chair: Kris Villez <i>Switzerland</i> How can one collect data today to produce valued information in the future? In this workshop, focus is given to (i) meta-data selection and (ii) database structures as important elements of an overarching data management practice. Speakers: Kris Villez , <i>Eawag (CH)</i> and Peter A. Vanrolleghem , <i>Université Laval (CA)</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>			Plenary Room

Monday

Programme

Keynote Plenary		09:00 - 09:45	
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
INSTRUMENTATION, CONTROL & AUTOMATION IN TREATMENT PROCESSES Chairs: Gustaf Olsson <i>Sweden</i> and Ichiro Embutsu <i>Japan</i> 10:30 Further Investigation into the Roles of Dissolved Oxygen and Nitrite Accumulation Inside Sludge Flocs in N2O Production Xueming Chen <i>Technical University of Denmark, Denmark</i> 10:45 Aeration Testing as a Tool to Improve Oxygen Transfer and Process Optimization in WRRFs: the North American Experience Diego Rosso <i>University of California, United States</i> 11:00 Development of a Residence Time Distribution Technique Combined With CWM1 Ruth Stephenson <i>University of the Witwatersrand, South Africa</i> 11:15 Demonstration of Remote Monitoring and Controller Tuning Methods for Full-Scale Wastewater Treatment Plant Osamu Yamanaka <i>Toshiba Corporation, Japan</i>		Room 601 Technical	WATER MANAGEMENT IN: AGROINDUSTRIES / FOOD INDUSTRIES Chairs: Ioannis Alexiou <i>United Kingdom</i> and Shuzhao Pei <i>China</i> 10:30 Carbon, Nitrogen and Phosphorus Removal from Slaughtering Wastewater in a Full-scale Alure-type Biological System Shuang Tong <i>China Meat Research Center, China</i> 10:45 Treatment of Brewery Wastewater by UASB & CSTR AnMBR Pilots: Performances and Microbial Community Structures Richard Chen <i>University of Guelph, Canada</i> 11:00 Waste Milk Treatment With Microalgae Jun Okamura <i>Okayama University, Japan</i> 11:15 Treatment of Winery Wastewater Using a Biological Sand Filtration System Gareth Holtman <i>Cape Peninsula University of Technology, South Africa</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
PRINCIPLES OF ONLINE DATA VALIDATION - AN INTRODUCTION Chair: Kris Villez <i>Switzerland</i> How can I evaluate the quality of online sensor data? In this workshop, the main principles behind state-of-the-art data validation methods are explained and used in set of exercises in Matlab/Octave. Speakers: Kris Villez <i>Eawag (CH)</i> and Hong Quan Le <i>UGent (BE)</i> <i>*Before arriving to the workshop, participants are asked to (1) bring their own laptop to the workshop, (2) download the required software package from https://gitlab.com/krisvillez/datavalidationworkshop (available September 1st, 2018) and (3) follow the instructions in the README.md file of this package</i>		Room 601 Workshop	INDUSTRY ONSITE RECYCLING & ZERO DISCHARGE Chairs: Josef Lahnsteiner <i>Austria</i> and Haim Cikurel <i>Israel</i> 13:30 Water Recycling Milestone Projects In Indian Refining And Petrochemical Industry Josef Lahnsteiner <i>VA TECH WABAG, Austria</i> 13:45 Comparison Of Copper Removal By Replacement/precipitation Reaction Using Ferric And Ferrous Salts Yao-Hung Chen <i>Tamkang University, Chinese Taipei</i> 14:00 Brine Concentration For Seawater Desalination Using Counterflow Reverse Osmosis Andrew Bouma <i>Massachusetts Institute of Technology, United States</i> 14:15 Green Synthesis Of Nano-sized Iron-bearing Adsorbent With Tea Extract And CEPT Supernatant For Cr(VI) Removal Yi-bo Hu <i>The University of Hong Kong, China</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
WHAT WATER TECHNOLOGISTS SHOULD KNOW ABOUT ADVANCED PROCESS MODELLING THAT WILL ACCELERATE THEIR DESIGN AND SCALE-UP EFFORTS Chair: Ingmar Nopens <i>Belgium</i> How to optimally design and operate current and future technologies for water treatment and resource recovery? This workshop will show practitioners the current and future value of specific modelling frameworks (kinetic, computational fluid dynamics (CFD), population balance models (PBM)) by means of practical pilot- and full-scale examples. Furthermore, participants will be solicited to think through their current and future process train in order to spot opportunities for innovation and needs for research. Speakers: Dr. Wim Audenaert , <i>AM-Team, (BE)</i> , Dr. Usman Rehman , <i>AM-Team, (BE)</i> , Prof. Krist Gernaey , <i>DTU, (DK)</i> and Dr. Jim Wicks , <i>The FluidGroup, (UK)</i> <i>More information: biomath.ugent.be/IWA_WWC_tokyo_workshop</i>		Room 601 Workshop	WATER RECLAMATION FOR NON-POTABLE REUSE Chairs: Maria Joao Rosa <i>Portugal</i> and Guihe Tao <i>Singapore</i> 15:45 Removal of Pathogens and Antibiotic Resistance Genes by A Multi Barrier System for Wastewater Reuse Claudio Di Iaconi <i>Water Research Institute-CNR Italy</i> 16:00 Bacterial Community Composition in the Recycled Water Distribution System & Their Role in Instability of Water Quality Bal Krishna K C <i>Western Sydney University, Australia</i> 16:15 Contribution of Specific Interactions Between Human Enteric Viruses and Wastewater Solids on Virus Removal Mohan Amarasingi <i>Tohoku University, Japan</i> 16:30 Presence and Natural Treatment of OMP After 100 Years of Incidental Water Reuse In Agricultural Irrigation Ines Navarro <i>Universidad Nacional Autonoma de Mexico Mexico</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>			Plenary Room

Monday

Programme

Keynote Plenary	09:00 - 09:45		
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
PROCESS SYNTHESIS, DESIGN AND CONTROL OF NEXT GENERATION RESOURCE RECOVERY & WASTEWATER TREATMENT PLANTS (WWTPS) Chair: Gürkan Sin <i>Denmark</i> Can process systems engineering tools help with developing next generation resource recovery & wastewater treatment plants? <p>The workshop starts with a general introduction to resource recovery paradigm both at industrial and municipal wastewater. Then process synthesis and design tools, namely, decision support tools (DSS) and the superstructure based optimization method and tool for process synthesis/design and plantwide dynamic modeling for benchmarking and control of innovative solutions will be presented using a demo of the tool. The panel will then review and discuss the field and future of wwtp process design and integration.</p> Speakers: Krist Gernaey <i>Technical University of Denmark (DK)</i> , Juan Antoni Baeza <i>Universitat Autònoma de Barcelona (ES)</i> , Gürkan Sin <i>Technical University of Denmark (DK)</i> and Francesco Fattone <i>Università Politecnica delle Marche (IT)</i>		Room 605 Workshop	ASSESSING LOG REDUCTION VALUES FOR DRINKING WATER TREATMENT TECHNOLOGIES Chair: Jennifer De France <i>Switzerland</i> <p>The WHO Guidelines for Drinking-water Quality (GDWQ) includes summary tables on log reduction values (LRVs) for bacteria, viruses and protozoa, that can be achieved by common water treatment technologies, for both large drinking-water treatment plants as well as at the household level. The need to update these tables has been highlighted. This workshop will brief participants on the work conducted to date on the revision of these treatment tables. The session aims to bring together water utilities, regulators and researchers, to discuss challenges in interpreting the data, identify research needs, opportunities to improve water treatment efficacy studies and feedback will be sought to inform the revision of these tables to increase their usefulness for policy makers and practitioners.</p> Speakers: Jennifer De France <i>World Health Organization, (CH)</i> , Karl Linden <i>University of Colorado, Boulder, (US)</i> , David Cunliffe <i>South Australia Health, (AU)</i> and Dai Simazaki <i>National Institute of Public Health, (JP)</i>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
TOWARDS A NEXT GENERATION OF WATER SYSTEMS AND SERVICES FOR THE CIRCULAR ECONOMY Chair: Jos Frijns <i>Netherlands</i> Which technologies, governance arrangements and business models are needed to upscale circular water solutions? <p>The workshop looks at next generation circular water technologies and discusses the conditions for successful application. After a presentation on the importance of stakeholder engagement through serious gaming and an introduction an exploitation through a circular economy marketplace, a panel discussion sets the scene for further dialogue.</p> Speakers: Dragan Savic <i>KWR, (NL)</i> , Christos Makropoulos <i>KWR, (NL)</i> , Jan Hofman <i>University of Bath, (UK)</i> and Jean-Pierre Tabuchi <i>SIAAP, (FR)</i>		Room 605 Workshop	WATER INFRASTRUCTURE ASSET MANAGEMENT & MAINTENANCE SOLUTIONS Chair: Eddie Tsyrlin <i>Australia</i> 13:30 Study on Deterioration Causes of Water Retaining Structures and Effective Maintenance Procedure as a Countermeasure Satoshi Iwatsubo <i>Nihon Suido Consultants Co., Ltd, Japan</i> 13:45 Application of Innovative Seismic Design Method to the Purification Facilities on Liquefied Ground Mitsuyasu Tamase <i>Osaka Municipal Waterworks Bureau, Japan</i> 14:00 Probabilistic Long Term Simulations for Performance Comparison of Water Network Asset Management Strategies Yves LeGat <i>IRSTEA, France</i> 14:15 Implementation of Premeditated Cleaning Work to the Aging Water Pipeline Yuta Yokoyama <i>Waterworks Bureau, Japan</i>
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
FROM INNOVATION PARTNERSHIPS TO CITIZEN INVOLVEMENT IN THE MODERN WATER SECTOR Chair: Anja Wejs <i>Denmark</i> and Carolina Latorre <i>Netherlands</i> How do the water sector incorporate the needs, concerns and views of various stakeholder groups to move from information to an actual voice in the process? <p>This workshop presents examples of stakeholder involvement processes at various stages of water service provision; and invites participants to join in an exercise to inspire, be inspired and to involve stakeholders in new ways.</p> <p>This workshops is co-organised by IWA, IWA Public and Customer Communication Specialist Group, IWA Statistics and Economics Specialist Group, Stockholm International Water Institute (SIWI) and Central Denmark Region.</p> Speakers: Alejandro Jiménez <i>Stockholm International Water Institute (SIWI), (SE)</i> , Anja Wejs <i>NIRAS/C2C CC, (DK)</i> , Lars Holmegaard <i>Lemvig Water Utility, (DK)</i> and Theodor Popa <i>Statistics and Economics Specialist Group, (RO)</i>		Room 605 Workshop	INTERNATIONAL APPROACHES TO WATER EFFICIENCY LABELLING Chair: Aaron Burton <i>United Kingdom</i> <p>Water efficiency product and service labelling schemes have been shown to be an essential element in effective water demand management strategies. These schemes vary from voluntary to mandatory and ratings to a checkmark based approach. Several workshops were held on labelling at IWA Efficient 2017. Through a panel discussion members working on the range of schemes agreed it would be useful to create a working group to compare labelling approaches and best practice. This workshop will further the discussion between stakeholders and disseminate the results of a report developed by the working sub-group. Labelling schemes have been shown in the USA and Australia to have significant benefits for reducing water and energy use, carbon emissions and reducing household bills. The International Standards Organisation agreed in January 2018 to develop a water labelling standard. This workshop will provide a forum to discuss the policy aspects of labelling linked with wider sustainable water management strategies.</p> Speakers: Carol Grossman <i>(AU)</i> , Chris Philpott <i>(UK)</i> , Joanne Chong <i>UTS (AU)</i> and Aaron Burton <i>Waterwise, (UK)</i>
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>		Plenary Room	

Monday

Programme

Keynote Plenary	09:00 - 09:45		
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
CLIMATE CHANGE ADAPTATION THROUGH APPLICATION OF LOW IMPACT DEVELOPMENT STRATEGIES AND GREEN INFRASTRUCTURES Chair: Mi-Hyun Park <i>United States</i> How to protect water resources by creating water-wise cities? Land use and climate change affect the natural hydrology and non-point source pollution transport as manifested by water quality deterioration and imbalance in ecosystem services. This special session is part of the series of special sessions conducted in different conferences and congress including IWA-WWC, IWA-DIPCON and KIWWV conducted in October 2016, August 2017, and September 2017, respectively. Discussions will be mainly focused on LID, GI, SUDs, and WSD applications on water-wise cities that promote climate change adaptation. Speakers: Kim Lee-Hyung , <i>Kongju National University, (KR)</i> , Ralf Kunkel , <i>Research Centre Juelich, (DE)</i> , Fumiyuki Nakajima , <i>University of Tokyo, (JP)</i> , Fiona Napie , <i>Scottish Environmental Protection Agency (SEPA), (GB)</i> , Michael Stenstrom , <i>University of California-Los Angeles, (US)</i> , Li Xuyong , <i>Chinese Academy of Sciences, (CN)</i> and Marla Redillas , <i>De La Salle University-Manila, (PH)</i>		Room 607 Workshop	UTILITIES STRIVING TOWARDS ENERGY / CARBON NEUTRAL URBAN WATER SERVICES Chairs: Ying-Chu Chen <i>Taiwan</i> and John Buur Christiansen <i>Denmark</i> 10:30 Development of an Innovative Micro Hydropower System and Field Tests at the Waterworks Facilities in KOBE Yuzo Sawada <i>DAIKIN Industries LTD, Japan</i> 10:45 Increasing Energy Efficiency in Water Collection - Practice Examples from Two Metropolitan Areas in Germany: Hamburg and Berlin Mathias Ernst <i>DVGW-Forschungsstelle TUHH, Germany</i> 11:00 Achieving Energy Neutrality: Setting a Vision and Empowering Your Staff Tim Constantine Jacobs 11:15 Effective Utilization of Unused and Renewable Energy for Greenhouse Gas Emissions Reduction Yuki Honda <i>Bureau of Waterworks, Tokyo Metropolitan Government, Japan</i>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
ALGAE, TASTE, ODOR & TOXIN CONTROL Chairs: Hiroshi Sakai <i>Japan</i> and Abidelfatah Nasse , <i>Israel</i> 13:30 Degradation Mechanism of Two Algal Odorants, -cyclocitral and -ionone During UV Photolysis and UV-chlorination Tae-Kyoung Kim <i>Seoul National University, Republic of Korea</i> 13:45 Korea's First Full Scale UV AOP System Put to the Test - Development of a Novel Control Philosophy for UV Based AOPs Taeyoung Choi <i>Korean National University of Transportation, Republic of Korea</i> 14:00 Chlorination-UV Process for Decomposition and Detoxification of Microcystin-LR Xinran Zhang <i>Sun Yat-sen University, China</i> 14:15 Modelling the Impact of NaOCl on Cell Integrity, Toxin Release and Degradation for Colonial Microcystis in Natural Water Yi-Ting Chiu <i>National Cheng Kung University, Chinese Taipei</i>		Room 607 Technical	INTEGRATION OF DECENTRALISED SOLUTIONS & PRIVATE SECTOR STRATEGIES IN CENTRALISED SYSTEMS Chairs: Robert Renner <i>United States</i> and Christian Loderer <i>Germany</i> 13:30 Trying to Fit a Square Peg in a Round Hole - Integration of a Decentralised Solution Into an Urban Renewal Environment Chris Hertle <i>GHD, Australia</i> 13:45 Framework for City-scale Simulation of Sustainable Water Technologies Joseph Hook <i>University of Sheffield, United Kingdom</i> 14:00 Research of Capacity Assessment Tool for Private Sector Participation in Water Supply Services Junya Yamada <i>NJS CO.,LTD, Japan</i> 14:15 The Danish National Network of Test Sites for Development of Environmental Technology Hasse Milter <i>Region Zealand, Denmark</i>
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
RISK ASSESSMENT & TOXICOLOGY Chairs: Andreas Farnleitner <i>Austria</i> and Hiroyuki Katayama <i>Japan</i> 15:45 Flow Behaviour of Perchlorate From a Source Lake to Water Supply Tap Following a Fireworks Display Takahiro Yokoi <i>Kyoto Municipal Waterworks Bureau, Japan</i> 16:00 Photodegradation of (E)- and (Z)-Endoxifen by UV Light: Performance, By-products and Toxicity Assessment Eakalak Khan <i>University of Nevada, United States</i> 16:15 Toxicological Contributions of Transformation Products Derived from Organophosphorus Pesticides During Chlorination Kei Ohmori <i>Hokkaido University, Japan</i> 16:30 Medium Pressure UV Activated Peroxymonosulfate for Ciprofloxacin Degradation: Kinetics, Mechanism and Toxicity Xiu-wei Ao <i>Tsinghua University, China</i>		Room 607 Technical	ECONOMIC EVALUATIONS & FINANCIAL INCENTIVES TO SUPPORT COMMUNITY / CITY BENEFITS & OUTCOMES Chair: Kazuya Naito <i>Japan</i> 15:45 Alleviate Water Scarcity in Iran With Virtual Water Trade and Water Market Allocation Mohammad Safaian <i>Water & Wastewater Company of Semnan Province, Iran</i> 16:00 A New Way to Measure the Value a Water Company Delivers Francis Pamminger <i>Yarra Valley Water, Australia</i> 16:15 The Economic Value of River Restoration: A Global Meta-Analysis Roy Brouwer <i>The Water Institute, Canada</i> 16:30 Estimating the Economic and Environmental Impacts of Increased Energy Efficient and Inflated WWS Grid in Brazil Gilvan Guedes <i>Cedeplar/UFGM, Brazil</i>
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>		Plenary Room	

Monday

Programme

Keynote Plenary	09:00 - 09:45		
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
APPROPRIATE TARIFF SETTING AND IMPROVEMENT OF CUSTOMER PERCEPTION TOWARDS SUSTAINABLE WATER SUPPLY Chair: Ikuo Miit Mitake <i>Japan</i> What are the keys to achieve the sustainable water supply? The workshop introduces the works on securing appropriate tariff levels and the measures taken to improve the customer perception in each country. Appropriate tariff settings and stable tariff collection enable reinvesting in aging facilities and finding ways towards sustainable financial management. Speakers: <i>American Water Works Association (AWWA), (US), Chinese Taiwan Water Works Association (CTWWA), (CN), Thai Waterworks Association (TWA), (TH) and Vietnam Water Supply and Sewerage Association (VWSA), (VN)</i>		Room 609 Workshop	
INTERMITTENT WATER SUPPLY (IWS) - A PARADIGM SHIFT IS IMPERATIVE Chair: Bambos Charalabous <i>Cyprus</i> How do we sustainably improve IWS conditions which would lead to better level of service and ultimately to continuous water supply? The workshop looks at the Intermittent Water Supply (IWS) issues in cities around the world which are faced with a range of pressures resulting from population growth, climate change and deterioration of their water systems and the need to improve the level of service to the customers. It aims to provide solutions to the design and control of these systems and practical options for transitioning to 24/7. Speakers: <i>Prof. Kala Vairavamoorthy, IWA (NL), Prof. S. Mohan, Indian Institute of Technology (IN), Prof. Nemanja Trifunovic, IHE Delft Institute for Water Education (NL), Mahmood Lutaaya, National Water and Sewerage Corporation of Uganda (UG) and Water Service Association of Australia (WSAA) (AU)</i>			Room 610 Workshop
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
NATURE BASED SOLUTIONS: ENGINEERING APPROACHES TO INTEGRATING GREEN AND GREY INFRASTRUCTURE FROM CATCHMENT TO CONSUMER Chair: Florent Chazarenc <i>France</i> How can NBS be implemented into integrated water management strategies? Green infrastructure can complement and enhance grey infrastructure to provide water supply, improve water quality and manage extreme events. Investment in green infrastructure is increasingly seen as a way to address local (urban and rural) water challenges such as floods, supply shortages, or water quality degradation. Globally, a range of methods are applied at local levels to restore watersheds through reforestation, reducing erosion from arable land or protecting riverine riparian zones, and controlling urban and agricultural diffuse pollution. The workshop will examine and share experiences on the evidence base to integrate green infrastructure into water management. Speakers: <i>Florent Chazarenc, Irstea, (FR), Prof. Mooyoung Han, Professor, Seoul National University, (KR) and Prof. Francesco Fatone, Università Politecnica delle Marche, (IT)</i>		Room 609 Workshop	
			Room 610 Technical
		BLUE-GREEN INFRASTRUCTURE Chairs: Stanley Liphadzi <i>South Africa</i> and Jesper Goodley Dannisoee <i>Denmark</i> 13:30 Evaluation On The Long-term Performance Of Infiltration And Non-infiltration Urban Stormwater Green Infrastructures Franz Kevin Geronimo Kongju <i>National University, Republic of Korea</i> 13:45 RESCCUE Project (RESilience To Cope With Climate Change In Urban ArEas) - First Results In Barcelona, Bristol And Lisbon Xavier Bernat <i>CETaqua Water Technology Centre, Spain</i> 14:00 A Place For SuDS? Assessing The Effectiveness Of Delivering Multifunctional Sustainable Drainage Alastair Chisholm <i>The Chartered Institution of Water and Environmental Management, United Kingdom</i> 14:15 Performance Of A Pilot-scale Wall Cascade Constructed Wetland Treating Kitchen Greywater Maurizio Borin <i>University of Padova, Italy</i>	
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
NATURE BASED SOLUTIONS: FINANCIAL AND REGULATORY INCENTIVES FOR GREEN INFRASTRUCTURE IN WATER UTILITIES Chair: Katharine Cross <i>Thailand</i> What incentives can enable water utilities to integrate nature based solutions into their operations and planning? Incentive mechanisms can provide flexibility and creativity to tailor programmes to specific priorities or to particular geographic areas in a community. This workshop focuses on the enabling conditions including the financial and regulatory incentives that can support investment and application of natural/green infrastructure to improve water security and safety. Speakers: <i>Aparna Sridhar, The Nature Conservancy (USA), Hannah Leckie, OECD (FR), Peter Simpson, Anglian Water (UK), Yang Villa, Metro Pacific Water (PH) Rianna Gonzales, Water Resources Agency (TT), Seamus Parker, Queensland Treasury Corporation (AU) and Daniel Shemie, The Nature Conservancy (USA)</i>		Room 609 Workshop	
			Room 610 Workshop
		BEST PRACTICE FOR SOCIAL MEDIA IN THE WATER SECTOR Chair: Abby Crisostomo <i>United Kingdom</i> How can the water sector effectively use social media for engagement? This session will share best practice for effective use of social media for engagement in the water sector collected by the Public & Customer Communications SG. Participants will learn how to develop a social media content plan based on a value proposition, a strategic document that helps guide communication plans. Speakers: <i>Abby Crisostomo, IWA Public & Customer Communications SG, (UK) and Dr Peter Prevos, Coliban Water, (AU)</i>	
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>		Plenary Room	

Monday

Programme

Keynote Plenary	09:00 - 09:45		
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>			Plenary Room
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
DISASTER COUNTER-MEASURES AND RISK MANAGEMENT TOWARDS RESILIENT CITIES FORUM * Chair: Lisa Andrews <i>Netherlands</i> Lessons learned from the Great East Japan Earthquake, The recovery of water and sewerage works <p>In 2011, a magnitude-9 earthquake struck off the northeast coast of Japan, triggering a massive tsunami of up to 30 metres high, reaching up to 5 kilometers inland (UNEP, 2011). Thousands of people were killed, buildings were destroyed, and millions of tons of waste littered the country. Severe damage to water supply and sewage networks resulted in a succession of issues of service provision to citizens. In this session, we will first learn more about the context of the earthquake. Next, we will hear from leading water professionals in Japan on the emergency response of the waterworks and sewerage works services. Finally, there will be a panel discussion on the key lessons learned from the disaster recovery as take home messages on planning and adapting to disasters in the future.</p> Speakers: <i>Miyajima Masakatsu, Kanazawa University (JP), Kunihiro Onuma, Sendai City Waterworks Bureau (JP), Ishii Hiroyuki, Ministry of Land, Infrastructure, Transport and Tourism (JP) and Tsutomu Sakagawa, Japan Environmental Sanitation Center (JP)</i>		Room ICR Forum	
BENCHMARKING OF WATER UTILITIES Chairs: Francisco Cubillo González <i>Spain</i> and Peter Dane <i>Netherlands</i> 10:30 Largest WWTP Operated by Suez on the French Market: Emphasizing OPEX, Energy Efficiency and Sludge Disposal <i>Sylvain Donnaz Suez International, RUEIL-MALMAISON, France</i> 10:45 Benchmarking Large Town Water Supply Systems with Water Quality Tests and a Consumer Survey In Nepal <i>Ryuji Ogata Japan International Cooperation Agency, The University of Tokyo, Japan</i> 11:00 Enhancing the Quality and Improvement of the Waterworks Services <i>Ikuo Mitake Japan Water Works Association, Japan</i> 11:15 Evaluating the Indicators Applied to Medium Size Water Supply Systems in Developing Countries <i>Marcelo Libânio UFMG, Brazil</i>			Room 701 Technical
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
DISASTER COUNTER-MEASURES AND RISK MANAGEMENT TOWARDS RESILIENT CITIES FORUM * Chair: Lisa Andrews <i>Netherlands</i> Enhancing Water Security <p>The second session of the Disaster Counter-Measures and Risk Management towards Resilient Cities Forum will focus on ensuring resilience of water supply systems. What are the risks and how can they be absorbed by existing systems? What are ways to prepare to reduce the risks and recover rapidly after a shock? We will hear from leading water professionals on how water supply systems, integrated with other urban water services and sectors, can ensure overall resilience in cities today and in the future. Examples will be illustrated from cities in Japan, Central America, Asia, the U.S., and Europe.</p> Speakers: <i>Jakob Ellemann-Jensen, Minister for Environment and Food of Denmark (DK), Mark Fletcher, Arup (UK) and Hideyuki Aoki, Bureau of Waterworks, Tokyo Metropolitan Government (JP)</i>		Room ICR Forum	
PLANT & PROCESS PERFORMANCES: HOW CAN WE COMPROMISE CHEMICAL CONSUMPTIONS & WATER QUALITY Chairs: Norbert Jardin <i>Germany</i> and Hiroyasu Sato <i>Japan</i> 13:30 Multiple Reuse Of Iron Salts In Urban Water Management: A Full-scale Case Study <i>Sirajus Salehin The University of Queensland, Australia</i> 13:45 Investigation Of Removal-inactivation Ratio Of Cryptosporidium For QMRA <i>Kazuhiro Ehara Tokyo Metropolitan Government, Japan</i> 14:00 Achieving < 50µg/L Effluent Arsenic Concentration With Fixed Bed Granular Ferric Hydroxide Reactor In Hashrood Of Iran <i>Ali Rostamiiranagh Rural Water & Wastewater Company, Iran</i> 14:15 A Simple Strategy To Optimise Alum Application For Phosphate Removal From Municipal Wastewater - Towards Cost Savings <i>Maneesha Ginige CSIRO, Australia</i>			Room 701 Technical
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
DISASTER COUNTER-MEASURES AND RISK MANAGEMENT TOWARDS RESILIENT CITIES FORUM * Chair: Lisa Andrews <i>Netherlands</i> Water, Wastewater and Drainage as opportunities to enhance resilience. <p>The third and last session of the Forum will broaden out on resilience strategies of the whole urban water cycle: water, wastewater and urban drainage services, and how innovative methods of integrated planning may contribute to and enhance the resilience of water services and the city as a whole. The risks to the entire urban water cycle will be considered, along with the capacity to bounce back from a disaster. A systems thinking approach will be explored, with examples from cities in Asia, Australia, and the UK.</p> Speakers: <i>Masataka Ikeda, Bureau of Sewerage Tokyo Metropolitan Government (JP), John Curtin, Environmental Agency and Tony Wong, CRCWSC (AU)</i> <p><i>* You can find the abstracts for each of the speakers in this session on IWA Connect on the Water Security and Safety Management Specialist Group</i></p>		Room ICR Forum	
CHEMICAL DRINKING WATER TREATMENT – OPTIMISATION Chairs: Saburo Matsui <i>Japan</i> and Kenichi Yoshizawa <i>Japan</i> 15:45 Onsite Chlorine Generation For Drinking Water Treatment In Hong Kong <i>Tai On Lee HKSARG, Hong Kong</i> 16:00 Combining Ion Exchange And Coagulation/floatation For Enhanced Natural Organic Matter Removal In Drinking Water Treatment <i>Liesbeth Verdickt De Watergroep, Belgium</i> 16:15 Study Of Ozone-Based Advanced Oxidation Process Control By Using Bromate Ion Sensor In Japan <i>Kyungju Kim METAWATER Co., Ltd., Chiba, Japan</i> 16:30 Preventing Water Crises: The SMART Approach To Effective Treatment Operation <i>Alex Yavich Optimization Solutions Environmental, LLC, United States</i>			Room 701 Technical
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>			Plenary Room

Monday

Programme

Keynote Plenary		09:00 - 09:45	
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
APPLICATION OF ICT FOR UTILITY MANAGEMENT Chair: Peter Prevos <i>Australia</i> and Nobuyuki Kawagoe <i>Japan</i> 10:30 Example of the Utilization of Big Data for Workforce Management in the Call Center of the Tokyo Waterworks Hiroki Ookubo <i>PUC Co.,Ltd, Japan</i> 10:45 Ensuring Stable Water Supply by Centralized Administrative Control Over a Large-Scale Water Supply Network Hiroshi Taniguchi <i>Tokyo Metropolitan Government, Japan</i> 11:00 ICT Frameworks - Moving Towards Smart Water Networks Klavs Høgh <i>NIRAS, Denmark</i> 11:15 Are Urban Water Distribution Systems "Smart"? A Roadmap of R&D Priorities Towards a Digital Transformation of Utilities Andrea Cominola <i>Technische Universität Berlin, Germany</i>		Room 703 Technical	SOLVING COMPLEX WATER PROBLEMS - YOUR TOOLKIT I Chair: Randolf Webb <i>Switzerland</i> What fundamental concepts are key to solving complex water challenges? The workshop "Solving Complex Water Problems: Your Toolkit" will teach participants how to structure complex problems, prioritize issues, solve high priority components, and then communicate the solution in a structured manner. These learnings will then be applied to solving some of the most complex challenges in the water sector. Speakers: Tom Mollenkopf <i>Peter Cullen Water and Environment Trust, (AU)</i> , Joan Rose <i>Michigan State University (USA)</i> , Shuping Lu <i>Xylem (CN)</i> and Jean Spencer <i>Anglian Water Group (UK)</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
NON REVENUE WATER MANAGEMENT Chairs: Roland Liemberger <i>Austria</i> and Ed McCormick <i>United States</i> 13:30 Perpetual Challenge for Zero Non-Revenue Water Rate Toshimichi Sayama <i>Tokyo Metropolitan Government, Japan</i> 13:45 Boosting Network Efficiency through Real-time Monitoring Ana Rita Santos <i>AGS - Administração e Gestão de Sistemas de Salubridade S.A., Portugal</i> 14:00 Ten Reasons to Avoid Intermittent Water Supply Bambos Charalambous <i>Hydrocontrol, Cyprus</i> 14:15 Automatic Detection of Post Meter Leakages Enables Reduced Water Losses and Costs for Urban Residential Water Users Andrea Cominola <i>Politecnico di Milano, Italy</i>		Room 703 Technical	SOLVING COMPLEX WATER PROBLEMS - YOUR TOOLKIT II Chair: Randolf Webb <i>Switzerland</i> What fundamental concepts are key to solving complex water challenges? The workshop "Solving Complex Water Problems: Your Toolkit" will teach participants how to structure complex problems, prioritize issues, solve high priority components, and then communicate the solution in a structured manner. These learnings will then be applied to solving some of the most complex challenges in the water sector. Speakers: Tom Mollenkopf <i>Peter Cullen Water and Environment Trust, (AU)</i> , Joan Rose <i>Michigan State University (USA)</i> , Shuping Lu <i>Xylem (CN)</i> and Jean Spencer <i>Anglian Water Group (UK)</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
LEAKAGE DETECTION & SOLUTIONS Chairs: Stuart Stapely <i>Australia</i> and Yoshiro Abe <i>Japan</i> 15:45 Water Leak Survey Method Using Leak Checker with Time Integration Containing the Noise Recording Function Takeo Sakamoto <i>TSS Tokyo Water Co., Ltd, Japan</i> 16:00 Preventive Measures Against Water Leakage in Tokyo Takeshi Okabe <i>Bureau of Waterworks, Tokyo Metropolitan Government, Japan</i> 16:15 The Transition from Manual Leakage Management to Automatic Leakage Management Using Multiple Data Sources Kristiane Jensen <i>Greater Copenhagen Utility, Denmark</i> 16:30 An Analysis of Water Pipeline Leak Discrimination Models Using Sound Data Yasuhiro Arai <i>Tokyo Metropolitan University, Japan</i>		Room 703 Technical	PUBLISH IN STYLE, A HOW TO FOR AUTHORS Chair: Michelle Herbert <i>United Kingdom</i> How can you make your paper interesting to readers? Getting your work published is not easy! Ensuring your message comes across is not either. In this session we will be working with you on how to adapt your paper to the desired readership, whilst helping you to understand what a journal reviewer is looking for in a paper. Speakers: Gustaf Olsson <i>Lund University (SE)</i> , Wolfgang Rauch <i>University Innsbruck (AT)</i> and Zhiguo Yuan <i>University of Queensland (AU)</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>			Plenary Room

Monday

Programme

Keynote Plenary	09:00 - 09:45	
Strengthening Water-related Disaster Resilience for Sustainable Development Toshio Koike <i>Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan</i> and Yuriko Koike <i>Governor of Tokyo, Japan</i>		
Coffee Break	09:45 - 10:30	
Session 1	07:30 - 12:00 *	
DELIVERING REGULATORY EXCELLENCE IN WATER ENERGY NEXUS Organiser: International Centre of Regulatory Excellence (ICORE) Trainer: Dr. Kevin Parks <i>P.Geol. Alberta Energy Regulator, Chief Geologist, Canada</i> <p>The water-energy nexus represents the interlinkages between water supply and energy development. Energy systems like hydrocarbons, nuclear energy, hydroelectricity and renewables require water. Their development interacts with and can alter the water systems they depend on. These alterations can diffuse into other sectors like environmental protection, municipal supply, water for recreation, and agriculture. Trade-offs between benefits and risks are made by regulatory agencies acting in the public interest to manage these impacts. This is difficult work. Success demands excellence in water regulation. But what makes an excellent regulator? In short, the attributes are integrity, competence, and empathy. In this seminar, the attributes of regulatory excellence are defined and their application to problems in regulation in the water-energy nexus will be demonstrated. Case studies and practical examples will be presented as well as theory, so participants will take away new ideas and tools to improve their own regulatory frameworks.</p> <i>Registration is required</i>		Room 802 Training
Lunch	12:00 - 13:30	
Session 2	13:00 - 16:30 *	
DELIVERING REGULATORY EXCELLENCE IN WATER ENERGY NEXUS Organiser: International Centre of Regulatory Excellence (ICORE) Trainer: Dr. Kevin Parks <i>P.Geol. Alberta Energy Regulator, Chief Geologist, Canada</i> <p>The water-energy nexus represents the interlinkages between water supply and energy development. Energy systems like hydrocarbons, nuclear energy, hydroelectricity and renewables require water. Their development interacts with and can alter the water systems they depend on. These alterations can diffuse into other sectors like environmental protection, municipal supply, water for recreation, and agriculture. Trade-offs between benefits and risks are made by regulatory agencies acting in the public interest to manage these impacts. This is difficult work. Success demands excellence in water regulation. But what makes an excellent regulator? In short, the attributes are integrity, competence, and empathy. In this seminar, the attributes of regulatory excellence are defined and their application to problems in regulation in the water-energy nexus will be demonstrated. Case studies and practical examples will be presented as well as theory, so participants will take away new ideas and tools to improve their own regulatory frameworks.</p> <i>Registration is required</i>		Room 802 Training
Break	17:15 - 17:30	
Keynote Plenary	17:30 - 18:15	
Water Governance and Institutional Issues in Developing Countries Silver Mugisha <i>Chief Executive Officer, National Water and Sewerage Corporation, Uganda</i>		

* Timetable diverge from the main schedule

Monday

Business Forums

Keynote Plenary		09:00 - 09:45	
Strengthening Water-related Disaster Resilience for Sustainable Development <i>Toshio Koike</i> Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan and <i>Yuriko Koike</i> Governor of Tokyo, Japan		Plenary Room	
09:45 – 10:30 METAWATER Introduction of METAWATER International Business <i>Presented by: Ichiro Fukushima</i> METAWATER is one of the leading water and environment engineering companies in Japan. This year marks 10th anniversary. We have been designed and installed mechanical and electrical equipment in drinking and wastewater treatment plant to provide any clients with the best solution. Our various service such as EPC as a general contractor, O&M, and privatization, make a contribution to realization of more sustainable social infrastructures.	Room 01 Business	09:45 – 10:30 HITACHI LTD. / HITACHI CONSULTING CORPORATION Hitachi Water Solutions – A Smarter Holistic Approach to Water Management <i>Presented by: Dr. Ricardo Wissmann-Alves</i> <ul style="list-style-type: none"> • Predict and prevent service disruptions • Gain insights and faster response to incidents • Improve quality, compliance and management AICHI TOKEI DENKI CO., LTD. Electromagnetic Water Meter and Research of Smart Water Meter Capable of Realizing Sophisticated Water Control <i>Presented by: Koichi Azuma</i> Aichi Tokei Denki has 30 year history in battery driven electromagnetic water meter.	Room 02 Business
10:30 – 11:15 TAISEI KIKO Development and Maintenance of Waterworks Infrastructure <i>Presented by: Tadahiro Yamada and Hideto Saito</i> TAISEI KIKO has pioneered Japan's water and sewage pipeline maintenance sector. Continuously engaged on the frontier of innovation in product development and maintenance. Retainer glands, various pipe fittings with concept of water pipeline maintenance and quake-resistant products have become essential in Japan.	Room 01 Business	10:30 – 11:15 VEOLIA Want to Catch Up on Latest Methods and Technologies to Improve Environmental Footprint of Wastewater Treatment? <i>Presented by: Theis-Nikolaj Gadegaard</i> Major progress allows us to demonstrate an innovative and holistic controlled wastewater system to produce energy and retrieve valuable resources while improving the water treatment and even remove pharmaceuticals and micropollutants with ExenoTM, Aquavista and the concept of Billund BioRefinery.	Room 02 Business
11:15 – 12:00 SWING CORPORATION Swing's Sustainable Solution for Wastewater Disposal <i>Presented by: Ryo Kanda, Koji Nagato and Nanami Yoshihara</i> The City of Kobe and Swing Corporation started distribution of a fertilizer named "Kobe Harvest", which contains chemical grade struvite recovered from municipal sewage. It solves problems at WWTP of Kobe City caused by phosphorus and connects urban and rural areas. The phosphorus is recovered efficiently, one of the valuable resources, from sewage, which might be called "an urban phosphate mine".	Room 01 Business		Room 02 Business
12:15 – 13:00 COSMO KOKI About Cosmo Koki co. Ltd. <i>Presented by: Kensuke Nakazato</i> Cosmo Koki co. Ltd. is a company which has specialties. One of our unique state-of-the-art technologies is the pipe work under pressure. Using the technology, we do pipe works like bypassing and the valve insertion without shutting water supply.	Room 01 Business	12:00 – 13:30 DENMARK PAVILION Danish Approach to Energy Use and Recovery in the Water Sector <i>Presented by: Danish Minister, Water Utilities and companies</i> Water is energy intensive; accounting 2 and 4 % of the total energy consumption in the world. In Denmark energy efficiency and energy recovery in the water sector has high priority. The Danish approach to energy savings and recovery will be presented followed by concrete examples from major Danish wastewater treatment plants.	Room 02 Business
Keynote Plenary		17:30 - 18:15	
Water Governance and Institutional Issues in Developing Countries <i>Silver Mugisha</i> Chief Executive Officer, National Water and Sewerage Corporation, Uganda		Plenary Room	

Monday

Business Forums

Keynote Plenary

09:00 - 09:45

Strengthening Water-related Disaster Resilience for Sustainable Development

Toshio Koike Director, International Centre for Water Hazard and Risk Management (ICHARM), Japan and **Yuriko Koike** Governor of Tokyo, Japan

Plenary Room

13:30 - 14:15

KUBOTA CORPORATION

Earthquake Resistant Ductile Iron Pipe (ERDIP) Projects in USA

Presented by: **Takaaki Kagawa** and **Satoshi Suenaga**

Earthquake Resistant Ductile Iron Pipe (ERDIP) was developed in Japan in 1970's. Its performance has been proven very successful having no documented failure in many big earthquakes for 40 years. From 2013, 9 water agencies in North America installed the ERDIP. In this session, ERDIP projects details in the U.S will be presented.

Room 01
Business

13:30 - 14:30

ISLE - IWA EMERGING TECHNOLOGIES PROGRAM

Challenges and Opportunities for Deployment of Water Treatment World Wide

Keynote 1: **SMART Assets and Resilient Infrastructure**
Peter Simpson CEO Anglian Water Group

Keynote 2: **Recent Technical Advances in Suez Asia's Wide-ranging Operations** **Suez**

Panel Discussion:

Moderated by Isle Utilities that will summarize lessons learned from the Best Practices and case studies and highlights strategies moving forward to accelerate the deployment of global water innovation around the World. Panel member: Anglian Water; Aqualia; PureTerra Ventures; SWAN; SUEZ

Room 02
Business

14:15 - 15:00

HITACHI, LTD.

Hitachi's Water treatment

Presented by: **Zhang Tao**, **Yukiko Ichige** and **Shu Tsuda**

Hitachi introduces a variety of water technologies including desalination technologies (high-recovery system, energy saving and environmental friendly system) water reuse and advanced sewage treatment technology(Pegasus). This session provides our experiences and technical features for containerized / solar driven desalination system, nitrogen removal from waste water with retrofit solution for existing facility.

Room 01
Business

14:30 - 15:30

ISLE - IWA EMERGING TECHNOLOGIES PROGRAM

ISLE-IWA Emerging Technologies Pitches

Speaker: **Benjamin Tam** Head of Business Unit/ Strategic Projects, Isle Utilities

Hear from entrepreneurs with innovative solutions to water challenges. Pitches with Q&A from a distinguished group of judges (SUEZ, Anglian Water, PureTerra Ventures). Emerging Technologies presenting include: Systea (Italy); Hawle Water Technology Norge (Norway); PowerTech Water (USA); Hydroko (Belgium); Hydrodis (Australia); Terraheim (Korea)

15:45 - 16:30

BUREAU OF WATERWORKS, TOKYO METROPOLITAN GOVERNMENT

Efforts and International Projects for Bureau of Waterworks Tokyo Metropolitan Government

Presented by: **Hiroki Kusano**

International cooperation and partnership

BUREAU OF SEWERAGE, TOKYO METROPOLITAN GOVERNMENT

Promotion of technological development in Tokyo Metropolitan Government

Presented by: **Shoko Kudo**

"Technological Development Promotion Plan 2016" and roadmap.

Room 01
Business

15:45 - 16:30

MEIDENSHA CORPORATION

Introduction to Meidensha Corporation Products & Services (Smart manhole cover and flood monitoring service in urban areas)

Presented by: **Nakajima Mitsuhiro**

- Meidensha Corporation Products & Services Greater than 120 years of experience building power, water and rail infrastructure.
- Cutting-edge technologies of flood-control system for disaster prevention.
- Smart manhole cover and flood monitoring service in urban areas.

Room 02
Business

16:30 - 17:15

JAPAN WATER WORKS ASSOCIATION

Setting Water Rates for a Sustainable Water Utility Management Guidebook for Water Rate Revision

Presented by: **Shunichi Sasahara**

JWWA "Guidebook for Water Rate Revision" 2017, establishing water rates and ensuring sound business. A useful guide in other countries.

COSMO KOKI CO., LTD.

About Cosmo Koki co. Ltd.

Presented by: **Kensuke Nakazato**

Cosmo Koki co. Ltd. is a company which has specialities.

One of our unique state-of-the-art technologies is the pipe work under pressure.

Using the technology, we do pipe works like bypassing and the valve insertion without shutting water supply.

Room 01
Business

16:30 - 17:15

AFRICA PAVILION

Room 02
Business

Keynote Plenary

17:30 - 18:15

Water Governance and Institutional Issues in Developing Countries

Silver Mugisha Chief Executive Officer, National Water and Sewerage Corporation, Uganda

Plenary Room

Tuesday, 18 September



Track 1
WATER UTILITY
MANAGEMENT

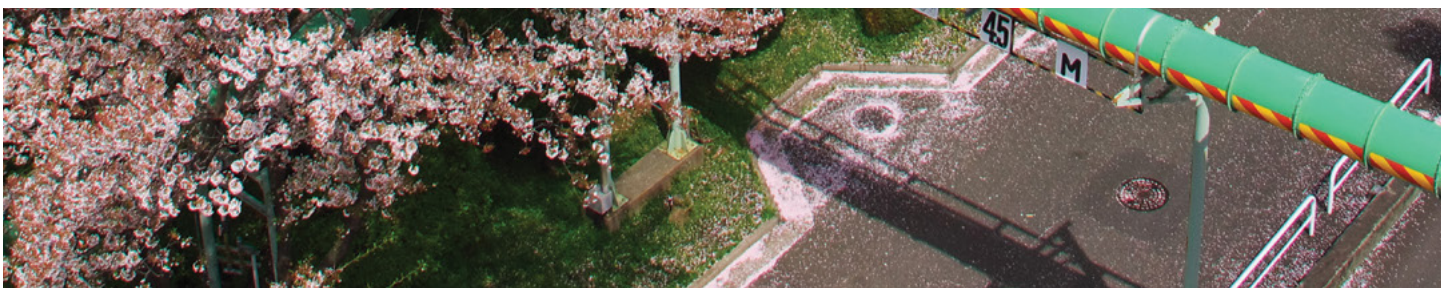
Track 2
WASTEWATER

Track 3
DRINKING WATER AND
POTABLE REUSE

Track 4
URBAN WATER
SYSTEMS

Track 5
COMMUNITIES,
INTEGRATED
PLANNING AND
THE ENABLING
ENVIRONMENT

Track 6
LARGE SCALE WATER
MANAGEMENT



Tuesday Spotlight

Keynote Plenary • International Conference Room

09:00 - 09:45

The Status of and Outlook for Sustainable Development Goal 6



Keynote speaker:

Claudia Sadoff

*Director-General,
International Water
Management Institute,
Colombo, Sri Lanka*

Panel moderator:

Akissa Bahri

*Professor, National Agricultural
Institute, Tunisia*

Panel discussion:

Cindy Wallis-Lage

*President, Water Business, Black
& Veatch, United States*

Peter Simpson

CEO, Anglian Water, United Kingdom

Dr. Chien-Hsin Lai

*Director-General of Water Resources
Agency (WRA), Ministry of Economic
Affairs (MOEA), Chinese Taipei*

Kathryn Silvester

*Planner (Process Engineering),
Sydney Water, Australia*

17:15 - 17:45

Decision Making With Uncertainty – Challenges Facing Water Professionals



Keynote speaker:

Shinichiro Ohgaki

*President Japan Water
Research Center
(JWRC), Tokyo, Japan*

Panel moderator:

Eleanor Allen

CEO, Water for People, United States

Panel discussion:

Paul Reiter

*President & CEO, Reiter
IWS Ltd, United States*

Dragan Savic

CEO, KWR, Netherlands

Adrian Sym

*CEO, Alliance for Water
Stewardship, United Kingdom*

Marion Savill

*Executive Director, Affordable Water Ltd
and Water Micro Ltd, New Zealand*

S. Mohan

*Professor Indian Institute of
Technology Madras, India*

Master Lecture • International Conference Room

10:30 - 12:00

Phosphorus Recovery & Reuse from Wastewater

Chair: Hisao Ohtake *Japan*

How to close the nutrients loop by recycling phosphorus from wastewater streams?

Phosphorus is essential to human life and vital for food production. Increasing attention has been paid to the development of phosphorus refinery technology that can recover phosphorus from secondary resources, including sewage sludge, animal manure and industrial wastes, and use recovered phosphorus products for agricultural and industrial purposes.

This lecture presents full-scale practices of phosphorus recovery and recycling from waste streams and an innovative phosphorus value chain that can extract the maximum value from secondary phosphorus resources and make phosphorus recycling business more attractive and beneficial.

Workshop • International Conference Room

15:45 - 17:15

Toward the Achievement of SDGs Relating to Sanitation and Wastewater Management (SDG 6.2, 6.3) III

Chair: Satoshi Takizawa *Japan*

The Ministry of Land Infrastructure, Transport and Tourism, Japan (MLIT) and the Ministry of Environment (MOE) have been conducting the international activities to support developing countries to achieve the SDGs relating to sanitation, wastewater management (off-site and on-site) and the protection of good water quality (Environment Water Quality Standard) based on experience in Japan.

The Japan International Cooperation Agency (JICA) and Asian Development Bank (ADB) as donor organizations will explain the activities relating to the SDGs. JICA will highlight the importance of capacity development and ADB will explain financing mechanisms for wastewater management and sanitation improvement.

Innovative technologies to achieve of the SDGs will be explained by the private sector.

5th International Water Regulators Forum

10:30 - 17:15

"How can regulatory authorities enable resilience and sustainable development? The answer includes nature"

Hon. Joseph Mwanamvekha (MP) Minister of Agriculture, Irrigation and Water Development, Malawi
Hon. Mlungisi Lulu Johnson Chairman Portfolio Committee on Water and Sanitation, Parliament of the Republic of South Africa
Dr. Tan Yew Chong Secretary General, Ministry of Water, Land and Natural Resources, Malaysia
Tadashige Kawasaki (Mr.) NARBO Secretariat, Water Resources Engineering Department and Japan Water Agency, Japan
Bruno Tisserand EurEau President European federation of national water services, Belgium
and OTHERS.....



IWA Pavilion

Venture to the IWA Pavilion and Water-Wise Hub to meet IWA staff and learn more about our membership and engagement opportunities.

Over lunch, the Arup & IWA Cities Alive Report – Water for People – will be launched, as well as the new IWA Specialist Group on Non-Sewered Sanitation – a packed agenda! Engage over coffee in the afternoon to witness the MoU signing between IWA and AWS, where IWA executives will be present.



Workshop • Room 606

15:45 - 17:15

Development & Advancements in Non-sewered Sanitation and Faecal Sludge Management

This workshop aims to share practical developments and interventions, as well as new science and innovation, in the area of non-sewered sanitation (NSS); (which includes faecal sludge management (FSM)). There are many people in the world who do not have access to piped or sewerred sanitation. NSS and FSM offer the opportunity to leapfrog new systems, approaches, technology and processes to ensure that human waste can be managed through innovation and smartness. The session highlights this innovation and disruption against a rigid paradigm which will ensure many millions who are poorly served and unserved get access to improved sanitation.

Chair:

Dr Stanley Liphadzi
*Water Research Commission,
 South Africa*

Panel discussion:

Prof Kala Variavamoorthy
Executive Director – IWA

Mr Jay Bhagwan
Chair of the NSS

Mr Roshan Shrestha
Bill and Melinda Gates Foundation

Assist. Prof Hidenori Harada
Kyoto University, Japan

Mr. Laurent Doyen
SIAPP, France

Dr Miriam Otoo
IWMI, Sri Lanka

Cultural Evening • Kiyosumi Gardens



Enjoy an evening of local culture, food and networking set in an authentic Japanese Garden in the middle of Tokyo.

Kiyosumi Gardens is a place of scenic beauty designated by the Tokyo Metropolitan Government. They are known as the Garden of Exquisite Stones, created by three generations of the Iwasaki family.

Tuesday

Programme

Keynote Plenary		09:00 - 09:45	
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
MONITORING & SYSTEM CONTROL Chairs: Gilbert Galjaard <i>Netherlands</i> and Ali Rostamiiranagh <i>Iran</i>		R. Hall A Technical	ENABLING TECHNOLOGY Chairs: Ana Soares <i>United Kingdom</i> and Shaun Cox <i>Australia</i>
10:30 Development of the Advanced UF Differential Pressure Prediction System Kazunori Tomioka <i>Toray Industries, Inc., Japan</i> 10:45 Simple Method for Short-term Predictions and Long-term Estimations of High PH in River Water Ryuta Shirai <i>Niigata City Waterworks Bureau, Japan</i> 11:00 A Remote Sensing Method for Interpretation of Potential Key Factors Controlling Algal Growth in Reservoirs Chih-Hua Chang <i>National Cheng Kung University, Chinese Taipei</i> 11:15 A Low-resource, Field-based Assay to Detect Human Faecal Pollution in Water Nicole Masters <i>University of the Sunshine Coast, Australia</i>			10:30 Applying Deep Reinforcement Learning in Operations of Water Purification Plants Phong Nguyen <i>Hitachi Ltd. R&D Group, Japan</i> 10:45 Promotion of Technological Development in Tokyo Metropolitan Government - Technological Development Promotion Plan 2016 - Shoko Kudo <i>Tokyo Metropolitan Government, Japan</i> 11:00 Development of a Knowledge Succession Support System for Water Treatment Technology Shigeo Tamura <i>Japan Water Research Center, Japan</i> 11:15 Serious Gaming Will Facilitate Sustainable Stormwater Handling in Gothenburg, Sweden Annika Malm <i>RISE Research Institutes of Sweden, Sweden</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
GLOBAL WATER PATHOGEN PROJECT AND WHO WORKSHOP FOR THE ACTION PLAN ON ANTIMICROBIAL RESISTANCE AND WATER ENVIRONMENT I Chair: Hiroyuki Katayama <i>Japan</i> What are the effective practices of WASH on Antimicrobial Resistance? Antimicrobial resistance (AMR) is high in the international agenda. AMR is not only a major threat to the global health, but also our future economies. More than 700,000 people worldwide are already dying each year because of AMR. While the relative role of the environment is unclear at this stage, an important first step is to identify hotspots of AMR spread and human exposure, and explore benefits of actions to cut/reduce the load of AMR agents. This workshop is designed to explore the potential contribution of environments to the spread of AMR agents, facilitating the exchange of information between academics and practitioners, and to aid in identifying WASH related solutions on AMR. Speakers: Prof. Joan Rose , <i>Michigan State University (USA)</i> , Prof. Gertjan Medema , <i>KWR Water Cycle Research Institute (NL)</i> , Prof. Nicholas Ashbolt , <i>University of Alberta (CA)</i> and Prof. Satoru Suzuki , <i>Ehime University (JP)</i>		R. Hall A Workshop	DIFFUSE POLLUTION Chair: Lee-hyung Kim <i>Republic of Korea</i> and Tom Armour <i>United Kingdom</i> 13:30 Variability of Bioavailable Phosphorus in Rivers Draining Through Different Land Uses James Mbabazi <i>Toyohashi University of Technology, Japan</i> 13:45 Enhancement of the Photocatalytic Activity of TiO ₂ Doped With Recovered Nd for the Removal of RB5 Under Visible Light Niam Achmad Chusun Chung Yuan <i>Christian University, Chinese Taipei</i> 14:00 Vulnerability of Dutch Drinking Water Sources to Pesticides Annemarie van Wezel <i>KWR, Netherlands</i> 14:15 Metabolomic Responses of Estuarine Benthic Amphipod to Heavy Metals in Urban Runoff Relevant Concentrations Miina Yanagihara <i>The University of Tokyo, Japan</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
GLOBAL WATER PATHOGEN PROJECT AND WHO WORKSHOP FOR THE ACTION PLAN ON ANTIMICROBIAL RESISTANCE AND WATER ENVIRONMENT II Chair: Jörg Drewes <i>Germany</i> What are the effective practices of WASH on Antimicrobial Resistance? Antimicrobial resistance (AMR) is high in the international agenda. AMR is not only a major threat to the global health, but also our future economies. More than 700,000 people worldwide are already dying each year because of AMR. While the relative role of the environment is unclear at this stage, an important first step is to identify hotspots of AMR spread and human exposure, and explore benefits of actions to cut/reduce the load of AMR agents. This workshop is designed to explore the potential contribution of environments to the spread of AMR agents, facilitating the exchange of information between academics and practitioners, and to aid in identifying WASH related solutions on AMR. Speakers: Prof. Regina Sommer , <i>Medical University of Vienna (AT)</i> , Dr. Kate Olive Medlicott , <i>WHO (CH)</i> , Prof. Gary Toranzo , <i>University of Puerto Rico (PR)</i> and Dr. Daisuke Sano <i>Tohoku University (JP)</i>		R. Hall A Workshop	5TH INTERNATIONAL WATER REGULATORS FORUM Chair: Carolina Latorre <i>Netherlands</i> Keynote: Hon. Minister Rauff Hakeem <i>Minister of City Planning and Water Supply of Sri Lanka</i> Enabling resilience and sustainable development – How can policies help? Synthesis of the dialogue in the closed sessions incorporated into a conversation with high level decision and policy makers across the cycle. This part of the Forum aims at exploring and enabling collaborative governance amongst key actors to inform effective water-wise policies for resilient and sustainable systems that incorporate nature based solutions into the pool of investments and growth opportunities. Speakers: Adrian Sym , <i>The Alliance for Water Stewardship</i> , Bruno Tisserand , <i>EurEau</i> , Pranav S. Joshi , <i>National Environment Agency (SG)</i> , Tan Yew Chong , <i>Ministry of Water, Land and Natural Resources (MY)</i> and more
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>			Plenary Room

Tuesday

Programme

Keynote Plenary	09:00 - 09:45		
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
5TH INTERNATIONAL WATER REGULATORS FORUM Chair: Kelvin Chitumbo <i>Zambia</i> Are existing regulatory models, institutions and professionals ready for the challenge? <p>In this session we will explore the time dimension and governance aspects relevant to the implementation of NBS for resilient systems, for example - How to balance the time scale requirements of NBS within the business plan of service providers?</p> Speakers: Dr Kevin Parks, <i>Alberta Energy Regulator (CA)</i> , Alberto Biancardi, <i>Regulatory Authority for Electricity Gas and Water Services (ARERA) (IT)</i> , Armando Quazzo, <i>SMAT, Local Operator of Turin, (IT)</i> , Jean Spencer, <i>Executive Director, Strategic Growth and Resilience, Anglian Water Services Limited (UK)</i> and Trevor Bishop, <i>Water Services Regulation Authority (OFWAT) (UK)</i>		Room 101 Forum	EMERGING CONTAMINANTS & MICROPLASTICS Chair: Helmut Kroiss <i>Austria</i> 10:30 Pathways and Impacts of Microplastics in Agrosystems and Stream Environments Luca Nizzetto <i>NIVA, Norway</i> 10:45 Removing Microplastics on Wastewater Treatment Plants Julia Talvitie <i>Aalto University, Finland</i> 11:00 Microplastics Are Vectors for Bacteria from Wastewater into the Aquatic Environment Antonina Kruglova <i>Aalto University, Finland</i> 11:15 Environmental Loads and Fate of Microplastics in The Henares Watershed, Central Spain Theresa Schell <i>IMDEA Water Institute, Alcalá de Henares, Spain</i>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
5TH INTERNATIONAL WATER REGULATORS FORUM Chair: Thalita Salgado Fagundes <i>Brazil</i> How to enable sustainable financing and economic resilience of the services? <p>In this session we will focus on economic regulatory arrangements and citizens, addressing for example - How do we get the incentives right and get citizens / communities interest?</p> Speakers: Seamus Parker, <i>Queensland Treasury Corporation (AU)</i> , José Bento da Rocha, <i>Energy and Basic Sanitation Agency of the Federal District (ADASA) (BR)</i> , Paul Belz, <i>Executive Leader Planning, Planning Group, Queensland Urban Utilities, (AUS)</i> ; Maria Rafaela de Saldanha Gonçalves Matos, <i>Principal Reseracher LNEC on behalf of The City of Lisbon</i> and Alan Sutherland, <i>Water Industry Commission for Scotland (WICS) (UK)</i>		Room 101 Forum	MICROPLASTICS IN WASTEWATER - WHY DO WE CARE Chair: Riku Vahala <i>Finland</i> Should wastewater treatment plants improve their processes to remove microplastics from wastewater? <p>The workshop looks at wastewater treatment plants as a pathway of microplastics to the environment. The speakers are leading microplastic researchers as well as practitioners around the globe. They will give a short introduction to the topic which is followed by Q&A and panel discussion.</p> Speakers: Ms. Mari Heinonen, <i>Helsinki Region Environmental Services Authority, (FI)</i> , Dr. Julia Talvitie, <i>Aalto University, (FI)</i> , Dr. Antonina Kruglova, <i>Aalto University, (FI)</i> , Frederic Leusch, <i>Griffith University, (AU)</i> , Melinda Sturm, <i>University of Kansas, (US)</i> , Annemarie van Wezel, <i>KWR Watercycle Institute, (NL)</i> and Ms. Svenja Mintenig, <i>KWR Watercycle Institute, (NL)</i>
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
SUBSURFACE WATER STORAGE: CATALYZER OF WATER REUSE WORLDWIDE Chair: Gerard Van den Berg <i>Netherlands</i> How can the subsurface stimulate successful application of water reuse in practice, supporting a practical solution to supply and demand challenges, in terms of volumes, as well as timing and quality? <p>The successful application of water reuse in practice strongly depends on supply and demand, not only in terms of volumes, but also in timing and quality. The subsurface provides an almost endless volume for temporary storage and has the potential to protect the injected water from quality deterioration.</p> Speakers: Seunghak Lee, <i>KIST - Korea Institute of Technology (KR)</i> , Said Majid Al-Busaidi, <i>Diam - Public Authority for Electricity and Water (OM)</i> , Shafick Adams, <i>WRC - Water Research Commission (ZA)</i> and Klaasjan Raat, <i>KWR Watercycle Research Institute (NL)</i>		Room 101 Workshop	EFFECTS OF MICROPLASTICS IN FRESHWATER AND SOIL ECOSYSTEMS Chair: Andreu Rico <i>Spain</i> Are microplastics a real threat for the environment? <p>In this workshop we will describe the state of the knowledge on the effects of microplastics (MPs) in freshwater and terrestrial organisms, and discuss about major data gaps and research directions to conduct appropriate environmental risks assessments for this class of emerging contaminants.</p> Speakers: Theresa Schell , <i>IMDEA Water, (ES)</i> and Rachel Hurley , <i>NIVA, (NO)</i>
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>		Plenary Room	

Tuesday

Programme

Keynote Plenary		09:00 - 09:45		
The Status of and Outlook for Sustainable Development Goal 6				
Claudia Sadoff Director-General, International Water Management Institute, Sri Lanka				
Coffee Break		09:45 - 10:30		
Session 1		10:30 - 12:00		
BIOSOLIDS MANAGEMENT & REUSE		Room 601 Technical	SEWAGE POLLUTION & TREATMENT	
Chairs: Simon Tsang China and Banu Ormeci Canada			Chairs: Dinesh Kumar Upadhyay India and Soichiro Yatsugi Japan	
10:30	Development of Energy Generating Sludge Incineration System Utilizing Step Grate Stoker Furnace Jiro Usui Japan Sewage Works Agency, Japan		10:30	Treatment of Polluted Road Runoff by Coagulation/flocculation and Sedimentation Fredrik Nyström Luleå University of Technology, Sweden
10:45	Effect of Climatic Variables on Inactivation of Pathogens in Sludge from UASB Reactors Bruna Lopes Federal University of Minas Gerais, Brazil		10:45	High Rate Filtration for Local Treatment of Combined Sewer Overflow Herman Helness SINTEF Building and Infrastructure, Norway
11:00	Moving Towards Maximum Biosolids Reduction: Ultra-dewatering of Sludge Marlene Choo-Kun Suez Treatment Infrastructure, France		11:00	Occurrence of Enteric Viruses and Microbial Indicators in Tokyo Coastal Area After a CSO Event Takashi Hijikata The University of Tokyo, Japan
11:15	High-resolution Bathymetry Mapping for Operations And Planning of Waste Stabilization Ponds Liah Coggins The University of Western Australia, Australia		11:15	Characterization of Bacterial Community in Fecal-source Samples in The Kathmandu Valley, Nepal, Using NGS Rajani Ghaju Shrestha University of Yamanashi, Japan
Lunch		12:00 - 13:30		
Session 2		13:30 - 15:00		
SUSTAINABLE USE OF WATER BY INDUSTRY		Room 601 Workshop	SENSORS & SMART SOLUTIONS	
Chair: Cheryl Davis United States			Chairs: Tomoyuki Tanimoto Japan and Marion Savill New Zealand	
What stakeholder need to collaborate in order for sustainable use of water by industry to be achieved?				
The workshop will consist of a combination of the following: (1) Speakers from varying perspectives (e.g., academia, water utilities, and indigenous cultural groups) briefly describing their own experience in relation to sustainable use of water by industry, followed by their suggestions on groups IWA should collaborate with to move further down the path from theory and research to implementation and (2) suggestions from attendees of potential collaborators, including specific groups and associations that IWA should attempt to connect with . The product of the session will be list of specific suggestions, not only in terms of type of organizations IWA should collaborate with, but specific names of organizations and industries and potential contact persons associated with that organization or industry. This input will be used as guidance in development of a future conference on sustainable use of water by industry to be held in Latin America.			13:30	Operational Rainfall Monitoring by Microwave Links: a Case Study in Gothenburg, Sweden Jonas Olsson Swedish Meteorological and Hydrological Institute, Sweden
Speakers: Maria Concetta Tomei, Water Research Institute C.N.R. (IT), Peter Goethals, Ghent University (BE), Xiachang Wang, (CN) and Florent Chazarenc, Irstea (FR)			13:45	Japan's First Large Scale Efforts on The Model Project of Smart Water Meter Yoshiharu Homma Bureau of Waterworks,Tokyo Metropolitan Government, Japan
			14:00	Investigation of Applicability of Smart Meter (Multifunctional Meter for Water Supply) to the City of Tokyo Taichi Nozawa Bureau of Waterworks, Tokyo Metropolitan Government, Japan
			14:15	Multi-objective Network Optimization - Calm Network Aurelie Chazeraim Suez, France
Coffee Break		15:00 - 15:45		
Session 3		15:45 - 17:15		
WATER REUSE IN THE FOOD-PROCESSING INDUSTRY		Room 601 Workshop	MODELLING FOR DECISION SUPPORT	
Chair: Renzo Akkerman Netherlands			Chair: Vanessa Speight United Kingdom and Christos Makropoulos Netherlands	
What are challenges and opportunities for water reuse in food processing?				
Many technological and managerial challenges for efficient water reuse exist. This workshop presents and discusses several perspectives on this. Emphasis will be on quality monitoring, quality modelling, microbiological safety, as well as the water logistics of reuse. After presenting these different perspectives, the aim is to discuss challenges and opportunities.			15:45	Sharing Pipeline Inspection Data And GISsystem Data:Pipeline Management By Mutual Interchange Of Big Data In The Future Tomoyuki Tanimoto Bureau of Waterworks, Japan
Speakers: Renzo Akkerman, Wageningen University (NL), Krist V. Gernaey, Technical University of Denmark (DK), Susanne Knöchel, University of Copenhagen (DK) and Klavs M Sørensen, University of Copenhagen (DK)			16:00	Understanding Model Complexity And Model Accuracy Through Uncertainty Analysis In Urban Water Modelling Jairo Torres-Matallana Luxembourg Institute of Science and Technology, Luxembourg
			16:15	Statistical Forecasting Of Norovirus Concentration In Sewage As An Indicator Of Future Incidence Fuminari Miura The University of Tokyo, Japan
			16:30	A Computational Tool To Facilitate Generation Of Input Data For QMRA Modelling Of A Drinking Water Distribution Network Annika Malm Chalmers University of Technology, Sweden
Break		17:15 - 17:30		
Keynote Plenary		17:30 - 18:15		
Decision Making With Uncertainty – Challenges Facing Water Professionals				
Shinichiro Ohgaki President of Japan Water Research Center (JWRC)				
Plenary Room				

Tuesday

Programme

Keynote Plenary	09:00 - 09:45		
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>			Plenary Room
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
WATER-WISE CITIES I - MULTI-PURPOSE WATER SERVICES, LEVERAGING MULTIPLE BENEFITS ACROSS SECTORS * Chair: Jurg Keller <i>Australia</i> What are water management solutions that bring benefits beyond their original mandate? This session will present the IWA Principles for Water-Wise Cities, highlighting water management solutions that bring benefits beyond the original mandate of utilities to deliver water, ensure drainage, and treat wastewater. In particular, balancing green and grey solutions may deliver multiple benefits across sectors. Speakers: Jurg Keller , <i>University Queensland, (AU)</i> , Rob Skinner , <i>Monash University, (AU)</i> , Katie Hammer , <i>CRC Water Sensitive Cities, (AU)</i> , Christian Ulrich , <i>Monash University, (AU)</i> , Louise Bingham , <i>Arup, (UK)</i> and Tom Armour , <i>Arup, (UK)</i>		Room 605 Workshop	
PEOPLE MANAGEMENT I - BUILDING THE WATER/WASTEWATER WORKFORCE NEEDED TO PROTECT THE PUBLIC AND THE ENVIRONMENT Chair: Cheryl Davis <i>United States</i> What are the keys to building a strong effective workforce in water / wastewater utilities? The session will include four brief presentations on work being done in water/ wastewater facilities to build a strong workforce. This will be followed by a discussion of agency initiatives relating to people management, gender equity, diversity, and organizational culture. The final discussion will relate to ways that IWA could provide more support in this area. Speakers: Cheryl Davis , <i>CKD Consulting, (US)</i> , Norifumi Tashiro , <i>Bureau of Waterworks, Tokyo Metropolitan Government, (JP)</i> , Katerina Schilling , <i>IAWD-Danube Water Program, (AT)</i> , Arlinda Ibrahimliari , <i>Water Supply and Sewerage Enterprise of Korca, (AL)</i> and Naoki Ueno , <i>Bureau of Waterworks, Tokyo Metropolitan Government, (JP)</i>			Room 606 Workshop
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
WATER-WISE CITIES II: IMPLEMENTING WATER-WISE CITIES AROUND THE WORLD: LESSONS LEARNED * Chair: Rob Skinner <i>Australia</i> How can urban water projects deliver on more than basic services? This session will focus on extracting lessons learned from different cities having implemented water projects that aim to deliver more than basic services, such as improving health, enabling public spaces, engaging citizens and more. In a world cafe format, participants will have the opportunity for two in-depth discussion with representatives from cities amongst Paris, Berlin, Hong Kong, Rio, to name a few. Speakers: Jean-Pierre Tabuchi , <i>SIAAP, (FR)</i> , Regina Gnirss , <i>Berliner Wasserbetriebe, (DE)</i> , Patrick LT Chan , <i>Drainage Services Department, (HK)</i> Victor Faria , <i>CEDAE, (BR)</i> , Tony Wong , <i>CRC WSC, (AU)</i> , Jianbin Wang , <i>CRCWSC, (CN)</i> , Marina Bergen Jensen , <i>University of Copenhagen, (DK)</i> , Brian Hansen , <i>HOFOR, (DK)</i> and Rob Skinner , <i>Monash University, (AU)</i>		Room 605 Workshop	
PEOPLE MANAGEMENT II - A VISION FOR CULTURAL CHANGE THROUGH DIVERSITY Chair: Sandra Hall <i>Australia</i> How do we drive cultural change by building a diverse industry? Diverse and inclusive workforces have been shown to drive productivity. This workshop will present practical learnings on how to build better behaviours to support diversity in the workplace. It will also present a model to share content, successes, and challenges to assist individual leaders and participants to drive the cultural change required for success. Speakers: Rosie Wheen , <i>WaterAid, (AU)</i> , Kirsty Blades , <i>Australian Water Association, (AU)</i> and Pat McCafferty , <i>Yarra Valley Water, (AU)</i>			Room 606 Workshop
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
WATER-WISE CITIES III: WATER FOR SMART LIVEABLE CITIES * Chair: Peter Steen Mikkelsen <i>Denmark</i> What are the Smart City trends that will influence the future of water services and management in cities? This session will introduce the "Smart City" approach, highlighting trends that will influence the future of water services and water management in cities. The session will also discuss the cross-fertilization between smart city and water smart solutions - and liveable cities. How will we meet the objective of healthy and liveable cities by being smarter? Speakers: Peter Steen Mikkelsen , <i>DTU, (DK)</i> , Lykke Leonardsen , <i>City of Copenhagen, (DK)</i> , Karsten Ambjerg-Nielsen , <i>DTU, (DK)</i> and Dragan Savic , <i>KWR, (NL)</i> * You can find the abstracts for each of the speakers in this session on IWA Connect on the IWA Water-Wise World Group		Room 605 Workshop	
DEVELOPMENT & ADVANCEMENTS IN NON-SEWERED SANITATION & FAECAL SLUDGE MANAGEMENT Chair: Stanley Liphadzi <i>South Africa</i> Can we get FSM and NSS on the services offering in a formal manner? This workshop aims to share practical developments and intervention, 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 sewer 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. The session highlights this innovation and disruption against a rigid paradigm which will ensure many million poorly served and unserved get access to improved sanitation. Speakers: Jay Bhagwan , <i>Water Research Commission (ZA)</i> , Roshan Shrestha , <i>Bill and Melinda Gates Foundation (USA)</i> , Prof Hidenori Harada , <i>Kyoto University (JP)</i> , Laurent Doyen , <i>SEAPP (FR)</i> , Miriam Otoo , <i>IWMI (LK)</i> and Konstantina Velkushanova , <i>UKZN (ZA)</i>			Room 606 Workshop
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>			Plenary Room

Tuesday

Programme

Keynote Plenary	09:00 - 09:45		
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
MICROBIOLOGY OF WATER DISTRIBUTION SYSTEMS AND BIOFILMS Chairs: Joan Rose <i>United States</i> and Juan Antonio Baeza <i>Spain</i> 10:30 Biostability Parameters to Improve (Micro)biological Quality During Distribution of Drinking Water from Surface Water Rinnert Schurer <i>Evides Water Company, Netherlands</i> 10:45 Assessing the Origin of Bacteria in Tap Water and Distribution System in an Unchlorinated Drinking Water System Ameet Pinto <i>Northeast University, United States</i> 11:00 Inactivation of Health-related Microorganisms in Water Using UV Light Emitting Diodes (UV-LEDs) Kumiko Oguma <i>University of Tokyo, Japan</i> 11:15 Influence of Natural and Human Factors on Environmental Microbiome in Nepal Sital Uprety <i>University of Illinois at Urbana Champaign, United States</i>		Room 607 Technical	RESOURCE RECOVERY I INORGANIC Chairs: Mona Arnold <i>Finland</i> and Christian Kabbe <i>Germany</i> 10:30 Rubidium Extraction from Seawater Brine by an Integrated Membrane Distillation-Selective Sorption System Saravanamuthu Vigneswaran <i>University of Technology Sydney, Australia</i> 10:45 Fractionation of Bivalent Ions by Selectrodialysis for Phosphate Recovery Boudewijn Meesschaert <i>KU Leuven, Belgium</i> 11:00 A Continuous Two-phase Bioreactor for Effective Decontamination of Industrial Wastewater and Valuable Component Recovery Maria Concetta Tomei <i>Water Research Institute - C.N.R., Italy</i> 11:15 Demonstrated Operation of Process for Recovery of Phosphorus from Digested Sewage Sludge Takao Hagino <i>Swing Corporation, Fujisawa-shi, Japan</i>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
NOVEL TECHNOLOGIES Chairs: Rui Sancho <i>Portugal</i> and Takayuki Ishizaki <i>Japan</i> 13:30 The Trojan Horse: a New Biotechnology for Pesticide Removal at Drinking Water Sand Filters Sanin Musovic <i>Danish Technological Institute, Denmark</i> 13:45 Enhanced NOM Removal for Drinking Water Production: a Challenge for a New Coagulant Isabelle Baudin <i>SUEZ, France</i> 14:00 Experimental and Theoretical Investigations of the Fate of Organic Compounds Degradation in Advanced Oxidation Systems Daisuke Minakata <i>Michigan Technological University, Houghton, United States</i> 14:15 Pilot Study for the Up-Ward Biological Contact Filtration (U-BCF) on the Saigon Water Corporation, Ho Chi Minh City Thach Tran <i>Saigon Water Corporation</i>		Room 607 Technical	RESOURCE RECOVERY II ORGANIC COMPOUNDS Chairs: Takao Murakami <i>Japan</i> and Yongmei Li <i>China</i> 13:30 Optimization of Operating Factors on The Electro-dialytic Recovery of Volatile Fatty Acids from Food Waste Seoktae Kang <i>Korea Advanced Institute of Science and Technology, Republic of Korea</i> 13:45 Recovery of Organic Acids from Butyl-acrylate Wastewater with Bipolar-Membrane Electrodialysis (EDBM) Yudong Song <i>Chinese Research Academy of Environmental Sciences, BChina</i> 14:00 Mainstream SCEPPHAR Configuration for Integrating P and PHA Recovery in the Water Line of WWTPs Juan Baeza <i>Universitat Autònoma Barcelona, Spain</i> 14:15 Start-up of the First Pilot Plant for Short-Cut Enhanced Phosphorus and PHA Recovery from Real Sieved Wastewater Vincenzo Conca <i>University of Verona, Italy</i>
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
ACTIVATED CARBON Chairs: Seungkwan Hong <i>Republic of Korea</i> and Zhang Xiaoxiao <i>China</i> 15:45 Leakage of Superfine Activated Carbon Particles through Sand Filter and its Control by the Optimization of Coagulation Yoshifumi Nakazawa <i>Hokkaido University</i> 16:00 Micro-grinding Spent Granular Activated Carbon for Reuse: Increasing Adsorption Capacity Long Pan <i>Hokkaido University, Sapporo, Japan</i> 16:15 Partial Replenishment of Biologically Activated Carbon Filters to Improve Natural Organic Matter (NOM) Removal Nashita Moona <i>Chalmers University of Technology, Göteborg, Sweden</i> 16:30 Verification of New GAC With Considerations of Environmental Impact at Large-scale Advanced Water Treatment Facilities Kenichi Yoshizawa <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>		Room 607 Technical	PHYSICO-CHEMICAL TREATMENT ELECTROCHEMISTRY Chairs: Oskar Modin <i>Sweden</i> and Aiichiro Fujinaga <i>Japan</i> 15:45 Continuous Phenol Removal Using Nano-structured Activated Carbon and Its In-situ Electrochemical Regeneration Orlando Garcia Rodriguez <i>National University of Singapore, Singapore, Singapore</i> 16:00 Effect of Filter Media and Inoculation on Manganese Oxidation and Microbial Diversity in Drinking Water Biofilters Inès Breda <i>Aalborg University, Aalborg, Denmark</i> 16:15 Joule-heated Anode Enables Fast Electrochemical Advanced Oxidation of Benzoic Acid Shuzhao Pei <i>Harbin Institute of Technology</i> 16:30 Electro-Oxidation of Phenol Using BDD-Doped Magnéli-Phase Titanium Suboxides Anode Ma Ming <i>Harbin Institute of Technology, Harbin, China</i>
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>		Plenary Room	

Tuesday

Programme

Keynote Plenary		09:00 - 09:45	
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
ACTIVATED SLUDGE PROCESSES Chairs: Tim Constantine <i>Canada</i> and Claudio Di Iaconi <i>Italy</i>		Room 609 Technical	CLIMATE RESILIENT WATER SAFETY & SECURITY PLANNING Chair: Jennifer De France <i>Switzerland</i> How can climate information be integrated into planning to ensure water safety and security? There is increasing necessity for better management and planning, and for water managers to recognize the impacts of climate change. Water utilities need to improve their ability to identify hazards to manage the climate risks and ensure they maintain service provision. The workshop will demonstrate how climate information can be integrated in water utility planning processes to help identify and reduce risks, i.e. through developing and implementing climate resilient water safety planning. Speakers: Jennifer de France , <i>WHO, (CH)</i> , Philip de Souza , <i>Emanti Management, (ZA)</i> , Dai Simazaki , <i>NIPH, (JP)</i> , Rui Sancho , <i>Águas do Algarve, (PT)</i> , Adam Lovell , <i>WSSA, (AU)</i> , Arijanto (Arie) Istandar , <i>AECOM, (US)</i> , Katharine Cross , <i>IWA, (TH)</i> and Kizito Masinde , <i>IWA, (KE)</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
NUTRIENT REMOVAL I (ANAMMOX) Chairs: Gurkan Sin <i>Denmark</i> and Eveline Volcke <i>Belgium</i>		Room 609 Technical	GROUNDWATER FOR THE FUTURE Chair: Anders Bækgaard <i>Denmark</i> Is your groundwater a hidden treasure? Groundwater is significant to achieve the SDGs, including its sustainable management, use and protection. This workshop highlights the significance of partnerships across sectors, government integration and public participation. The purpose is to inspire and enable water managers to consider the opportunities and solutions groundwater resources offer to achieve the SDGs. Speakers: Anders Bækgaard , <i>Congress President Elect, IWA World Water Congress & Exhibition 2020, (DK)</i> , Ida Holm Olesen , <i>Head of Section, Region of Southern Denmark, (DK)</i> , Troels Bjerre , <i>Senior Project Manager, VCS Denmark, (DK)</i> and Heidi Barlebo , <i>Head of Department, Geological Survey of Denmark and Greenland, (DK)</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
BIOFILM & GRANULAR SLUDGE PROCESSES Chair: Kim Soerensen <i>Switzerland</i> and Lian-Shin Lin <i>United States</i>		Room 609 Technical	GROUNDWATER MANAGEMENT Chair: Pia Weber <i>Austria</i> 15:45 Development Of Water Cycle Risk Assessment And Sound Water Cycle Activities For Practical Solution Of Water Issues Toshio Okazumi <i>Cabinet Secretariat, Tokyo, Japan</i> 16:00 Participation In Groundwater Resources: Outlining A Path To Inclusive Development Gabriela Cuadrado-Quesada <i>UNESCO-IHE, Delft, Netherlands</i> 16:15 Development Of Groundwater Management Plans In Zambia -- A Contribution To Water Supply Security Marcus Fahle <i>Bundesanstalt für Geowissenschaften und Rohstoffe (BGR, German Federal Institute for Geosciences and Natural Resources), Hannover, Germany</i> 16:30 Developing A Scientific Foundation For Large-Scale Groundwater Banking William Stringfellow <i>University of the Pacific, California, United States</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>			Plenary Room

Tuesday

Programme

Keynote Plenary	09:00 - 09:45		
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>			Plenary Room
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
PHOSPHORUS RECOVERY & REUSE FROM WASTEWATER Chair: Hisao Ohtake <i>Japan</i> How to close the nutrients loop by recycling phosphorus from wastewater streams? <p>Phosphorus is essential to human life and vital for food production. Increasing attention has been paid to the development of phosphorus refinery technology that can recover phosphorus from secondary resources, including sewage sludge, animal manure and industrial wastes, and use recovered phosphorus products for agricultural and industrial purposes.</p> <p>This lecture presents full-scale practices of phosphorus recovery and recycling from waste streams and an innovative phosphorus value chain that can extract the maximum value from secondary phosphorus resources and make phosphorus recycling business more attractive and beneficial.</p>		Room ICR Lecture	
PIPE FAILURES & CORROSION Chairs: Bambos Charalabous <i>Cyprus</i> and Joanna Nicodemus <i>Philippines</i> 10:30 Beyond Pipe Failures Data in Japan, Sweden and the Netherlands: Enabling Cross-national Comparison, Analysis and Action Mario Castro Gama <i>KWR Watercycle Research Institute</i> 10:45 On The Selection Of Sustainable Pipeline Renewal Shouichiro Nio <i>Okayama City Waterworks Bureau Japan</i> 11:00 Improved Network Response in Isolating Burst Water Mains in Gold Coast Water and Waste Using In-House Programming Skills Romer Cantos <i>City of Gold Coast, Australia</i>			Room 701 Technical
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
TOWARD THE ACHIEVEMENT OF SDGS RELATING TO SANITATION AND WASTEWATER MANAGEMENT (SDG 6.2, 6.3) I, II Chair: Satoshi Takizawa <i>Japan</i> Part I: There is no single UN entity dedicated exclusively to water issues, though over 30 UN organizations carry out water and sanitation programs. UN-Water's role is to coordinate so that the UN family 'delivers as one' in response to water related challenges. Now, UN-Water is preparing. "SDG 6 Synthesis Report on Water and Sanitation" for the UN High-level Political Forum on Sustainable Development (HLPF) where Member States will review SDG 6 in-depth on July 2018. Part II: In Asian countries, population density is high, and nearly 60% of world population lives in the region. These countries achieved rapid economic growth but faced the problem related drinking water, sanitation and wastewater. In this session, Asian Countries (intended countries; Myanmar, Philippines, Vietnam) will explain the current condition and future activities concerning SDG 6 relating to sanitation and wastewater Management. Japan(Tokyo Metropolitan Government) will report the experience how to promote the sanitation and wastewater treatment systems.		Room ICR Workshop	
CORROSION CONTROL & PIPE LIFE EXTENSION Chairs: Victor Faria <i>Brazil</i> and Goro Funahashi <i>Japan</i> 13:30 Efficient Maintenance Method for Water Supply Facilities Focused on the Carbonation of Concrete Masaki Fujita <i>Sapporo Waterworks Bureau, Japan</i> 13:45 Corrosion of Reinforcing Steel in Concrete Sewers Yarong Song <i>Tianjin University and University of Queensland, China</i> 14:00 Online Monitoring and Control of Drinking Water Corrosion Potential at a Full Scale Plant Flavia Zraick <i>SUEZ, France</i> 14:15 The Effect of Steel Segment's Shielding Against Stray Current from DC Railway Systems Masahiko Takahashi <i>Tokyo Metropolitan Government, Japan</i>			Room 701 Technical
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
TOWARD THE ACHIEVEMENT OF SDGS RELATING TO SANITATION AND WASTEWATER MANAGEMENT (SDG 6.2, 6.3) III Chair: Satoshi Takizawa <i>Japan</i> <p>Ministry of Land Infrastructure, Transport and Tourism, Japan (MLIT) and Ministry of Environment (MOE) have been conducting the international activities to support developing countries to achieve the SDGs relating to sanitation, wastewater management (Off-site and On-site) and protection of good water quality (Environment Water Quality Standard) based on the experience in Japan.</p> <p>Japan International Cooperation Agency (JICA) and Asian Development Bank (ADB) as a donor organization will explain the activities relating to the SDGs. JICA will highlight the importance of capacity development and ADB will explain financing mechanism for wastewater management and sanitation improvement.</p> <p>Innovative technologies for achievement of the SDGs will be explained by private sector.</p>		Room ICR Workshop	
IMPLEMENTING INFRASTRUCTURE ASSET MANAGEMENT: GOOD PRACTICES AND CHALLENGES Chair: Helena Alegre <i>Portugal</i> and Takyuki Sawai <i>Japan</i> How to implement sound infrastructure asset management in water utilities, following the ISO 55x standards? <p>Implementing sound infrastructure asset management is still a challenge for both private and public water utilities. Sharing implementation experiences, success factors and discussing best practices is essential. Specific objectives include introducing the ISO 5500X style, clarifying what is necessary for successful implementation of AM especially in Japan, discussing what the private companies can do to support utilities not only to implement AM but also to support proper management.</p> <p>Speakers: Helena Alegre, <i>LNEC, (PT)</i>, Boudewijn Neijens, <i>Copperleaf, (CA)</i>, João Feliciano, <i>AGS, (PT)</i>, Tetsuya Mizutani, <i>Sendai City, (JP)</i> and Takyuki Sawai, <i>NJS (JP)</i></p>			Room 701 Workshop
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>			Plenary Room

Tuesday

Programme

Keynote Plenary	09:00 - 09:45		
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>			Plenary Room
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
PUMPS & ENERGY Chairs: Santino Di Berardino <i>Portugal</i> and Ryoko Yamamoto-Ikemoto <i>Japan</i> 10:30 Energy Conservation Methods at The Saitama Prefectural Waterworks Shigeharu Toyoda <i>Saitama Prefectural Public Enterprise Bureau, Japan</i> 10:45 Water Supply Control System for Smarter Electricity Power Usage Adopting Demand-Response Scheme Hiroshi Koibuchi <i>Hitachi Ltd., Japan</i> 11:00 Optimisation of Energy Costs in The Lifecycle of Electro-pump Groups Francisco Braga <i>EPAL, S.A., Portugal</i> 11:15 Reduction of Environmental Burden Using Priority Indices to Improve Efficiency of Pumps Kazuo Ogura <i>Hanshin Water Supply Authority, Japan</i>		Room 703 Technical	
WATER COMMUNICATION IN ERA OF FAKE NEWS Chair: Kari Elisabeth Fagernaes <i>Norway</i> How do our stakeholders perceive the message we are trying to tell them? The perception that customers have of water influences how they value the services provided by water utilities and other agencies. These perceptions are not always based on facts. This session will focus on how to get the message across successfully from water professionals to stakeholders. During the session, participants will work with different cases, sharing experience and discussing best practises. Speakers: Kari Elisabeth Fagernaes , <i>Agency for Water and Wastewater Services (NO)</i> and Dr Peter Prevos , <i>Coliban Water (AU)</i>			Room 801 Skills
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
DISTRIBUTION NETWORK & ENERGY SAVINGS Chairs: Sadahiko Itoh <i>Japan</i> and David Duccini <i>France</i> 13:30 Application of Water Supply Operation System to Improve Efficiency of Hydraulic Power Generation Toshihiko Tanaka <i>Tokyo Metropolitan Government, Tokyo, Japan</i> 13:45 Total Power Smoothing Based on Wide-Area Coordination of Multiple Sewage Facilities Kenji Fujii <i>Hitachi, Ltd., Japan</i> 14:00 Reducing Electricity Consumption by Directly Connected Water Distribution Pump Katsutoshi Koyama <i>TSS Tokyo Water Co., Ltd, Japan</i> 14:15 Electric Power Usage in the Future of a Water Distribution System Yasuhiro Arai <i>Tokyo Metropolitan University, Japan</i>		Room 703 Technical	
CLIMATE SMART UTILITIES: TOOLS FOR RESILIENCE Organiser: IWA & Partners Trainers: Philip De Souza <i>Emanti, South Africa</i> and Raul Glotzbach <i>Programmes Officer, IWA, The Netherlands</i> Urban stakeholders have a critical role to play in preserving the integrity of fresh water resources on which they depend on. A disruption in supply of freshwater resources to cities can have significant economic, environmental and health consequences, therefore, improving water security and protecting water resources which cities rely on is a priority. This training provides an opportunity for water utilities to explore tools that can integrate climate information into their planning processes. Climate change is impacting availability and quality of water worldwide, and utilities need to plan, prepare and adapt to climate risks. The Flood and Drought Portal (http://www.floordroughtmonitor.com/) provides a package of applications to assist utilities with information and assessment of climate hazards and risks, and support water safety planning approaches. <i>Registration is required</i>			Room 801 Training
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
CHEMICAL OPTIMISATION Chairs: Reynald Bonnard <i>France</i> and Akihiko Terada <i>Japan</i> 15:45 Arsenic Removal to <1 Ug/L By Coprecipitation With In-Situ Generated Fe(III) Precipitates With and Without Pre-Oxidation Arslan Ahmad <i>KWR Watercycle Research Institute, Netherlands</i> 16:00 Study of Coagulation Agitation Control for Improving the Efficiency of Rapid Filtration System Kunio Noami <i>METAWATER Co.,Ltd, Japan</i> 16:15 Optimization of Powdered Activated Carbon Treatment With Intermediate Chlorination, Modifying Channels as Mixing Basins Yoichi Yamamoto <i>Bureau of Waterworks Tokyo Metropolitan Government, Japan</i> 16:30 Applications of Stabilized-hypobromite as a Novel Biocide for RO Commercial Plants Hiro Yoshikawa <i>ORGANO Corporation, Japan</i>		Room 703 Technical	
CLIMATE SMART UTILITIES: TOOLS FOR RESILIENCE Organiser: IWA & Partners Trainers: Philip De Souza <i>Emanti, South Africa</i> and Raul Glotzbach <i>Programmes Officer, IWA, The Netherlands</i> Urban stakeholders have a critical role to play in preserving the integrity of fresh water resources on which they depend on. A disruption in supply of freshwater resources to cities can have significant economic, environmental and health consequences, therefore, improving water security and protecting water resources which cities rely on is a priority. This training provides an opportunity for water utilities to explore tools that can integrate climate information into their planning processes. Climate change is impacting availability and quality of water worldwide, and utilities need to plan, prepare and adapt to climate risks. The Flood and Drought Portal (http://www.floordroughtmonitor.com/) provides a package of applications to assist utilities with information and assessment of climate hazards and risks, and support water safety planning approaches. <i>Registration is required</i>			Room 801 Training
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>			Plenary Room

Tuesday

Programme

Keynote Plenary	09:00 - 09:45	
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>		
Coffee Break	09:45 - 10:30	
Session 1	08:30 - 12:00 *	
PERFORMANCE ASSESSMENT & IMPROVEMENT IN URBAN WATER SERVICES: THE IWA APPROACH Organiser: IWA Benchmarking and Performance Assessment Specialist Group Trainers: Elvira Estruch <i>Industrial Engineer-Universitat Politècnica de Valencia</i> and Enrique Cabrera Rochera <i>Professor of Fluid Mechanics-Universitat Politècnica de Valencia (ES)</i> Well into the 21st century, the challenges for water services (population growth, increasing water demand, climate change, energy restrictions...) require efficient water services more than ever. Obtaining a clear picture of the performance level, and the possible paths for improvement remain one of the key tools that utility managers may use to face these challenges. Developing and implementing targets to achieve the Sustainable Development Goals will also rely on assessment, and monitoring of key performance indicators (the SDG targets).		Room 802 Training
Lunch	12:00 - 13:30	
Session 2	13:00 - 15:30 *	
PERFORMANCE ASSESSMENT & IMPROVEMENT IN URBAN WATER SERVICES: THE IWA APPROACH Organiser: IWA Benchmarking and Performance Assessment Specialist Group Trainers: Elvira Estruch <i>Industrial Engineer-Universitat Politècnica de Valencia</i> and Enrique Cabrera Rochera <i>Professor of Fluid Mechanics-Universitat Politècnica de Valencia (ES)</i> Well into the 21st century, the challenges for water services (population growth, increasing water demand, climate change, energy restrictions...) require efficient water services more than ever. Obtaining a clear picture of the performance level, and the possible paths for improvement remain one of the key tools that utility managers may use to face these challenges. Developing and implementing targets to achieve the Sustainable Development Goals will also rely on assessment, and monitoring of key performance indicators (the SDG targets).		Room 802 Training
Coffee Break	15:00 - 15:45	
Session 3	16:00 - 17:00 *	
PERFORMANCE ASSESSMENT & IMPROVEMENT IN URBAN WATER SERVICES: THE IWA APPROACH Organiser: IWA Benchmarking and Performance Assessment Specialist Group Trainers: Elvira Estruch <i>Industrial Engineer-Universitat Politècnica de Valencia</i> and Enrique Cabrera Rochera <i>Professor of Fluid Mechanics-Universitat Politècnica de Valencia (ES)</i> Well into the 21st century, the challenges for water services (population growth, increasing water demand, climate change, energy restrictions...) require efficient water services more than ever. Obtaining a clear picture of the performance level, and the possible paths for improvement remain one of the key tools that utility managers may use to face these challenges. Developing and implementing targets to achieve the Sustainable Development Goals will also rely on assessment, and monitoring of key performance indicators (the SDG targets).		Room 802 Training
Break	17:15 - 17:30	
Keynote Plenary	17:30 - 18:15	
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>		

* Timetable diverge from the main schedule

Tuesday

Business Forums

Keynote Plenary		09:00 - 09:45	
The Status of and Outlook for Sustainable Development Goal 6 <i>Claudia Sadoff</i> Director-General, International Water Management Institute, Sri Lanka		Plenary Room	
09:45 – 10:30 METAWATER Introduction of METAWATER Plant Engineering Business <i>Presented by: Noboru Okuda and Masao Tabata</i> METAWATER is one of the leading water and environment engineering companies in Japan. This year marks 10th anniversary. We have been designed and installed mechanical and electrical equipment in drinking and wastewater treatment plant to provide any clients with the best solution. Our various service such as EPC as a general contractor, O&M, and privatization, make a contribution to realization of more sustainable social infrastructures.	Room 01 Business	09:45 – 10:30 WATERWORKS BUREAU, CITY OF YOKOHAMA Companies Support Through International Cooperation <i>Presented by: Eriko Sawai</i> Our initiatives to water related companies to expand their business abroad.	Room 02 Business
		ENVIRONMENTAL PLANNING BUREAU, CITY OF YOKOHAMA Promotion of International Cooperation by Yokohama City through Public-private Partnership in Sewerage <i>Presented by: Noriaki Yokouchi and Masayuki Shiga</i> Yokohama City, aiming at solving environmental problems in sewage works. The cooperation, currently extending to World cities, collaborates with private companies and assist them.	
10:30 – 11:15 KUBOTA CORPORATION Deep Tunnel in Chicago, USA and Pumping Technology for Drainage <i>Presented by: Tom Kunetz (WEF) and Akiyoshi Kawamura</i> Deep tunnel is a way to go for future sewerage network to control CSO & flood and to collect sanitary wastewater efficiently. In this forum, Tom Kunetz, President-Elect WEF tells about Chicago Deep Tunnel followed by KUBOTA's presentation on related solutions.	Room 01 Business	10:30 – 11:15 XYLEM INC Autonomous Mobile Environmental Monitoring Platforms <i>Presented by: Michael Watt</i> From autonomous underwater vehicles to vessels of opportunity, hydrological sampling systems have become smaller smarter and more mobile to meet the increasing demands of environmental market.	Room 02 Business
11:15 – 12:00 KURIMOTO, LTD. KURIMOTO information <i>Presented by: Kurimoto, Ltd.</i> Kurimoto is a leading manufacturer of high quality custom engineered pipes and valves and with a long history of proven performance and contributed to security and safety of water supply since 1909. Kurimoto continues to refine technologies.	Room 01 Business	11:15 – 12:00 JFE ENGINEERING CORP. JFE's Advanced Technology for Water Solutions <i>Presented by: Dr. Kaoru Kikuyama</i> JFE Engineering is the leading engineering company in Japan and globally, whose strength lies in fields such as water- and environmental solutions. We will share our advanced technologies and solutions in EPC, O&M and business operation.	Room 02 Business
12:15 – 13:00 SWING CORPORATION Sustainable Solution for Maintaining Water Environment <i>Presented by: Tomoki Tateno, Shuto Kaneko and Sumiyo Sato</i> Methane fermentation technologies and various installation results. Features <ul style="list-style-type: none"> • KUROBE PFI Biomass Recycling Plant: Convert coffee residue and sewage sludge into fuel and compost • KANDASTU Methane Fermentation Facility: Largest-scale kitchen waste biomass recycling plant in Japan 	Room 01 Business	12:00 – 13:30 CONFEDERATION OF DANISH INDUSTRY Smart Solutions to Reduce Water Leakage <i>Presented by: Danish Water Utilities and Water professionals from companies</i> In many parts of the world, the water resources are over exploited, which makes it difficult to fulfil the drinking water demands on quantity and quality. At the same time the leakage of water in many utilities are high. New developments in leakage management using smart data will be presented.	Room 02 Business
Keynote Plenary		17:30 - 18:15	
Decision Making With Uncertainty – Challenges Facing Water Professionals <i>Shinichiro Ohgaki</i> President of Japan Water Research Center (JWRC)		Plenary Room	

Tuesday

Business Forums

Keynote Plenary		09:00 - 09:45	
The Status of and Outlook for Sustainable Development Goal 6 Claudia Sadoff <i>Director-General, International Water Management Institute, Sri Lanka</i>		Plenary Room	
13:30 – 14:15 COSMO KOKI CO., LTD. About Cosmo Koki Co. Ltd. <i>Presented by: Kensuke Nakazato</i> Cosmo Koki Co. Ltd. is a company which has specialties. One of our unique state-of-the-art technologies is the pipe work under pressure. Using the technology, we do pipe works like bypassing and the valve insertion without shutting water supply.		Room 01 Business	13:30 – 14:30 IWA - ISLE EMERGING TECHNOLOGIES PROGRAM Challenges and Solutions in Water Recycling from Industrial Wastewater Stream <i>Keynote 1: AnMBR Technology: Boosting Circular Economy in Sewage Treatment</i> Jose Ramon Vazquez Padin <i>Area Manager at the Department of Innovation of FCC Aqualia SA</i> <i>Keynote 2: What Makes a Technology Attractive in the Eyes of an Investor</i> Maarten Ter Keurst <i>Director of Investments, PureTerra Ventures</i> <i>Panel Discussion:</i> Panel Discussion by Isle Utilities, summarizing lessons learned from Best Practices and case studies and highlights strategies for innovative solutions in water recycling from industrial waste water stream. Panel member: Aqualia ; PureTerra Ventures; Isle Utilities; Suez.
14:15 – 15:00 MEIDENSHA CORPORATION Meidensha Corporation Products & Services (Ceramic Flat Sheet Membrane) <i>Presented by: Terutake Niwa</i> 1. Introduction Products & Services. More than 120 years of experience 2. Cutting-edge technologies in advanced water treatment systems. Ceramic flat sheet membrane technology allows for water purification and resource recovery for many industries.		Room 01 Business	14:30 – 15:30 IWA - ISLE EMERGING TECHNOLOGIES PROGRAM IWA-ISLE Emerging Technologies Pitches <i>Speaker: Benjamin Tam Head of Business Unit Strategic Projects, Isle Utilities</i> Hear from entrepreneurs with innovative (waste) water solutions. Pitches with Q&A from a distinguished group of judges (BASF, Aqualia, PureTerra Ventures). Emerging Technologies include: Blue Foot Membranes (Belgium); LG Sonic (Netherlands) Luminultra (Australia); Carex (Sweden); Aquaforus (New Zealand);
15:45 – 16:30 NIHON SUIDO CONSULTANTS CO., LTD. Innovative Technology of Maintenance and Management System for Water Supply and Sewerage <i>Presented by: Tatsuya Tobe</i> Real-time Flood Management System, Inflow and Infiltration Survey Sewerage, Water Resource Management by Water Circulation Model, Reduction of Non-Revenue Water. FUJI TECOM INC. Water Leak Prevention Equipment <i>Presented by: Masato Shimotsuya</i> <ul style="list-style-type: none"> Water Leak Detection Equipment Training Center (Equipment) Equipment Supply, All Over the World 		Room 01 Business	15:45 – 16:30 NETHERLANDS PAVILION United Dutch Water Expertise – Integrated Solutions for Urban Resilience and a Circular Economy <i>Presented by: Netherlands Water Partnership</i> What do you do when you live in a small and densely populated country, where three major rivers flow out into the sea? You become creative, you organize, combine, invent and cooperate to make the most of your resources and space. Hallmark of Dutch water expertise is the integrated approach: water safety, water provision and infrastructure combined with the needs of people, planet and profit. Join the Business Forum and learn more about our wide range of expertise!
16:30 – 17:15 NAGAOKA INTERNATIONAL CORPORATION Nagaoka Business to Effectively Utilize the Finite Water Resource <i>Presented by: Yasuhisa Umezu</i> Unique and environmentally-friendly water intake and water treatment technologies. Highly acknowledged with rich-experience and various application records in Japan and expanding business into China, Malaysia, Vietnam, Thailand.			16:30 – 17:15 Room 02 Business NUKOTE COATING SYSTEM Robotic Applications in Pipe Rehabilitations <i>Presented by: Michael Osborne</i> 360 Ringtech® Robotics are capable to consistently apply plural component elastomeric polyureas, polyurethanes and ancillary products required, for use as liners in the rehabilitation and new construction of liquid gathering, storage and distribution systems. Our linings system provides a competitive alternative to CIPP, PVC, Rubber and other slip lining technologies.
Keynote Plenary		17:30 - 18:15	
Decision Making With Uncertainty – Challenges Facing Water Professionals Shinichiro Ohgaki <i>President of Japan Water Research Center (JWRC)</i>		Plenary Room	

Wednesday, 19 September



Track 1
WATER UTILITY
MANAGEMENT

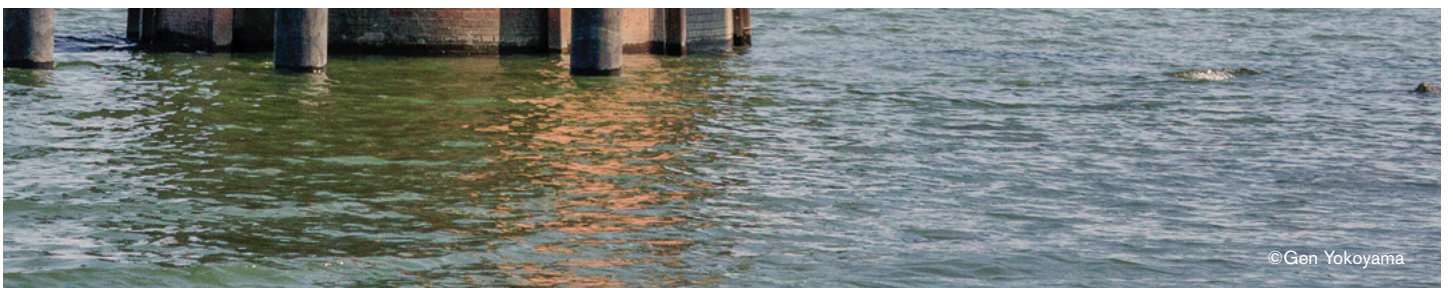
Track 2
WASTEWATER

Track 3
DRINKING WATER AND
POTABLE REUSE

Track 4
URBAN WATER
SYSTEMS

Track 5
COMMUNITIES,
INTEGRATED
PLANNING AND
THE ENABLING
ENVIRONMENT

Track 6
LARGE SCALE WATER
MANAGEMENT



Wednesday Spotlight

Keynote Plenary • International Conference Room

09:00 - 09:45

Innovation to Implementation – Academia and Utility Perspectives



Keynote speakers:

Sudhir Murthy

CEO, NEWhub, United States

Mark van Loosdrecht

Professor in Environmental
Biotechnology, Delft University
of Technology, Netherlands



Panel moderator:

Paul Brown

President & CEO, Paul Redvers
Brown Inc., United States

Panel discussion:

Harry Seah

Chief Technology Officer, PUB, Singapore

Jonathan Clement

Global Technology and Business
Development Officer, Nanostone
Water, United States

Wim Drossaert

CEO, Dunea, Netherlands

Cathy Qing Hu

Professor, Southern University of
Science and Technology, China

17:15 - 17:45

"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities



Keynote speaker:

Rebekah Eggers

Global Water Leader, WW IoT,
Energy, Environment, & Utilities
Business, IBM, United States

Panel moderator:

Will Sarni

Founder and CEO, Water
Foundry, LLC, United States

Panel discussion:

Patrick Decker

President & CEO, Xylem Inc.,
United States

Eveline Volke

Professor, Ghent University, Belgium

Avishek Choudhury

Water Industry Advisor, Tata
Consultancy Services, India

Arlinda Ibrahimllari

Technical Director, Sanitation Department
in UKKO Joint Stock Company, Albania

IWA Pavilion

IWA Report Launch

12:50 - 13:10

Manual on Human Rights to Water and Sanitation for Practitioners in French

IWA Stand # 115 @ Exhibition Corner

Chair: Carolina Latorre - co-author and
IWA Water Policy and Regulation lead.

Speakers: Kala Vairavamoorthy IWA
ED; Robert Bos: Leading author and
IWA Senior advisor; Ebah Basile,
General Manager SODECI Water
Company Ivory Coast; Sylvain Usher,
Executive Director, African Water
Association (AfWA) Ivory Coast.

15:10 - 15:40

The 21st Century Digital Water Utility: Creating Abundance

by IWA and Xylem

"Digital solutions provide a much-
needed response to smarter and
more effective water strategies for
utilities and businesses", states Kala
Vairavamoorthy, IWA Executive Director.
"Without vastly improved data and
analytics, public institutions, businesses
and society will struggle or fail to meet
21st century demands for water."



Wednesday promises to deliver more
activities with and for our members!
Join the launch of IWA's Action Agenda
for Basin Connected Cities at the
Water-Wise Hub, a strategic agenda
for connecting cities with their basins.
In the afternoon, grab a coffee at the
Pavilion with IWA and Xylem leaders
highlighting the new Digital Water Report.

10:30 - 12:00

Integrating Nature-Based Solutions for Water in Urban Water Infrastructure

Chair: Tony Wong *Australia*

How to best integrate natural-based solutions with conventional urban water infrastructure to enhance the water resilience, livability and sustainability of cities and towns?

In March 2018, the UN World Water Development on Nature-based Solutions for Water was launched. During this session, Prof. Wong will provide an overview of the scientific developments that underpin the adoption of nature-based solutions for water, from the understanding of water-related natural processes and ecosystem services.

Nature-based solutions encompass the full spectrum of activities in enhancing ecosystem services; from nature conservation to biomimicry. Nature conservation and restoration include regional planning for the protection of natural assets, the restoration of degraded environments such as mangroves and wetlands, reforestation of watershed and the rehabilitation of degraded waterways. Within an urban context, nature-based solutions include the combination of biomimicry through constructed systems embedded into the built form.

13:30 - 17:15

Science and technology development is needs-driven and existing potentially disruptive technologies could help to accelerate innovation and adoption activities in the water sector. The main purpose of the Science to Practice Forum is to identify mechanisms and processes on translating science and technology into practice. Through this forum we would like to identify elements during this translation process such as challenges and barriers, necessary elements to lead to success, lessons learned, etc.

We will also exchange ideas on how science and technology can be translated into practices by different organizations and individuals from different segments (academia, utility, government, etc.) and in different areas and regions. The forum aims to be summarized into a report on the translation of science into practice with recommendations in terms of a set of general and specific challenges/barriers we might face (and how to overcome them), what key factors lead to success, etc. The main audience of this forum will be researchers, utilities, consultancy and all other individuals and organizations interested in translating science into practice.

Exhibition

15:45 - 17:15

Business Forum - Water Management in Megacities II

Chair: Satoshi Takizawa *Japan*

Organised by: Japan Society on Water Environment, Japan Water Works Association, Japan Sewerage Works Association, Bureau of Waterworks and Bureau of Sewerage, Tokyo Metropolitan Government

Cooperated by: Japan International Cooperation Agency (JICA)

Megacities of developed countries that experienced rapid urbanization and population growth, and megacities of metropolises that are expected to be future megacities, will share knowledge on various issues of water and sewerage. We intend to discuss issues and responses that future megacities of developing countries face, and contribute to implementing the efficiency of comprehensive water management.



Wednesday

Programme

Keynote Plenary		09:00 - 09:45	
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
WASTEWATER TREATMENT PATHOGENS & ANTIBIOTIC RESISTANCE Chairs: Daisuke Sano <i>Japan</i> and Hisashi Satoh <i>Japan</i> 10:30 Bacteria and Parasite Eggs Exposure: a Case Study in a Vietnamese Community With Excreta Use for Agriculture Hidenori Harada <i>Kyoto University, Japan</i> 10:45 Occurrence and Reduction of Indigenous F-specific RNA Bacteriophage Genotypes at a Wastewater Treatment Plant Suntae Lee <i>Public Works Research Institute, Japan</i> 11:00 Discharge of Antibiotic Resistant Bacteria and Resistance Genes By Wastewater Treatment Plants Abidelfatah Nasser <i>Water Quality Research Laboratory, Ministry of Health, Israel</i> 11:15 Understanding the Occurrence of Antimicrobial Resistance in Water Systems and Strategies for its Reduction Sophie Courtois <i>SUEZ, France</i>		R. Hall A Technical	WATER QUALITY & RESTORATION Chairs: Lee Pitcher <i>United Kingdom</i> and Paul Seeley <i>United Kingdom</i> 10:30 City of Osaka Water Quality Improvement Initiatives for Dotonbori River and Higashiyokobori River Ayako Yoshida <i>Osaka City, Japan</i> 10:45 Study on the Analysis of Factors of Algal Occurrence in Tributaries for Evaluation of the Influence on the Nakdong River Kyeong Hwan Kang <i>Pusan National University</i> 11:00 A Basin Management Program to Improve Water Quality in Rivers Based on an Environmental Water Quality Predictive Model Guillermo Calvo-Brenes <i>Instituto Tecnológico de Costa Rica, Cartago, Costa Rica</i> 11:15 Suppression of Nutrient Release in Eutrophic Sediment by Sediment Microbial Fuel Cells Keiichi Kubota <i>Gunma University</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
WATER SAFETY PLANS & RISK ASSESSMENT Chairs: Marion Savill <i>New Zealand</i> and Terrence Thompson <i>Philippines</i> 13:30 Water Safety Plans at EPAL's Water Supply System - Risk Assessment of Pollution Events in the Surface Sources Rui Carneiro <i>EPAL, Portugal</i> 13:45 Implementation of HACCP in Mahasawat Water Treatment Plant, Thailand for Safety Water Worawit Whangchenchom <i>Metropolitan Waterworks Authority, Thailand</i> 14:00 Common Themes Contributing to Recent Drinking Water Disease Outbreaks in Affluent Nations Steve Hrudehy <i>University of Alberta, Canada</i> 14:15 The QMRACatch Approach: Using Pathogen, Indicator and Source Tracking Data for Long-Term Water Safety Planning Andreas Farnleitner <i>Karl Landsteiner University of Health Sciences, Austria</i>		R. Hall A Technical	ENVIRONMENTAL IMPACTS ON DISCHARGE EFFLUENT Chairs: Rajeev Goel <i>Canada</i> and Akiko Miya <i>Japan</i> 13:30 Health-related Inactivation Requirements for UV-irradiated Wastewater Effluents Discharged into Recreational Surface Water Regina Sommer <i>Medical University Vienna, Austria</i> 13:45 The Physicochemical and Microbiological Impacts of Treated Wastewater on a Receiving Stream in South Africa Nico van Blerk <i>ERWAT, South Africa</i> 14:00 Case Studies of Toxicity Reduction Evaluation / Toxicity Identification Evaluation on Industrial Effluent in Japan Haruna Watanabe <i>National Institute for Environmental Studies, Japan</i> 14:15 Assessment of Rainfall-derived Infiltration and Inflow in Urban Sewer Systems by Adaptive Methods Maryam Beheshti <i>Norwegian University of Science and Technology (NTNU), Norway</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
DISASTERS & RESPONSE Chairs: Arsian Ahmad <i>Netherlands</i> and Maria João Benoliel <i>Portugal</i> 15:45 Development of System that Promptly Monitors the Water Supply to the Government Agencies Immediately After Earthquake Takayuki Kawado <i>Bureau of Waterworks, Tokyo Metropolitan Government, Japan</i> 16:00 Implementation Model of Disaster Prevention Drill Utilizing PDCA Cycle in Capital of Tokyo Akihiko Takei <i>Tokyo Metropolitan Government, Japan</i> 16:15 Are We Prepared? Development and Assessment of Emergency Water Supply Preparation Planning Lisa Bross <i>Universität der Bundeswehr, Germany</i> 16:30 Emergency Response in a Drinking Water System Operating Without SCDA and Mobile Communications - Case Study: West Region Rui Sancho Águas do Algarve, SA, Portugal 		R. Hall A Technical	WATER RESOURCES & WATER QUALITY Chairs: Yoshiro Ono <i>Japan</i> and Tahri Khalid <i>Morocco</i> 15:45 Construction of an Effective and Efficient Pesticide Examination System Toshiaki Ueno <i>Bureau of Waterworks, Tokyo Metropolitan Government, Japan</i> 16:00 From Secondary Effluent to IPR Quality Using Soil Aquifer Treatment System Roy Elkayam <i>The Hebrew University of Jerusalem, Israel</i> 16:15 Study on the Effluent BOD Target for the Six WWTPs Along the Tama River to Meet EQS, Hiroko Asakura <i>Tokyo Metropolitan Government, Japan</i> 16:30 Evaluating the Influence of Raw Water Quality on Treatment Cost in Developing Countries, Marcelo Libânio <i>Federal University of Minas Gerais, Brazil</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>			Plenary Room

Wednesday

Programme

Keynote Plenary	09:00 - 09:45		
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
INNOVATORS WORKSHOP Chairs: Mark van Loosdrecht <i>Netherlands</i> and Sudhir Murthy <i>United States</i> How do we expand programming and create bridges between innovators within IWA? <p>In order for IWA to improve service to all stakeholder groups involved in innovation activities, this workshop will gather innovators from different IWA stakeholder profession groups (Academia, Utilities, Investors, Manufacturing, Regulators and Consulting/AE firms) to discuss how to develop approaches for more rapid dispersion of innovations, how to engage innovators and create bridges for innovators to share and collaborate across groups. Each group will expand upon the latest innovations that are improving their practice with bridge implications to others.</p> <p>The workshop will have two panels, panel one lays the stage (Jonathan Clement, (NL), Trevor Bishop, (UK), Peter Vanrolleghem, (CAN), Mark van Loosdrecht, (NL)) and the second panel further elaborate and build the programming (Daniel Nolasco, (ARG), Paul O'Callaghan, (IRL), Karen Rouse, (AUS), Bo Højris, (DK)).</p>		Room 101 Workshop	WATER REUSE OPPORTUNITIES & CHALLENGES TO AUGMENT NON-POTABLE & POTABLE WATER SUPPLIES Chair: Jörg Drewes <i>Germany</i> What are the current trends and developments in both non-potable and potable water reuse? <p>This session features four industry leaders providing overviews on recent trends in both non-potable and potable reuse, David Cunliffe will speak about the new WHO Potable Reuse Guidelines. Harry Seah will speak about the evolution of treatment barriers and future plans of Singapore's New Water concept. Joan Rose will discuss the need to redefine secondary treatment as an appropriate barrier against emerging microbial contaminants. Finally, Jörg E. Drewes will feature recent regulatory trends and frameworks for potable water reuse in California.</p> <p>Speakers: David Cunliffe, <i>South Australia Health, (AU)</i>, Harry Seah, <i>Public Utility Board, (SG)</i>, Joan Rose, <i>Michigan State University, (US)</i> and Jörg E. Drewes, <i>Technical University of Munich, (DE)</i></p>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
SCIENCE TO PRACTICE FORUM Chairs: Jurg Keller <i>Australia</i> , Mark van Loosdrecht <i>Netherlands</i> , Hong Li <i>Netherlands</i> and Kim Sorensen <i>Switzerland</i> How to translate science into practice? <p>The main purpose of the Science to Practice forum is to identify mechanisms and approaches that enable uptake of scientific knowledge and technology expertise into practically applied innovation. Through this forum we would like to identify elements during this translation process such as: main challenges and barriers, processes that could lead to success, lessons learned from failures, and experiences to translate success into other expertise areas and regions. This session will highlight current or potential approaches being explored to address key industry needs or innovation hot-spots, which include experiences from the invited speakers of Mark van Loosdrecht, (NL), Wen-Tso Liu, (USA), Qing Hu, (CHN), Francois Gouws, (AUS), David Bergmann, (AUS).</p>		Room 101 Forum	EXPERIENCE AND CHALLENGES OF NON-POTABLE REUSE IN EAST ASIAN MEGACITIES Chairs: Jörg Drewes <i>Germany</i> and Hiroaki Tanaka <i>Japan</i> What are challenges to non-potable water reuse in megacities? <p>Non-potable reuse has contributed to sustainability and now preparation for disasters. Centralized recycle with municipal reclaimed water and decentralized recycle in building scale, and river flow augmentation have attracted attention in East Asian megacities. The future challenges will be integration of water, energy, and material recovery will be discussed.</p> <p>Speakers: Dr. Seichiro Okamoto, Japan Sewage Agency (JP), Mr. Kinji Yamada, Tokyo Metropolitan Government (JP), Prof. HU Hong-Ying, Tsinghua University (CN) and Dr. CUI Yong, Beijing Boda Water Co., Ltd. (CN)</p>
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
SCIENCE TO PRACTICE FORUM Chairs: Jurg Keller <i>Australia</i> , Mark van Loosdrecht <i>Netherlands</i> , Hong Li <i>Netherlands</i> and Kim Sorensen <i>Switzerland</i> How to translate science into practice? <p>The second part of the Science to Practice forum will showcase a range of examples on approaches how to establish collaborations between scientists/technology developers and end-users in practice to enable science-to-practice translation and implementation. These examples are ranging from country-wide R&D organizations over local collaboration initiatives to individuals with particular relevant experience, and covering different segments with a 'World-Café' style discussion in parallel. Contributors to this session are: Dhesigen Naidoo, (ZA), Tony Wong, (AUS), Olaf van der Kolk, (NL), Jurg Keller, (AUS), Christian Loderer, (DE), Kim Soerensen, (CH), Jose Vazquez, (ES), Ana Soares, (UK), and Mark van Loosdrecht, (NL).</p>		Room 101 Forum	WATER REUSE FOR EMERGING ECONOMIES: LESSONS LEARNED FROM DISTRIBUTED WATER REUSE IN JAPAN Chair: Olivier Lefebvre <i>Singapore</i> How to adapt the best water reuse practices for developing economies? <p>Learning from the experience of IWA WWC's host country Japan in decentralized water reuse for non-potable applications, the best practices and minimum set of guidelines to ensure trust and reliability of a sustainable water reuse scheme applicable for developing countries will be discussed. The format will consist of four presentations (15 minutes each) followed by a 30-min panel discussion.</p> <p>Speakers: Jörg E. Drewes, Technical University of Munich, (DE), Akiça Bahri, National Agricultural Institute of Tunisia, (TN), Olivier Lefebvre, National University of Singapore, (SG) and David Cunliffe, South Australian Department of Health, (AU)</p>
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>		Plenary Room	

Wednesday

Programme

Keynote Plenary		09:00 - 09:45	
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
CLIMATE CHANGE IMPACTS ON SOURCE WATER QUALITY AND URBAN WATER SUPPLY SYSTEMS Chair: Satoshi Takizawa <i>Japan</i> How will climate change influence water quality and water supply? Climate change influences source water quality, especially characteristics and abundance of natural organic matter (NOM) due to vegetation change. Experts from around the world will deliver the latest research outcomes on this issue and discuss about how to adapt the urban water supply systems to changing source water quality. Speakers: Kenneth Persson , <i>Lund University (SE)</i> , Jean-Philippe Croue , <i>Curtin University (AU)</i> , Zdravka Do Quang , <i>Suez (FR)</i> and Sadahiko Ito , <i>Kyoto University (JP)</i>		Room 601 Workshop	URBAN WATER SECURITY: A GLOBAL NETWORK, LOCAL SOLUTIONS Chair: Stuart White <i>Australia</i> How can the water sector best respond to drought? Urban water security and the response to drought are increasingly important issues for cities and towns. California, Sao Paulo, Capetown and the Australian Millennium Drought provide powerful examples of the vulnerability of population centres to drought. This workshop will canvas the issues with practical examples of responses, and map out an agenda for local solutions from a global perspective. Speakers: Stuart White , <i>University of Technology Sydney (AU)</i> , Joanne Chong , <i>University of Technology Sydney (AU)</i> , Lloyd Fisher-Jeffes <i>Aurecon (South Africa)</i> , Jean Spencer , <i>Anglian Water (UK)</i> and Francisco Cubillo Gonzalez , <i>Canal de Isabel II (ES)</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
WATER MANAGEMENT IN ENERGY PRODUCTION Chairs: Takahiro Suzuki <i>Japan</i> and Kwok-Wai Richard Tsang <i>Canada</i> 13:30 Reuse of Acidic Water in the Culture of the Oil-producing Microalga, <i>Pseudococcomyxa</i> Sp. KJ Tsubasa Kagami <i>Kurita Water Industries Ltd., Japan</i> 13:45 Sustainable Hydrogen Production from Seawater and Sewage Treated Water Using Reverse Electrodialysis Technology Mitsuru Higa <i>Yamaguchi University, Japan</i> 14:00 Treatment & Beneficial Reuse of Oil Field Wastewater in Agriculture William Stringfellow <i>University of the Pacific, United States</i> 14:15 Toward Sustainable Sewage Sludge Management in Hong Kong: an Eco-Efficiency Approach Using LCA and DEA Chor Man Lam <i>The Hong Kong Polytechnic University, China</i>		Room 601 Technical	SOCIAL ISSUES FOR WATER ACCESS Chairs: Vitaly Gitis <i>Israel</i> and Prosun Bhattacharya <i>Sweden</i> 13:30 Is Non-Piped Drinking Water the Solution for Access for All? An Evaluation of Developments in Mexico by Joshua Greene <i>Joshua Greene University of Geneva, Switzerland</i> 13:45 Reinstating Complexity in Water Access Indicators: Evidence from Mexico Anna Peixoto-Charles <i>University of Geneva, Switzerland</i> 14:00 Linking Socio-environmental Characteristics With Behavioral Determinants in Predicting Household Water Treatment Practice Daniel Daniel <i>TU Delft, Netherlands</i> 14:15 Comparison of Alternative Water Supply Methods for Small Supplies in Japan Kunihisa Takahashi <i>Japan Water Research Center, Japan</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
MICROBIAL ECOLOGY Chairs: Krishna Pagilla <i>United States</i> and Sanin Musovic <i>Denmark</i> 15:45 The Use of Next Generation Sequencing as a Monitoring Tool for Microbial Drinking Water Quality from Source to Tap Louise Vansacker <i>De Watergroep, Belgium</i> 16:00 Appropriate Biological Design Factors for the Optimization of Horizontal Subsurface Flow Wetlands' Efficiency Lee-Hyung Kim <i>Kongju National University, Republic of Korea</i> 16:15 Effects of Backwashing on Ammonia Removal Performance of Granular Activated Carbon Used for Drinking Water Purification Jia Niu <i>Fujian University of Technology, China</i> 16:30 Evaluation of Microbial Diversity in Filters Removing Emerging Micropollutants Cesar Mota Filho <i>Federal University of Minas Gerais, Brazil</i>		Room 601 Technical	POLICY RESPONSES TO CONTAMINANTS OF EMERGING CONCERNS IN FRESHWATER - TAKING ADVANTAGE OF NEW SCIENTIFIC DEVELOPMENTS Chair: Stephanie Rinck-Pfeiffer <i>Australia</i> New Scientific Developments to analyse Contaminants of Emerging Concerns New Scientific Developments to analyse Contaminants of Emerging Concerns Water professionals need to address pollution by chemicals of emerging concerns (CECs), including low dose and mixtures effects as early indicators of toxic pathways, which cannot be evaluated using traditional methods. Experts have joined efforts with the Global Water Research Coalition to test and benchmark new methodologies and exchange knowledge on promising panel of assays. The results will be shared with the audience to enhance the acceptance of innovative water quality monitoring, and develop suitable safe thresholds for conventional but also alternative water schemes aiming to better protect ecosystem and human health. Speakers: Stephanie Rinck-Pfeiffer , <i>Global Water Research Coalition, (AU)</i> , Frederic Leusch , <i>Griffith University, (AU)</i> , Shane Snyder , <i>Nanyang Technological University, (SG)</i> , and Armelle Hebert , <i>Veolia, (FR)</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>			Plenary Room

Wednesday

Programme

Keynote Plenary	09:00 - 09:45		
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>			Plenary Room
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
COMMUNICATIONS IN A CRISIS SITUATION Chair: Kari Elisabeth Fagernaes <i>Norway</i> How do you communicate efficiently to the public, stakeholders, politicians and others during a crisis? <p>Communication is crucial during a crisis, and is often the make or break for the perceived result or outcome of the situation. During the last years, many new engagement methods and communication tools have been developed. And the field of communication has evolved. How can we use new (and old) tools to communicate better in a critical situation that a crisis is? This interactive workshop will explore the resources and tools available, share experiences and discuss best practices using different cases.</p> Speakers: Kari Elisabeth Fagernaes , <i>Agency for Water and Wastewater, Oslo, (NO)</i> and Paula Kahoe , <i>San Francisco Water Power Sewer, (US)</i>		Room 605 Workshop	
CITIES IN TRANSITION Chairs: Sandra Hall <i>Australia</i> and Luis Corominas <i>Spain</i> 10:30 International Cooperation of Tokyo Waterworks: Support in Developing Human Resources Rooted in Local Communities Yosuke Saito <i>Tokyo Metropolitan Government, Japan</i> 10:45 Accelerating Water Sensitive City Transitions: Insights from Australian Cities Katie Hammer <i>Monash University, Australia</i> 11:00 The Role of Asset Management in the Utility of the Future Ana Luis EPAL - Empresa Portuguesa das Águas Livres, Portugal 11:15 Planning for the Future: A 50-year Wastewater Strategy For Greater Copenhagen Utility Ida Knudsen <i>HOFOR, Greater Copenhagen Utility, Denmark</i>			Room 606 Technical
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
BUILDING PATHWAYS FOR CITY-TO-CITY COLLABORATION ON CLIMATE RESILIENCY Chair: Trine Stausgaard Munk <i>Denmark</i> Which steps are necessary for increased knowledge-sharing and collaboration between cities on climate resilience? <p>This workshop aims to facilitate discussions on city-to-city collaboration and knowledge sharing in their transition towards water-wise cities. It is based on the blueprint developed following the bilateral MoU between Copenhagen and NYC. It will focus on sharing experiences with other city representatives already in city networks or looking to engage in integrated planning for climate resilience, both failures and successes, and together build pathways for improved city-to-city collaboration.</p> Speakers: Lykke Leonardsen , <i>City of Copenhagen (DK)</i> , Pat McCafferty , <i>Yarra Valley Water (AU)</i> and Lisa Andrews , <i>IWA (NL)</i>		Room 605 Workshop	
UTILITIES IN TRANSITION TO HIGH PERFORMANCE AND LOW CARBON Chair: Corinne Trommsdorff <i>Netherlands</i> What is the process for utilities to become champions of a carbon neutral future? <p>This interactive workshop will be an opportunity for urban leaders to share experiences on what can drive utilities to adopt a low-carbon mind-set in their planning. Climate change is directly impacting the availability and quality of water, and posing an increasing burden on cities to maintain water security.</p> Speakers: Camilla Acero , <i>Environmental Engineer, ANDESCO, (CO)</i> , Ana Teixeira , <i>Department of Asset Management, EPAL, (PT)</i> , Jan Peter van der Hoek , <i>Head of Strategic Centre of Waternet, (NL)</i> , Chira Wongburana , <i>WMA Director, (TH)</i> , Jammie Saena , <i>Chief Executive Officer, Samoa Water Authority, (WS)</i> , Olivier Bouly , <i>Directeur adjoint aux études et à l'ingénierie, Greater Paris Sanitation, (FR)</i> and Stephane Y. Bessadi , <i>ADB, (PH)</i>			Room 606 Workshop
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
RESILIENCE IN THE ROUND Chair: Trevor Bishop <i>United Kingdom</i> How do you operationalize water infrastructure resilience? <p>This session will showcase the latest research and practice focused on operationalizing water infrastructure resilience. The projects represented in this session provide participants with an opportunity to trial water infrastructure system-focused optioneering and tools and interrogate other frameworks and best practice examples from across the globe.</p> Speakers: Prof. Raziye Farmani , <i>Centre for Water Systems, University of Exeter, (UK)</i> , Dr Kate Baker , <i>Centre for Water Systems, University of Exeter, (UK)</i> , Dr Chris Sweetapple , <i>Centre for Water Systems, University of Exeter, (UK)</i> , Prof. Chad Staddon , <i>Centre for Water, Communities & Resilience, University of the West of England, (UK)</i> , Dr Sarah Ward , <i>Centre for Water, Communities & Resilience, University of the West of England, (UK)</i> , Jean Spencer , <i>Anglian Water, (UK)</i> , Tomoo Inoue , <i>MLIT, (JP)</i> and Mr Yosuke Matsumiya , <i>Japan Sewage Works Association, (JP)</i>		Room 605 Workshop	
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>			Plenary Room

Wednesday

Programme

Keynote Plenary		09:00 - 09:45	
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
DRINKING WATER LOW COST SOLUTIONS Chairs: Seungkwan Hong <i>Republic of Korea</i> and Florent Chazarenc <i>France</i> 10:30 Assessment of The Performance of Household Arsenic Removal Filter in Nepal Ryuji Ogata <i>The University of Tokyo, Japan</i> 10:45 Effect of Fe(III) on The Formation of Manganese Related Discoloration in Drinking Water Distribution Systems Baoyou Shi <i>Chinese Academy of Sciences, China</i> 11:00 Utilization of Iron Turning Waste as Efficient Point-of-Use Water Filtration Media for Removal of Endrin Eakalak Khan <i>North Dakota State University, United States</i> 11:15 Effect of Zero-Valent Iron Amendment on The Performance of Biosand Filters Mansoor Ahammed S V <i>National Institute of Technology, India</i>		Room 607 Technical	MODELLING TREATMENT PROCESSES Chairs: Daniela Conidi <i>Canada</i> and Wim Audenaert <i>Belgium</i> 10:30 Dynamic Simulation of N ₂ O Emissions from a Full-scale Partial Nitritation Reactor Eveline Volcke <i>Ghent University, Belgium</i> 10:45 Model Calibration and Validation of a Full-scale Reverse Osmosis Process Dorien Gaubomme <i>Ghent University, Belgium</i> 11:00 Design Optimization of Wastewater Treatment Plants Using Surrogate Models Chitta Behera <i>Technical University of Denmark, Denmark</i> 11:15 Model-based Evaluation of a Full-scale Wastewater Treatment Plant for Future Influent and Operational Scenarios Ramesh Saagi <i>Lund University, Sweden</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
MEMBRANE PROCESSES FOR DRINKING WATER TREATMENT I Chairs: Hiroshi Yamamura <i>Japan</i> and Maria Joao Rosa <i>Portugal</i> 13:30 Pilot Research Dreams to Full Scale Reality - Pioneering Drinking Water Treatment in Devon, UK Christopher Rockey <i>South West Water, UK</i> 13:45 Ceramic Membrane With Pre-coagulation Using Polyaluminium Chloride (PACl) in Water Reuse: Fouling and Virus Reduction Minkyu Park <i>University of Arizona, United States</i> 14:00 Impact of Permeate Flux on Biofilm and Performance Development in Membrane Systems Szilarud Bucu <i>King Abdullah University of Science and Technology, Saudi Arabia</i> 14:15 18 Years RO-Experience at WTP Heemskerk Biofouling Aspects and Impact Phosphate Moving to Phosphonate Free Antiscalant Gilbert Galjaard <i>PWN, Netherlands</i>		Room 607 Technical	RESOURCE RECOVERY III NUTRIENTS Chairs: Nari Park <i>Republic of Korea</i> and Celia Castro Barros <i>Spain</i> 13:30 Phosphorus Recovery from Sewage Sludge by High-Temperature Thermochemical Process Fumiki Hoshio <i>KUBOTA Corporation, Japan</i> 13:45 Global Compendium on Phosphorus Recovery and Recycling from Wastewater Christian Kabbe <i>Isle Utilities BV, Germany</i> 14:00 Removal and Recovery of Phosphorus from Wastewater: An Out Of The Box Approach Targeting The Effluent Oded Nir Ben-Gurion <i>University of the Negev, Israel</i> 14:15 From Wastewater to Fertilizing Irrigation Water - Pilot Scale Operation Caroline Kragelund <i>Danish Technological Institute, Denmark</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
MEMBRANE PROCESSES FOR DRINKING WATER TREATMENT II Chairs: Regina Sommer <i>Austria</i> and Torben Lund Skovhus <i>Denmark</i> 15:45 Improvement of Water Recovery Rate After NF Membrane Treatment of Contaminated Raw Water Katsuhito Arai <i>Tokyo Metropolitan Government, Japan</i> 16:00 Treatment of RO Concentrate from 5 Potable Reuse Facilities in The Southwestern U.S. With a New Photobiological Process Keisuke Ikehata <i>Pacific Advanced Civil Engineering, Inc., United States</i> 16:15 Evaluation of Pre-treatment Processes for SWRO by the Removal of Organic Substances Kazuaki Shimamura <i>Swing Corporation, Japan</i> 16:30 Reverse Osmosis Productivity Enhancement Through Novel Brine Treatment by Organic Liquid Extraction Marc Philibert <i>CIRSEE, France</i>		Room 607 Technical	RESOURCE RECOVERY IV NUTRIENTS & SULFUR Chairs: Maria Veiga <i>Spain</i> and Adeline Seak May Chua <i>Malaysia</i> 15:45 Pilot-scale Test for Recovering of Phosphorus by Sludge Acidification and Dewatering Morten Christensen <i>Aalborg University, Denmark</i> 16:00 Investigation of Seawater-based Urine Phosphorus Recovery (SUPR) Reactor Wentao Tang <i>Hong Kong University of Science and Technology, China</i> 16:15 Novel Techniques for The Recovery of Sulphur and Nitrogen from Contaminated Air at Wastewater Treatment Plant (WWTP) Wipa Charles Murdoch <i>University, Australia</i> 16:30 A Novel Approach to Recover S ₀ Using a Denitrification-desulfurization Process in a Biofilm-formed Membrane Reactor Aijie Wang <i>Harbin Institute of Technology, China</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>			Plenary Room

Wednesday

Programme

Keynote Plenary		09:00 - 09:45	
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
ANAEROBIC PROCESSES I Chairs: Caroline Kragelund <i>Denmark</i> and Yan Zhou <i>Singapore</i> 10:30 A Pilot Study on Integrated Two-Stage Anaerobic Digestion of Food Waste in an Innovative Dual-Cylinder Reactor Xuchuan Shi <i>Tsinghua University, China</i> 10:45 AnMBR Technology: Boosting Circular Economy in Sewage Treatment Jose R. Vazquez-Padin <i>FCC Aqualia SA, Spain</i> 11:00 The Start-up of an Endless Stream Anaerobic Digester to Treat Palm Oil Mill Effluent Kazumasa Kamachi <i>Swing Corporation, Japan</i> 11:15 Correlation Mechanism Between Microbial Community Distribution and Organic Metabolism in Urban Sewer System Xuan Shi <i>Xi'an University of Architecture and Technology, China</i>		Room 609 Technical	SUSTAINABLE DEVELOPMENT GOALS - BEYOND BENCHMARKING & BUSINESS AS USUAL Chair: Kathryn Silvester <i>Australia</i> How to use the Sustainable Development Goals as drivers for Business Strategy and Decisions? This workshop will showcase examples where organizations have moved beyond benchmarking their current contributions to the SDGs and are using the goals to influence strategy and drive business decisions. Participants will discuss their organisation's current status, how they can move to the next stage and what support IWA can provide. Speakers: Kathryn Silvester , <i>Sydney Water, (AU)</i> , Rosie Wheen , <i>WaterAid, (AU)</i> , Trine Munk , <i>Ramboll, (DK)</i> and Günter Langergraber , <i>University of Natural Resources and Life Sciences, (AT)</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
ANAEROBIC PROCESSES II Chairs: Henri Spanjers <i>Netherlands</i> and Germán Buitrón <i>Mexico</i> 13:30 The Mechanism of Thermal Hydrolysis Further Into Metabolic Pathway in Promoting Anaerobic Digestion of High Solid Sludge Chen Sisi <i>Tongji University, China</i> 13:45 Anaerobic Digestion System Using Vertical Type Filtration Thickener and Conical Bottom Type Steel Plate Digestion Tank Azusa Hayashi <i>Japan Sewage Works Agency, Japan</i> 14:00 Enzymatic Tailoring for Anaerobic Digestion Yields Improvement Jana Jantova-Patel <i>Cranfield University, United Kingdom</i> 14:15 Transformation of Dissolved Organic Matters in Anaerobic Digestion System With Thermal Hydrolysis Pretreatment Yan Zhou <i>Nanyang Technological University</i>		Room 609 Technical	THE VALUE OF WATER INFORMATION: OVERCOMING THE GLOBAL DATA DROUGHT Chair: Randolf Webb <i>Switzerland</i> How do we close the global water data gap with cost-effective, scalable solutions? The mismatch in water resource data: there has been a significant decline in coverage of national water data systems and globally verified water monitoring systems. At the same time, increased climate volatility and rising demand for fresh water has resulted in an urgent need for accurate, timely water data. Speakers: Randolf Webb , <i>Xylem (CH)</i> and Kelly McAndrew , <i>Xylem, (US)</i>
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
NUTRIENT REMOVAL II Chairs: Julian Sandino <i>United States</i> and Maite Pijuan <i>Spain</i> 15:45 Nitrification and Denitrification Performance of Downflow Hanging Sponge Reactor for Sewage Treatment in Thailand Wilasinee Yoochatchaval <i>Kasetsart University, Thailand</i> 16:00 Simultaneous Removal of Nitrate and Phosphate from Wastewater by Siderite Based Autotrophic Denitrification Yan Yang <i>University College Dublin, Ireland</i> 16:15 Experiences Mitigating Nitrous Oxide Emissions from a Full-Scale Sidestream Deammonification Reactor Mads Leth <i>VCS Denmark, Denmark</i> 16:30 Nitrogen Removal and N ₂ O Accumulation During Hydrogenotrophic Denitrification Yajiao Wang <i>School of Environment, Tsinghua University, China</i>		Room 609 Technical	WATER POLICY, GOVERNANCE & INSTITUTIONAL ARRANGEMENTS INCLUDING SDGS Chairs: Rasyikah Md Khalid <i>Malaysia</i> and David Tipping <i>Australia</i> 15:45 The Sustainable Development Goals: A Disruptor for the Water Sector Kathryn Silvester <i>Sydney Water, Australia</i> 16:00 The Quest for SDG6 and Community Water Services Resilience - Factor 3? Jarmo Hukka <i>Tampere University of Technology, Finland</i> 16:15 Integrating Sustainable Development Goals in Business Decision Support at a Danish Water Utility Troels Bjerre <i>VCS Denmark, Denmark</i> 16:30 Normative Interaction Between SDG 6 and the Human Rights to Water and Sanitation Miharu Hirano <i>Kyoto University, Japan</i>
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>			Plenary Room

Wednesday

Programme

Keynote Plenary	09:00 - 09:45		
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>			Plenary Room
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
INTEGRATING NATURE-BASED SOLUTIONS FOR WATER IN URBAN WATER INFRASTRUCTURE Chair: Tony Wong <i>Australia</i> How to best integrate natural-based solutions with conventional urban water infrastructure to enhance the water resilience, livability and sustainability of cities and towns? During this session, Prof. Wong will provide an overview of the scientific developments that underpin the adoption of nature-based solutions for water, from the understanding of water-related natural processes and ecosystem services. Examples of water sensitive urban design and other related international programs will be provided of how green infrastructure is being incorporated within the urban water systems at allotment and precinct scale through innovative building and landscape architectural design form. Discussion will include how water sensitive design principles can be integrated within city & regional planning with examples from around the world to illustrate the current practices and benefits, as well as some of the technical, economical & political barriers to be overcome to ensure further diffusion of this way of thinking. The session will conclude with a Q&A session with Prof. Wong and his quest panelists		Room ICR Lecture	DWTP REHABILITATION Chairs: Jacob Amengor <i>Ghana</i> and Piphat Boribannukul <i>Thailand</i> 10:30 Investigation for Applicability of Membrane Filtration Technology to Surface Water Containing Many Fouling Substances Namiko Nakamura <i>Osaka Municipal Waterworks Bureau, Japan</i> 10:45 Geophysics in Rapid Sand Filters - 3D Mapping of the Clogging Material for Optimization of Backwashing Theis Andersen <i>VIA University College, Denmark</i> 11:00 An Innovative Contact Oxidation Method for Effective Arsenic Removal at 10,000m³/day Large Scale Water Treatment Plant Takuro Nishimura <i>NAGAOKA International Corporation, Japan</i> 11:15 Promoting Grass-roots Energy Saving Actions for Facilities Including Purification Plants and Water Supply Stations Hitoshi Murakami <i>Tokyo Metropolitan Government, Japan</i>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
BUSINESS FORUM - WATER MANAGEMENT IN MEGACITIES I Chair: Organised by: <i>Japan Society on Water Environment, Japan Water Works Association, Japan Sewerage Works Association, Bureau of Waterworks and Bureau of Sewerage, Tokyo Metropolitan Government</i> Cooperated by: <i>Japan International Cooperation Agency(JICA)</i> Megacities of developed countries that experienced rapid urbanization and population growth, and megacities of metropolis that is expected to be future megacities, will share the knowledge on various issues of water and sewerage. We intend to discuss issues and response which future megacities of developing countries face, and contribute to implement efficiency of comprehensive water management. Speakers: <i>Satoshi Takizawa, The University of Tokyo (JP), Myo Thein, Yangon City Development Committee(YCDC) (MY), Tran Thi Viet Nga, National University of Civil Engineering (NUCE) (VN), Shigeyuki Matsumoto, Japan International Cooperation Agency (JICA) (JP) and Satoshi Tamura, Tokyo Metropolitan Government (JP)</i>		Room ICR B. Forum	WWTP REHABILITATION Chairs: Sylvain Donnaz <i>France</i> and Kazunari Sei <i>Japan</i> 13:30 Understanding the Nitrous Oxide Emissions from Wastewater Treatment Plant - from Macro to Micro Scale Liu Ye <i>The University of Queensland, Australia</i> 13:45 Challenge of Granulation Without Inoculation for a Sewage Treatment: A Search for Better Operational Configuration Bruna Scandolaro Magnus <i>Federal University of Santa Catarina, Brazil</i> 14:00 Improving the Capacity of The Käppala WWTP by Using Hydrocyclones Stefan Erikstam Käppala Association, Sweden 14:15 Improvement of Effluent Quality and Cost Saving at a 750,000pe WRRF Using an Extensively Validated CFD Model Usman Rehman <i>AM-TEAM, Belgium</i>
Coffee Break	15:00 - 15:45		
Session 3	15:45 - 17:15		
BUSINESS FORUM - WATER MANAGEMENT IN MEGACITIES II Chair: Satoshi Takizawa <i>Japan</i> Organised by: <i>Japan Society on Water Environment, Japan Water Works Association, Japan Sewerage Works Association, Bureau of Waterworks and Bureau of Sewerage, Tokyo Metropolitan Government</i> Cooperated by: <i>Japan International Cooperation Agency(JICA)</i> Megacities of developed countries that experienced rapid urbanization and population growth, and megacities of metropolis that is expected to be future megacities, will share the knowledge on various issues of water and sewerage. We intend to discuss issues and response which future megacities of developing countries face, and contribute to implement efficiency of comprehensive water management. Speakers: <i>Satoshi Takizawa, The University of Tokyo (JP), Myo Thein, Yangon City Development Committee(YCDC) (MY), Tran Thi Viet Nga, National University of Civil Engineering (NUCE) (VN), Shigeyuki Matsumoto, Japan International Cooperation Agency (JICA) (JP) and more</i>		Room ICR B. Forum	ASSET MANAGEMENT USING ICT STRATEGIES & INFORMING PUBLIC POLICY Chair: Yoichi Yamamoto <i>Japan</i> and Joao Feliciano <i>Portugal</i> 15:45 Applying Satellite Technology to Water Treatment Plant (WTP) Operations: Optimization at Catchment Level Katharine Cross <i>IWA, Netherlands</i> 16:00 Information and Asset Management Low Cost Solutions for Water and Sanitation - Case Study of Mozambique António Monteiro <i>Instituto Superior Técnico, Portugal</i> 16:15 Enhancing Asset Knowledge to Improve French Public Policies for Sustainable Drinking Water Asset Management Eddy Renaud <i>Irstea, France</i> 16:30 Development of Optical Feed Multi Sensing System for Sewer Infrastructure Utilizing Optical Fiber Installed in Sewers Yoshihiro Kurihara <i>Tokyo Metropolitan Sewerage Service Corporation, Japan</i>
Break	17:15 - 17:30		
Keynote Plenary	17:30 - 18:15		
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>			Plenary Room

Wednesday

Programme

Keynote Plenary		09:00 - 09:45	
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWHub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
WATER MANAGEMENT IN: CHEMICALS & PHARMACEUTICALS Chairs: Tjandra Setiadi <i>Indonesia</i> and Say-Leong Ong <i>Singapore</i> 10:30 Column Studies to Investigate the Degradation of Tetracycline and Amoxicillin Under Different Redox Conditions Liangliang Wei <i>Harbin Institute of Technology, China</i> 10:45 Impact of Industrial Waste Water Treatment Plants on Dutch Surface Waters and Drinking Water Sources Annemarie van Wezel <i>KWR, Netherlands</i> 11:00 Occurrence and Fate of Emerging Contaminants (ECs) in Raw Landfill Leachate by a Full-scale Constructed Wetlands System Ngoc Han Tran <i>National University of Singapore, Singapore</i> 11:15 Assessing Stability of Illicit Drugs as Biomarkers in Real Sewers By Laboratory Determined Kinetics Jiaying Li <i>The University of Queensland, Australia</i>		Room 703 Technical	POLICY CHARRETTE: CHALLENGING YOUNG LEADERS TO INVENT FUTURE WATER POLICY I Chair: Paul Brown <i>United States</i> What innovations in water policy will be needed in the next 30 years? Interactive charrette tackling emerging dilemmas in the water industry. Building on a scenario-planning framework, participants explore plausible futures given the uncertainty of climate change, volatility of socio-economic conditions, deterioration of legacy systems, and consequences of disruptive technologies. Participants then collaborate on concepts for addressing the detrimental impacts of future trends. Speakers: Steve Moddemeyer , CollinsWoerman (USA), Paul Brown , Paul Redvers Brown Inc. (USA), Samantha Arbor , Alberta Energy Regulator (CA) and Blair Scott , King County Dept. of Natural Resources and Parks (USA)
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
PREPAREDNESS FOR EXTREME EVENTS Chairs: Lisa Bross <i>Germany</i> and Tsutomu Shioda <i>Japan</i> 13:30 Simulation Analysis of Residual Chlorine Concentration in Emergency Water Storage Facilities for Disaster Keiji Kishimoto <i>Kurimoto Ltd.</i> 13:45 Efforts on Radioactivity After the Great East Japan Earthquake Tomo Oikawa <i>Tokyo Metropolitan Government, Japan</i> 14:00 Design Strategy for Managing Extreme Rainfall Events in Low-lying Dense Areas of Copenhagen Toke Illeris <i>Greater Copenhagen Utility, HOFOR A/S, Denmark</i> 14:15 Effects of a Mt. Zao Eruption on Sendai City Waterworks Bureau Projects and Their Countermeasures Hiroshi Nishizawa <i>Sendai City Waterworks Bureau, Japan</i>		Room 703 Technical	POLICY CHARRETTE: CHALLENGING YOUNG LEADERS TO INVENT FUTURE WATER POLICY II Chair: Paul Brown <i>United States</i> What innovations in water policy will be needed in the next 30 years? Interactive charrette tackling emerging dilemmas in the water industry. Building on a scenario-planning framework, participants explore plausible futures given the uncertainty of climate change, volatility of socio-economic conditions, deterioration of legacy systems, and consequences of disruptive technologies. Participants then collaborate on concepts for addressing the detrimental impacts of future trends. Speakers: Steve Moddemeyer , CollinsWoerman (USA), Paul Brown , Paul Redvers Brown Inc. (USA), Samantha Arbor , Alberta Energy Regulator (CA) and Blair Scott , King County Dept. of Natural Resources and Parks (USA)
Coffee Break		15:00 - 15:45	
Session 3		15:45 - 17:15	
PREPAREDNESS FOR DISASTERS Chairs: Tsutomu Shioda <i>Japan</i> and Nuno Brôco <i>Portugal</i> 15:45 Climate Change Adaptation: A Pragmatic Approach for Assessing Vulnerability Marta Carvalho <i>AdP Serviços, Portugal</i> 16:00 Study of Business Continuity at Arao City Waterworks to Respond to Large-Scale Disasters Yuji Kawase <i>Metawater Co. Ltd., Japan</i> 16:15 A Study on Drought Risk Assessment and Risk Reducing Effect Analysis Through Multipurpose Dam Simulation Taehyeon Kim <i>University of Seoul, Republic of Korea</i> 16:30 Preparing for Various Threats in Tama Waterworks: Development of Facilities to Prepare for Disasters in Tama Waterworks Takao Shirai <i>Tokyo Metropolitan Government, Japan</i>		Room 703 Technical	WATER CAREER LEADERS PANEL Chair: Pablo Ledezma <i>Australia</i> How to develop your own resilience? This session is for professionals who are looking to establish themselves in the water sector, and who want to take the next steps in their WaterCareer. Through interaction with senior professionals in the form of a panel and group discussions, the professional will expand their understanding of their role within the integrated global water sector, obtain practical advice on how to plan their professional development and how to become a #FutureWaterLeaders, and have the opportunity to receive personal tips and tricks. Speakers: Rosie Wheen , WaterAid (AU), Mari Asami , National Institute of Public Health (JP), Bruno Nguyen , UNESCO (FR) and Bernadette Conant , Canadian Water Network (CA)
Break		17:15 - 17:30	
Keynote Plenary		17:30 - 18:15	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>			Plenary Room

Wednesday

Programme

Keynote Plenary	09:00 - 09:45	
Innovation to Implementation – Academia and Utility Perspectives Sudhir Murthy <i>CEO, NEWhub, United States</i> and Mark van Loosdrecht <i>Delft University of Technology, Netherlands</i>		
Coffee Break	09:45 - 10:30	
Session 1	08:30 - 12:00 *	
NON REVENUE WATER ASSESSMENT AND MANAGEMENT IN LOW AND MIDDLE INCOME COUNTRIES Organiser: IWA Water Loss Specialist Group Trainer: Roland Liemberger <i>Non Revenue Water Specialist Miya, Austria</i> , Bambos Charalambous <i>Director Hydrocontrol, Cyprus</i> and Stuart Hamilton <i>Managing Director, HydroTec, UK</i> Recent research presented at the IWA Water and Development Congress in Buenos Aires (2017) has shown that the global volume of NRW is estimated to be 346 million cubic meters per day or 126 billion cubic meters per year. Conservatively valued with only USD 0.31 per cubic meter, the cost/value of water lost amounts to USD 39 billion per year. Sadly, around 80% of these losses occur in low and middle income countries. Non-revenue water (NRW) management can deliver significant health, systems, and financial and economic benefits, but not all professionals know where to start. This training will provide participants with an understanding from assessing Non-Revenue Water to developing and implementing improvement plans. Registration is required		Room 802 Training
Lunch	12:00 - 13:30	
Session 2	13:00 - 16:00 *	
NON REVENUE WATER ASSESSMENT AND MANAGEMENT IN LOW AND MIDDLE INCOME COUNTRIES Organiser: IWA Water Loss Specialist Group Trainer: Roland Liemberger <i>Non Revenue Water Specialist Miya, Austria</i> , Bambos Charalambous <i>Director Hydrocontrol, Cyprus</i> and Stuart Hamilton <i>Managing Director, HydroTec, UK</i> Recent research presented at the IWA Water and Development Congress in Buenos Aires (2017) has shown that the global volume of NRW is estimated to be 346 million cubic meters per day or 126 billion cubic meters per year. Conservatively valued with only USD 0.31 per cubic meter, the cost/value of water lost amounts to USD 39 billion per year. Sadly, around 80% of these losses occur in low and middle income countries. Non-revenue water (NRW) management can deliver significant health, systems, and financial and economic benefits, but not all professionals know where to start. This training will provide participants with an understanding from assessing Non-Revenue Water to developing and implementing improvement plans. Registration is required		Room 802 Training
Break	17:15 - 17:30	
Keynote Plenary	17:30 - 18:15	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities Rebekah Eggers <i>Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States</i>		

* Timetable diverge from the main schedule

Wednesday

Business Forums

Keynote Plenary		09:00 - 09:45	
Innovation to Implementation – Academia and Utility Perspectives <i>Sudhir Murthy</i> CEO, <i>NEWhub</i> , United States and <i>Mark van Loosdrecht</i> Delft University of Technology, Netherlands		Plenary Room	
09:45 – 10:30 METAWATER Introduction of METAWATER Servicece Solution Business <i>Presented by: Makoto Shimizu</i> METAWATER is one of the leading water and environment engineering companies in Japan. This year marks 10th anniversary. We have been designed and installed mechanical and electrical equipment in drinking and wastewater treatment plant to provide any clients with the best solution. Our various service such as EPC as a general contractor, O&M, and privatization, make a contribution to realization of more sustainable social infrastructures.	Room 01 Business	09:45 – 10:30 KUBOTA CORPORATION Kubota's MBR Technology and Johkasou – Onsite Wastewater Treatment Plant <i>Presented by: Shinya Nagae, Yusuke Oi and Tsuyoshi Suzuki</i> Introducing membrane bioreactor (MBR) technology with features of Kubota's Submerged Membrane Unit (SMU) and case studies of international and domestic application. Also introducing Johkasou, which is Japanese unique onsite wastewater treatment plant, which is recently contributing to improve water environment in Asian countries.	Room 02 Business
10:30 – 11:15 NJS CO., LTD. Introduction of Drones Designed for Inspection in Sewerage Pipes and Other Confined Space <i>Presented by: Patrik Ken Takeuchi</i> Drones designed for inspection in sewerage pipes and other confined space. KANSEI COMPANY 300 Years of Sustainable Sewer System <i>Presented by: Benoît Tisserand</i> We challenge the maintenance and management of the sewer system that is indispensable for over half a century. We present our technologies in term of sewer pipes inspection robots.	Room 01 Business	10:30 – 11:15 PHOSLOCK WATER SOLUTIONS LTD. Restoration of Eutrophied Lakes Using Modified Clay (Phoslock) <i>Presented by: Nigel Traill</i> Phoslock is a modified bentonite clay that has been applied to more than 250 eutrophied lakes worldwide to reduce phosphorus concentrations and mitigate against the risk of blue green algal (cyanobacterial) blooms. It is inert and harmless to aquatic life. Once bound, phosphate remains permanently locked within the clay matrix of Phoslock.	Room 02 Business
11:15 – 12:00 HITACHI, LTD. Hitachi's Water Management <i>Presented by: Hideyuki Tadokoro, Koji Kageyama and Ichiro Yamanoi</i> For water supply and sewerage to develop sustainably, it will be necessary to overcome challenges such as demographic change, energy saving, aging infrastructure, etc. Hitachi promotes the practice of working through the sense-think-act cycle helping to pursue digital innovations. We will present about novel monitoring and control systems and O&M support systems using data analytics technologies.	Room 01 Business	11:15 – 12:00 SWING CORPORATION Swing's Sustainable Solution for Energy Reduction <i>Presented by: Tomohiro Iikura, Imansho Nagamine and Natsuko Nakayama</i> Changes in external environment such as natural disasters, aging facilities, and depopulation are important issues for managing infrastructure. Solutions such as disaster resilient equipment, energy saving membrane systems, efficient operation of facilities utilizing IoT to cope with these issues.	Room 02 Business
12:15 – 13:00 NIHON GENRYO CO., LTD. "Distributed Compact Water Systems" & "Disaster Relief Water System" Optimum for Small-scale Water – Cutting-Edge Technology for Washing Filtration Material <i>Presented by: Yasuhiro Saito and Hiroshi Ejima</i> Japan is a country where tap water is fit to drink. However, small scale waterworks face challenges: aging facilities, a shrinking population and disaster response actions. Flexibility can be achieved by leveraging the outstanding mobility of "distributed compact water systems" based on unprecedented maintenance-free mobile filtration systems.	Room 01 Business	12:00 – 13:00 CONFEDERATION OF DANISH INDUSTRY Turning Necessity into Benefits <i>Presented by: Water professionals from utilities and companies</i> Climate adaption in terms of urban blue-green resilience is an optimal way to mitigate increased flooding problems in cities. The key focus is on addressing the global climate changes and securing the vital urban infrastructure. Significant investments must be placed in sewage and stormwater, this session will showcase various ways address climate adaptation while improving city livability.	Room 02 Business
Keynote Plenary		17:30 - 18:15	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities <i>Rebekah Eggers</i> Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States		Plenary Room	

Wednesday

Business Forums

Keynote Plenary		09:00 - 09:45		Plenary Room	
Innovation to Implementation – Academia and Utility Perspectives		Sudhir Murthy CEO, NEWhub, United States and Mark van Loosdrecht Delft University of Technology, Netherlands			
13:30 – 14:15		Room 01 Business		Room 02 Business	
CAMBI GROUP AS		THP to Enhance Anaerobic Digestion and Generate Costs Savings <i>Presented by: x</i> Cambi is a leading provider of technology for the conversion of sludge to renewable energy and high-quality biosolids. The company founded in 1989, has offices in 9 countries. 64 plants committed to the CambiTHP® process in the 21 countries, Cambi serves more than 70 million people around the globe.		13:00 – 14:45 SWAN FORUM PROGRAM Introduction to the SWAN Forum and Insights on the Future of Water <i>Speaker: Frederick Royan VP Global Leader, Environment & Water Practice - Frost & Sullivan</i> SMART Strategic Round Table Discussion Day 3 of ETP will host a series of Strategic Round Table Discussions, where cross sector professionals and disciplines from finance, consultancy, technology providers, utilities, NGO's and industrial sector forwarded a new 'circular' perspective on Smart Water.	
14:15 – 15:00		Room 01 Business		14:45 – 15:00 ISLE - IWA EMERGING TECHNOLOGIES PROGRAM ISLE- IWA Emerging Technologies Award Ceremony The winner of the Emerging Technologies Pitches will be announced by the Executive Director of IWA. Organized by Isle Utilities & IWA.	
TSUKISHIMA KIKAI CO., LTD.		Advanced Sewage Sludge Incinerator Composed of Pressurized Fluidized Bed Incinerator and Turbocharger <i>Presented by: Saori Ito</i> Combustion system composed of a Pressurized Fluidized Bed Incinerator (PFBI) and a turbocharger, for converting exhaust gas into surplus pressurized air.			
JAPAN WATER WORKS ASSOCIATION		Introducing Mutual Support System in the Case of Disaster <i>Presented by: Yohei Okazaki</i> Japan Water Works Association is an organization with 1,400 utilities and 600 corporates as members. Our Mutual Support System allows effective and immediate support among water utilities in case of severe disaster.			
15:45 – 16:30		Room 01 Business		Room 02 Business	
AQUAFLANDERS		Smart Water Systems <i>Presented by: Bert De Winter</i> Flanders is ready to monitor its water consumption remotely and at any time. AquaFlanders shows how Flanders will implement remote monitoring water consumption: from regulation to practice.		15:00 – 16:30 CANADA PAVILION Canada Water Seminar <i>Presented by: Robert Haller and Paul O'Callaghan</i> IWA Canadian National Committee (CWWA & CAWQ) and the Embassy of Canada to Japan are organizing Canada Water Seminar and networking session on the following topics; <ul style="list-style-type: none"> • The overview of Canadian water and waste water industry • Challenge and opportunities in Canadian market • Key Canadian technologies • Global water trend, emerging trend and key driver in Canada • Investment and R&D opportunities 	
Water Scarcity in Flanders		<i>Presented by: Carl Heyrman</i> As a result of the drought in 2017, AquaFlanders and its members from the Flemish water sector have set up an action plan to prevent a shortage of drinking water during the summer season.			
16:30 – 17:15				Room 02 Business	
XYLEM INC		Water Reuse <i>Presented by: Achim Ried</i> Water reuse is a proven approach that can help meet growing water demands, while safeguarding existing water supplies. It produces high-quality water at low lifecycle costs and provides a resilient water source with economic and environmental co-benefits. Xylem's advanced treatment technologies demonstrate that wastewater can be purified beyond drinking water standards and reused safely for both potable and non-potable purposes.		16:30 – 17:15 AFRICA PAVILION	
Keynote Plenary		17:30 - 18:15		Plenary Room	
"Drips and Drops to Bits and Bytes" – The Digitization of Water and Impacts on Utilities		Rebekah Eggers Industry Leader, Energy, Environment & Utilities, Watson IoT, IBM, United States			



Thursday, 20 September



Track 1 WATER UTILITY MANAGEMENT	Track 2 WASTEWATER	Track 3 DRINKING WATER AND POTABLE REUSE	Track 4 URBAN WATER SYSTEMS	Track 5 COMMUNITIES, INTEGRATED PLANNING AND THE ENABLING ENVIRONMENT	Track 6 LARGE SCALE WATER MANAGEMENT
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Thursday Spotlight

Keynote Plenary ▪ International Conference Room

09:00 - 09:45

The Options and Opportunities for a Big Multipurpose Utility



Keynote speakers:

Lars Therkildsen

*CEO of HOFOR, Greater
Copenhagen Utility, Denmark*

Panel moderator:

Abby Crisostomo

*Senior Policy and Programme Officer,
Greater London Authority, UK*

Panel discussion:

Bernadette Conant

CEO, Canadian Water Network, Canada

Jian Wu

CEO, Poten, China

Sylvain Usher

Secretary General, AfWA, Ivory Coast

Dato' Tan Yew Chong

*Secretary General, Ministry of
Water, Land and Natural Resources,
Kuala Lumpur, Malaysia*

Closing Ceremony ▪ International Conference Room

15:15 - 16:45

Closing Ceremony

Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.



10:30 - 12:00

Recent Trends in Potable Water Reuse

Chair: Jörg Drewes *Germany*

How can we engineer reliable potable water reuse systems?

Potable water reuse started as pioneering efforts in Southern California and Windhoek, Namibia, 50 years ago. This practice has seen tremendous growth over the past 15 years in various regions of the globe adopting the latest treatment approaches, performance control strategies or water quality monitoring approaches. However, since reclaimed water typically poses greater technical and institutional challenges than traditional water supplies, regulators and the general public are concerned about the safety of using reclaimed water for potable reuse purposes.

This lecture will provide an overview of various potable reuse treatment approaches following the design concept of multiple barriers and the latest risk assessment strategies applied to these schemes. A critical evaluation of water reuse systems as well as treatment combinations will be given, considering actual performance results from full-scale installations. The knowledge presented can assist utility managers, design engineers, regulators, operators and researchers in their work.

10:30 - 15:00

Achieving Water Security and Building Climate Resilience Within Our Watersheds

Following the Basin Leaders Forum in Brisbane, Australia, in 2016, and a series of workshops in 2017 which have shaped the Agenda, the Forum will convene thought leaders and urban stakeholders. There will be two 90-minute sessions, the first on the transition to basin-connected cities and the second on innovative practices. The sessions will have a mixture of panel and roundtable discussion where the aim is to maximise knowledge sharing.

Emerging Water Leaders Forum • Room 101

10:30 - 15:00

How to Plan for the Unknown?

The leaders of tomorrow need to start planning their water future today. Join the young and emerging water leaders in this forum to answer three key questions – posed by the Congress Keynote Speakers – that the sector will have to address in 2030–2050 in the areas of digital water, climate resilience and healthy liveable cities.

IWA Pavilion



The last day of the Congress, but not the least in terms of engagement opportunities at the IWA Pavilion. Explore carbon-neutral water utilities with the launch of the Roadmap to Low Carbon Urban Water Utilities: An International Guide to the WaCCiiM Approach over the coffee break. Over lunch, take the opportunity to meet IWA executives and more, highlighting Young Water Professional engagement opportunities.

Exhibition

13:30 - 14:15

SYSTEA SpA

Easychem TOX Early Warning: On-line Water Analyser for Acute Toxicity Measurement by Bioluminescent Bacteria

Presented by: Luca Sanfilippo *Japan*

Easychem TOX Early Warning is an on-line analyser for drinking water and environmental monitoring applications. The use of up to 20 industrially prepared dried bioluminescent bacteria vials, automatically rehydrated to ensure long-term unattended operation down to 5 minutes frequency, coupled with its discrete analytical technology, allows easy and reliable operations and low maintenance cost.

Thursday

Programme

Keynote Plenary		09:00 - 09:45			
The Options and Opportunities for a Big Multipurpose Utility Lars Therkildsen CEO, HOFOR, Denmark				Plenary Room	
Coffee Break		09:45 - 10:30			
Session 1		10:30 - 12:00			
DISINFECTION BY-PRODUCTS		R. Hall A Technical		MEMBRANE BIOREACTORS	
Chairs: Chao Chen China and Jyoti Gautam India				Chairs: How Yong Ng Singapore and Julien Ogier Germany	
10:30	Removal of Haloacetic Acid Precursors by Filtration Using Metal Oxide-Coated Filter Media Mitsuru Aman The University of Tokyo, Japan			10:30	Demonstration of Energy-saving Membrane Bioreactor (MBR) Systems Kyoko Yamashita Japan Sewage Works Agency, Japan
10:45	Reduction of Dissolved Organic Nitrogen and Haloacetonitriles Formation by Vacuum-UV Treatment Eakalak Khan North Dakota State University, United States			10:45	Biosorption and Low Energy Step-feed Membrane Bioreactor for Water and Resource Recovery Guihe Tao PUB, Singapore's National Water Agency, Singapore
11:00	Formation of N-nitrosodimethylamine by Chloramination of Anthropogenic Tertiary Amines With Dimethylamine Moiety Shinya Echigo National Institute of Public Health, Japan			11:00	Development of a New Aeration Control Method for Membrane Bioreactor Yuko Tsuzuki Kubota Corporation, Japan
11:15	Effect of Ozonation on the Characteristics of EfOM Fractions and Subsequent Associations With DBPs Formation Weixiao Qi Tsinghua University, China			11:15	Sidestream Vs Immersed Membrane Bioreactors: a Cost Analysis Simon Judd Judd & Judd Ltd / Cranfield University, United Kingdom
Lunch		12:00 - 13:30			
Session 2		13:30 - 15:00			
EMERGING CONTAMINANTS		R. Hall A Technical		MEMBRANE APPLICATION WASTEWATER MANAGEMENT	
Chairs: Dai Simazaki Japan and Kwanrawee Sirikanchana Thailand				Chairs: Kuo-lun Tung Taiwan and Roger Ben Aim France	
13:30	Development of Methods to Efficiently Remove Disinfection By-product Precursors in Slow Filtration Kaori Nishino Tokyo Metropolitan Government, Japan			13:30	Effect of Serially-connected Forward Osmosis (FO) Membrane Elements on the Performance of Pressure-assisted FO (PAFO) Chulmin Lee Gwangju Institute of Science and Technology, Republic of Korea
13:45	Examinations of Toxins That Blue-green Algae Produce Kazuki Tominaga Tokyo Metropolitan Government, Japan			13:45	MABR: A Low Energy Process Intensification Solution for Shortcut Nitrogen Removal Applications Per Nielsen VCS Denmark, Odense, Denmark
14:00	Nanoplastic Removal During Drinking Water Purification Svenja Mintenig Utrecht University, Utrecht, Netherlands			14:00	Piperidine Derivatives With Switchable Polarity as Novel Draw Solutes in Forward Osmosis Akiko Suzuki Toshiba Corporation, Japan
14:15	Combining PAC-adsorption and Nitrification in an MBBR Michael Cimbritz Lund University, IUND, Sweden			14:15	In-situ Degradation of Recalcitrant Pollutants by Graphene Modified Electro-Fenton Membranes Wenli Jiang University of Chinese Academy of Sciences, China
Closing Plenary		15:15 - 16:45			
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.					
Plenary Room					

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The Options and Opportunities for a Big Multipurpose Utility Lars Therkildsen CEO, HOFOR, Denmark			Plenary Room
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
FORUM - EMERGING WATER LEADERS FORUM		Room 101 Forum	DIGITALISATION OF WATER - TRENDS & OPPORTUNITIES Room 102 Workshop
Chair: Arlinda Ibrahimllari Albania		Chair: Kala Vairavamoorthy Executive Director IWA Netherlands	
How to plan for the unknown?		Which are the latest trends on digitalisation of water utilities?	
The leaders of tomorrow need to start planning their water future today. Join the young and emerging water leaders in this forum to answer 3 key questions - posed by the Congress Keynote Speakers - that the sector will have to address in 2030-2050 in the areas of Digital Water, Climate Resilience and Healthy Liveable Cities.		Powered by digital technologies, the water utilities will be key drivers in creating water abundance. Digital technologies will be transformational in positioning the water sector for expanded resilience to increased demands and impacts from climate change. Asset management and real-time monitoring of water utility infrastructure performance are the most obvious opportunities for digital water technology adoption. But the digital water value chain is enabling utilities to connect beyond their physical boundaries, including their watersheds, customers and the workforce as never before. In this session, the panellists will explore the digital water ecosystem and the opportunities that they represent for utilities around the world. Then the latest development in sensor technology will be explored, as well as the advancements in Data Analytics and AI. Then the discussion will shift to the trends in IT/OT integration in water applications.	
Using teaching and applying techniques to break complex questions down in smaller components, you will discuss the answers among your peers and with invited senior experts Banu Ormeci Carleton University, Canada, Claudia Sadoff IWMI Sri Lanka, Jean Spencer Anglian Water, UK, Tom Mills Xylem, Singapore, Philip de Souza Emanti, South Africa, Gustaf Olsson Lund University, Sweden, Xavier Litrico Suez, France, Tony Wong CRC for Water Sensitive Cities, Australia and Mark Fletcher Arup, UK.		Speakers: Tom Mills TBC, Xylem Kamstrup TBC, Dragan Savic KWR, Hideyuki Tadokoro Hitachi Ltd.	
You will practice your problem solving skills whilst developing actions towards planning our future. Be part of the #FutureWaterLeaders #WorldWaterCongress			
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
FORUM - EMERGING WATER LEADERS FORUM		Room 101 Forum	DIGITAL WATER HOT TOPICS: CYBERSECURITY, CONNECTED WORKFORCE & BUSINESS 4.0 Room 102 Workshop
Chair: Arlinda Ibrahimllari Albania		Chair: Kala Vairavamoorthy Executive Director IWA Netherlands	
How to plan for the unknown?		How can utilities take advantage of major IT trends while minimizing major risks inherent to digitalisation?	
The leaders of tomorrow need to start planning their water future today. Join the young and emerging water leaders in this forum to answer 3 key questions - posed by the Congress Keynote Speakers - that the sector will have to address in 2030-2050 in the areas of Digital Water, Climate Resilience and Healthy Liveable Cities.		While digital technologies offer enormous promise, the adoption implies challenges and approaches to enabling these technologies to scale. This session will explore three elements that are key for the success of digital transformation of utilities. A first key aspect is cybersecurity. Utilities need to manage both the risk to interference in systems operation as well as data security concerns. A second critical requirement is developing a digitally competent workforce. This means first to establish a culture of digital innovation within utilities and to explore how to harness new technologies for developing digital competences. New technologies is changing utilities working styles by the adoption of mobile apps, smart wear, image recognition, Augmented reality, machine learning and others. Last but not least, this session will explore How business 4.0 and the introduction of new IT developments such as of blockchain, augmented reality, AI chatbots and others, are likely to transform the water sector.	
Using teaching and applying techniques to break complex questions down in smaller components, you will discuss the answers among your peers and with invited senior experts Banu Ormeci Carleton University, Canada, Claudia Sadoff IWMI Sri Lanka, Jean Spencer Anglian Water, UK, Tom Mills Xylem, Singapore, Philip de Souza Emanti, South Africa, Gustaf Olsson Lund University, Sweden, Xavier Litrico Suez, France, Tony Wong CRC for Water Sensitive Cities, Australia and Mark Fletcher Arup, UK.		Speakers: Harsha Ratnaweera NMBU, Avishek Chaudhuri Tata Consulting Will Sami Water Foundry	
You will practice your problem solving skills whilst developing actions towards planning our future. Be part of the #FutureWaterLeaders #WorldWaterCongress			
Closing Plenary	15:15 - 16:45		
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.			
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The Options and Opportunities for a Big Multipurpose Utility Lars Therkildsen <i>CEO, HOFOR, Denmark</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
PHYSICO-CHEMICAL TREATMENT NANOMATERIALS Chairs: Huayong Luo <i>China</i> and Achim Ried <i>Germany</i> 10:30 A Highly Selective and Recyclable Ammonium Adsorbent for Effective Methane Fermentation Masayuki Fujimoto <i>FUSO Corporation, Japan</i> 10:45 Synthesis of Zn _{0.9} Fe _{0.1} S/Ni-foam Composite Photocatalyst and its Photocatalytic Performance on NOR Degradation Guangshan Zhang <i>Harbin Institute of Technology, China</i> 11:00 Gravity-driven Chitosan-enhanced Melamine Sponge Membrane for Removal of Organics from Water Haibo Li <i>The University of Hong Kong, China</i> 11:15 Co-enhanced Permeability and Ion Selectivity Of RGO-OCNT Nanofiltration Membranes Haiguang Zhang <i>Dalian University of Technology, China</i>		Room 601 Technical	INTEGRATED WATER RESOURCE PLANNING Chairs: Mikio Ishiwatari <i>Japan</i> and Terry Fuller <i>United Kingdom</i> 10:30 Removal of Mineral Oil and Polycyclic Aromatic Hydrocarbons from Highway Runoff Using Floating Treatment Wetlands Jan Ruppelt <i>RWTH Aachen University, Germany</i> 10:45 Nye - A New Sustainable and Water-wise Suburb in Denmark That Meets Half of the UN 17 SDG's Carsten Fjorback <i>COWI, Denmark</i> 11:00 Integrated Management of the Shiyang River Basin in Northwest China: History, Current Status and Prospect Tingting Yan <i>Development Research Center of the Ministry of Water Resources of P.R.China, China</i> 11:15 Evaluation of the Impacts of Human Activity on Water Quality: A Case Study in a Reservoir Catchment in Southern Taiwan Wan-Ru Chen <i>National Cheng Kung University, Chinese Taipei</i>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
NANOTECHNOLOGY / NANOMATERIAL APPLICATION Chairs: Esra Erdim <i>Turkey</i> and Alavi Moghaddam Seyed Mohammad Reza <i>Iran</i> 13:30 Remediation of Water Samples Contaminated by BTEX Using Super-expanded Graphite as Innovative Carbon-based Adsorbent Mat Donatella Caniani <i>University of Basilicata, Italy</i> 13:45 Degradation of Zinc Oxide and Titanium Dioxide Nanoparticles by Indigenous Moderately Halophilic Bacteria in Wastewater Maggy Momba <i>Tshwane University of Technology, South Africa</i> 14:00 Highly Efficient Solar Evaporation Treatment of Industrial Wastewater by Recyclable Magnetic Nanoparticles Hongli Guo <i>Beijing Enterprises Water Group (China) Investment Limited, China</i> 14:15 Simultaneous Photocatalytic Degradation of Bisphenol a and Disinfection Using Magnetically Separable Photocatalysts Irene Man Chi Lo <i>The Hong Kong University of Science and Technology, China</i>		Room 601 Technical	
Closing Plenary	15:15 - 16:45		
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.		Plenary Room	

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Keynote Plenary	09:00 - 09:45		
The Options and Opportunities for a Big Multipurpose Utility Lars Therkildsen <i>CEO, HOFOR, Denmark</i>		Plenary Room	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
BASIN-CONNECTED CITIES FORUM I URBAN PERSPECTIVES Chair: Claudia Sadoff <i>Sri Lanka</i> How to improve the interaction between the city and its basin (from city representatives perspectives)? The Basin-Connected Cities Forum will explore what actions by cities need to be taken today to achieve sustainable management of basins into the future. The Forum will be opened by Diane d'Arras , <i>IWA President</i> . The first session focuses on the transition to basin-connected cities, and a panel will be chaired by Claudia Sadoff , <i>IWMI</i> sharing experiences from Paris (Frederique Denis , <i>SIAAP</i>), Kampala (Rose Kagwaa , <i>National Water and Sewerage Company</i>), Melbourne (Kirsten Shelly , <i>Melbourne Water</i>), Tokyo (Ishida Norihiko , <i>Tokyo Metropolitan Government</i>), and cases from Suez (Mathieu de Kervenael , <i>Suez Environnement</i>). This will be followed by roundtable discussions moderated by city and utility representatives from across the globe. This session will be facilitated by Katerina Schilling , <i>IAWD</i> .		Room 605 Forum	RESILIENCE Chairs: Paul Jeffrey <i>United Kingdom</i> and Adesola Adedugbe <i>Nigeria</i> 10:30 Future Proofing Urban Water Systems Under Uncertainty: A Resilience Assessment Approach Christos Makropoulos <i>National Technical University of Athens, Greece</i> 10:45 A Global Service for Tailored Hydrological Climate Change Impact Assessment: Application to Floods and Drought in Tokyo Jonas Olsson <i>Swedish Meteorological and Hydrological Institute, Sweden</i> 11:00 Europe's Global Water Demand and Its Vulnerability to Weather Extremes Ertug Ercin <i>Water Footprint Network, Netherlands</i> 11:15 Planning for Deep Uncertainty: Using Adaptive Pathways to Create Resilient Strategies Chris Hertle <i>GHD, Australia</i>
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
BASIN-CONNECTED CITIES FORUM II TOOLS FOR ACTION Chair: William Stringfellow <i>United States</i> How to realise action that enables basin-connected cities? The Basin-Connected Cities Forum will explore what actions by cities need to be taken today to achieve sustainable management of basins into the future. The Forum's second session focuses on the tools for actions that enables basin-connected cities including governance strategies, incentives and building capacity. The session will be led by Dr. Will Stringfellow , <i>University of the Pacific</i> , and start with a keynote by Dr. Chien-Hsin Lai , <i>Water Resources Agency, Chinese Taipei</i> . This will be followed by a panel discussion on innovative practices with experience from Jean Spencer , <i>Anglian Water, UK</i> ; Eric Tardieu , <i>International Network of Basin Organisations</i> ; David Hetherington , <i>Arup</i> ; Matsumoto Shigeyuki , <i>JICA</i> ; and Adrian Sym , <i>Alliance for Water Stewardship, UK</i> . This will be followed by roundtable discussions moderated by international organisations, development banks, government, research institutes and NGOs.		Room 605 Forum	WATER STRESS DROUGHTS & FLOODS Chairs: Mikio Ishiwatari <i>Japan</i> and Gertjan Zwolsman <i>Netherlands</i> 13:30 Water Governance Lessons from The 2012-2017 Great Drought in the Brazilian Semi-arid Carlos Galvao <i>Federal University of Campina Grande, Brazil</i> 13:45 Overcoming the Challenges of Water, Waste and Climate Change in Asian Cities Steven Koop <i>KWR Watercycle Research Institute, Netherlands</i> 14:00 Smart Cross-border Reforestation: Cooperative Aerial River Management in an Age of Growing Population Wei Weng <i>Potsdam Institute for Climate Impact Research, Germany</i> 14:15 The Struggle for Water in Indonesia: Role of Women and Children as Household Water Fetcher Sri Irianti <i>Ministry of Health, Republic of Indonesia, Indonesia</i>
Closing Plenary	15:15 - 16:45		
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.		Plenary Room	

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Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
TASTE AND ODOUR COMPOUNDS AND ALGAL TOXINS IN WATER: MANAGEMENT STRATEGIES IN AN ERA OF EXTREME CLIMATE AND URBAN GROWTH I Chair: Arash Zamyadi Canada What are utilities challenges facing taste and odour compounds and algal toxins? Oral presentations from international leading experts will provide information about latest development in management of T&O & algal toxin related challenges in urban waters and under the influence of climate change. Speakers: Ricard Devesa Garriga , <i>Aigues de Barcelona (ES)</i> , Tsair-Fuh Lin , <i>National Cheng Kung University (TW)</i> , Jianwei Yu , <i>RCEES, (CN)</i> and Florence Choo , <i>Univeristy of New South Wales, (AU)</i>		Room 607 Workshop	WWTP & ENERGY OPTIMISATION I Chairs: Dines Erik Thornberg Denmark and Guihe Tao Singapore 10:30 Sustainable SBR Treatment: Treatment Efficiency, Energy, Off-gas Emissions Aleksandra Lazic <i>Xylem Inc., Sweden</i> 10:45 Sewage Treatment Plant Capacity Tracking Tool: A Just-In-Time Planning Concept Angelique Van Walle <i>Unitywater, Australia</i> 11:00 Energy-saving Performance of Wastewater Treatment Aeration Optimizing System With Blower Pressure Computing Device Daisuke Naka <i>Metawater Co. Ltd., Japan</i> 11:15 Energy Consumption Evaluation of Urban Wastewater Treatment Based on Total Oxygen Demand: A Case Study in China Li Luo <i>Xi'an University of Architecture and Technology, China</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
TASTE AND ODOUR COMPOUNDS AND ALGAL TOXINS IN WATER: MANAGEMENT STRATEGIES IN AN ERA OF EXTREME CLIMATE AND URBAN GROWTH II Chair: Arash Zamyadi Canada What are utilities challenges facing taste and odour compounds and algal toxins? Oral presentations from international leading experts will provide information about latest development in management of T&O & algal toxin related challenges in urban waters and under the influence of climate change. Speakers: Jianwei Yu , <i>RCEES (CN)</i> , Florence Choo , <i>Univeristy of New South Wales (AU)</i> and Tsair-Fuh Lin , <i>NCKU (TW)</i>		Room 607 Workshop	WWTP & ENERGY OPTIMISATION II Chairs: Taku Fujiwara Japan and Darryl Day India 13:30 Fuzzy Logic Control of Biological Wastewater Treatment Process Including Greenhouse Gas Emissions Ramon Vilanova <i>Universitat Autònoma de Barcelona, Spain</i> 13:45 The Application of WAS-only Thermal Hydrolysis at Psytalia WWTP Julien Chauzy <i>CAMBI SAS, France</i> 14:00 Improving the Wastewater Treatment Plants Performances by Using Control Actions for the Sludge Line Marian Barbu <i>University of Galati, Romania</i> 14:15 On Utilization and Effect of Renewable Energy in Water Reclamation Center Toshihiko Sakakura <i>Tokyo Metropolitan Government, Japan</i>
Closing Plenary		15:15 - 16:45	
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.		Plenary Room	

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The Options and Opportunities for a Big Multipurpose Utility Lars Therkildsen <i>CEO, HOFOR, Denmark</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
EMERGING CONTAMINANTS & MICROPOLLUTANTS - GENERAL ASPECTS Chairs: Beate Escher <i>Germany</i> and Daniel Gonzalez-Perez <i>Spain</i> 10:30 Study on Behaviour of Perfluorinated Chemicals (PFCs) in the Yodo River System and Approach to These Materials in Osaka Satoshi Yoshimura <i>Osaka Municipal Waterworks Bureau, Japan</i> 10:45 Photo-Fenton & Ultrafiltration Each Coupled With Activated Carbon for the Removal of Antibiotic Resistance Determinants Stella G. Michael Nireas <i>International Water Research Center, University of Cyprus, Cyprus</i> 11:00 Decision-Making Framework for The Prioritisation of Research Into Contaminants of Emerging Concern Stuart Khan <i>University of New South Wales, Australia</i> 11:15 Impact of Climate Change and Increasing Emission of Pharmaceuticals on Water Quality of the Rivers Rhine and Meuse (NL) Gertjan Zwolsman <i>Dunea N.V., Netherlands</i>		Room 609 Technical	REUSE, RECOVER, RECYCLE - ACCELERATING RESOURCE RECOVERY FROM WATER - PART I AND II Chair: Bruno Tisserand <i>France</i> How to optimize water resource recovery and reuse for businesses? This session aims to explore options to make resource recovery from waste water a reality, addressing specifically business models and regulation. In part I, regulatory framework and business model will be analysed and discussed. In part II, water sector experts will present successful case studies. The audience will be invited to reflect on related issues and contribute to the discussions through roundtables with speakers. Speakers: Kaarina Schenk , <i>Swiss Federal Office for the Environment (CH)</i> , Christian Kabbe , <i>Isle Utilities and German Phosphorus Platform (DE)</i> and Miriam Otoo , <i>International Water Management Institute (LK)</i>
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
EFFICIENT MANAGEMENT OF WATER SUPPLY BY INTRODUCING PUBLIC-PRIVATE PARTNERSHIP Chair: Ikuo Milt Mitake <i>Japan</i> What are the keys to adapt social advancement? Acknowledgement of styles and effects of Public-Private Partnerships (Private Involvements) in each country provide valuable information on efficient management. By pursuing efficiency, we will be able to provide high quality water with reasonable cost. In this Workshop, we explore the efficient management patterns according to the circumstances in each country. Speakers: <i>Indian Water Works Association - IWWA, (IN), Indonesia Water Supply Association - PERPAMSI, (ID), Korea Water and Wastewater Works Association - KWWA, (KR), Malaysian Water Association - MWA, (MY) and Philippine Water Works Association - PWMA, (PH)</i>		Room 609 Workshop	REUSE, RECOVER, RECYCLE - ACCELERATING RESOURCE RECOVERY FROM WATER - PART III Chair: David Stuckey <i>United Kingdom</i> How to optimize water resource recovery and reuse for businesses? This session aims to explore options to make resource recovery from waste water a reality, addressing specifically business models and regulation. In part III, the focus will be put on the centralised versus decentralised solutions that may shift the way we see wastewater treatment for the future. The audience will be invited to reflect on related issues and contribute to the discussions through roundtables with speakers. Hisao Ohtake , <i>Japanese P-recycling Council (JP)</i> , Tanja Schaaf , <i>Outotec (DE)</i> , Yariv Cohen , <i>EasyMining (SE)</i> and Gilberto Garuti , <i>Acqua e Sole (IT)</i>
Closing Plenary		15:15 - 16:45	
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.			Plenary Room

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Coffee Break		09:45 - 10:30		
Session 1		10:30 - 12:00		
RECENT TRENDS IN POTABLE WATER REUSE		Room ICR Lecture	BIOCLUSTER WORKSHOP: REAL-TIME ANALYSIS OF MICROBIAL COMMUNITIES - HOW CLOSE ARE WE?	
Chair: Jörg Drewes Germany			Chair: Per Nielsen Denmark	
How can we engineer reliable potable water reuse systems?			Can we make reliable real-time and on-site analyses by DNA-based methods?	
Potable water reuse started as pioneering efforts in Southern California and Windhoek, Namibia 50 years ago. This practice has seen tremendous growth over the last 15 years in various regions of the globe adopting the latest treatment approaches, performance control strategies, or water quality monitoring approaches. However, since reclaimed water typically poses greater technical and institutional challenges than traditional water supplies, regulators and the general public are concerned about the safety of using reclaimed water for potable reuse purposes.			The BioCluster coordinates activities across the IWA Specialist Groups with focus on microbiology and ISME, the International Society for Microbial Ecology. The BioCluster Rising Star, Asst. Prof Ameet Pinto, will give the award lecture "Real-time management of the drinking water microbiome". To open the discussion, invited speakers will give talks in order to: a. Highlight latest developments, strengths, and limitations of real-time microbial community characterization with focus on Nanopore technology b. Provide a platform to connect academic expertise with industrial needs on real-time microbial monitoring.	
This lecture will provide an overview of various potable reuse treatment approaches following the design concept of multiple barriers and the latest risk assessment strategies applied to these schemes. A critical evaluation of the water reuse systems as well as treatment combinations will be given considering actual performance results from full-scale installations. The knowledge presented can assist utility managers, design engineers, regulators, operators and researchers in their work.			Speakers: Tom Curtis, Newcastle University, England, Per Nielsen, Aalborg University, (DK), Wen-Tso Liu, University of Illinois at Urbana-Champaign, (US), Ameet Pinto, Northeastern University, (US), Mari Miyamoto, Nanopore, Tokyo (JP) and Martin Andersen, Aalborg University, (DK)	
Lunch		12:00 - 13:30		
Session 2		13:30 - 15:00		
SUPPORTING POLICY DEVELOPMENT - HOW TO LAND POLICY DECISION IN WATER & THE ENVIRONMENT		Room ICR Workshop	BIOCLUSTER WORKSHOP: REAL-TIME ANALYSIS OF MICROBIAL COMMUNITIES - HOW CLOSE ARE WE?	
Chair: Trevor Bishop United Kingdom and Rob Fuller United Kingdom			Chair: Tom Curtis United Kingdom	
Good, evidenced-based policy is a culmination of a long value chain which includes good science through to the practical experience of those at the heart of delivering water, wastewater and environmental services. Translating science and practical experience into policy can, however, be frustrating and problematic. This session will provide a unique opportunity for those involved in all aspects of water science and delivery to learn and share how to influence and support future policy development.			Can we make reliable real-time and on-site analyses of microbial communities today?	
Speakers: MK Madhavan, WaterAid (IN) and Peter Coombes, Urban Water Cycle Solutions (AU)			The BioCluster coordinates activities across the IWA Specialist Groups with focus on microbiology and ISME, the International Society for Microbial Ecology. The BioCluster Award winner Prof. Wen-Tso Liu will give a lecture on "Dissecting Anaerobic Digester Microbiome". To open the discussion, invited speakers will give talks in order to a. Demonstrate the strengths, limitation, and synergy between flow-cytometric and DNA sequence based characterization of microbial communities b. Provide examples from the industry and to form a platform to connect academic expertise with industrial needs on real-time microbial monitoring.	
			Speakers: Tom Curtis, Newcastle University, England, Wen-Tso Liu, University of Illinois at Urbana-Champaign, (US) and Claire Thom, Scottish Water (UK)	
Closing Plenary		15:15 - 16:45		
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.				Plenary Room

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The Options and Opportunities for a Big Multipurpose Utility Lars Therkildsen <i>CEO, HOFOR, Denmark</i>			Plenary Room
Coffee Break		09:45 - 10:30	
Session 1		10:30 - 12:00	
EARTHQUAKE EXPERIENCE Chair: Hiroshi Ashida <i>Japan</i> 10:30 Damage to Kumamoto City's Sewage Treatment Facilities Inflicted by The Kumamoto Earthquake and Measures Taken Kiyooki Nakahara <i>Kumamoto City Waterworks and Sewerage Bureau, Japan</i> 10:45 Pipeline Design Method of a Fault Crossing Section by Using Earthquake Resistant Ductile Iron Pipe Keita Oda <i>KUBOTA Corporation, Japan</i> 11:00 Construction of a Management System of "Customer Center" for Responding to Large-scale Earthquake Disasters Hisao Tanikawa <i>Bureau of Waterworks, Japan</i> 11:15 Challenge for Reinforcement of Earthquake Resistance at Earth-fill Dam With Urbanization to Vicinity of Reservoir Masaki Kato <i>Tokyo Metropolitan Government, Japan</i>		Room 703 Technical	OPEN ACCESS & INNOVATIONS IN PUBLISHING Chair: Sara Bosshart <i>United Kingdom</i> How has / is the publishing landscape changing and what does this mean for me as an author? This interactive session will focus on changes and innovations in publishing with a particular focus on Open Access, emerging platforms and new technologies. Attendees will be equipped with the necessary tools to navigate and thrive in the changing landscape of publishing today. Speakers: Xiaochang Wang, Xi'an University of Architecture and Technology (CN)
Lunch		12:00 - 13:30	
Session 2		13:30 - 15:00	
OUTBREAK & EMERGENCY RESPONSE Chair: Hiroshi Nagaoka <i>Japan</i> and Simeon Kenfack <i>Ivory Coast</i> 13:30 Taking Advantage of Workforce! - Tokyo Waterworks Program for Enhancing Crisis-Response Capability Masayuki Yasunaga <i>Bureau of Waterworks, Japan</i> 13:45 Waterworks in Disaster-prone Japan: Mutual Support System in the Event of a Disaster Fuminori Nishu <i>Japan Water Works Association, Japan</i> 14:00 Study of Tsunami Disaster Prevention for Wastewater Facilities by Detailed Tsunami Simulation Analysis Kazuhiro Suzuki <i>Japan Institute of Wastewater Engineering and Technology, Japan</i> 14:15 Operation of Tap Water Quality Management System Aiming at Ensuring the Highest Level of Safety and Security Eiji Omori <i>Tokyo Metropolitan Government, Japan</i>		Room 703 Technical	
Closing Plenary		15:15 - 16:45	
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.			Plenary Room

Thursday

Programme

Keynote Plenary	09:00 - 09:45	
The Options and Opportunities for a Big Multipurpose Utility Lars Therkildsen <i>CEO, HOFOR, Denmark</i>		
Coffee Break	09:45 - 10:30	
Session 1	08:30 - 12:00 *	
INFRASTRUCTURE ASSET MANAGEMENT IN LIGHT OF ISO 5500X STANDARDS Trainer: Helena Alegre <i>Head of the Hydraulics Department, National Laboratory for Civil Engineering, Portugal</i> <p>In a world driven by the need for water systems that 1) contribute to circular economy, 2) are resilient to climate change and 3) promote equity, well-being and economic growth, effective infrastructure asset management is an essential tool. Infrastructure asset management is an art of balancing performance, cost and risk in the long term, whilst maximizing the value of these assets for the utilities. To achieve this balance, a multidimensional approach that combines management, engineering principles, good business practices and economic theory is required.</p> <p>Framed by the IWA recommended approach and based on the ISO55x standards, the course will introduce key principles and practices of good asset management. Particular attention will be given to the establishment and use of a sound assessment system that is a) driven by your organisation's objectives and b) able to support the diagnosis, to set up needs and priorities of intervention, to select options of intervention, as well as for monitoring the effects of implementing them.</p> Registration is required		Room 802 Training
Lunch	12:00 - 13:30	
Session 2	13:30 - 15:00	
INFRASTRUCTURE ASSET MANAGEMENT IN LIGHT OF ISO 5500X STANDARDS Trainer: Helena Alegre <i>Head of the Hydraulics Department, National Laboratory for Civil Engineering, Portugal</i> <p>In a world driven by the need for water systems that 1) contribute to circular economy, 2) are resilient to climate change and 3) promote equity, well-being and economic growth, effective infrastructure asset management is an essential tool. Infrastructure asset management is an art of balancing performance, cost and risk in the long term, whilst maximizing the value of these assets for the utilities. To achieve this balance, a multidimensional approach that combines management, engineering principles, good business practices and economic theory is required.</p> <p>Framed by the IWA recommended approach and based on the ISO55x standards, the course will introduce key principles and practices of good asset management. Particular attention will be given to the establishment and use of a sound assessment system that is a) driven by your organisation's objectives and b) able to support the diagnosis, to set up needs and priorities of intervention, to select options of intervention, as well as for monitoring the effects of implementing them.</p> Registration is required		Room 802 Training
Closing Plenary	15:15 - 16:45	
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.		

* Timetable diverge from the main schedule

Thursday

Business Forums

Keynote Plenary

09:00 - 09:45

The Options and Opportunities for a Big Multipurpose Utility
Lars Therkildsen CEO, HOFOR, Denmark

Plenary Room

09:45 – 10:30

METAWATER

Introduction of METAWATER PFI/PPP Business

Presented by: **Masashi Sakai**

METAWATER is one of the leading water and environment engineering companies in Japan. This year marks 10th anniversary. We have been designed and installed mechanical and electrical equipment in drinking and wastewater treatment plant to provide any clients with the best solution. Our various service such as EPC as a general contractor, O&M, and privatization, make a contribution to realization of more sustainable social infrastructures.

Room 01
Business

09:45 – 10:30

AQUAFLANDERS

Smart Water Systems

Presented by: **Bert De Winter**

Flanders is ready to monitor its water consumption remotely and at any time. AquaFlanders shows how Flanders will implement remote monitoring water consumption: from regulation to practice.

Water Scarcity in Flanders

Presented by: **Carl Heyrman**

As a result of the drought in 2017, AquaFlanders and its members from the Flemish water sector have set up an action plan to prevent a shortage of drinking water during the summer season.

Room 02
Business

10:30 – 11:15

BLUE FOOT MEMBRANES

Advantages of Integrated Permeate Channel Membranes (IPC®)

Presented by: **Patrick Vanschoubroek**

Integrated Permeate Channel membranes (IPC®) are the first fully back-washable flat sheet membranes. The advantages of these IPC® membranes is that they allow operating waste water units at an extraordinarily higher flux yield, with significant improved fouling control of the membranes and gives the membrane better filtration properties, but also makes it more sustainable.

Room 01
Business

10:30 – 11:15

YOKOGAWA ELECTRIC CORPORATION

Yokogawa IoT Solutions for the Problems in Municipal Water Utilities

Presented by: **Isao Mori**

In Japan, aging facilities, a shortage of skilled waterworks engineers, falling tax revenues and water sales due to depopulation will soon become serious problems. Municipal governments have been seeking solutions through public-private partnerships and regional collaboration. Yokogawa will present solutions through IoT technology and its expertise in measurement and control.

Room 02
Business

11:15 – 12:00

HITACHI ZOSEN CORPORATION

Highly Efficient Water Treatment System of HITZ

Presented by: **Junichi Mori** and **Tadahiro Moriyama**

We present our efficient water treatment system applying our original fiber media for various water treatment. The light weight of the media realizes easy maintenance and lower running cost.

We have completed the operation of the pilot plant for testing our high-efficient water treatment system in Indonesia. The data we had collected proves our system works very well.

Room 01
Business

11:15 – 12:00

TAISEI KIKO CO., LTD.

Development and Maintenance of Waterworks Infrastructure

Presented by: **Tadahiro Yamada** and **Hideto Saito**

TAISEI KIKO has pioneered Japan's water and sewage pipeline maintenance sector, continuously engaged on the frontier or technological innovation in product development and maintenance.

Evaluation of Seismic Performance on Polyethylene Pipe During an Earthquake

Presented by: **Tsuyoshi Suzuki**

On the earthquake resistance of polyethylene pipe, we report the result of verification from both aspects of investigation and experiment of pipe damaged by earthquake.

Room 02
Business

Closing Plenary

15:15 - 16:45

Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.

Plenary Room

Thursday

Business Forums

Keynote Plenary		09:00 - 09:45			
The Options and Opportunities for a Big Multipurpose Utility				Plenary Room	
Lars Therkildsen CEO, HOFOR, Denmark					
12:15 – 13:00		Room 01 Business			
TAISEI KIKO					
Development and Maintenance of Waterworks Infrastructure					
Presented by: Tadahiro Yamada and Hideto Saito					
TAISEI KIKO has pioneered Japan's water and sewage pipeline maintenance sector, continuously engaged on the frontier or technological innovation in product development and maintenance.					
13:30 – 14:15		Room 01 Business		Room 02 Business	
SUMITOMO ELECTRIC INDUSTRIES				SYSTEA SPA	
The features of PTFE MF/UF Membrane as Poreflon™				Easychem TOX Early Warning: On-line Water Analyzer for Acute Toxicity Measurement by Bioluminescent Bacteria	
Presented by: Takafumi Shinozaki				Presented by: Luca Sanfilippo	
Introduction to Poreflon™ Module, derived from porous separation membrane, developed by using proprietary processing technologies. Poreflon™ Module can be used for various applications.				Easychem TOX Early Warning is an on-line analyzer for drinking water and environmental monitoring applications. The use of up to 20 industrially prepared dried bioluminescent bacteria vials, automatically rehydrated to ensure long term unattended operation down to 5 minutes frequency, coupled with its discrete analytical technology allows easy and reliable operations and low maintenance cost.	
TORAY INDUSTRIES					
Development of the Advanced UF Differential Pressure Prediction System					
Presented by: Kazunori Tomioka					
The advanced UF simulation technology was developed to predict UF performance by acquiring on-line fouling parameters by analyzing the actual operating data of UF plant.					
		Room 01 Business		Room 02 Business	
				14:15 – 15:00	
				TSS TOKYO WATER CO., LTD.	
				Tokyo's Experience - 4% NRW Rate and Direct Supply	
				Presented by: Dr. Atsushi Masuko	
				Tokyo Water has achieved a 4% non-revenue water rate while at the same time increasing pressure in the distribution network. This allows for a direct water supply to every 3 story building in Tokyo.	
				Business Profiles of TSS Tokyo Water	
				Presented by: Noboru Saito	
				• TSS profile	
				• Domestic & Overseas Business	
				• Invitation to Our Exhibit Space	
Closing Plenary		15:15 - 16:45			
Including panel discussion of emerging water leaders and senior professionals to synthesise the week, best poster awards, CIWEM Environmental Photographer of the Year, signing of the IWA water-wise principles document, and handover from Tokyo 2018 to Copenhagen 2020.				Plenary Room	



Poster Presentations

Track 1
WATER UTILITY
MANAGEMENT

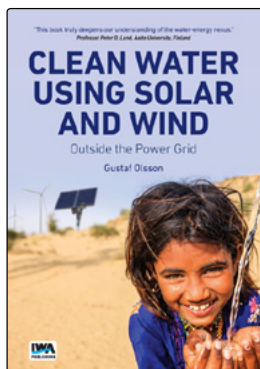
Track 2
WASTEWATER

Track 3
DRINKING WATER AND
POTABLE REUSE

Track 4
URBAN WATER
SYSTEMS

Track 5
COMMUNITIES,
INTEGRATED
PLANNING AND
THE ENABLING
ENVIRONMENT

Track 6
LARGE SCALE WATER
MANAGEMENT

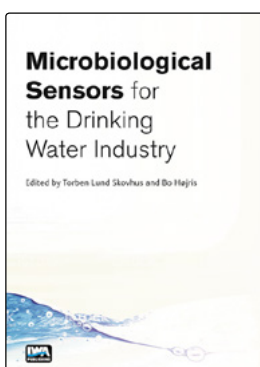


3.15pm, Monday 17th

Clean Water Using Solar and Wind: Outside the Power Grid

By Gustaf Olsson

This book encourages awareness of possibilities of solar photo-voltaic and wind, bringing both clean energy and clean water to remote and rural areas, particularly in the developing world. Two important factors are emphasized: economy and geopolitics.



3.15pm, Tuesday 18th

Microbiological Sensors for the Drinking Water Industry

Edited by Torben Lund Skovhus & Bo Højris

This new book takes a modern, interdisciplinary approach to drinking water quality monitoring by microbiological sensors. Expert insights include sensing technology, system behavior, business, legislation, and intelligent response algorithms.



12.40pm, Wednesday 19th

Manuel des Droits de l'Homme à l'Eau Potable et à l'Assainissement à l'intention des Praticiens

By Robert Bos

The French translation of this comprehensive manual, highlighting human rights principles and criteria in relation to drinking water and sanitation. It explains international legal obligations in terms of operational policies and practice that will support the progressive realisation of universal access.

Work with IWA Publishing

Leading International Publisher in Water, Wastewater and Environment

Our catalogue covers all aspects of water and wastewater treatment, management and distribution, including science, technical engineering and policy. Our dedicated team forms partnerships with our authors, helping them achieve the widest reach for their work, in print and online.

To discuss your book proposal, contact Mark Hammond: mhammond@iwap.co.uk

Poster Presentations

Session 1	UTILITY EFFICIENCY AND BENCHMARKING	Tuesday 12:00-13:15	Room 701	1-17
Session 2	WATER & WASTEWATER PLANT PERFORMANCES & OPTIMIZATION APPROACHES	Monday 12:00-13:15	Room 608	21-38b
Session 3	MANAGEMENT OF EXTREME EVENTS	Thursday 12:00-13:15	Room 703	48-67
Session 4	EFFICIENT WATER MANAGEMENT AND REUSE	Thursday 12:00-13:15	Room 609	81-98b
Session 5	RESOURCE RECOVERY	Tuesday 12:00-13:15	Room 608	116-132
Session 6	WASTEWATER SOLUTIONS	Monday 12:00-13:15	Room 102	139-160
Session 7	NUTRIENT REMOVAL	Tuesday 12:00-13:15	Room 609	177-189
Session 8	ANAEROBIC PROCESSES	Wednesday 12:00-13:15	Room 609	199-215
Session 9	BIOSOLIDS MANAGEMENT & REUSE	Tuesday 12:00-13:15	Room 601	228-244
Session 10	MICROBIAL APPLICATIONS & EMERGING POLLUTANTS	Wednesday 12:00-13:15	Room 608	257-280
Session 11	ADVANCED WASTEWATER BIOLOGICAL & PHYSICOCHEMICAL APPLICATIONS	Thursday 12:00-13:15	Reception Hall B	312-333
Session 12	WASTEWATER TREATMENT PROCESSES	Thursday 12:00-13:15	Room 608	343-362b
Session 13	ONLINE MONITORING AND SENSORS FOR DRINKING WATER QUALITY	Tuesday 12:00-13:15	Reception Hall A	374-392
Session 14	DRINKING WATER TREATMENT	Wednesday 12:00-13:15	Room 607	402-418
Session 15	DRINKING WATER TREATMENT	Tuesday 12:00-13:15	Room 607	419-434
Session 16	MEMBRANE PROCESSES, TASTE & ODOR	Monday 12:00-13:15	Room 607	443-459
Session 17	DRINKING WATER SOLUTIONS	Thursday 12:00-13:15	Reception Hall A	465-480
Session 18	WATER SUPPLY MANAGEMENT	Wednesday 12:00-13:15	Room 703	487-507
Session 19	EMERGING CONTAMINANTS & WATER SAFETY PLANS	Wednesday 12:00-13:15	Reception Hall A	519-530
Session 20	URBAN WATER MANAGEMENT & PLANNING	Monday 12:00-13:15	Room 703	533-552
Session 21	TRANSITION TO SUSTAINABLE CITIES	Wednesday 12:00-13:15	Room 606	559-571
Session 22	URBAN DRAINAGE & SEWERAGE	Tuesday 12:00-13:15	Room 604	573-591
Session 23	INFRASTRUCTURE REHABILITATION	Wednesday 12:00-13:15	Room 701	598-606
Session 24	POLICIES & REGULATIONS	Monday 12:00-13:15	Reception Hall A	609-626
Session 25	WATER INDUSTRY CAPACITY BUILDING, EDUCATION & TRAINING	Tuesday 12:00-13:15	Room Hall B	631-642
Session 26	INTEGRATED WATER RESOURCES MANAGEMENT	Thursday 12:00-13:15	Room 604	646-658
Session 27	BASIN WATER MANAGEMENT & WATER QUALITY	Thursday 12:00-13:15	Room 606	665-679

Track 1 WATER UTILITY MANAGEMENT	Track 2 WASTEWATER	Track 3 DRINKING WATER AND POTABLE REUSE	Track 4 URBAN WATER SYSTEMS	Track 5 COMMUNITIES, INTEGRATED PLANNING AND THE ENABLING ENVIRONMENT	Track 6 LARGE SCALE WATER MANAGEMENT
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Poster Presentation:

Each author introduces the poster in a four minute long pitch. Poster sessions take place in session rooms, during lunch breaks.

Poster Awards:

Explore the poster hall and attend the poster sessions. Download and use the Congress mobile App to rate your favourite posters between Monday and Wednesday. The winners will be announced during the closing ceremony on Thursday afternoon.

1	3870520	RO	Five Years Of National Benchmarking In Romania: Lessons Learned And Future Challenges <i>Augustin Boer BDO Business Advisory SRL</i>
2	3902060	JP	Development Of Low-power Still-Image Camera Prototype For Optical Power-Feed Sewerage Multi-Sensing System <i>Nobuhiko Kikuchi Hitachi Ltd., Research & Development Group</i>
3	3912484	JP	Broad-based Water Facility Management Via Efficient Monitoring System <i>Hidekuni Kiya Tokyo Metropolitan Government</i>
4	3898945	JP	Internal Engineer's Pilot System With Open-technology-based PLC+SCADA System For Water Supply Supervisory Control <i>Manabu Nakagawa Nara City Enterprise Bureau</i>
5	3902843	SE	Renewable Energy Providing Water <i>Gustaf Olsson Lund University</i>
6	3900807	JP	Approaches To Practical Sewer Pipe Inspection Technology Using Drones, Based On Public-Private-Academic Partnership <i>Kazuhiro Nitta City of Yokohama</i>
7	3899050	JP	Comprehensible Public Information – Matters Learned Researching Public Information For Foreign Residents <i>Yukiko Shirafuji Yokohama Waterworks Bureau</i>
8	3903275	UK	Analysing The Response Of Water Distribution Networks To Failures: A Comparison Between Graph Theory And GRA <i>Chris Sweetapple University of Exeter</i>
9	3899124	JP	Non-Revenue Water Countermeasure Project In Yangon, Myanmar <i>Akihiro Okada TSS Tokyo Water Co., Ltd</i>
10	3901652	JP	The Collection System Which Achieved A High Collection Rate (99.9%) With The Largest Water Service Scale In Japan <i>Yoshinori Sakurada Bureau of Waterworks, Tokyo Metropolitan Government</i>
11	3901653	JP	24/7 Water Supply At Benamauk Area In Dili By Leak Detection And Repair Introducing Segmented Water Supply Area <i>Yasuo Kobayashi Chiba Prefectural Waterworks Bureau</i>
12	3901659	JP	An Early Detection Technique For Insufficient Flocculation Using A Floc Sensor <i>Yusuke Hisamoto METAWATER Co., Ltd.</i>
13	3901922	JP	Activities To Reduce The Non-Revenue Water In Yangon City, Republic Of The Union Of Myanmar <i>Masaru Matsuoka Fukuoka City Waterworks Bureau</i>
14	3903146	FR	CAPEX & OPEX Analysis For Water Network Performance <i>Aurelie Chazerain Suez</i>
15	3903507	JP	Enhancement Of Longevity Of Aging Pipelines In Awareness Of The Importance Of Asset Management <i>Hiro Yoshi Kaneta Tokyo Metropolitan University</i>
16	3904068	PH	"Super Meter Banking" In Addressing Commercial Losses: A Case Study Of Parola In Tondo, Manila <i>Joanna Nicodemus Maynilad Water Services Inc.</i>
17	3919810	CY	Transitioning From IWS To 24x7: A Dream Or Reality <i>Bambos Charalambous Hydrocontrol Ltd</i>
18	3898441	DK	Detecting And Categorising Water Loss In Smart Districts <i>Kristian Rokkjær Kamstrup A/S</i>
19	3900577	JP	Intensified Measures To Prevent Water Leakage In Kanagawa Prefecture <i>Masataka Morofushi Public Enterprises Agency, Kanagawa Prefectural Government</i>
20	3900845	JP	Locating An Additional Unreported Burst In A DMA <i>Yoh Sugimoto Yokogawa Solution Service Corporation</i>
21	3902862	JP	An Innovative Groundwater Treatment System For Improving Performance Of Water Purification Plant In Developing Countries <i>Thanh Trung Nguyen Nagaoka International Corporation</i>
22	3899180	JP	Dynamic Control Of Nitrogen And Phosphorus Removal Under Process Variation Based On A Novel Extremum Seeking <i>Yuta Onishi Toshiba Corporation</i>
23	3900816	JP	Consideration Of The BOD Target To Meet EQSs Using Simulation Results Of BOD Behavior In The Tama River <i>Hiroko Asakura Tokyo Metropolitan Government</i>
24	3900931	JP	Full-scale Demonstration Of Novel Nitrification Control System With Feedback And Auto Calibration Feedforward Control <i>Ichiro Yamanoi Hitachi, Ltd. Research & Development Group</i>
25	3903739	JP	High Rate Turbidity Removal From High Turbidity River Water Using Newly Modified Pulsed Sludge Blanket Clarifier <i>Yasuhiko Shimada Organo Corporation</i>
26	3900999	JP	Development Of The Polymer Injection Amount Control System In A Dehydration Process Of Sludge Treatment <i>Hiroshi Shiomi Tokyo Metropolitan Government</i>
27	3901521	JP	Nodal Pressure Estimation Based On Limited Data Of Water Distribution Network <i>So Sasaki Toshiba Corporation</i>
28	3901560	BR	Evaluating The Influence Of Raw Water Quality On Treatment Cost In Developing Countries <i>Marcelo Libanio Federal University of Minas Gerais</i>
29	3901596	JP	Development Of A High-Speed Manganese Removal System Using A Fibrous Media <i>Yuji Takahashi JFE Engineering Corporation</i>
30	3903499	JP	Benefits Of Ammonia DO Control System – To Achieve Both The Water Quality Improvement And Energy Saving <i>Yuka Midori Tokyo Metropolitan Government</i>
31	3901675	JP	Stable Sewage Treatment And Efficient Operation Management In Tama Area By Utilizing Utility Tunnel <i>Shota Hamano Tokyo Metropolitan Government</i>
32	3901676	JP	Realization Of 100% Supply Of Power Consumed By The Introduction Of Small Hydroelectric Power Generation <i>Satoru Ide Fukuoka City Waterworks Bureau</i>
33	3902200	JP	Development Of Framework To Select Treatment Process Based On Evaluation Of Microbial Risk, Cost And Energy Consumption <i>Matsuhashi Manabu National Institute for Land and Infrastructure Management</i>
34	3902208	JP	Development Of Safe And Low Cost Wastewater Reclamation System Using UF Membrane And UV Disinfection <i>Akihiro Yamamoto National Institute for Land and Infrastructure Management</i>

35	3902235	CN	Application Of Combined Ozonation And Bio-filter Process As Tertiary Treatment In WWTP Qiao Wang <i>Shanghai Chemical Industry Park Sino French Water Development Co., Ltd</i>
36	3902800	AU	Understanding The Effect Of In-sewer Iron Dosing On The Downstream Wastewater Treatment Processes Mario Jr Rebosura <i>The University of Queensland Advanced Water Management Centre</i>
37	3902806	CA	Use Of Non-woven Geotextiles As Filter Media To Improve A Water Quality Of A Lake In Quebec, Canada Catherine Mulligan <i>Concordia University</i>
38	3904080	PT	Monitoring Practices And Operating Conditions Of Drinking Water Systems - Case Study: Alcantarilha Water Treatment Plant Rui Sancho <i>Águas do Algarve, SA</i>
38b	3899094	JP	Efficient Reinforcement Method Of Ductile Pipe By Reinforcing Fitting Tadahiro Yamada <i>Technical Taisei Kiko Co., Ltd.</i>
39	3903539	ES	Identification Of Amoeba-associated Bacteria In Wastewater Samples By Amplicon-based Metagenomics José L. Alonso <i>Technical University of Valencia</i>
40	3903559	SE	Model-based Analysis Of Simultaneous Precipitation On Phosphorus Removal In Activated Sludge Systems Christian Kazadi Mbamba <i>Research Institutes of Sweden</i>
41	3901565	JP	Water Purification Treatment Effects Of Ultra-high-basicity Polyaluminum Chloride Kaoru Imai <i>Waterworks Bureau, City of Kawasaki</i>
42	3904060	BR	How Much Does It Cost To Treat Domestic Wastewater? Evaluating Operating Costs For 44 Full-scale Treatment Plants Cesar Filho <i>Federal University of Minas Gerais</i>
43	3862017	UK	Mechanical Vs Aeration Imposed Power In An Immersed Membrane Bioreactor Simon Judd <i>Judd & Judd Ltd/Cranfield University</i>
44	3901079	DE	Dynamic Aeration For Improved Oxygen Mass Transfer And Mixing In The Wastewater Treatment Process Robert Herrmann-Heber <i>Helmholtz Zentrum Dresden-Rossendorf</i>
45	3919393	BE	PHREEQC Model-based Quality Control Of A Drinking Water Softening Plant Liesbeth Verdict <i>De Watergroep</i>
46	3898223	JP	Joint Research On Degradation Of Civil Engineering Structures In Advanced Treatment Facilities Yasukazu Tachiki <i>Japan Institute of Wastewater Engineering and Technology</i>
47	3880718	JP	Optimal Approach For Renewal Of Aged Pipes Yukihide Takamoto <i>Waterworks Bureau of the City of Hiroshima</i>
48	3890571	JP	Methods And Effects Of Securing Water Supply To Citizens Even At An Event Of Sudden Accident Kazuhsa Fujikawa <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
49	3897018	JP	Case Study On Pipeline Measure Using Earthquake Resistant Ductile Iron Pipe Against Large Fault Rupture And Landslide Takeshi Hara <i>Kubota Corporation</i>
50	3897046	JP	Reinforcement Of Earthquake-Resistance Of Air Valves Naoki Hamanaka <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
51	3899061	JP	Effectiveness Of Ductile Iron Flexible Expansion Joint To Ground Displacement Tadahiro Yamada <i>Taisei Kiko Co., Ltd.</i>
52	3900623	JP	Evaluation Analysis About The Influence Of Pipe Breakage On Water Distribution Network Due To Earthquake Disaster Takaharu Kunizane <i>Tokyo Metropolitan University</i>
53	3900712	JP	Preparation Of Temporary Toilets Directly Connected To Sewers For Use In Times Of Disaster And Various PR Activities Nobuyuki Suzuki <i>City of Yokohama</i>
54	3901753	JP	To Ensure Water Supply Routes To Capital's Central Agencies At The Time Of An Earthquake Disaster Minoru Hiroshima <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
55	3901771	JP	Study On Preventing Manholes From Rising Due To Air Compression Aki Matsunaga <i>City of Yokohama</i>
56	3902161	JP	Verification Of Water Management System To Support Operation Of Water For Industrial Use Service Kazunori Matsumoto <i>METAWATER Co., Ltd</i>
57	3903460	ID	ITS-2: A Simple Synthetic Unit Hydrograph Model For Flood Estimation At Tropical Watersheds I Gede Tunas <i>Universitas Tadulako</i>
58	3906522	JP	Reinforcement Of Dam Body For Murayama-kami Reservoir –Construction Under Reservoir Operation, A Rare Instance In Japan Eiji Saito <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
59	3907424	JP	Strategic Development Of Pipeline Networks Towards Olympic And Paralympic Games Tokyo 2020 Norihiro Ishida <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
60	3919902	JP	Data Measuring Device For Water Pipe Network Keeping On Operating Even In Case Of Disaster Masashi Morita <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
61	3906703	JP	Construction Of The Response Support System For Water Quality Accidents In Water Resource Rivers Shingo Kitada <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
62	3881798	JP	Rapid Emergency Restoration Of Water Pipelines By Building A Leakage Information Gathering System Noriaki Naganuma <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
63	3897357	JP	Lessons From Different Types Of Major Earthquakes And Models To Strengthen Measures Tsunehiro Ozawa <i>Bureau of Waterworks</i>
64	3898168	JP	A Mechanism That Can Dispatch Rescue Supporting Teams Promptly And Smoothly Anytime, Anywhere A Disaster Occurs Akihiko Takei <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>
65	3901475	JP	Enhancing Customer Delivery Service In Rainfall Information System (Tokyo Amesh) Naoto Suruga <i>Tokyo Metropolitan Government</i>
66	3901671	JP	Establishing A Dual Transmission System Using The Portable Pump Of An Engine Drive Yuta Mori <i>Sendai City Waterworks Bureau</i>
67	3904882	JP	System Development To Efficiently Consolidate Damage Information On Large-Scale Earthquakes And Other Disasters Mitsue Asuke <i>Bureau of Waterworks, Tokyo Metropolitan Government</i>

68	3897071	JP	Impacts Of Fuji Eruption On Water Supplies And Countermeasure Kenichi Saito <i>Kanagawa Prefectural Government</i>
69	3901898	JP	Damage To Water Supply In FY 2016 Kumamoto Earthquake And Countermeasures Akihide Nagahama <i>Kumamoto City Waterworks and Sewerage Bureau</i>
70	3901960	JP	Water Leakage Survey Conducted After The Kumamoto Earthquake Yuji Matsuoka <i>Kumamoto City Waterworks and Sewerage Bureau</i>
71	3901987	JP	Impact On Water Quality Of Tap Water Resources Caused By The Kumamoto Earthquake Kaori Yoshida <i>Kumamoto City Waterworks and Sewerage Bureau</i>
72	3902822	JP	Cavities Exploration Around The Sewage Pipe Using Multi-array Chirp Signal GPR Toshimune Imai <i>Kawasaki Geological Engineering Co., Ltd.</i>
73	3919808	CN	Recent Progress for Emergency Water Supply in China to Address Chemical Spills: Technologies, Management & Practices Chao Chen <i>Tsinghua University</i>
74	3903067	BE	Resource And Energy Recovery In Flemish Municipal WWTP's: Current Practice And Future Perspectives Marjoleine Weemaes <i>Aquafin nv</i>
75	3893490	JP	Strategic Challenge To Optimize The Maintenance Of Water Pipeline By Application Of Mapping System In Hiroshima City Rina Nakano <i>Waterworks Bureau of the City of Hiroshima</i>
76	3900953	JP	Application Of Adaptive Resonance Theory To Anomaly Prediction For Water Pumps Koji Kageyama <i>Hitachi, Ltd.</i>
77	3904140	UK	Excel Based Tool For Optimum Pump Scheduling Of Water Systems Razieyh Farmani <i>University of Exeter</i>
78	3902166	PH	Evaluating The Costs And Benefits Of Water And Wastewater Infrastructure PPPs In The Philippines Yang Villa <i>Metro Pacific Water</i>
79	3918738	MA	Cost Of Connecting And Disadvantaged Households Mustapha El Amery <i>ONEE Morocco</i>
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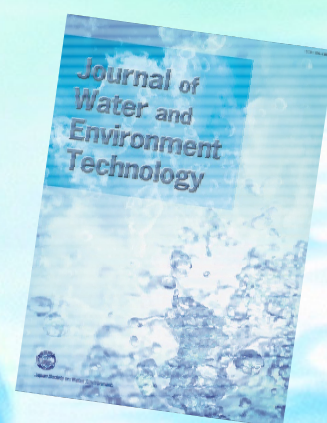
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- ✓ Mutual Support Network in the case of Disaster
- ✓ Cooperate with Overseas Water Associations
- ✓ Intelligence for Water Professionals



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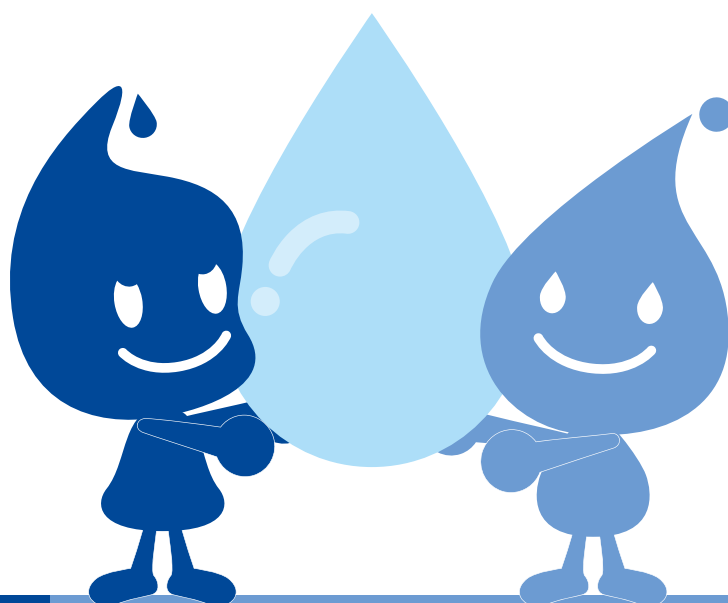
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234	3901508	JP	A Study Of A Chemical Mixing Method With Belt-Press Technology And Reduction Of Water Content Of Sludge Cake <i>Tadashi Kunitani METAWATER Co.,Ltd.</i>
235	3901799	JP	Construction Of Energy Self-Contained Incineration System With Ultra-low Moisture Content Type Dehydrator <i>Daiki Watanabe Tokyo Metropolitan Government</i>
236	3901856	JP	Development Of Methods To Evaluate Blockage Risk And To Prevent Its Occurrence In Sewage Sludge Incinerators <i>Hihashi Kishimoto Tokyo Metropolitan GovernmentComp</i>
237	3901863	JP	Effect Of Recycling Fibrous Materials Recovered From Sludge As A Dewatering Aid <i>Haruo Miyake Japan Sewage Works Agency</i>
238	3901951	JP	Demonstration Research On Innovative Biogas Production Process In WWTP <i>Yasuhiro Nishimura Kobelco Eco-Solutions Co.,Ltd.</i>
239	3902058	JP	Long-term Stable And Safety Storage By Drying Treatment Of Sewage Sludge In Fukushima City <i>Hiroshi Yamakoshi Nippon Steel & Sumikin Engineering</i>
240	3902306	JP	Biosolids Reuse As Fertilizer And Fuel By Advanced Dryer Of High Efficiency Using Heat Pump With Self-heat Recuperation <i>Taichi Ota National Institute for Land and Infrastructure Management</i>
241	3903614	JP	The Behavior Of Mercury And Other Heavy Metals In Sewage Sludge Mono Incinerators <i>Yingchao Cheng Kyoto University</i>
242	3903818	JP	Comparison Of DME And Bligh-Dyer Method In Lipid Extraction And Sewage Sludge Dewatering <i>Quan Wang Kyoto University</i>

Desalination Plant

- Abundant experience especially in Middle East
- Total 45 projects completed
- Capability of all process (MSF · MED · RO)



Water Treatment systems

- “MARIMO” and “KEMARI” are high speed fiber filtration technologies.
- These systems’ filtration rate are much higher than sand filtration; can be over 1,000m/day.



Hydrospring Hydrogen Generation System

- On-site system which can generate hydrogen with high purity by electrolysis of pure water.
- Ideal solutions to meet customer’s various demands safely and reliably.



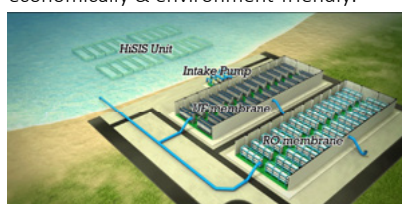
Hitachi Zosen Corporation

Hitachi Zosen Corporation is a global leading engineering company in the fields of environment and water business. We would like to welcome you our booth and presentation to find further details about our technology and vision.

HiSIS

(High-Speed Seabed Infiltration System)

- HiSIS is the hybrid system of a seawater intake and high grade pretreatment system.
- HiSIS combined with UF membrane make pretreatment for SWRO plants more economically & environment-friendly.



Reverse Osmosis(RO) Technology

- Osmoflo has expanded business of desalination and industrial water treatment by utilizing RO.
- In 2017, Hitachi Zosen acquired Osmoflo.



Filter Press

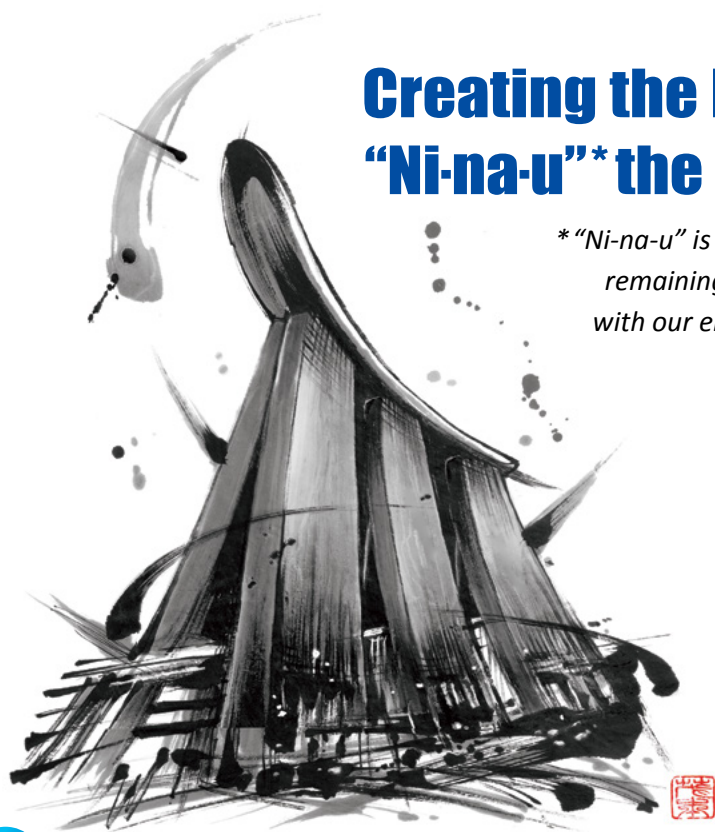
- Filter press is known as the most simple and effective dehydrator.
- More than 4,000 units achievement for industrial plants & water treatment plants.



243	3916555	US	The Effectiveness Of Sorbent Polymer Composite For Mercury Removal At A Full-Scale Municipal Sludge Incinerator <i>Kwok-Wai Tsang CDM Smith</i>
244	3898224	JP	Research On The Mercury Emission From Sewerage Sludge Incinerators <i>Tamayo Hashiya Tokyo Metropolitan Government</i>
245	3903305	JP	The Development Of The Conversion Technology Of The Sludge To Various Uses Using The New Dewatering And Drying System <i>Dai Takao Tsukushima Kikai Co., Ltd</i>
246	3903457	CN	Magnetic Micro-particle Conditioning-pressurized Vertical Electro-osmotic Dewatering (MPEOD) Of Activated Sludge <i>Yili Wang Beijing Forestry University</i>
247	3903695	JP	Earthworms Facilitate Attenuation Of QNr A Gene In Municipal Sludge <i>Guangyu Cui Gifu University</i>
248	3902264	NO	A Whole-Community Biosolids Management Based On Advanced Digestion <i>Zuliang Liao Cambi Group AS</i>
249	3904119	CA	Transformation And Toxicity Of Silver Nanoparticles During Sludge Conditioning And After Land Application <i>Banu Ormeci Carleton University</i>
250	3903568	JP	High-rate Nitrogen Removal Process By Using Granular Sludge <i>Yoshiaki Hasebe Organo Corporation</i>
251	3903979	DK	Calibration And Validation Of A Biofilm Model For A Pilot Scale Anammox Based Mainstream Process <i>Chitta Behera Technical University of Denmark</i>
252	3919809	JP	Influence Of Low-strength Wastewater On Aerobic Sludge Granulation And Applicability To Municipal Wastewater <i>Masaki Miyake Organo Corporation</i>
253	3878991	CN	Succession Of Microbial Communities In Response To A Ethanol Blend Fuel Release Throughout The 5-year Plume Life Cycle <i>Jie Ma China University of Petroleum-Beijing</i>
254	3900224	ES	Identification Of Pseudonocardia Sp As The Filamentous Bacteria Associated With Sludge Bulking In A Bioethanol WWTP <i>José L. Alonso Universitat Politècnica de València</i>
255	3903191	SE	Selection Forces Behind Sludge Granulation <i>Raquel Liébana Chalmers University of Technology</i>
256	3903798	KR	PCR-based Detection Of Microalgae In Nakdong River, Korea <i>Donghyun Lee Pusan National University</i>
257	3903549	KR	Formation Of Nitrifying Granules In Sequencing Batch Air-lift Reactor To Develop Continuous Process <i>Changhyun Ryu Korea Institute of Science and Technology</i>
258	3890621	JP	Microbial Population On Two Types Of Carrier In Anaerobic Fluidized Bed Reactor Under Several Operational Conditions <i>Junta Takahashi Swing Corporation</i>
259	3900614	AU	Pilot-scale Operation Of Hybrid Fixed Bed Activated Sludge System On Anaerobically Treated Wastewater <i>Karine Wong Chon Hon Downer</i>
260	3902849	JP	Full-scale Demonstration Of Innovative Sewage Treatment By DHS-MBBF System <i>Nobuhiro Tanaka Sanki Engineering co.,Ltd.</i>
261	3903281	BR	Performance Of A Biofilm Airlift Suspension Reactor With Third Tube Using For Domestic Wastewater Treatment <i>Tsunao Matsumoto Univ. Estadual Paulista</i>
262	3904046	BR	Speeding Up The Aerobic Granulation With Calcium And Sodium Alginate <i>Jessica Xavier Federal University Santa Catarina</i>
263	3905561	CA	Impact Of Food-to-microorganisms Ratio On The Settleability Of Aerobic Granular Sludge Treating High-strength Wastewater <i>Rania Hamza University of Calgary</i>
264	3884997	JP	Evaluation Of Short-Term Effects Of Increased Salinity On Carbon Utilization Of Estuarine Sediment Microbes <i>Satoshi Soda Ritsumeikan University</i>
265	3899027	JP	Expression Analyses Of Genes In Musty Odorant Cyanobacteria <i>Rumiko Yano Yokohama Waterworks Bureau</i>
266	3903921	ZA	Evaluation Of Molecular Methods For Industrial And Routine Monitoring Applications <i>Zaakirah Delair University of Johannesburg</i>
267	3904485	JP	Population Dynamics Of Algicidal Bacteria Against Dolichospermum Crassum In A Reservoir And Waterweed Zone Of A Lake <i>Taketoshi Shimizu Kobe City Water Works Bureau</i>
268	3908662	JP	Distribution Of Anaerobic Ammonium Oxidation (Anammox) Bacteria In Groundwater Of Kathmandu Valley In Nepal <i>Mai Nakano University of Yamanashi</i>
269	3901641	JP	Fate Of Endotoxin Activity In The Course Of Drinking Water Purification Process <i>Dai Simazaki National Institute of Public Health</i>
270	3901644	JP	Measures For Preventing Clogging Of Acidic Phosphorus Analyzer For Reactor <i>Takanoni Yoshizawa Tokyo Metropolitan Sewerage Service Corporation</i>
271	3902015	KR	AOP Treatment Strategies For Seasonal Occurrence Of Micro Pollutants <i>Taeyoung Choi Xylem Inc</i>
272	3902281	PT	LIFE Impetus: Improving Current Barriers For Controlling Pharmaceutical Compounds In Wastewater Treatment Plants <i>Maria João Rosa Laboratório Nacional de Engenharia Civil</i>
273	3902296	CH	Retention Of Powdered Activated Carbon In Wastewater Treatment Schemes For Micropollutant Removal <i>Rita Hochstrat University of Applied Sciences and Arts Northwestern Switzerland FHNW</i>
274	3902347	DE	Status Quo Of Micropollutant Removal In Central Europe <i>Ludwig Dinkloh Xylem Services GmbH</i>
275	3902421	CA	Development Of An Efficient Integrated Technology For The Removal Of Emerging Contaminants <i>Muhammad Faizan Khan University of Calgary</i>
276	3903402	JP	Removal Of Nonylphenol And Nonylphenol Monoethoxylate From Water And Sludge Samples By Ferrate (VI) <i>Warunee Limmun Iwate University</i>

277	3903755	AU	Laccase-catalysed Degradation Of Micropollutants Of Emerging Concern By A Nanofiltration Enzymatic Membrane Bioreactor Faisal Hai <i>University of Wollongong</i>
278	3901763	DK	Advances In Measurement Of Microplastics In Wastewater - In A Danish Context Hanne Loekkegaard <i>Danish Technological Institute</i>
279	3903780	PT	Improving The Control Of Pharmaceutical Compounds In WWTPs Through The Addition Of New Waste-based Activated Carbons Maria João Rosa <i>LNEC – National Civil Engineering Laboratory</i>
280	3898178	JP	Treatment Of Organic Wastewater By Multi Stage Biofilm Treatment To Reduce Excess Sludge Production And Air Amount Kiyomi Arakawa <i>Ebara Jitsugyo Co., Ltd.</i>
281	3882122	DE	Evaluation Of Activated Carbon Produced From Wastewater Screenings Using Hydrothermal Carbonization Daniel Bastian <i>RWTH Aachen</i>
282	3902890	KR	The Performance Of Pollutants Removal Using Nonpoint Treatment Filtration Device And Analysis Of The Filter Backwashing Junho Lee <i>Korea National University of Transportation</i>
283	3902891	CN	Biosorption Behavior Of Cd(II) By EPS From Agrobacterium Tumefaciens F2 Ang Li <i>Harbin Institute of Technology</i>
284	3902943	CY	Photocatalytic Processes: Are They Effective Solar-assisted Tools For The Inactivation Of Bacteria From Wastewater? Popi Karaolia <i>Nireas-International Water Research Center</i>
285	3903119	SE	Biofilter With Granulated Activated Carbon For Resource Efficient Removal Of Micropollutants Christian Baresel <i>IVL Swedish Environmental Research Institute</i>
286	3903207	CY	Control Of Antibiotic Resistance And DNA Contamination In Wastewater Through Biological And Advanced Oxidation Processes Popi Karaolia <i>University of Cyprus</i>
287	3903482	JP	Seasonal Variation Of Rotavirus Concentration In Cultured Oysters In Japan Erika Ito <i>Yamagata University</i>
288	3903680	JP	Effect Of Nitrification Process On Fluorotelomer Alcohols Biotransformation In Activated Sludge Fumitake Nishimura <i>Kyoto University</i>
289	3903856	TW	Carbadox Transformation By Phosphonate- And Carboxylate-based Chelating Agents Mediated By Mn(III) Wan-Ru Chen <i>National Cheng Kung University</i>
290	3904676	PT	Optimization And Validation Of ASE-HPLC-FLD-DAD Method For Extraction And Analysis Of Sixteen PAH In Sewage Sludge Maria Benoliel <i>EPAL - Empresa Portuguesa das Aguas Livres, S.A.</i>
291	3907522	ES	Temporal Variability And Effects Of Multiple Stressors On The Aquatic Invertebrate Community Under Semi-arid Conditions Andreu Rico <i>IMDEA Water Institute</i>
292	3915562	CN	Enhanced Bioelectroremediation Of Contaminated Sediment Through Stimulating Electroactive Degradors With Methanol Supply Aijie Wang <i>Harbin Institute of Technology</i>
293	3903900	CA	Treatment Of A Mixture Of Organic Chemicals Of Emerging Concern In Waters By Advanced Oxidation Processes Roland Leduc <i>Université de Sherbrooke</i>
294	3860673	CN	Effect Of Bamboo Charcoal Amendment To An AnMBR On The Effluent Composition And Microbial Community Of The Membrane Cake Liang Zhu <i>Zhejiang University</i>
295	3895480	UK	Clogging Vs. Fouling In Immersed Membrane Bioreactors Simon Judd <i>Judd & Judd Ltd/Cranfield University</i>
296	3900753	JP	Future Renovation Of The Nakahama Sewage Treatment Plant To MBR Shinya Nagae <i>Kubota Corporation</i>
297	3901456	JP	Upgrading The Large-scale MBR Facility For Municipal Wastewater Treatment Takahiro Suzuki <i>Kubota Corporation</i>
298	3901618	JP	Dyeing Wastewater Reuse By MBR+RO Integrated Membrane System Yukako Morita <i>Kubota Corporation</i>
299	3902803	JP	Effect Of Operating Condition Of Baffled Membrane Bioreactor (B-MBR) On Treated Water Quality And Sludge Filterability Taro Miyoshi <i>Maezawa Industries, Inc.</i>
300	3903531	TW	Biological Treatment Of DMSO-containing Wastewater From Semiconductor Industry Under Aerobic And Methanogenic Conditions Liang-Ming Whang <i>National Cheng Kung University</i>
301	3903665	ID	Effect Of Salt Concentration And C/N/P Ratio On The Performance Of Membrane Bioreactors For Treating Synthetic Produced Tjandra Setiadi <i>Institut Teknologi Bandung</i>
302	3916110	JP	Fouling Control By Activation Of Enzyme Production From Isolated Bacillus Subtilis In Membrane Bioreactor Hiroshi Yamamura <i>Chuo University</i>
303	3919216	SG	Performance Of A Pilot-scale Submerged MBR At Short Solids Retention Time For Municipal Wastewater Treatment And Reuse How Yong Ng <i>National University of Singapore</i>
304	3901862	AU	Membrane Distillation For Wastewater Reverse Osmosis Concentrate Treatment With Water Reuse Potential Gayathri Naidu <i>University of Technology Sydney</i>
305	3902170	CN	Application Of Coagulation--Ultrafiltration Hybrid Process For Fishmeal Processing Wastewater Treatment Zhengyang Gu <i>College of Environmental Science and Engineering, Tongji University</i>
306	3902395	ZA	Design, Construction And Testing Of A Laboratory Scale Membrane Distillation Bioreactor For Water Purification Kavisha Patel <i>University of the Witwatersrand</i>
307	3903199	KR	Comparative Study Of The Hollow-fiber Type Nanocomposite Membrane Imbedded With The Carbon Nanomaterials Eun-Sik Kim <i>Chonnam National University</i>
308	3903263	CA	Chemically Enhanced Fouling Mitigation In Anaerobic Membrane Bioreactor For Sustainable Treatment Of Wastewaters Kripa Singh <i>University Of New Brunswick</i>
309	3918992	TH	Integrating TiO2 Nanoparticles On Forward Osmosis Membranes For Advanced Filtration Performance Wenchao Xue <i>Asian Institute of Technology</i>
310	3903405	CN	Surface Modification Of Hydrophobic PVDF Microporous Membrane For Membrane Biofilm Reactor Dongyue Guo <i>Tianjin Polytechnic University</i>

311	3920337	CH	Using An Indigenous Plant Virus To Evaluate Virus Removal Efficiency Of A Pilot-scale Ceramic Membrane With Coagulation <i>Jason Torrey École polytechnique fédérale de Lausanne</i>
312	3901555	JP	Precedent Of The Tentative Large Scale MBR Plant And Reuse Of The Membrane Units <i>Soichiro Yatsugi Kubota Corporation</i>
313	3903721	JP	Influence Of Mixed Liquor Viscosity On Velocity Distribution Of Bubble Flow Around A Flat-plate Ceramic Membrane Module <i>Tomoyo Noguchi Tokyo City University Graduate School</i>
314	3897163	FR	Advanced MBR Integration Of Two Giant WWTP In Beijing And Paris Megacities: Huai Fang And Achères Projects <i>Sylvain Donnaz Suez International</i>
315	3903548	TH	Decolorization Of Reactive Blue 19 Wastewater By Membrane Contacting Process And Fenton Oxidation <i>Sermpong Sairiam Chulalongkorn University</i>
316	3918406	TH	Phytoremediation Potential Of Water Lilies (Nymphaea) In Decolorization Of Indigo Dye Wastewater <i>Anurak Khrueakham Kasetsart University Chalermphrakiat Sakon Nakhon Province campus</i>
317	3899060	JP	Water Purification And Desalination Using Light Energy <i>Masahiro Fujiwara National Institute of Advanced Industrial Science and Technology</i>
318	3900782	KR	Osmotically-enhanced Dewatering (OED) Process For Efficient Treatment Of Shale Gas Produced Water <i>Seungkwan Hong Korea University</i>
319	3900898	CN	Removal Of Acenaphthene From Wastewater By Pseudomonas Sp.: The Effect Of Its Extra- And Intra-cellular Substances <i>Yongxing Qian Zhejiang University</i>
320	3901474	JP	Application Of Ceramic Flat-Sheet Membrane In MBR For Municipal Wastewater Treatment <i>Rajan Thapa Chhetri Meidensha Corporation</i>
321	3901805	JP	Pretreatment Efficiency Of Biological Contact Filter On Microfiltration Membrane Facility In Drinking Water Production <i>Sosuke Onoda Kobelco Eco-Solutions Co., LTD.</i>
322	3919845	US	PACI Coagulation-Ceramic Filtration As An Advanced Water Treatment Process For Virus Removal <i>Luisa Ikner University of Arizona</i>
323	3921434	BE	Solution-diffusion Driven Transport Of Uncharged Organics In Ion-exchange Membranes <i>Lingshan Ma Ghent University</i>
324	3890655	CN	Effects Of Draw Solution Concentration And Temperature On The Performance Of Forward Osmosis Process Treating Greywater <i>Yongmei Li Tongji University</i>



Creating the Foundation for Life “Ni-na-u”* the Foundation for Life

*“Ni-na-u” is a Japanese word meaning supporting and remaining responsible. We aim to provide solutions with our engineering and manufacturing know-how.

- Visit us at booth No. **145 & 246-B**
- Join our Business Forum Session
from **11:15** on **18 SEPT**
at **Business Forum Room 2**



JFE Engineering Corporation



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325	3897085	TW	A Field Study On Characterization And Treatment Of Low Turbidity Water In Feng Yuan Water Supply Plant <i>Guan-Yu Lin Taiwan Water Corporation</i>
326	3901032	JP	Effective Management Of Deodorization Facilities Of Wet Weather Storage Tank <i>Hiroshi Kanehara Tokyo Metropolitan Sewerage Service Corporation</i>
327	3901084	CN	The Degradation Of Humic Acids Using Particle Electrodes Prepared By Ordered Mesoporous Carbon <i>Wenyan Liang Beijing Forestry University</i>
328	3903475	JP	Molecular-level Assessment Of Dissolved Organic Matter Removal By MIEX® In Drinking Water Treatment <i>Futoshi Kurisu The University of Tokyo</i>
329	3900605	JP	Dewaterability Improvement For Anaerobically Digested Sludge By Aeration Under Iron Compounds Present <i>Katsuhiro Ohno Swing Corporation</i>
330	3916043	KR	Removal Of Cr, Ni And Zn Using Powdered Activated Carbon (PAC) And Sodium Diethyldithiocarbamate-modified (SDDC) PAC <i>Kyung-Duk Zoh Seoul National University</i>
331	3868900	CN	Facile Long-Term On-Site Monitoring Of Pollutants In Water Using A Flexible, Ultra-light And Robust SERS Substrate <i>Lu-Bin Zhong Institute of Urban Environment, Chinese Academy of Sciences</i>
332	3903169	CN	Synthesis Of An Ultra-flexible Electrospun TiO ₂ /SiO ₂ /C Composite Nanofibrous Membrane As High-efficiency Photocatalyst <i>Yu-Ming Zheng Chinese Academy of Sciences</i>
333	3918996	SG	Metal-organic Composites For Photocatalysis <i>Yueping Bao Nanyang Technological University</i>
334	3882545	JP	Characteristics Of A Novel Nickel-aluminium Complex Hydroxide And Its Adsorption Capability Of Phosphate Ion <i>Fumihiko Ogata Kindai University</i>
335	3915483	TW	Solar Photocatalysis Of Carbofuran Rinsate Using Partial Shell-Core Ag/P3HT@TiO ₂ Nanocatalysts <i>Wen-Shiuh Kuo National United University</i>
336	3915518	DK	High-valuable Components From Shrimp Wastewater Are Extracted By A New Economically Efficiently Concept <i>Bodil Lorentzen Danish Technological Institute</i>
337	3915869	TW	Simultaneous Oxidation Of Phenol And Reduction Of CO ₂ By Means Of Electrochemical Technique <i>Chiung-Fen Chang Tunghai University</i>
338	3900656	TW	Removal Of Sulfamethazine From Aqueous Solutions By Electro-Fenton Technology Using An Activated Carbon Fiber Cathode <i>Wei-Lung Chou Hungkuang University</i>
339	3916882	TW	Performance Evaluation Of TMAH (Tetramethylammonium Hydroxide) Concentration Using Forward Osmosis <i>Shiao-Shing Chen National Taipei University of Technology</i>
340	3898998	TW	Removal Of Color And COD From Dyeing Wastewater By Simultaneous Anodic Chlorination And Electro-Fenton Oxidation <i>Chih-Ta Wang Chung Hwa University</i>
341	3899002	CN	The Catalytic Performance Of Various Cobalt-contained Bimetallic Oxide Catalysts On PMS Activation For BPA Degradation <i>Guangshan Zhang Harbin Institute of Technology</i>
342	3903440	CN	Fate Of As-loaded Nano Zero-valent Iron: Batch Study On As Remobilization Under Different Geochemical Conditions <i>Irene Man Chi Lo The Hong Kong University of Science and Technology</i>
343	3868605	US	Optimizing Energy Recovery In Large BNR Facilities Via Advanced Sludge Processing Technologies <i>Julian Sandino CH2M</i>
344	3899242	HK	Challenges In The Use Of Chlorination For Disinfection In The Largest Sewage Treatment Plant In Hong Kong <i>Simon Tsang Ove Arup & Partners Hong Kong Ltd</i>
345	3903316	ZA	Piloting A Combined Metallurgical Slag/Sugar Cane Bagasse Process For Treating Acid Mine Drainage <i>Tamlyn Naidu University of the Witwatersrand</i>
346	3903915	DK	Green Field Plant With Ambitious Goals <i>Peter Underlin Hillerød Utility company</i>
347	3901012	HK	Final Commissioning Of The Largest Sewage Treatment Plant In Hong Kong, Harbour Area Treatment Scheme Stage 2A <i>Simon Tsang Ove Arup & Partners Hong Kong Ltd</i>
348	3902907	CN	Limitation And Potential Study On An Innovative Treatment System For The Reclamation And Reuse Of Strong Wastewater <i>Xiaochen Chen Fuzhou University</i>
349	3903839	DK	Safe Recreational Lake Waters <i>Lotte Friis-Holm Danish Technological Institute</i>
350	3915702	MY	Decentralised Greywater Treatment Module: A 2-in-1 Filtration And Disinfection System To Treat For Non-potable Use <i>Phaik Eong Poh Monash University Malaysia</i>
351	3925819	JP	Development Of Small-Volume Johkasou <i>Nobuhiko Nishikawa KUBOTA Corporation</i>
352	3901664	JP	Balancing Raw Water Quality Improvement With Conservation Of River Water Quality By Water Bypass System <i>Hiroshi Akita Sapporo Waterworks Bureau</i>
353	3903065	CN	Visualized Generator Of Wastewater Quality And Quantity Variation In A Hybrid Sewerage System <i>Yanchen Liu Tsinghua University</i>
354	3903109	JP	Reduction Of Groundwater Contamination By Introducing Regional Cyclical Model Biogas System: A Case Study In Yaese <i>Shotaro Goto CTI Engineering Co., Ltd.</i>
355	3903299	SE	New Insights On Process Performance And Stability For Anaerobic Co-Digestion Through Modelling And Population Analysis <i>Magnus Arnell RISE Research Institutes of Sweden</i>
356	3904095	BE	CFD Aided Design And Scale-up Of A Novel Baffled Membrane Bioreactor To Save Scale-up Costs And Time <i>Usman Rehman AM-TEAM</i>
357	3921379	BE	Process Schemes For Future Energy-positive Water Resource Recovery Facilities <i>Mingsheng Jia Ghent University</i>
358	3906706	JP	Production Of Serious Musty Odor In Clear Upstream River <i>Shinichi Kimura Tokyo Metropolitan Government</i>

359	3901200	DE	On-line Control For Advanced Oxidation Processes Based On UV/VIS- And Fluorescence-Spectra <i>Achim Ried Xylem Services GmbH</i>
360	3903589	CN	Influence Of Different Surfactants On Original Nanofiltration Membrane Cleaning: Performances And Properties <i>Zhengyang Gu Tongji University</i>
361	3902880	JP	Simple Fabrication Of Economically-Viable Magnetic Carbon Nanotubes-TiO ₂ Composite For Degradation Of Organic Pollutants <i>Dion Awfa Tokyo Institute of Technology</i>
362	3905583	CN	Hydrothermal Synthesis Of Bi ₂ TiO ₂ O ₇ Polyhedral Microstructure And Its Photocatalytic Degradation For Dye Pollutants <i>Hui-Hui Gan Zhejiang University</i>
363	3901044	JP	Study On Effects Of N ₂ O Reduction In Fluidized Bed Incinerator Using Two-stage Combustion <i>Noriaki Nakamura City of Kawasaki</i>
362b	3903301	BE	Extreme Decentralization Is Essential To Drive Innovation In The Water Sector <i>Korneel Rabaey Ghent University</i>
364	3901537	PT	Implementing Decentralized Wastewater Treatment Systems In Developing Countries Based On International Best Practices <i>Mário Santos Águas de Portugal</i>
366	3903565	TH	Performance Evaluation Of Solar Septic Tank Treating Black Water <i>Chongrak Polprasert Thammasat University,</i>
367	3903597	AU	Re-engineering Waste Stabilisation Ponds For The 21st Century <i>Anas Ghadouani The University of Western Australia</i>
368	3926019	JP	Evaluation Of Shock-load Resilience Of A Down-flow Hanging Sponge Reactor For Sewage Treatment In Developing Countries <i>Takashi Onodera National Institute for Environmental Studies</i>
369	3901830	BE	Exploring The Impact Of A Compartmental Model For Hydrodynamic Description In A Plant Wide Model <i>Usman Rehman AM Team</i>
370	3903819	PT	Modelling Of Sanitary Sewer Systems Integrating Rainfall-derived Infiltration And Inflow <i>Barbara Vieira University of Minho</i>
371	3905458	CA	A New Spectrophotometry Based Method To Determine The Optimum Maturation And Activation Time For Polymers <i>Banu Ormeci Carleton University</i>
372	3900895	TW	Surface Modified Nanofiltration Membranes For Removing Iodine-disinfection By-products And Neonicotinoid Insecticides <i>Justin Chun-Te Lin Feng Chia University</i>
373	3903511	KR	Deep Learning Application For Predicting Membrane Fouling Using Real-time Fouling Images <i>Sanghun Park Ulsan National Institute of Science and Technology</i>
374	3899085	JP	Remote Inspection Of Piping Construction Utilizing Image Transmission Technology <i>Tomohiro Suto TSS Tokyo Water Co., Ltd</i>
375	3899092	JP	Control Of Residual Chlorine By The Chlorine Decrease Model During A Large-scale Rearrangement Of Distribution <i>Naohiro Takimoto Nagoya City Waterworks and Sewerage Bureau</i>
376	3900902	AU	Optimized Deployment Of Fluorescence Probes For Proactive Drinking Water Treatment <i>Edoardo Bertone Griffith University</i>
377	3901732	JP	Treating High Turbidity In Raw Water Originating From A Rapidly Flowing River <i>Hiroshi Akita Sapporo Waterworks Bureau</i>
378	3902035	JP	Development Of Water Purification Equipment With RO Membrane For Mini-scale Water Supply Facilities <i>Haruo Hamano SHIMIZU ALLOY MFG. CO., LTD.</i>
379	3897189	CN	Cotransport Of Biochar Colloids And Biochar-reducing Bacteria In Saturated Porous Media <i>Guangfei Liu Dalian University of Technology</i>
380	3883166	JP	A Simple Method For Detecting Escherichia Coli In Wastewater Using b-D-glucuronidase Fluorogenic Substrate <i>Hisashi Satoh Hokkaido University</i>
381	3899045	JP	Research Into "the Average Concentration Of Residual Chlorine" In Municipal Water Taps <i>Daisuke Ogawa Yokohama Waterworks Bureau</i>
382	3899321	KR	Detection Of Endocrine Disrupting Phthalates In Water Using Aptamer And Quantum Dots <i>Ahjeong Son Ewha Womans University</i>
383	3900592	JP	Countermeasures And Development Of Detection Methods For Cryptosporidium In Kanagawa Prefectural Waterworks <i>Hiroo Watanabe Kanagawa Prefectural Government</i>
384	3900639	JP	Online Solid Phase Extraction - Gas Chromatograph Mass Spectrometry For Monitoring Pesticide In Raw Water <i>Tomohide Nishio Kanagawa Prefectural Government</i>
385	3900792	JP	Cases Of Analysis Of Water Pollution Incident Samples In Yokohama City <i>Akinori Komori City of Yokohama</i>
386	3900834	JP	Current Status And Utilization Of Pipe Survey By Pipe Inspect Camera <i>Takashi Aihara TSS Tokyo Water Co., Ltd</i>
387	3901495	JP	Application Of The BRET Technique Coupled With Nematode Receptors To The Detection Of Musty Odorous Compounds In Water <i>Sadamitsu Shiode METAWATER Co.,Ltd.</i>
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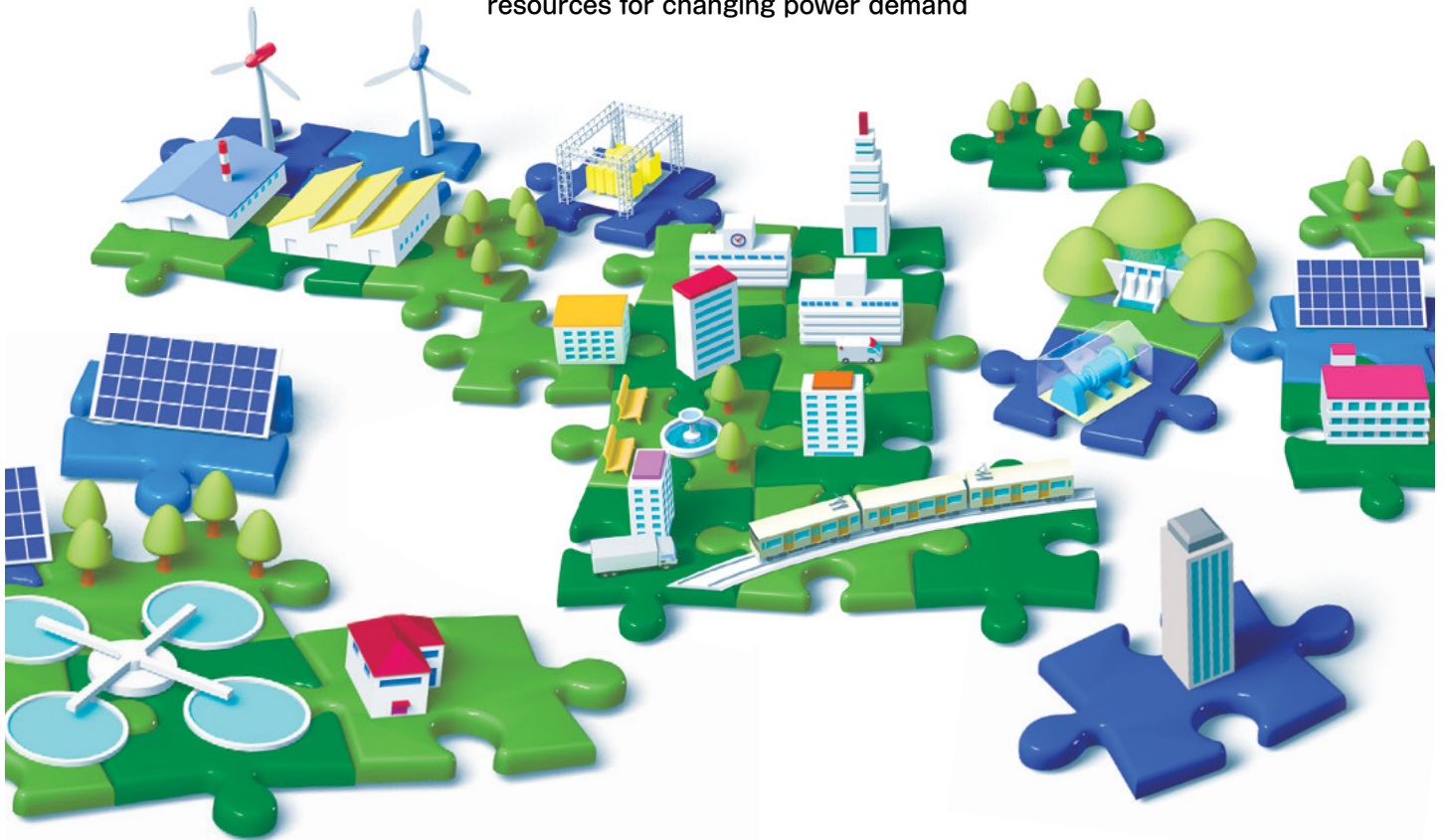
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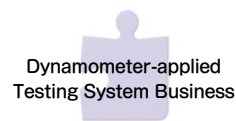
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Ever since our establishment in 1890, Kubota has worked to provide various products that contribute to people's lives and communities around world, such as iron piping for modern water service facilities, agricultural machinery.

And now, we are developing our business globally through products, technology, and services based on a long year experience especially offering an upstream to downstream water solution.

Setting SDGs as a compass, Kubota will continue to make united efforts to solve the social problems and support the future of the earth.

We look forward to meeting you at this valuable event introducing our challenges all over the world.



It is our pleasure to participate in the World Water Congress & Exhibition 2018 in Tokyo, a major international event related to water. Cosmo Koki co., Ltd has been providing overseas customers with cutting-edge products for more than 50 years. We are specialized in two main areas: the production of the joints related to the water pipes and the pipework under pressure. The latter is a unique technology that can construct the water pipelines without shutting water supply. It aims to supply safe and secure water in sustainable way, while meeting the needs of our customers. Using our know-how and those special techniques, we can offer a lot of solutions for your problem or demand about pipelines. Also, our strength is a consistent service as a maker. We have many branches all over Japan and various sections from the sales, the development, and the engineering to the factory and the distribution. Therefore, we listen to your demand, make a plan, develop and design, do the construction and installation, and give you a satisfactory service-after-sales. In addition to that, we have the overseas department. We can contribute to help maintaining your important assets for a long time and keep important natural resource of water from wasting. We look forward to present our exceptional technology at the Congress.



Meidensha Corporation ("Meiden") has more than 120 years of experience in developing a wide range of innovations, products and services in Power, Water, Railways and other Industries. We have contributed to the progress of water treatment systems. In Japan, there are many other challenges like aging facilities, developing flooding countermeasures. Meiden developed "Flood Monitoring System," an IoT service as a useful measure against urban flooding caused by sudden downpours. The system collects rainfall data and water level information of wastewater pipes from sensors fitted on manhole covers to provide the real-time information required for disaster prevention. Meidensha aims to continue offering attractive services to the satisfaction of the local communities through IoT solution service in the social infrastructure fields led by disaster prevention monitoring. In overseas countries, there are pressing needs to address the issues such as lack of water resources and environmental pollution due to increase in population and sharp expansion of economic activities. We developed a highly durable "ceramic flat sheet membrane" to address these issues. This cutting edge product is very effective for various industrial wastewater, municipal sewage and drinking water.

At the IWA WWCE 2018, Meiden will have the honor to introduce its new technologies. We are glad to learn more about the latest water related technologies and projects at the Congress because our objective is to create water innovations with our technologies and products to keep the environment clean for the future generations.



Hitachi, Ltd., headquartered in Tokyo, Japan, delivers innovations that answer society's challenges. The Hitachi Group is a global leader in the Social Innovation Business, and it has approximately 304,000 employees worldwide. Through collaborative creation, Hitachi is providing solutions to customers in a broad range of sectors, including Industry / Distribution / Water, Urban, etc. In the water business, Hitachi offers a variety of products, systems and services such as water resource reservation, flood control, water supply and sewage development, waste water treatment, and the reclamation and recycling of water for almost a century. As welcoming the IoT era we deliver innovations to society and customers by leveraging three strengths - operational technology (OT), IT and products/systems.



Swing Corporation is a leading water solutions provider with head office in Tokyo serving both municipal and industrial customers in domestic and overseas markets. We design, build, operate and maintain water and wastewater treatment plants using water and environmental technologies developed and proven in Japan over many decades. We currently operate and maintain more than 300 water treatment facilities nationwide, and have supplied to over 750 plants in 50 countries worldwide. At the IWA World Water Congress & Exhibition 2018, Swing Corporation will introduce our latest solutions for wiser and sustainable water management.

We look forward to welcoming all delegates to our Exhibition Booth and our presentations at Technical Sessions and Business Forums.



Taisei Kiko Co., Ltd. has consistently engaged in maintenance of water and sewage network since its foundation in 1941. In particular, after the World War II, Taisei Kiko developed "Retainer Gland" and a variety of other fittings with restoration and reconstruction of critical infrastructure. Company brought the Under Pressure Construction Method to completion, which is represented by "Yano Stopper," as a complementary construction method for maintaining the pipeline network to meet rapid urbanization.

In recent years, the remarkable aseismic performance of "TAI-FLEX" has received a high valuation throughout the world. A ductile iron ball type flexible expansion joint "TAI-FLEX" has a complete non-bolt structure and is known to protect water pipeline network from land subsidence as well as earthquakes.

In the meantime, the superiority of Japan's waterworks materials and equipment has already received high recognition from the world. Taisei Kiko, too, has fixed its eyes on the importance of overseas market since the 1960s, and has positively given publicity at exhibitions in Europe and the United States and Asia.

In 2018, our pipeline support product which we developed jointly with Osaka city and Okayama city was awarded "Infrastructure Maintenance Award" selected by six ministries of Japanese Government.

"User First." With this founding spirit always kept in mind, Taisei Kiko will be positively committed to research and development of new products and new construction methods for development of waterworks infrastructure.

At IWA World Water Congress & Exhibition 2018, we are really thrilled and enthusiastic about sharing products and construction methods with water professionals.

Gold Sponsors



Hitachi Zosen Corporation is proud to participate in the IWA Water and Development Congress & Exhibition 2018 in Tokyo as a Gold Sponsor. We are a global leading engineering company based in Japan in wide-ranging fields of environmental systems, industrial plants, processing equipment and more. We are putting unlimited efforts to find a better solution for our customers through experience and technology with sincerity to contribute to a prosperous future for nearly 130 years. We are willing to expand our environment and water business overseas by taking this opportunity. In our booth, we introduce 6 products; desalination plant, new seawater intake system called HiSIS (Hish-Speed Seabed Infiltration System,) water treatment fiber filtration systems called MARIMO & KEMARI, Reverse Osmosis (RO) technology by our subsidiary, Osmoflo, Hydrospring Hydrogen Generation System which can generate hydrogen with high purity by electrolysis of pure water, and Filter Press known as the most simple and effective dehydrator. We would highly appreciate if you stop by our booth and presentation and find further details of our technology and vision.



JFE Engineering Corporation is pleased to be a part of IWA World Water Congress & Exhibition 2018 in Tokyo. We believe it would be a great opportunity to share our expertise as one of the leading engineering companies in Japan.

JFE Engineering is expanding its engineering business which supports people's lives and industries in the fields of water, environment, energy and social infrastructure. We will continuously contribute to the social development as a company who realizes its corporate message, "Creates the foundation for Life, Ni-na-u* the Foundation for Life". (*Ni-na-u is a Japanese word meaning supporting and remaining responsible.)

Please visit us at booth No. 145 & 246-B, and join our Business Forum Session from 11:15 on 18 September at Business Forum Room 2 to know more about us.

We look forward to seeing you.



KANSEI Company is proud to announce that it will be present for the first time at the IWA Water and Development Congress & Exhibition held in Japan this year in September at Tokyo Big Site. We hope to be able to bring knowledge and experience in the wastewater system maintenance and management field as much as we hope to learn about new innovative water technologies from our colleagues participating in this event.

The machines that we are going to exhibit at our booth are all special and only own by KANSEI.

We call them the grand beaver, the grand sweeper and the earthworm robot.

We will be happily waiting for everyone in the Sponsor Zone near the Japanese Pavilion.

See you there!

Yoroshiku Onegaishimasu!



Kurimoto was founded as a manufacturing company of cast iron pipes for waterworks in 1909. We have contributed in the area of social infrastructure and improvement of industrial society in various ways by providing high quality ductile iron pipes, valves and industrial equipment for over 100 years. Our mission is to develop innovative technology, produce new values for our customers' satisfaction and trust, and create a better future for the people and planet. We are honored to participate in IWA World Water Congress & Exhibition 2018.



Morimatsu Industry Co., Ltd's philosophy is to contribute to a safe and stable water supply. Morimatsu is proud of its technology and experience in the safe and reliable storage of water, something which becomes a lifeline in times of crisis. Morimatsu Industry is a pioneer in the development of water supply tanks, early on introducing the use of stainless steel. Stainless steel water supply tanks we developed have offering superior strength, durability, sanitariness and watertightness. Stainless steel water supply tanks are quickly constructed, and are easy to inspect once installed, thereby reducing maintenance costs. And the recyclability of steel is gaining attention from environmental perspective. The IWA World Water Congress is the opportunity to showcase our technologies and products, we look forward to it.



Poten Environment is committed to exploring innovative solutions for creating a better environment. Since its establishment in 1995, Poten Enviro has been providing quality environmental services with constant technology upgrading and model innovation. With "water-related multibusiness development strategy," we have introduced integrated solutions throughout the industry chain. It covers detection and monitoring; consulting and design; system integration; project management; core equipment manufacturing; investment and operation; etc., in industrial water systems; urban water environments; ecological restoration; soil remediation and other fields. With strength in technology, we have a track record of hundreds of environmental achievements for different industries. Through innovation-driven business strategy, Poten Enviro continues to accumulate its competitive advantage in the emerging environmental market.



SUEZ is very pleased to take part in the IWA WWCE 2018. Indeed, we secure water resources, delivering drinking water, wastewater treatment services and smart solutions to cities and industries, using the full potential of digital technologies and innovative solutions. Our group provides long experience and technical know-how in water management solutions that enable cities and industries to optimize their resource management and strengthen their environmental and economic performances. Fully engaged in the resource revolution, SUEZ is looking forward to having valuable opportunities at this event for sharing new solutions, technologies and innovations, networking with water leaders, professionals and overseas partners. Our delegates and experts will be mostly pleased to meet with visitors and clients at the SUEZ lounge N° 103, situated near the exit. Come and visit us!



Major advances in technology are creating extraordinary opportunities to solve water issues globally. Xylem is a leading global water technology company dedicated to solving the world's most challenging water issues. We collaborate with our customers and partners to bring the right technology and solutions to the market to increase the productivity of, and optimize, water and wastewater operations. Our products and services move, treat, analyze, monitor and return water to the environment in public utility, industrial, residential and commercial building services settings. As a global leader in smart water, we are pioneering new ways to harness technology, data and innovation to deliver powerful and unprecedented insights to customers around the water cycle. We are excited about the incredible opportunities that new digital technologies are bringing to the water sector, and we are committed to driving innovation and advancing the conversation around digital transformation. We're proud to sponsor the IWA World Water Congress, and we look forward to participating in this important global dialogue about our water future. Let's solve water. @Xyleminc



METAWATER is honored to be present at the IWA World Water Congress & Exhibition 2018. As a company in water and environmental infrastructure in Japan, we are looking forward to connecting and sharing our problem-solving knowledge in terms of water and sewage services. We will be hosting the welcome reception, and are looking forward to seeing you all at our exhibition booth.

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14-16 OCTOBER

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18-21 NOVEMBER

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3rd IWA Regional
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10.00am, Wednesday 19th, IWA Stand 115

Blue-Green Systems

Editors-in-Chief: Prof. Jiuhui Qu & Prof. Ana Deletic

Blue-Green Systems brings together cutting edge research on sustainable, energy efficient and environmentally responsible water use in cities and their regions. It welcomes contributions from water engineers, economists, planners, hydrologists, ecologists, sociologists, architects, health workers, policymakers and anyone engaged in solving water challenges of a rapidly urbanizing planet.

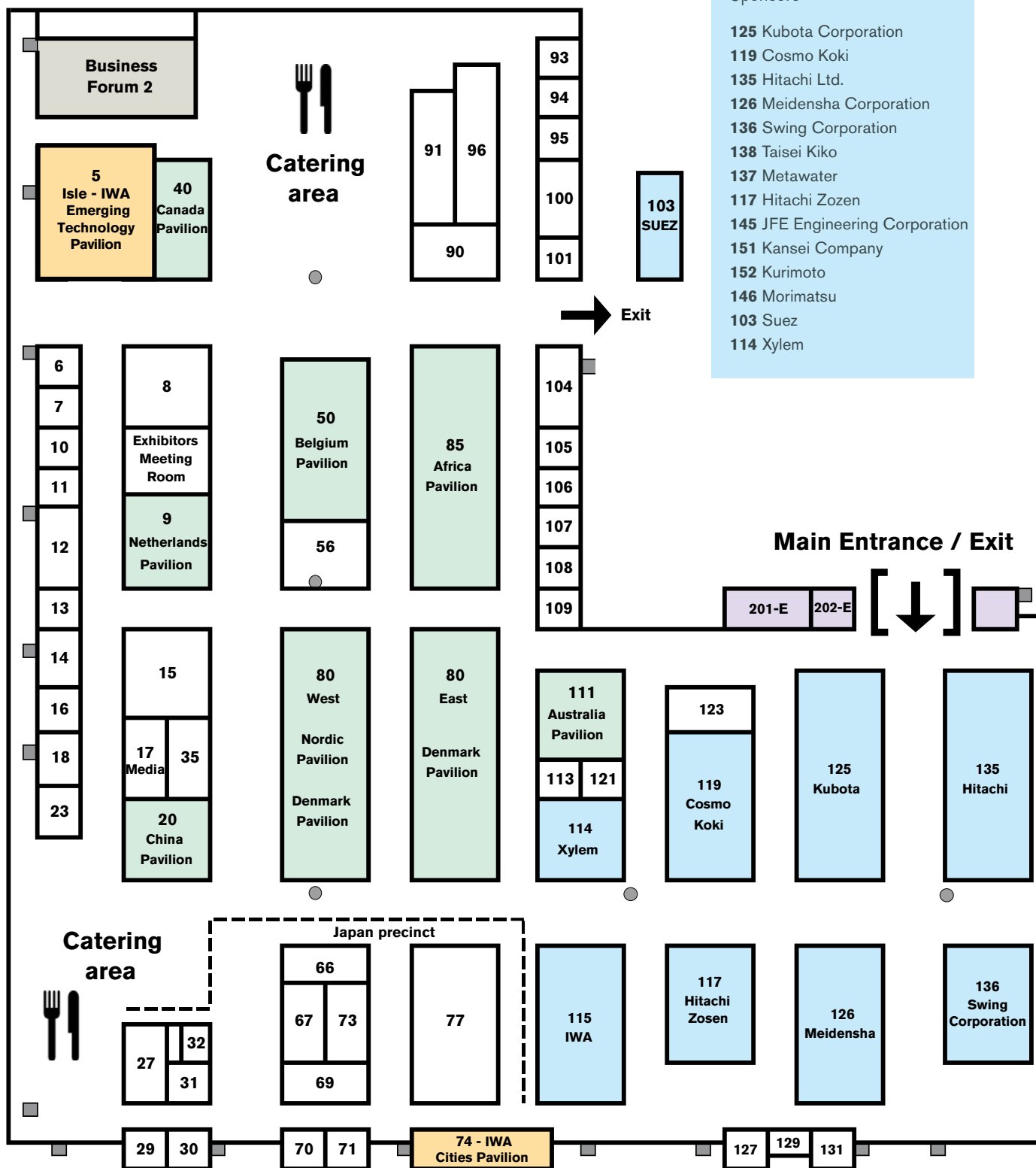


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Floor Plan



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Africa Pavilion
STAND 85

Belgium Pavilion
STAND 50

China Pavilion
STAND 20

Netherlands Pavilion
STAND 9

Australia Pavilion
STAND 111

Canada Pavilion
STAND 40

Denmark Pavilion
**STAND 80 EAST
AND 80 WEST**

Nordic Pavilion
STAND 80 WEST

Japan Pavilion

Organised by 2018 IWA
Congress Host Country Committee

STANDS 201 — 285

The Japan Pavilion highlights the Japan Industry and its major players. It is the opportunity to meet and become acquainted with water projects featured by Japan's leading companies, institutes, utilities and government innovations and products on a global stage.

Emerging Technology Pavilion

Organized by Isle Utilities and sponsored by Aqualia, Anglian Water, SUEZ and PureTerra Ventures

STAND 5

The Emerging Technologies pavilion at booth #5 facilitates as the meeting point between the utilities behind the challenges and innovative solution providers. The ETP program starts with a Challenge Exchange showcasing several challenges and unique best practices through the eyes of the utilities and investors. The second part of the program is dedicated to entrepreneurs with innovative (waste) water solutions from all over the world.

Water-Wise Pavilion

Organised by the International Water Association

STAND 74

Engage with the IWA throughout the week at the Water-Wise Pavilion, powered by Arup, CRC for Water Sensitive Cities, SIAAP and sponsored by Arcadis. The activities at the Pavilion will focus on the role of connecting utilities to their cities and basins and to exchange with key urban actors rethinking utility service boundaries to transition to water-wise cities. The pavilion will host interactive content on regenerative services, water-sensitive urban design, and water-wise basins, with a focus on inspiring action towards a water-wise world using the IWA Principles for Water-Wise Cities.

Registration desk



Emerging Technologies Pavilion

& Challenge Exchange Program



IWA & Isle Emerging Technologies Pavilion

Organized by Isle Utilities in cooperation with SWAN and sponsored by Aqualia, Anglian Water, SUEZ and PureTerra Ventures.

The Emerging Technologies pavilion at booth #5 facilitates as the meeting point between the utilities behind the challenges and innovative solution providers.

The ETP program starts with a Challenge Exchange showcasing several challenges and unique best practices through the eyes of the utilities and investors. The second part of the program is dedicated to entrepreneurs with innovative (waste) water solutions from all over the world.

We have divided the days in 3 themes:

Day 1: Challenges and Opportunities for Deployment of Water Treatment World Wide

- *Systea Italy*
- *Hawle Water Technology Norge Norway*
- *PowerTech Water United States*
- *Hydroko Belgium*
- *Hydro-dis Australia*
- *Terraheim Korea*

Day 2: Challenges in Water Recycling from Industrial Wastewater Stream

- *Blue Foot Membranes Belgium*
- *Luminultra Australia*
- *Carex of Sweden Sweden*
- *Aquafortus New Zealand*
- *LG Sonic Netherlands*

Day 3: Practical Insights into Smart Water Deployments

- *Kamstrup Denmark*
- *Frost & Sullivan United States*



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by organisation name

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Australia Pavilion <i>Australia</i>	111
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AVK Holding A/S <i>Denmark</i>	80
Azbil Kimmon Co., Ltd. <i>Japan</i>	202-E
BASF <i>Germany</i>	66
Beijing Tidelson S&I Rainwater Harvesting Technology Co. Ltd. <i>China</i>	20
Belgium Pavilion <i>Belgium</i>	50
Bioprocess Control <i>Sweden</i>	13
Blue Foot Membranes <i>Belgium</i>	5
Bureau of Sewerage, Tokyo Metropolitan Government <i>Japan</i>	283-A

Exhibitor	Stand
Bureau of Waterworks Tokyo Metropolitan Government <i>Japan</i>	283-A
CAMBI Group AS <i>Norway</i>	56
Canada Pavilion <i>Canada</i>	40
Canadian Association on Water Quality <i>Canada</i>	40
Canadian Water Network <i>Canada</i>	40
Canadian Water and Wastewater Association <i>Canada</i>	40
Carex of Sweden AB <i>Sweden</i>	5
Carleton University - Global Water Institute <i>Canada</i>	40
CAWARE FILTERING CORPORATION <i>Chinese Taipei</i>	104
CentREAU - Université Laval <i>Canada</i>	40
Chiba Prefectural Waterworks Bureau <i>Japan</i>	274-A
China Pavilion <i>China</i>	20
CHUOU SEKKEI ENGINEERS CO.,LTD. <i>Japan</i>	262-F
City of Yokohama <i>Japan</i>	276-A
Coast to Coast Climate Challenge <i>Denmark</i>	80
Confederation of Danish Industry <i>Denmark</i>	80
COSMO KOKI CO., LTD <i>Japan</i>	119 / 217-C
CRC for Water Sensitive Cities <i>Australia</i>	74
Daicel Corporation <i>Japan</i>	250-B
DAIICHI TECHNO CO., LTD. <i>Japan</i>	232-B
Danish Water Forum <i>Denmark</i>	80
Danish Water Technology Group <i>Denmark</i>	80
DANVA <i>Denmark</i>	80
De Nora Permelec Ltd. <i>Italy</i>	121
De Watergroep <i>Belgium</i>	50
DEK CO.,LTD <i>Japan</i>	212-G
Delairco Japan KK <i>Japan</i>	29
Denmark Pavilion <i>Denmark</i>	80 EAST
DHI Group <i>Denmark</i>	80
DK Corporation <i>Japan</i>	266-D
DKK-TOA CORPORATION <i>Japan</i>	30
DK-Power <i>Japan</i>	27

Exhibitor	Stand
DMW CORPORATION <i>Japan</i>	233-B
Dryp <i>Denmark</i>	80
Dynamita SARL <i>France</i>	107
EBARA JITSUGYO CO.,LTD. <i>Japan</i>	249-B
Ecologix Technologies Asia Pacific <i>Chinese Taipei</i>	123
eGloo Technologies <i>Australia</i>	113
Ekopak <i>Belgium</i>	50
EMORI Infotech <i>Japan</i>	71
Energy Management System Co., Ltd. <i>Chinese Taipei</i>	93
EPAL <i>Portugal</i>	35
EPAL-EP <i>Angola</i>	85
Estruagua <i>Spain</i>	106
European Benchmarking Co-operation <i>Netherlands</i>	9
EverythingAboutWater <i>India</i>	17
Express Water <i>India</i>	17
Federation of Japan Water Industries Inc. <i>Japan</i>	272-A
Filteck <i>Chinese Taipei</i>	108
Flanders Investment and Trade – FIT <i>Belgium</i>	50
Flanders Knowledge Center Water – VLAKEWA <i>Belgium</i>	50
Fracta <i>USA</i>	31
FUJITECOM.INC <i>Japan</i>	263-D
FUJIWARA INDUSTRY CO., LTD. <i>Japan</i>	251-B
FUSO Corporation <i>Japan</i>	234-B
G8 International Trading Co., Ltd. <i>Japan</i>	241-B
Global Water Intelligence <i>United Kingdom</i>	18
GLS Tanks International <i>Austria</i>	14
GOODMAN INC. <i>Japan</i>	264-D
Grundfos A/S <i>Denmark</i>	80
Gutermann <i>Switzerland</i>	264-D
Hach Ultra <i>Japan</i>	131
HARP - Hamamatsu Artful Technology Platform for Enriching Water and Daily Life <i>Japan</i>	282-A
Hermann Sewerin GmbH <i>Germany</i>	90

Exhibitor	Stand
Heron Instruments <i>Canada</i>	40
HINODE, Ltd. <i>Japan</i>	227-C
Hitachi, Ltd. <i>Japan</i>	135 / 242-B
Hitachi Zosen Corporation <i>Japan</i>	117
HORIBA Advanced Techno, Co., Ltd. <i>Japan</i>	252-B
Hydro-Dis <i>Australia</i>	5
Hydroko <i>Belgium</i>	5 / 50
Hydromantis <i>Canada</i>	40
IBARAKI Prefectural Government Public Enterprise Bureau <i>Japan</i>	275-A
Ichigo Holdings Co., Ltd. <i>Japan</i>	70
Informetics ApS <i>Denmark</i>	80
INRS Université de Recherche <i>Canada</i>	40
International Centre of Regulatory Excellence - ICORE <i>Canada</i>	40
International Water Association <i>Global</i>	115
Isle Utilities <i>Netherlands</i>	5
IWA-ASPIRE 2019 Hong Kong <i>Hong Kong</i>	8
IWA Water-Wise Cities Pavilion <i>Netherlands</i>	74
Japan Institute of Wastewater Engineering and Technology – JIWET <i>Japan</i>	281-A
Japan International Cooperation Agency – JICA <i>Japan</i>	285-A
Japan Pavilion <i>Japan</i>	
Japan Valve Manufacturers' Association <i>Japan</i>	203-E
Japan Water Endoscope Camera Association <i>Japan</i>	271-D
Japan Water Purifier Association <i>Japan</i>	201-E
Japan Water Research Center <i>Japan</i>	273-A
Japan Water Steel Pipe Association <i>Japan</i>	218-C
Japan Waterworks Newspaper Company <i>Japan</i>	213-G
Japan Water Works Association <i>Japan</i>	278-A
JFE Engineering Corporation <i>Japan</i>	145 / 246-B
Johkasou System Association <i>Japan</i>	244-B
Kamstrup A/S <i>Denmark</i>	80
KANSEI Company <i>Japan</i>	151 / 269-D

Exhibitor

by organisation name

Exhibitor	Stand
KAUST Water Desalination and Reuse Centre <i>Saudi Arabia</i>	7
Kawasaki Heavy Industries, Ltd. <i>Japan</i>	210-G
Ketech Scientific Instrument Co., Ltd. <i>Chinese Taipei</i>	95
KIMURA TECHNICAL Co., Ltd. <i>Japan</i>	205-G
KITAKYUSHU OVERSEAS WATER BUSINESS ASSOCIATION <i>Japan</i>	279-A
Klimaspring <i>Denmark</i>	80
KOBELCO ECO-SOLUTIONS CO., LTD. <i>Japan</i>	231-B
Kubota Corporation <i>Japan</i>	125 / 206-G
Kurimoto, Ltd. <i>Japan</i>	152 / 222-C
Kurita Water Industries <i>Japan</i>	31
KURODITE Corporation <i>Japan</i>	69
Kyowa Kako Co., Ltd. <i>Japan</i>	241-B
L'Office National de l'Electricité et de l'Eau Potable - ONEE <i>Morocco</i>	85
LG Sonic <i>Netherlands</i>	5
Lilongwe Water Board <i>Malawi</i>	85
LuminUltra Technologies <i>Canada</i>	5
Maezawa Industries, Inc. <i>Japan</i>	253-B
MDPI <i>Switzerland</i>	105
MEIDENSHA CORPORATION <i>Japan</i>	126 / 236-B
MESCO, Inc. <i>Japan</i>	223-C
METAWATER Co., Ltd. <i>Japan</i>	137 / 243-B
Ming Kuan Machinery MFG. Ent. Co., Ltd. <i>Chinese Taipei</i>	100
Ministry of Health, Labour and Welfare <i>Japan</i>	277-A
Mitsubishi Chemical Aqua Solutions <i>Japan</i>	66
Mitsubishi Electric Corporation <i>Japan</i>	240-B
Morimatsu Industry Co., Ltd. <i>Japan</i>	146
MORITA IRON WORKS CO., LTD. <i>Japan</i>	221-C
MTD <i>Netherlands</i>	9
NAGAOKA INTERNATIONAL CORPORATION <i>Japan</i>	247-B
National Water and Sewerage Corporation <i>Uganda</i>	85
NEC Corporation <i>Japan</i>	209-G

Exhibitor	Stand
Netherlands Pavilion <i>Netherlands</i>	9
Netherlands Water Partnership <i>Netherlands</i>	9
Newspaper of Waterworks Industry <i>Japan</i>	208-G
New Energy and Industrial Technology Development Organization – NEDO <i>Japan</i>	284-A
NIHON GENRYO Co., Ltd. <i>Japan</i>	248-B
Nihon Suido Consultants Co., Ltd. <i>Japan</i>	260-F
NIHON SUIKO SEKKEI Co., Ltd. <i>Japan</i>	256-F
Nijhuis Industries <i>Netherlands</i>	9
NIKKISO GIKEN <i>Japan</i>	129
NIPPON CHUTETSUKAN K.K. <i>Japan</i>	226-C
NIPPON KOEI CO., LTD. <i>Japan</i>	258-F
NIPPON SUIDO SHINBUN COMPANY <i>Japan</i>	213-G
NISHIKAWA KEISOKU CO., Ltd. <i>Japan</i>	235-B
NJS CO., LTD <i>Japan</i>	255-F
Nordic Pavilion <i>Nordic</i>	80 WEST
Nukote Coating Systems <i>USA</i>	91
OBOR Environmental Technology and Industry Alliance <i>China</i>	23
Ontoto <i>Australia</i>	10
ORGANO CORPORATION <i>Japan</i>	245-B
ORIGINAL ENGINEERING CONSULTANTS CO., LTD. <i>Japan</i>	257-F
PACIFIC CONSULTANTS CO., LTD. <i>Japan</i>	261-F
Parkson Corporation <i>USA</i>	109
PASCO CORPORATION <i>Japan</i>	268-D
Pentair - X-flow <i>Netherlands</i>	9
Pentough Corporation <i>Japan</i>	40
Phoslock Water Solutions <i>Australia</i>	11
POLITEC <i>Japan</i>	219-C
Polytechnique Montréal <i>Canada</i>	40
PowerTech Water <i>USA</i>	5
PUC Co., Ltd. <i>Japan</i>	283-A

Exhibitor	Stand
PureTerra Ventures <i>China</i>	5
Ramboll A/S <i>Denmark</i>	80
Rematec <i>Japan</i>	5
SANKI ENGINEERING CO., LTD. <i>Japan</i>	237-B
Sasakura Engineering Co., Ltd. <i>Japan</i>	67
Scalco ApS <i>Denmark</i>	80
Senegalaise des Eaux <i>Senegal</i>	85
SHIMIZU ALLOY MFG CO LTD <i>Japan</i>	214-C
ShinNan Casting Factory <i>Chinese Taipei</i>	94
Showarasekan Seisakusho Co.,Ltd. <i>Japan</i>	215-C
SIAAP <i>France</i>	74
SK-KAWANISHI CO., LTD. <i>Japan</i>	220-C
SK Valves Co., Ltd. <i>Chinese Taipei</i>	101
Skanderborg Forsyningsvirksomhed A/S <i>Denmark</i>	80
Smith Innovation <i>Denmark</i>	80
SODECI <i>Ivory Coast</i>	85
Springer Nature <i>Netherlands</i>	9
State of Green <i>Denmark</i>	80
SUEZ <i>France</i>	103 / 5
SUIDO KIKO KAISHA, LTD. <i>Japan</i>	238-B
SUIKEN CO., LTD. <i>Japan</i>	216-C
SUMITOMO CORPORATION <i>Japan</i>	211-G
Sumitomo Electric Industries, Ltd. <i>Japan</i>	229-B
SWAN Forum <i>United Kingdom</i>	5
Swing Corporation <i>Japan</i>	136
SYSTEAL S.p.A. <i>Italy</i>	5
Taisei Kiko Co., Ltd. <i>Japan</i>	138 / 224-C
TEC International Co., Ltd. – Tokyo Engineering Consultants Co., Ltd. <i>Japan</i>	259-F
tekReader Pty Limited <i>Australia</i>	113
Terraheim <i>Korea</i>	5

Exhibitor	Stand
The Danish Society for Wastewater Technology <i>Denmark</i>	80
The Source <i>United Kingdom</i>	115
Tokyo Gas Engineering Solutions Corporation <i>Japan</i>	265-D
TOKYO KEIKI INC. <i>Japan</i>	228-B
Tokyo Metropolitan Government <i>Japan</i>	283-A
TOKYO METROPOLITAN SEWERAGE SERVICE CORPORATION <i>Japan</i>	283-A
TOMCO2 Systems <i>USA</i>	127
TOMISU CO., LTD <i>Japan</i>	270-D
Toray Industries, Inc. <i>Japan</i>	230-B
TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION <i>Japan</i>	239-B
Trenchless International <i>Australia</i>	17
TSS Tokyo Water Co., Ltd. <i>Japan</i>	283-A
TSUKISHIMA KIKAI CO., LTD. <i>Japan</i>	254-B
TWEA <i>Chinese Taipei</i>	96
University of British Columbia <i>Canada</i>	40
VCS Denmark <i>Denmark</i>	80
Veolia <i>France</i>	77
VICTAULIC OF JAPAN LIMITED <i>Japan</i>	225-C
Vito <i>Belgium</i>	50
Water & Wastewater Asia <i>Singapore</i>	17
Water Solutions <i>Germany</i>	17
Watargas.it <i>Italy</i>	17
Watershare <i>Netherlands</i>	15
Waterworks Bureau, City of Kawasaki <i>Japan</i>	280-A
Whirl-Pak / Nasco Sampling <i>USA</i>	16
Wizit Energy <i>Korea</i>	12
Wonderful Copenhagen Convention Bureau <i>Denmark</i>	80
XYLEM Inc. <i>USA</i>	114
Yokogawa Solution Service Corporation <i>Japan</i>	73

Exhibitor

by booth number

Stand	Exhibitor
5	Anglian Water United Kingdom
5	Aquafortus Technologies Ltd. New Zealand
5	Aqualia Spain
5	Blue Foot Membranes Belgium
5	Carex of Sweden AB Sweden
5	Hydro-Dis Australia
5 / 50	Hydroko Belgium
5	Isle Utilities Netherlands
5	LG Sonic Netherlands
5	LuminUltra Technologies Canada
5	PowerTech Water USA
5	PureTerra Ventures China
5	Rematec Japan
5	SWAN Forum United Kingdom
5	SYSTEA S.p.A. Italy
5	Terraheim Korea
6	AQUAS INC. Chinese Taipei
7	KAUST Water Desalination and Reuse Centre Saudi Arabia
8	IWA-ASPIRE 2019 Hong Kong Hong Kong
9	Aquatech Global Events Netherlands
9	European Benchmarking Co-operation Netherlands
9	MTD Netherlands
9	Netherlands Pavilion Netherlands
9	Netherlands Water Partnership Netherlands
9	Nijhuis Industries Netherlands
9	Pentair - X-flow Netherlands
9	Springer Nature Netherlands
10	Ontoto Australia
11	Phoslock Water Solutions Australia
12	Wizit Energy Korea
13	Bioprocess Control Sweden
14	GLS Tanks International Austria

Stand	Exhibitor
15	Watershare Netherlands
16	Whirl-Pak / Nasco Sampling USA
17	Asian Water Malaysia
17	EverythingAboutWater India
17	Express Water India
17	Trenchless International Australia
17	Water & Wastewater Asia Singapore
17	Water Solutions Germany
17	Watargas.it Italy
18	Global Water Intelligence UK
20	Acevision (Beijing) Exhibition China
20	Aquafitting Co., Ltd. China
20	AURORA Group China
20	Beijing Tidellion S&I Rainwater Harvesting Technology Co. Ltd. China
20	China Pavilion China
23	OBOR Environmental Technology and Industry Alliance China
27	DK-Power Japan
29	Delairco Japan KK Japan
30	DKK-TOA CORPORATION Japan
31	Fracta USA
31	Kurita Water Industries Japan
32	AMCON INC Japan
35	EPAL Portugal
40	Canada Pavilion Canada
40	Canadian Association on Water Quality Canada
40	Canadian Water and Wastewater Association Canada
40	Canadian Water Network Canada
40	Carleton University - Global Water Institute Canada
40	CentrEAU - Université Laval Canada
40	Heron Instruments Canada
40	Hydromantis Canada
40	INRS Université de Recherche Canada

Stand	Exhibitor
40	International Centre of Regulatory Excellence - ICORE Canada
40	Pentough Corporation Japan
40	Polytechnique Montreal Canada
40	University of British Columbia Canada
50	AquaFlanders Belgium
50	Belgium Pavilion Belgium
50	De Watergroep Belgium
50	Ekopak Belgium
50	Flanders Investment and Trade – FIT Belgium
50	Flanders Knowledge Center Water – VLAKWA Belgium
50	Vito Belgium
56	CAMBI Group AS Norway
66	BASF Germany
66	Mitsubishi Chemical Aqua Solutions Japan
67	Sasakura Engineering Co., Ltd. Japan
69	KURODITE Corporation Japan
70	Ichigo Holdings Co., Ltd. Japan
71	EMORI Infotech Japan
73	Yokogawa Solution Service Corporation Japan
74	Arcadis USA
74	ARUP United Kingdom
74	CRC for Water Sensitive Cities Australia
74	IWA Water-Wise Cities Pavilion Netherlands
74	SIAAP France
77	Veolia France
80	3Vand Denmark
80	AquaGlobe Denmark
80	AVK Holding A/S Denmark
80	Coast to Coast Climate Challenge Denmark
80	Confederation of Danish Industry Denmark
80	Danish Water Forum Denmark

Stand	Exhibitor
80	Danish Water Technology Group Denmark
80	DANVA Denmark
80 EAST	Denmark Pavilion Denmark
80	DHI Group Denmark
80	Dryp Denmark
80	Grundfos A/S Denmark
80	Informetics ApS Denmark
80	Kamstrup A/S Denmark
80	Klimaspring Denmark
80 WEST	Nordic Pavilion Nordic
80	Ramboll A/S Denmark
80	Scalco ApS Denmark
80	Skanderborg Forsyningsvirksomhed A/S Denmark
80	Smith Innovation Denmark
80	State of Green Denmark
80	The Danish Society for Wastewater Technology Denmark
80	VCS Denmark Denmark
80	Wonderful Copenhagen Convention Bureau Denmark
85	Africa Pavilion Africa
85	African Water Association Ivory Coast
85	EPAL-EP Angola
85	L'Office National de l'Electricité et de l'Eau Potable - ONEE Morocco
85	Lilongwe Water Board Malawi
85	National Water and Sewerage Corporation Uganda
85	Senegalaise des Eaux Senegal
85	SODECI Ivory Coast
90	Hermann Sewerin GmbH Germany
91	Nukote Coating Systems USA
93	Energy Management System Co., Ltd. Chinese Taipei
94	ShinNan Casting Factory Chinese Taipei
95	Ketech Scientific Instrument Co., Ltd. Chinese Taipei

Exhibitor

by booth number

Stand	Exhibitor
96	AnCAD Inc. <i>Chinese Taipei</i>
96	TWEA <i>Chinese Taipei</i>
100	Ming Kuan Machinery MFG. Ent. Co., Ltd. <i>Chinese Taipei</i>
101	SK Valves Co., Ltd. <i>Chinese Taipei</i>
103 / 5	SUEZ <i>France</i>
104	CAWARE FILTERING CORPORATION <i>Chinese Taipei</i>
105	MDPI <i>Switzerland</i>
106	Estruagua <i>Spain</i>
107	Dynamita SARL <i>France</i>
108	Filtteck <i>Chinese Taipei</i>
109	Parkson Corporation <i>USA</i>
111	Australia Pavilion <i>Australia</i>
111	Australian Water Partnership <i>Australia</i>
113	eGloo Technologies <i>Australia</i>
113	tekReader Pty Limited <i>Australia</i>
114	XYLEM Inc. <i>USA</i>
115	International Water Association <i>Global</i>
115	The Source <i>United Kingdom</i>
117	Hitachi Zosen Corporation <i>Japan</i>
119 / 217-C	COSMO KOKI CO., LTD <i>Japan</i>
121	De Nora Permelec Ltd. <i>Italy</i>
123	Ecologix Technologies Asia Pacific <i>Chinese Taipei</i>
125 / 206-G	Kubota Corporation <i>Japan</i>
126 / 236-B	MEIDENSHA CORPORATION <i>Japan</i>
127	TOMCO2 Systems <i>USA</i>
129	NIKKISO GIKEN <i>Japan</i>
131	Hach Ultra <i>Japan</i>
135 / 242-B	Hitachi, Ltd. <i>Japan</i>
136	Swing Corporation <i>Japan</i>
137 / 243-B	METAWATER Co., Ltd. <i>Japan</i>
138 / 224-C	Taisei Kiko Co., Ltd. <i>Japan</i>

Stand	Exhibitor
145 / 246-B	JFE Engineering Corporation <i>Japan</i>
146	Morimatsu Industry Co., Ltd. <i>Japan</i>
151 / 269-D	KANSEI Company <i>Japan</i>
152 / 222-C	Kurimoto, Ltd. <i>Japan</i>
	Japan Pavilion <i>Japan</i>
201-E	Japan Water Purifier Association <i>Japan</i>
202-E	Azbil Kimmon Co., Ltd. <i>Japan</i>
203-E	Japan Valve Manufacturers' Association <i>Japan</i>
204-E	Aichi Tokei Denki Co.,Ltd. <i>Japan</i>
205-G	KIMURA TECHNICAL Co., Ltd. <i>Japan</i>
207-G	ABE NIKKO KOGYO CO., LTD. <i>Japan</i>
208-G	Newspaper of Waterworks Industry <i>Japan</i>
209-G	NEC Corporation <i>Japan</i>
210-G	Kawasaki Heavy Industries, Ltd. <i>Japan</i>
211-G	SUMITOMO CORPORATION <i>Japan</i>
212-G	DEK CO.,LTD <i>Japan</i>
213-G	Japan Waterworks Newspaper Company <i>Japan</i>
213-G	NIPPON SUIDO SHINBUN COMPANY <i>Japan</i>
214-C	SHIMIZU ALLOY MFG CO LTD <i>Japan</i>
215-C	Showarasekan Seisakusho Co.,Ltd. <i>Japan</i>
216-C	SUIKEN CO., LTD. <i>Japan</i>
218-C	Japan Water Steel Pipe Association <i>Japan</i>
219-C	POLITEC <i>Japan</i>
220-C	SK-KAWANISHI CO., LTD. <i>Japan</i>
221-C	MORITA IRON WORKS CO.,LTD. <i>Japan</i>
223-C	MESCO,Inc. <i>Japan</i>
225-C	VICTAULIC OF JAPAN LIMITED <i>Japan</i>
226-C	NIPPON CHUTETSUKAN K.K. <i>Japan</i>
227-C	HINODE, Ltd. <i>Japan</i>
228-B	TOKYO KEIKI INC. <i>Japan</i>
229-B	Sumitomo Electric Industries, Ltd. <i>Japan</i>

Stand	Exhibitor
230-B	Toray Industries, Inc. Japan
231-B	KOBELCO ECO-SOLUTIONS CO., LTD. Japan
232-B	DAIICHI TECHNO CO., LTD. Japan
233-B	DMW CORPORATION Japan
234-B	FUSO Corporation Japan
235-B	NISHIKAWA KEISOKU CO., Ltd. Japan
237-B	SANKI ENGINEERING CO., LTD. Japan
238-B	SUIDO KIKO KAISHA, LTD. Japan
239-B	TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION Japan
240-B	Mitsubishi Electric Corporation Japan
241-B	ANZAIKANTETSU, Co., Ltd. Japan
241-B	G8 International Trading Co., Ltd. Japan
241-B	Kyowa Kako Co., Ltd. Japan
244-B	Johkasou System Association Japan
245-B	ORGANO CORPORATION Japan
247-B	NAGAOKA INTERNATIONAL CORPORATION Japan
248-B	NIHON GENRYO Co., Ltd. Japan
249-B	EBARA JITSUGYO CO., LTD. Japan
250-B	Daicel Corporation Japan
251-B	FUJIWARA INDUSTRY CO., LTD. Japan
252-B	HORIBA Advanced Techno, Co., Ltd. Japan
253-B	Maezawa Industries, Inc. Japan
254-B	TSUKISHIMA KIKAI CO., LTD. Japan
255-F	NJS CO., LTD. Japan
256-F	NIHON SUIKO SEKKEI Co., Ltd. Japan
257-F	ORIGINAL ENGINEERING CONSULTANTS CO., LTD. Japan
258-F	NIPPON KOEI CO., LTD. Japan
259-F	TEC International Co., Ltd. – Tokyo Engineering Consultants Co., Ltd. Japan
260-F	Nihon Suido Consultants Co., Ltd. Japan
261-F	PACIFIC CONSULTANTS CO., LTD. Japan

Stand	Exhibitor
262-F	CHUOU SEKKEI ENGINEERS CO., LTD. Japan
263-D	FUJITECOM. INC. Japan
264-D	GOODMAN INC. Japan
264-D	Gutermann Switzerland
265-D	Tokyo Gas Engineering Solutions Corporation Japan
266-D	DK Corporation Japan
267-D	Aqueduct Mapping System CO., LTD. Japan
268-D	PASCO CORPORATION Japan
270-D	TOMISU CO., LTD. Japan
271-D	Japan Water Endoscope Camera Association Japan
272-A	Federation of Japan Water Industries Inc. Japan
273-A	Japan Water Research Center Japan
274-A	Chiba Prefectural Waterworks Bureau Japan
275-A	IBARAKI Prefectural Government Public Enterprise Bureau Japan
276-A	City of Yokohama Japan
277-A	Ministry of Health, Labour and Welfare Japan
278-A	Japan Water Works Association Japan
279-A	KITAKYUSHU OVERSEAS WATER BUSINESS ASSOCIATION Japan
280-A	Waterworks Bureau, City of Kawasaki Japan
281-A	Japan Institute of Wastewater Engineering and Technology – JIWET Japan
282-A	HARP - Hamamatsu Artful Technology Platform for Enriching Water and Daily Life Japan
283-A	Bureau of Sewerage, Tokyo Metropolitan Government Japan
283-A	Bureau of Waterworks Tokyo Metropolitan Government Japan
283-A	PUC Co., Ltd. Japan
283-A	Tokyo Metropolitan Government Japan
283-A	TOKYO METROPOLITAN SEWERAGE SERVICE CORPORATION Japan
283-A	TSS Tokyo Water Co., Ltd. Japan
284-A	New Energy and Industrial Technology Development Organization – NEDO Japan
285-A	Japan International Cooperation Agency – JICA Japan

Exhibitor Profiles

3VAND

Stand 80

3-VAND

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3-VAND is a close cooperation between four of the largest utility companies in Denmark, located in the three largest cities – Copenhagen, Aarhus and Odense. Our services are abstraction and distribution of drinking water, treatment of wastewater, groundwater protection and solutions for climate adaptation.

• We provide water services to 2 million people •
Turnover: more than EUR 900 million/year • Total fixed assets: EUR 6 billion • Investment: EUR 400 million/year More than 1.800 employees



ABE NIKKO KOGYO CO., LTD.

Stand 207-G

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Phone number: +81-3-5906-5631
Web address: www.abe-nikko.co.jp
General Email: h.degawa@abe-nikko.co.jp

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AcquAgenda

Stand 17

ACQUAGENDA & WATERGAS.IT BY AGENDA SRL

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AcquAgenda & Watargas.it by Agenda srl are the Italian directories of 500+ products & services for water pipelines and plants of water distribution, sewerage, waste water treatment. An integrated media system dedicated to 60.000 operators, buyers, contractors and 900 technical suppliers of the water market.



Stand 85

AFRICAN WATER ASSOCIATION

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Ivory Coast
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E-mail: adigbeu@afwa-hq.org

The African Water Association (AfWA), a non-profit organization, created in 1980, with a network of more than hundred- member companies over the whole of the African continent. Its know-how makes it possible to accompany its members towards achieving the Sustainable Development Goals (SDGs), and other short-term objectives set up for Africa. In 2020, AfWA will have its 40th anniversary, which they will celebrate during their 20th Congress in KAMPALA.



Aichi tokei denki co., ltd.

Stand 204-E

AICHI TOKEI DENKI CO., LTD

Contact person: Tetsuya Tsunekawa, Toshiaki Kojima
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Japan
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General Email: overseas@inet1.aichitokei.co.jp

Since the company's establishment in 1898, Aichi Tokei Denki has acquired precision machining technologies through the manufacture of clocks. Based on those technologies, we are contributing to society through the provision of unique sensors, systems and services. Our fluid measuring technologies, which have gained the trust of our customers through our key business of the manufacture of water and gas meters, are at the core of these contributions. Even today, our stance of understanding the constantly changing needs of our customers and changing our own business flexibly, based on our core technologies, remains unchanged. We hope that by providing solutions to our customers' and society's problems and offering them new value through our business, we will make even further leaps and bounds into the future.



Stand 32

AMCON INC.

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Japan
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AMCON is a JAPANESE manufacturer of the Multi-Disc-Type screw press dewatering equipment "VOLUTE". AMCON first invented "VOLUTE" in the world as pioneer. Since establishment in 1974, AMCON has developed and sold more than 3,500 units in over 72 countries. "VOLUTE" can solve any kinds of problems on sludge-treatment. Distributors wanted!!



Stand 96

ANCAD, INC.

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Chinese Taipei
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Since 1999, AnCAD has been devoted to the field of scientific computation. Visual Signal which is the killer software developed by AnCAD can reveal new insights from signal easily. Furthermore, we have combined the concept of IoT and Visual Signal on the issue of smart groundwater management.



Stand 5

ANGLIAN WATER SERVICES LIMITED

Contact person: Jean Spencer
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Web address: www.anglianwater.co.uk
General Email: pressoffice@anglianwater.co.uk

The largest water and water recycling company in England and Wales by geography, providing services to around 6 million customers across the East of England and Hartlepool. Supplying more than one billion litres of water a day to customers, the company employs 4,462 people and around 7,000 partners to achieve this.



Stand 241-B

ANZAIKANTETSU CO.,LTD

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General Email: aqua@anzaimcs.com

Anzai MCS was founded in 1991 as the innovation section of Anzai Kantetsu Co, Ltd., an engineering business established in 1967 for the design and maintenance of bespoke production and mechanical systems. Run by inventor Satoshi Anzai, MCS is a highly respected leader in field of Nanobubbles with its patented carbon ceramic nano pore technology



Stand 20

AQUAFITTING CO., LTD

Contact person: NA ZHANG
Address: 1701 room, TianTong Building, Luxun Road 58#, Zhongshan Dist, Dalian
China
Phone number: 0086 411 82710530
Web address: www.aquafitting.com
General Email: nina.hanene@gmail.com

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Stand 50

AQUAFLANDERS

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Website: www.aquaflanders.be
Email: info@aquaflanders.be

AquaFlanders is the voice of all Flemish
companies that are responsible for drinking
water and sewer management. We promote the
common interests of our members to the local,
regional, federal and European government and
stakeholders and support them with a package of
services. AquaFlanders encourages a sustainable
management and use of water.



Stand 80

AQUAGLOBE SKANDERBORG UTILITY

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Phone number: +45 87 93 93 93
Website: www.aquaglobe.dk
Email: service@skanderborgforsyning.dk

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partnership aiming to develop and demonstrate
energy efficient, innovative and state-of-the-art
water technology in a fully operational utility. We
deliver drinking water using smart tech, treat
waste water with environmental considerations
and develop and implement innovative climate
adaptation solutions locally for inspiration
globally.



Stand 9

AQUATECH

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process, drinking & waste water. The well-
established format in Europe, China and Mexico
covers the segments (Waste) Water Treatment,
Transport/Storage, Point-of-Use, Process
Control Technology/Automation and Engineering.



Stand 5

AQUAFORTUS TECHNOLOGIES LIMITED

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Aquafortus specializes in high water recovery and
ZLD technologies. Aquafortus has developed a
novel continuous, regenerable and non-thermal
ZLD technology, the ABX. The ABX is used
to recover clean water and resources from
wastewater containing high levels of salinity. The
ABX can save users 60% in operating costs.



Stand 6

AQUAS INC.

Contact person: Ms. Ivy Hsu
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Neihu Dist.
Taipei City 11491
Chinese Taipei
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Web address: www.aquas.com.tw
General Email: service@aquas.com.tw

Aquas Inc. Chinese Taipei based Manufacturer
of smart integrated sensors, telemetry systems,
and cloud-based SCADA and data management
systems used in the water, gas, environment,
infrastructure, industries at thousands of sites
across the globe. All manufacturing processes
follows the highest industrial standards and
certificated by ISO9001.



Stand 267-D

AQUEDUCT MAPPING SYSTEM CO., LTD.

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Japan
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Web address: www.ams-k.co.jp/
General Email: eigy@ams-k.co.jp

Aqueduct Mapping System (AMS) is an
information system development company for
waterworks and sewerage businesses.
AMS products include geographic information
system for pipeline maintenance, reception and
examination system for application of water
service pipe construction, and so forth.

Stand 74

ARCADIS

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ARUP

Stand 74

ARUP

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asian WATER

Stand 17

ASIAN WATER

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Asian Water, a bi-monthly magazine that brings to readers the rapid economic growth and industrialization that is taking place in Asia, particularly in Southeast Asia, one of the world's fastest growing markets for water and wastewater treatment technology. Published since 1984 and acquired by SHP since 2001, Asian Water has been an impartial, interesting and trusted source of information covering every country in Asia.



Stand 111

AUSTRALIAN WATER PARTNERSHIP

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The Australian Water Partnership is an Australian Government initiative. We make a difference by mobilising and connecting Australian water sector expertise to address demand in the Indo-Pacific to enhance sustainable water management. We share resources and lessons learned in extreme drought, climate change, and over three decades of water reform.



Stand 80

AVK / SHIMIZU

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Email: management@avkvalves.com

The AVK Group is a privately owned international industrial group currently comprising +100 companies worldwide. According to international standards, we develop and produce valves, hydrants and accessories for water and gas distribution, sewage treatment and fire protection. Furthermore, we deliver products and solutions for various industrial sectors and within advanced manufacturing.

azbil

Stand 202-E

AZBIL KIMMON CO., LTD.

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Web address: ak.azbil.com
General Email: ak-globalsales@azbil.com (For English)
web-info@azbil.com (For Japanese)

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Stand 20

BEIJING TIDELION S&I RAINWATER HARVESTING TECHNOLOGY CO., LTD

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Phone number: +86 10-60775529
Web address: www.tidelion.com
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Stand 13

BIOPROCESS CONTROL SWEDEN AB

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Bioprocess Control is a market leader in the area of flow gas flow analytical instruments for biotechnology related applications. We invest in innovation and development of smart instruments that allow for more efficient, reliable and high-quality research and analysis, leading to significant reductions in time and labour.



Stand 5

BLUE FOOT MEMBRANES NV

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Phone number: +32 492 58 55 79
Web address: www.bluefootmembranes.com
General Email: pvs@bluefootmembranes.com

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Stand 283-A

THE BUREAU OF SEWERAGE

Tokyo Metropolitan Government
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Phone number: +81 3 5320 6641
Web address: www.gesui.metro.tokyo.jp/english/
General Email: S4000008@section.metro.tokyo.jp

Bureau of Sewerage Tokyo Metropolitan Government is responsible for constructing, operating and managing Tokyo's sewerage system, which plays a vital role in ensuring a safe and pleasant living environment. We are promoting reconstruction of facilities, flood control, earthquake measures, combined sewer system improvement, advanced treatment, global warming measures etc.



Stand 283-A

BUREAU OF WATERWORKS

Tokyo Metropolitan Government
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General Email: international_affairs@waterworks.metro.tokyo.jp

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Stand 56

CAMBI GROUP AS

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Cambi is the global leading provider of thermal hydrolysis, advanced anaerobic digestion and biogas solutions for sewage sludge and organic waste management. We have 63 plants in operation or construction in 21 countries on 5 continents serving 70 million people. Cambi was established in 1989 and is headquartered in Asker Norway.



Stand 40

CANADIAN ASSOCIATION FOR WATER QUALITY - CAWQ

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The Canadian Association on Water Quality is a non-governmental, non-profit organization for scientists, engineers, technologists, administrators, practitioners and students. The mission of 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 40

CANADIAN WATER AND WASTEWATER ASSOCIATION

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The Canadian Water and Wastewater Association is the professional association for municipal water and wastewater utility leaders and the private sector that supports them. We are the voice of the municipal water sector in Canada at the national and the international level.



Stand 40

CANADIAN WATER NETWORK - CWN

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Canadian Water Network is a trusted broker of insights for the water sector, accelerating, advancing and improving water management decisions. CWN convenes government, industry and non-governmental partners around core challenges, and connects them with leading knowledge in a way that addresses the practical realities of water management. We ensure that research is actionable and leads to solutions.



Stand 5

CAREX OF SWEDEN AB

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Stand 40

CARLETON UNIVERSITY - GLOBAL WATER INSTITUTE

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Carleton University is a leader in water research and education. Global Water Institute (GWI) has more than 100 researchers from all faculties at Carleton University, and has established strong ties with the federal and provincial governments, industrial partners, non-profit organizations, research institutions, and international water networks.

Stand 104

CAWARE FILTERING CORPORATION

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814 Kaohsiung
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Email: caware@caware.com.tw

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Stand 40

CENTREAU – UNIVERSITÉ LAVAL

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CentraEau is an interdisciplinary centre that regroups Québec's driving forces in the field of water management research. CentraEau is also a cluster of water research experts. It regroups researchers and graduate students from 11 establishments from all over Quebec.



Stand 274-A

CHIBA PREFECTURAL WATERWORKS BUREAU

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General Email: gijutsu-w@mz.pref.chiba.lg.jp

Chiba Prefectural Waterworks Bureau, which was established in 1934, have installed advanced water treatment process consisting of ozonation and GAC since 1980 for the first time in Japan.

We supply drinking water to about 3 million people and important facilities such as Narita International Airport and Tokyo Disney Resort.



Stand 262-F

CHUO SEKKEI ENGINEERING CO., LTD.

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Web address: www.cser.co.jp
General Email: cs_webmaster@cser.co.jp

We have been providing water and environmental consultancy services, including water supply, sewerage, waste & environment, and information processing engineering around 70 years. We are considering how we can continue to contribute to each field, while advancing our technical development based on the needs of future generations.



Stand 276-A

CITY OF YOKOHAMA

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Japan's modern waterworks and sewerage systems originated in Yokohama and now the City offers safe and stable service to 3.7 million citizens.

"Yokohama Water Business Association", organization of public-private partnership, contributes to water supply and sewerage utilities overseas, using advanced technology of private sector and knowhow of public sector.



Stand 80

COAST TO COAST CLIMATE CHALLENGE

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Website: www.c2ccc.eu
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Coast to Coast Climate Challenge, is a LIFE IP running in the period 2017 - 2022. In Central Denmark Region, we are 31 partners running 24 sub projects on climate adaptation. The aim is to safeguard valuables from being destroyed by devastating weather incidents while concurrently achieving numerous other beneficial effects.



Confederation of Danish Industry

Stand 80

CONFEDERATION OF DANISH INDUSTRY (DI)

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Confederation of Danish Industry (DI) is a private organization funded, owned and managed entirely by 10,000 member companies within manufacturing, trade and service industry. DI's member companies within the water sector are among the world leading companies within equipment and consulting services. The major water utilities in Denmark are members as well.



Stand 119 / 217-C

COSMO KOKI CO., LTD

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Email: MFujiwara@cosmo-koki.co.jp

Cosmo Koki co., Ltd (Cosmo Koki) was founded in 1959 and has achieved its fame as a pioneer of "work under pressure". We commenced exports in 1962, and our first project abroad was the hot tapping on a crude oil pipeline in Iran. Since then, we have been providing overseas customers with our cutting-edge products for more than 50 years.



Stand 74

CRC FOR WATER SENSITIVE CITIES

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Stand 250-B

DAICEL CORPORATION

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Daicel Corporation has expanded into a variety of fields around our core technologies of cellulosic derivatives, organic chemicals, polymers and pyrotechnic devices. Daicel group's products include RO,UF,MF membrane modules. Newly developed modules equipped with hollow fiber type membrane based on cellulose derivatives have higher flux than before, and furthermore, some have high resistance to chemicals and microorganisms.



Stand 232-B

DAIICHI TECHNO CO., LTD.

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DAIICHI TECHNO is a construction & maintenance firm that conducts business in the domain of water purification and sewage treatment plants in Japan. We have many construction results including pumps, valves, gates, solar power plants, and small hydraulic power generators.



Stand 80

DANISH WATER TECHNOLOGY GROUP

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IWA
Booth
121



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IWA World Water Congress & Exhibition 2018

Booth 121

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DWTG gathers Danish suppliers from all facets of the industry: ground water, drinking water, process water, wastewater, urban water issues etc.

DWTG is part of Danish Export Association representing 600+ Danish companies. We are owned by our 65+ members, supplying components, equipment, systems and services to the public/private water sector.



Stand 50

DE WATERGROEP

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Website: www.dewatergroep.be
Email: info@dewatergroep.be

De Watergroep is the largest water company in Flanders (Belgium). We serve 3,2 million customers in more than 180 towns via a 34,000-kilometre network of pipes. De Watergroep's total drinking water production amounted to 130 million m³ in 2017. De Watergroep is also a partner in the expansion of municipal sewerage networks, as well as a designer of tailor-made water projects for business.



Stand 212-G

DEK CO.,LTD

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Address: 6-102 Aiioi-cho, Naka-ku
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Japan
Phone number: +81 - 45 - 671 - 1661
Web address: www.dek.co.jp
General Email: i.kawaguchi@dek.co.jp

DEK has engaged in the construction and maintenance of social water infrastructure regarding welding. We developed a small diameter pipe renewal construction method, using flexible stainless steel Pipes (SDF construction method). This method contributes to meeting the social needs of constructing earthquake-resistant and prolonged social infrastructures.

Delairco Japan

Stand 29

DELAIRCO JAPAN KK

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Japan
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General Email: dj.sales@delairco.com

Delairco provides a range of monitoring systems from meteorology and hydrology through to water supply, sewage and industrial applications. We distribute Pulsar Process Management's Level and Flow monitoring systems including Ultrasonic and Radar Level Sensors, Open Channel and Pipe Flow Monitoring, and Sludge Blanket monitoring.



Stand 80

DHI

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Website: www.dhigroup.com
Email: info@dhigroup.com

DHI are the first people you should call when you have a tough challenge to solve in a water environment – be it a river, a reservoir, an ocean, a coastline, a city or a factory. Our knowledge of water environments is second-to-none. It represents 50 years of dedicated research and real-life experience from more than 140 countries. We strive to make this knowledge globally accessible to clients and partners through our local teams and unique software. Our world is water

DK 第一環境株式会社

Stand 266-D

DK CORPORATION

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Japan
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Web address: www.daiichikankyo.co.jp
General Email: general-dept@daiichikankyo.co.jp

DK Corporation is a leading water meter billing company in the entrusting business of waterworks in Japan. We are eagerly engaged in providing broad range of professional services such as meter reading, billing system development, or management of water supply equipment, as well as in contributing to the welfare of regions for which we work. With our 6000 people and 43 years of business experiences, we actively seek for better solutions to keep water supply safe and sound.



Stand 27

DK-POWER,LTD.

Contact person: Hiroyuki Nishigaki Mr.
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Phone number: +81-6-6378-8733
Web address: www.dk-power.co.jp
General Email: dk-power@daikin.co.jp

Manufacturer and Consultant about Micro Hydropower Generation System for waterworks in Japan.



Stand 30

DKK-TOA CORPORATION

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General Email: intsales@dkktoa.com

DKK-TOA has been manufacturing measuring instruments for over 70 years. Based on our core electrochemical sensor technology, we produce a wide range of products through extensive research and development in environmental protection (water, air and gas) and in the field of medicine.



Stand 233-B

DMW CORPORATION

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Web address: www.dmw.co.jp/english/
General Email: international@dmw.co.jp

DMW Corporation was established in the year of 1910 and had manufactured large size water turbines and pumps. Since 1955, we have mainly manufactured Pumps, Fans, Blowers and Valves, and supplied them to many governmental organizations, electric power companies and private companies not only in Japan but also overseas.



Stand 80

DRYP

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DRyP is on mission to dramatically increase the collective knowledge of our urban watersystems. Through a network of collectively aware, smart, cost-efficient and wireless sensors - we provide an end-to-end product for integrating real-time measurements in your pipes, basins and overflows with the rainfall and downstream inputs to your WWTPs.



Stand 107

DYNAMITA

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Email: info@dynamita.com

Dynamita is pleased to bring Sumo, our advanced dynamic process modelling package to its native land, Japan. Sumo can handle treatment plants of unlimited complexity, BOD, N and P removal, digestion, IFAS and MBBR, SBRs, MBRs, clarifiers, thickeners, centrifuges and all process units typically used in municipal and industrial treatment plants. Sumo is used worldwide in Europe, North America, Australia and Asia by design engineers, municipalities and plant personnel, as well as in universities.



Stand 249-B

EBARA JITSUGYO CO.,LTD

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General Email: ej-ozone@ejk.co.jp

Ebara Jitsugyo focuses on "ozone," "deodorization and desulfurization," and "water processing" in environment-related R&D. First in the industry, we developed the ozone monitors and control systems used at most waterworks in Japan. Our unique, high-efficiency biological desulfurizer removing H₂S in biogas and swirling flow type backwashing filter are gaining popularity.

**Stand 9****EBC FOUNDATION**

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 The Netherlands
 Phone number: +31 6 5370 8388
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 General Email: peter.dane@waterbenchmark.org

EBC Foundation operates an international (Europe-wide) benchmarking programme to support water- and wastewater utilities in improving their service by finding weak spots in their operations and by learning from good practices in the network of utilities from across Europe.

**Stand 123****ECOLOGIX TECHNOLOGIES ASIA PACIFIC, INC.**

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 Tainan
 Chinese Taipei
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 Web address: www.ecologix.com
 General Email: sales@ecologix.com

Ecologix Asia, a division of Unites States-based company Ecologix Technologies, Inc., within 25 years of extensive experience, research and activities in wastewater treatment products, Ecologix Asia designs and manufactures the rotary drum screen, pipe flocculator, DAF, fine bubble membrane diffuser, MBR flat sheet module and skid-mounted MBR plant, shipped to the market in Oceania, S. Africa, Latin America, South East Asia and Mid East.

**Stand 50**
EKOPAK

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 General Email: info@ekopak.be

Water is the driving force of all nature and elementary for a sustainable future. Therefore Ekopak creates futureproof water treatment solutions to ensure business processes in an ecological and economical way, through continuous effort in R&D and inhouse engineers that custom design, build, operate and maintain your desired water quality.

**Stand 71****EMORI INFOTECH CO., LTD.**

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 TokyoBranch Kaku Yamauchi
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 Phone number: +81-776-23-6251
 Web address: www.i-emori.co.jp/hw/
 General Email: iw-info@i-emori.co.jp

Headquartered in Fukui, EMORI Infotech Co., Ltd. offers a range of IT related products, services, and imported & self-developed software applications. As the sole representative distributor for Innovyze solutions in Japan, we will exhibit InfoWorks WS Pro, IWLIVE Pro and InfoWorks ICM, the leading water resource management software for water industry.

**Stand 93****ENERGY MANAGEMENT SYSTEM CO., LTD**

Contact person: CHIH-HSUN LIN
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 Shanhua Dist.
 Chinese Taipei
 Phone number: +886 9637 59377
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 Email: a99102@ems.com.tw

FUSO is an enterprise that embraces water treatment

Having the long addressed demand for high water quality in the changing environment of Japan, we have the 70 years of real-asset accumulation.

Our corporate advantages:

- Tailor-made solutions, from design to management, actualize your plants seamlessly.
- Original steel pipe for water transport, made in our manufacturing plant, can be supplied to you and assembled by our staff.
- Our approach is branded as a QEA (ISO 9001, ISO 14001, ISO 55001) managing system by the International Organization for Standardization (ISO).
- We steadily think and act to reduce the burden on water infrastructure by providing the water and biomass power.

FUSO expands its value by constantly seeking new challenges and new possibilities.



1-23-5, Shinkawa, Chuo-ku, Tokyo 104-0033, Japan TEL: +81-3-3552-7090 URL: <http://www.fuso-inc.co.jp>

The leading & professional smart water meter manufacturer, EMS Co., Ltd, located in Chinese Taipei, has 27 years experiences in smart metering, wireless communications, AMR (automatic meter reading) software platforms to optimize water network operations, industrial applications and smart buildings well.



Stand 35
EPAL – EMPRESA PORTUGUESA DAS ÁGUAS LIVRES, SA

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General Email: dianac@adp.pt

EPAL is the largest water supply company in Portugal and a leader in product innovation and technologies to benefit the environmental sector. The company provides water to 3 million people and other services related to the urban water cycle, combining a range of competencies of renowned efficiency and resilience.



Stand 106
ESTRUAGUA

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Design, manufacture and installation of machinery for industrial and urban water treatment



Stand 17
EVERYTHING ABOUT WATER PVT LTD.

E-mail: enquiry@eawater.com
Web address: www.eawater.com/expo

The 15th EverythingAboutWater Expo 2018 will be held on August 23-25, 2018, New Delhi, India.

The Expo will be one of the most unique and comprehensive annual water events in India showcasing latest technologies in the water and wastewater management sector. Also recognized as South Asia's largest water event, this water event is a perfect gateway for stakeholders from across the globe to penetrate into the vast and dynamic ecosystem of the Indian water industry.



Stand 17
EXPRESS WATER

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Express Water is a monthly publication bringing together the world's water communities through print, live events, online properties, training programs and market solutions. With a circulation of 12,000 copies/month, we reach all major water companies, industries, government & municipal bodies, and consultants. We are part of The Indian Express Ltd - one of India's largest media conglomerates with a wide selection of publications and a network of offices.



Stand 272-A
FEDERATION OF JAPAN WATER INDUSTRIES, INC.

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The Federation of Japan Water Industries, Inc. (FJWI) is a sole representative organization for water supply and sewer industry. The member company of FJWI covers all the fields such as product, technology, design, construction, operation and maintenance know-how, etc. in water supply and sewer field



Stand 108
FILTTECK CO., LTD.

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General Email: cindy_chang@filtteck.com.tw

Filtteck is the professional filter cartridge manufacturer in Chinese Taipei dedicates to research and develop filter industry since 1998. With the technology and experience over these years, Filtteck becomes a leader in the filter. We offer various filter cartridges and bags for liquid filtration, including PP/NYLON/PBT melt-blown filter, PP/PES/PTFE pleated filter...etc.



Stand 50
FLANDERS KNOWLEDGE CENTER WATER (VLAKWA/VITO)

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Email: info@vlakwa.be

Providing Flanders with sufficient water of good quality at a reasonable price is a major challenge. The key to success is an cooperation between enterprises, researchers and government. The Flanders Knowledge Center Water (Vlakwa) is the driving force.

At those areas in the market where water problems constitutes a threat to the economy, Vlakwa initiates, coordinates and facilitates:

- International research, development and innovation projects;
- Partner search;
- Knowledge transfer.



Stand 50
FLEMISH INSTITUTE FOR TECHNOLOGICAL RESEARCH (VITO)

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VITO is a leading European independent research and technology organization in the areas of cleantech and sustainable development. The Water Management and Technology Department offers integrated solutions for challenges related to water. We support industry, public authorities and cities to setup demonstration projects and living labs to evaluate sustainable water management concepts.

FRACTA

Stand 31
FRACTA

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General Email: Please contact us from our website

Software service of predicting water main degradations based on artificial intelligence (AI) and machine learning (ML).



Stand 263-D
FUJITECOM INC.

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General Email: kaigai@fujitecom.co.jp

We are contributing to development of instruments using at water facility in the world as a pioneer of water leak detection technology for 60 years. We are a leading manufacturer of the equipment for Non-Revenue Water Reduction, the water facility management and its technology. We have 40 distributors all over the world.



Stand 251-B
FUJIWARA INDUSTRY CO., LTD.

Contact person: Michihiro Fujiwara
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Web address: www.fj-i.co.jp/English/
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We are continuously supporting the environment and the human-life, through our innovative products in the Water Treatment Business and the Disaster Protection Business, from 1980. We'll continuously keep on aiming at the simple design, low energy consumption, low lifecycle cost and low maintenance, by our original patented technologies and design.

**Stand 234-B****FUSO**

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FUSO is a comprehensive water-engineering company which covers a wide range of fields related to water infrastructure since 1946. We have four sectors: Construction, Distribution, Maintenance, and Steel pipe manufacturing. With experiences throughout Japan, FUSO has been managing to design, construct, operate, and maintain different type of water-treatment facilities.

**Stand 241-B****G-8 INTERNATIONAL TRADING CO., LTD.**

Contact person: Takahiko Sonoda
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Japan
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Web address: g8inter.co.jp
General Email: info@g8inter.co.jp

Our company is developing and selling M recycling machines.
The M recycling machine (MRM) can treat all flammable wastes with subcritical water technology with high pressure and high temperature steam and the processed product can be reused as excellent fertilizer, feed for livestock, energy, and the preparation of materials.

**Stand 18****GLOBAL WATER INTELLIGENCE**

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Global Water Intelligence is the global leader for primary research information on international water markets. Our monthly and weekly subscriptions, databases and reports are established as the leading source of data for developers, suppliers, financiers, governments, utilities and municipalities seeking data on water projects with an element of private sector participation www.globalwaterintel.com

**Stand 14****GLS TANKS INTERNATIONAL GMBH**

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General Email: info@glstanks.com

GLS Tanks manufactures glass-lined-steel tanks for biogas applications, waste-water-treatment-plants, bulk silos. The advantages of bolted, glass-lined-steel tanks are, that they are easily to transport and to build up on every destination. Through the fusion of steel and glass, the strength of the steel combines with corrosion resistant of the glass.

GOODMAN**Stand 264-D****GOODMAN INC**

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Web address: www.goodman-inc.co.jp
General Email: info@goodman-inc.co.jp

Goodman is the specialized trading company with engineers, developing and handling the most effective locating equipment for the Water, Electricity and telecommunication market. We are also involved in international cooperation projects for reducing non-revenue water.

**Stand 80****GRUNDFOS**

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DK-8850 Bjerringbro
Denmark
Phone number: +45 87 50 14 00
Website: www.grundfos.com
Email: info@grundfos.com

Grundfos is a global leader in advanced pump solutions and a trendsetter in water technology. We contribute to global sustainability by pioneering technologies that improve quality of life for people and care for the planet. Grundfos was founded in 1945 and has today 19,000 employees worldwide.

**Stand 264-D****GUTERMANN AG**

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General Email: ch@gutermann-water.com

GUTERMANN is a global technology leader and innovator in intelligent water loss technologies and leak detection technology with headquarters in Baar, Switzerland, and regional offices throughout the world. GUTERMANN has been specialising in the design, manufacturing and distribution of all acoustic leak detection equipment for more than 60 years. With a constant focus on innovation, we have often been at the forefront of new product developments in our sector, always pushing the boundaries of water leak management technology and often copied by our competitors but never quite matched. Thanks to our tireless commitment to product quality, functionality and user-friendliness, GUTERMANN has become a synonym for precision, quality and reliability in leak detection technology worldwide.

**Stand 131****HACH ULTRA JAPAN / DANAHER WATER QUALITY PLATFORM**

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Hach Ultra Japan offers water quality analytical devices. Our offering measures various types of water, from Waste water to Ultra pure water. BioTector can measure TOC with very challenging waste water. AppliTek can measure wide range of parameter, including TP/TN/COD.

**Stand 282-A****HAMAMATSU ARTFUL TECHNOLOGY PLATFORM FOR ENRICHING WATER AND DAILY LIFE (HARP)**

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HARP is a platform for discussing on overseas technical assistance and promotion consisting of Hamamatsu City Water Department and 13 private companies on designing and construction of water supply systems. HARP was established in Sep. 2016, and surveyed water supply systems at Bandung City of Indonesia in July 2017.

**Stand 90****HERMANN SEWERIN GMBH**

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General Email: info@sewerin.com

Hermann Sewerin GmbH
Technology leader for gas and water leak detection equipment
The Sewerin group of companies is a family owned 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 40****HERON INSTRUMENTS INC.**

Contact person: Michael Hare
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General Email: info@heroninstruments.com

Heron is committed to designing and manufacturing high quality water monitoring instruments and systems. We offer a broad range of water level monitoring instruments to monitor changes in the water table level. These include water level meters, oil/water interface meters, data loggers, real time monitoring systems and our new borehole camera.

**Stand 227-C****HINODE, LTD.**

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General Email: t-nishie@hinodesuido.co.jp

HINODE has manufactured and sold cast-iron manhole covers and associated products used for social-infrastructure development. We are the leading company in Japan in the field of manhole covers, and the basic structure of the covers we have developed through our strong technological capabilities have become the de facto industry standard.

asian WATER



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46350, PETALING JAYA, SELANGOR, MALAYSIA

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**Stand 135 / 242-B****HITACHI, LTD. / WATER BUSINESS UNIT**

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Japan

Phone number: Please contact the following General Email.

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General Email: General Email Contact

In the water business, Hitachi offers a variety of products, systems, and services for almost a century. As welcoming the IoT era, we deliver innovations to society and customers by leveraging three strengths – operational technology(OT), IT and products/systems.

**Stand 117****HITACHI ZOSEN CORPORATION**

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Japan

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Hitachi Zosen Corporation is a global leading engineering company in wide-ranging fields such as environmental systems, industrial plants, processing equipment and more. We have built a number of plants and systems to provide safe and reliable water and energy solutions to our clients across the globe for nearly 130 years.

HORIBA**Stand 252-B****HORIBA ADVANCED TECHNO, CO., LTD.**

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Japan

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Web address: www.horiba-adt.jp

General Email: Takao.asai@horiba.com

HORIBA Advanced Techno is covering tasks such as environmental measurement and semiconductor cleaning. By providing the instruments critical to such areas as water treatment, semiconductors, the environment, agriculture, aquaculture and foodstuffs, is a lifeline supporting modern living, the operations of a wide swath of industry.

**Stand 5****HYDRO-DIS**

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Australia

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General Email: mark@hydro-dis.com.au

Hydro-dis® has developed a unique and now proven technology that can disinfect water in potable and waste water applications and oxidises metals improving the efficiency of removal, without the need to transport, store

and use hazardous chemicals. Hydro-dis is a modular, portable system designed for cost-effective use in rural and isolated communities. It replaces traditional techniques that rely heavily on hazardous chemicals. We are driven by the imperative of finding 'a better way': while the world has large quantities of water, the amount available for human consumption is extremely limited.

**Stand 5 / 50****HYDROKO**

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General Email: info@hydroko.com

Hydroko is a privately owned, industrial company based in Belgium. Its core business is the production of top quality valves and IoT applications for the public water supply networks. Owing to its latest innovation : an automated, remotely controlled valve, Hydroko is now further expanding internationally through a network of carefully selected partners.

**Stand 40****HYDROMANTIS ENVIRONMENTAL SOFTWARE SOLUTIONS, INC**

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Canada

Phone number: 905 522 0012

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Email: info@hydromantis.com

Founded in 1985, a unique employee-owned Canadian environmental engineering and software company specializing in the development and application of innovative software-based technology for modelling, simulation, and control of wastewater treatment plants. The developer of GPS-X, a dynamic modeling and simulation platform for wastewater treatment plants. Hydromantis products and services have received attention from engineers and researchers around the world.

**Stand 275-A****IBARAKI PREFECTURAL GOVERNMENT**

Public Enterprise Bureau

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General Email: kikei@pref.ibaraki.lg.jp

Ibaraki prefecture which is located in a neighborhood of Metropolitan Tokyo is using Kasumigaura Lake with the size in the 2nd of country as one of tap water sources. We are studying world's first water purification technology which using the Advanced Oxidation Process (AOP) and the Magnetic Ion Exchange Resin at Kasumigaura water purification plant (ability 150,000m3/day of facilities) for remove musty odor and organic water which cause of the trihalomethane effectively.

**Stand 70****ICHIGO HOLDINGS CO., LTD.**

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Web address: www.aquanext-inc.com/en/index.html

General Email: e-omata@ichigo-net.co.jp

We, ICHIGO HOLDINGS, strive and aim to establish an ecological recycling society by solving environmental problems with our advanced technologies. Our mission is to produce and serve technology, know-how and the business model needed for each community by organizing the most suitable project team.

InforMetrics**Stand 80****INFORMETICS**

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Email: pr@informetrics.com

InforMetrics focusses on solving real problems in close collaboration with the Wastewater Utilities - through a flexible approach to real-time data from any source. InforMetrics specializes in systems that combine measurements with analysis, machine learning, numerical modelling and forecasts. We typically develop tailor-made solutions accessed through web apps or API's.

**Stand 40****INRS UNIVERSITÉ DE RECHERCHE**

Contact person: Rajeshwar Daval

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Québec

Canada

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The Institut national de la recherche scientifique (INRS) is a graduate university composed of four research and teaching centers located in different cities (Montréal, Laval, Varennes and Quebec). INRS plays a key role in the advancement of scientific knowledge and the training of highly qualified workers in strategic sectors of research, both in Quebec and in the rest of the world.

**Stand 40****INTERNATIONAL CENTRE OF REGULATORY EXCELLENCE - ICORE**

Contact person: Kevin Parks, Alberta Energy Regulator

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General Email: info@icoreglobal.ca

ICORE is an independent, politically neutral, not-for-profit global institute designed to serve the unique needs of regulatory authorities and the entities they protect as they evolve and pursue regulatory excellence. ICORE provides training, innovation and advisory services to regulatory and international organizations (including energy) in Canada and internationally.



Stand 5 ISLE UTILITIES

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Isle Utilities is an Water Consultancy firm. We Bring new technologies to life by connecting expertise, investment and inspired ideas across the globe. We identify challenges, connect technologies, organize collaborative evaluations, secure external investment, provide online tools and organize Industry events to accelerate market uptake.



**Stand 8
IWA-ASPIRE 2019 HONG KONG**
Contact person: IWA-ASPIRE 2019 Conference Secretariat c/o International Conference Consultants Ltd.
Address: Unit C-D, 17/F, Max Share Centre, 373 King's Road
North Point, Hong Kong
Phone number: (852) 2559 9973
Web address: www.iwaaspire2019.org
General Email: info@iwaaspire2019.org

The International Water Association Regional Committee of Hong Kong, China is delighted to host the IWA-ASPIRE Conference on 31 October – 2 November 2019 in Hong Kong.

With the theme of "Smart Solutions for Water Resilience", the highlights of the Conference will be smart and novel solutions for building up water resilience capability in Hong Kong in respect of water resources & supply, flood prevention and sanitation.
Come and see more at the IWA-ASPIRE 2019 in Hong Kong.



Stand 74 IWA WATER-WISE CITIES PAVILION

Contact person: Lisa Andrews
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The Netherlands
Phone number: 070 315 0792
Web address: www.iwa-network.org/projects/water-wise-cities/
General Email: water@iwahq.org (Lisa Andrews@iwahq.org)

Engage with the IWA throughout the week at the Water-Wise Pavilion, which will focus on the role of connecting utilities to their cities and basins and to exchange with key urban actors rethinking utility service boundaries to transition to water-wise cities. The pavilion will host interactive content on regenerative services, water-sensitive urban design, and water-wise basins, with a focus on inspiring action towards a water-wise world using the IWA Principles for Water-Wise Cities.



Stand 40 IWA WORLD WATER CONGRESS & EXHIBITION 2022 – TORONTO, CANADA

Canada invites you to Toronto – one of the greatest Water Cities in North America, if not the world! We are so proud to host IWA's World Water Congress & Exhibition, August 14-18, 2022 and we are excited to welcome delegates and exhibitors from every country in the world. Water is part of our national identity in Canada. Toronto is one of the safest, most-vibrant, multi-cultural and welcoming cities in the world and August is the best time to visit Canada – from Niagara Falls to the Thousand Islands to wilderness adventures.



Stand 285-A JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)

Contact person: Shigeyuki Matsumoto
Address: Nibancho Center Building, 5-25 Nibancho, Chiyoda-ku
Tokyo 102-8012
Japan
Phone number: +81-3-5226-9506
Web address: www.jica.go.jp/english/index.html
General Email: gegwt@jica.go.jp

JICA, an incorporated administrative agency in charge of administering Japan's ODA, is one of the world's largest bilateral aid agency. Under its new vision "Leading the world with trust", JICA supports the resolution of issues in developing countries through a flexible combination of various types of assistance methods.



Stand 203-E JAPAN VALVE MANUFACTURERS' ASSOCIATION

Contact person: Sasaki Masaya (Mr)
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Japan
Phone number: +81-3-3434-1811
Web address: www.j-valve.or.jp
General Email: info@j-valve.or.jp

Japan Valve Manufacturers' Association was established in 1954, with the participation of major domestic valve manufacturers for contributing to the expansion and advancement of the Japanese valve industry.



Stand 271-D JAPAN WATER ENDOSCOPE CAMERA ASSOCIATION

Contact person: Masakazu Yamamoto
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Hyogo
Japan
Phone number: +81 78-291-4666
Web address: www.jweca.org
General Email: info@jweca.org

We are an association that has developed methods to check internal conditions of pipelines with cable camera without suspending the flow of water. Currently, the association consists of 38 corporate members and 4 support members.



**Stand 201-E
JAPAN WATER PURIFIER ASSOCIATION**
Contact person: Naotaka Ueda, Kazuo Aoki
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Minato-ku, Tokyo 105-0002
Japan
Phone number: +81-3-5776-6267
Web address: www.jwpa.or.jp
General Email: jwpa@jwpa.or.jp

JWPA (Japan Water Purifier Association) was originally founded in 1972 as a nationwide "council" consists of household purifier manufacturers.

The new tasks for JWPA are to catch up the new trend of water purifiers. JWPA is working on the development of standards and requirements for these new types of water purifiers.

JWPA is also looking out the overseas market. Since 2011, JWPA has started to develop a relationship with NSF International.



Stand 273-A JAPAN WATER RESEARCH CENTER

Contact person: Kuni Takahashi
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Tokyo, 105-0001
Japan
Phone number: +81-3-3597-0211
Web address: www.jwrc-net.or.jp/english/
General Email: jwrcweb@jwrc-net.or.jp

JWRC is a nonprofit research institute aiming to solve important challenges facing water supply services in Japan. We implement various investigations, research and development projects, and collaborations with utilities, corporations, and academics in Japan and abroad. Through these activities, we contribute towards enhanced public health and living environments.



Stand 218-C JAPAN WATER STEEL PIPE ASSOCIATION

Contact person: Yoshio Noguchi Executive director
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Tokyo 102-0074
Japan
Phone number: +81-03-3264-1855
Web address: www.wsp.gr.jp
General Email: wsp@wsp.gr.jp

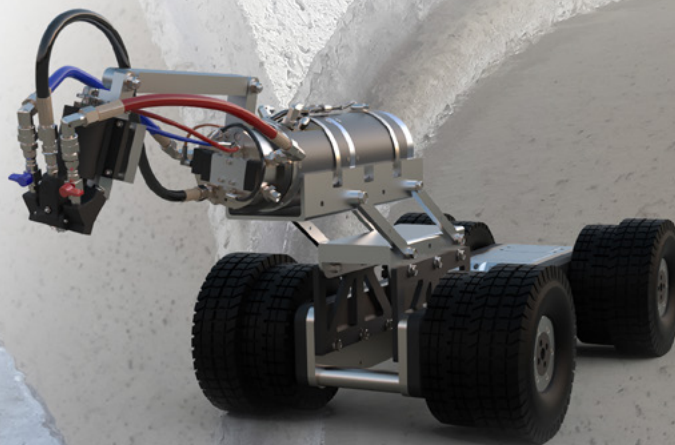
Japan Water Steel Pipe Association is promoting technical development and improvement, as the keywords for seismic upgrade and life-span extension, in order to meet the needs of the age. And, we are stably supplying excellent steel pipe and working with an aim to expand our market further.



**Stand 213-G
JAPAN WATERWORKS NEWSPAPER COMPANY**
The Japan Waterworks Newspaper Company is the news media which has served to promote the spread and improvement of water supply and sewerage systems for over sixty years. Through our service, we hope to contribute to the building of a sustainable water infrastructure in our country. Our publications include specialist papers Japan Waterworks Newspaper and Japan Sewerage Newspaper, and a monthly magazine Waterworks Opinion.

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JAPAN WATER WORKS ASSOCIATION

Stand 278-A

JAPAN WATER WORKS ASSOCIATION

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 Japan
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 Web address: www.jwwa.or.jp/english
 General Email: kokusai@jwwa.or.jp

Japan Water Works Association (JWWA) was established on May 12th, 1932 with the aim of introducing water supply facilities and developing water supply technologies in Japan. JWWA's main activities include research and study of water supply management, technologies and water quality. Those activities are quite essential for people's daily life.



Stand 145 / 246-B

JFE ENGINEERING CORPORATION

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 230-8611, Kanagawa
 Japan
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 Email: kuroiwa-ayako@jfe-eng.co.jp

JFE Engineering is the leading engineering company in Japan and globally whose strength lies in various fields such as water solutions and environmental solutions. We are constantly developing new and innovative solutions for every stage of the water cycle, from water intake to its discharge to the environment.

JSA

Stand 244-B

JOHKASOU SYSTEM ASSOCIATION

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 Tokyo, 105-0012
 Japan
 Phone number: +81 3 5777 3611
 Web address: www.jsa02.or.jp
 General Email: office@jsa02.or.jp

"Johkasou" is a term for Night Soil Treatment and Decentralized Wastewater Treatment Systems. Johkasou System Association is a body of the manufacturers of Johkasou and the parts. Who promote the spreading, developing the new technology and sophistication.

kamstrup

Stand 80

KAMSTRUP

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 Denmark
 Phone number: +45 89 93 10 00
 Website: www.kamstrup.com
 Email: info@kamstrup.com

We provide utilities around the world with state-of-the-art ultrasonic water meters, high-performing remote reading solutions, advanced monitoring of pressure and leakages as well as intelligent data analytics.

We deliver solutions in all shapes and sizes. While every project is unique, our starting point is always the same – you, the customer.

KANSEI 管清工業株式会社

Stand 151 / 269-D

KANSEI COMPANY

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 Japan
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 Web address: www.kansei-pipe.co.jp
 General Email: b-tisserand@kansei-pipe.co.jp

Kansei is a Japanese company who has been operating for over 50 years. The company is specialized in maintenance and operation management of public and private sector sewer pipes all over Japan. This includes inspection, cleaning and rehabilitation using new technologies and backed up by comprehensive and expert knowledge. 24/7, 365 days a year. You can count on us!



Stand 7

KAUST WATER DESALINATION AND REUSE CENTER

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 Phone number: +966 128084967
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 General Email: wdrc@kaust.edu.sa

WDRC is a globally recognized research leader in desalination and wastewater reuse, advancing the science and technology of water systems. WDRC seeks to shape the direction of emerging trends in the water sciences and technology in three flagship themes: (i) Greener Desalination; (ii) Water Security; and (iii) Waste to Resource.

Stand 210-G

KAWASAKI HEAVY INDUSTRIES, LTD.

Contact person: Energy System Division Sales Center

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Tokyo 105-8315
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Phone number: +81 3-3435-2533

Web address: global.kawasaki.com/en/

General Email: webh6ov@khi.co.jp

Kawasaki Heavy Industries produce diverse products forth into wide-ranging fields that go beyond land, sea, and air. For the water industry, Kawasaki's Gas turbine standby generator sets play important role to keep water treatment facilities running in case of an emergency such as a power outage or disaster.



Stand 95

KETECH SCIENTIFIC INSTRUMENT CO., LTD.

Contact person: Mr. Tony Lou

Address: 7F-2, No. 286-4, Shin-Ya Road,
Cheng-Chen Dist.

Kaohsiung

Chinese Taipei

Phone number: +886-7-8155899

Web address: www.ketech.com.tw

General Email: Head.Office@ketech.com.tw;
marketing@ketech.com.tw

Ketek Instrument, founded since 1992, has established its profound status as a professional instrument company. With more than 25 years experiences in industrial analysis, Ketech has devoted to the design and manufacture for water quality in-line monitoring analyzers, process instrumentation and system integration.

Its factory is situated in Kaohsiung Chinese Taipei where provides a good environment for developing state-of-the-art products and technologies for customers.



Stand 205-G

KIMURA TECHNICAL CO., LTD

Contact person: Koichi Kimura

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Web address: kimura-kougyou.com

General Email: 51@kimura-kougyou.co.jp

We, Kimura Industry have been dedicated to providing social services through public works. Kimura Industries specializes in waterworks and has a reputation in contributing to recovery work of the Great East Japan Earthquake, which occurred on March 11th 2011. The company also expand business field to sewage works, road works etc. We will continue to contribute to the lifeline of people and create the future.

KOWBA

Stand 279-A

KITAKYUSHU OVERSEAS WATER BUSINESS ASSOCIATION

Contact person: Hayashida Mitsushi

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Japan

Phone number: +81 93 - 581 - 2166

Web address: kowba.jp

General Email: mizubikyougikai_01@kowba.jp

The Kitakyushu Overseas Water Business Association (KOWBA) is an organization that aims to actively promote water business initiatives overseas through public-private partnerships in Kitakyushu City. KOWBA carries out activities to understand the seeds and needs of private companies, conducts studies on local needs overseas, exchanges and shares information with association members and related organizations, and examines and promotes methods for overseas development and the formulation of concrete projects through public-private partnerships.



Klimaspring

Stand 80

KLIMASPRING

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Denmark

Phone number: +45 40 98 44 55

Website: www.klimaspring.dk

Email: klimaspring@smithinnovation.dk

'Klimaspring' is a campaign initiated and financed by Realdania to support corporate-driven development efforts and new rainwater management solutions to make Denmark a leading force within climate adaptation technologies aiming at creating better cities and green growth. Smith Innovation serves as administrative secretariat for the campaign.



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Website: www.skvalves.com.tw
E-mail: international@skvalves.com.tw



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MAX DN3600mm



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MAX DN2000mm



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MAX DN2000mm



BUTTERFLY VALVES

MAX DN2600mm



MULTI-JET RATE OF FLOW CONTROL VALVE

MAX DN2000mm




KOBELCO ECO-SOLUTIONS CO., LTD.

Stand 231-B

KOBELCO ECO-SOLUTIONS CO., LTD.

Contact person: Hiroshi Tochiki
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Japan
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Web address: www.kobelco-eco.co.jp
General Email: kobelco-watertreatment@kobelco-eco.com

We will contribute to society as an "Environmentally Solutions Enterprise in sync with the Times" by offering our advanced water treatment technology useful to both global environmental conservation and living environment improvement.



Stand 125 / 206-G

KUBOTA CORPORATION / WATER & ENVIRONMENT BUSINESS PROMOTION DEPT.

Contact person: Gintaro Takahashi
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Ever since 1890, Kubota has worked to provide various products that contribute to people's lives and communities around world, such as iron piping for modern water service facilities and agricultural machinery.

And now, we are developing our business globally through products, technology, and services offering an upstream to downstream water solution.

Setting SDGs as a compass, Kubota will make continuous efforts to solve the social problems and support the future of the earth.



Stand 152 / 222-C

KURIMOTO, LTD.

Contact person: Toshiya Tanaka
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General Email: tetsu_kikaku@kurimoto.co.jp

Kurimoto has contributed to building social infrastructure over 100 years since our foundation in 1909. Our main products are ductile iron pipes and valves for water supply. We continue to strive to improve and service our products throughout their lifecycle and build more safe and secure lifelines in the world.



Stand 69

KURODITE CORPORATION

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Aichi 444-1302
Japan
Phone number: +81-(0)566-53-0901
Web address: www.kurodite.co.jp
General Email: info@kurodite.co.jp

KURODITE have supplied waterworks parts and original line stopping systems (ABS method) for Japanese life-lines since 1928.

KURODITE Strengths:

- * Strict Quality Control
- * Corrosion, Load, and Impact Resistance of KURODITE Original Alloy Ductile Iron
- * Simple, Safe, and Easy handling of the Air-bag Line Stopping System (ABS method)



Stand 241-B

KYOWA KAKO CO.,LTD.

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Web address: www.kyowa-kako.co.jp
General Email: info@kyowa-kako.co.jp

Kyowa Kako manages sewage treatment and composting various organic wastes such as sewage sludge, livestock excreta and food garbage using aerobic, high-temperature composting system. The products are very safe and good quality for sustainable agriculture. The number of the composting plants are 28 in Japan and 2 in Philippines.



Stand 5

LG SONIC B.V.

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Since 1999, LG Sonic has been a leading international manufacturer of chemical-free algae control and biofouling prevention systems. Our latest innovation, the MPC-Buoy, is a floating, solar powered, platform that combines real-time water quality monitoring, web-based software, and ultrasound technology to effectively control harmful algal blooms in large water surfaces.



Stand 5

LUMINULTRA TECHNOLOGIES LTD.

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Phone number: +61 434 771 881
Web address: www.luminultra.com
General Email: sales@luminultra.com

LuminUltra Technologies are the developer and global market leader of 2nd Generation ATP rapid microbial monitoring solutions. With new DNA testing platforms applied through our LuminUltra Cloud software to facilitate on-the-spot insights and action guidance for operators of all levels of expertise in any water application to save time and money.



Stand 253-B

MAEZAWA INDUSTRIES, INC.

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Japan
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Web address: www.maezawa.co.jp/english
General Email: intl@maezawa.co.jp

Since the establishment of the company in 1937, Maezawa Industries, Inc. has been engaged in designing, manufacturing, marketing and sales of valve, water treatment equipment for waterworks and wastewater over 80 years to increase reliability of customers. Our commitment to quality and performance has been earning customer trust.



Stand 105

MDPI (MULTIDISCIPLINARY DIGITAL PUBLISHING INSTITUTE)

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Phone number: +41 61 683 77 34
Web Address: www.mdpi.com
General Email: comms@mdpi.com / water@mdpi.com

MDPI is an academic open-access publisher with headquarters in Basel, Switzerland. MDPI publishes 177 peer-reviewed, scientific, open access journals. All journals uphold a peer-reviewed, rapid, and rigorous publication process to publish your work under a CC BY license, in a fast and straightforward manner, and to reach a wide readership.



Stand 126 / 236-B

MEIDENSHA CORPORATION

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Meiden has been involved with the infrastructure building in terms of power, water processing and rail. In water processing field, Meiden's key product portfolio includes: drinking water and wastewater treatment plant including SCADA and power distribution, renewable energy systems and our Cloud-computing system.



Stand 223-C

MESCO, INC.

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Web address: www.mesco.co.jp
General Email: pipe_ekikaku_com@mesco.co.jp

MESCO is an engineering company which developing in various fields, non-ferrous metals, electronical materials, environmental related facilities, and pipe materials in the worlds over a half century since established in 1964. And many products which matched customers' various requirements at any stage from planning to construction are lineup.



Stand 137 / 243-B

METAWATER CO., LTD.

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Japan
Phone number: +81-3-6853-7317
Web address: www.metawater.co.jp/eng/
General Email: info-kaigai@metawater.co.jp

METAWATER is one of the leading water and environment engineering companies with both of mechanical and electrical engineering expertise. As we can provide a total solution from design, construction up to O&M, we are ranked at top-class in EPC business for municipal drinking water and wastewater treatment market in Japan.

**Stand 100****MING KUAN MACHINERY MANUFACTURING ENTERPRISE CO.,LTD.**

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Phone number: +86-13761389158/+886-915800137
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General Email: mk8899.taipei@msa.hinet.net

Ming Kuan Machinery MFG. ENT. Co., Ltd. (Referred as MK below) is a professional valve manufacturer for more than 47 years. Throughout the year, MK has supplied valves for the major project domestically and internationally. MK is mainly manufacturing in special valve. We have not only sold to South East Asia region but also to the developed country like the United States of America, France and etc. MK owns large-scale of testing facilities.

**Stand 277-A****MINISTRY OF HEALTH, LABOUR AND WELFARE (MHLW), JAPAN**

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MHLW has jurisdiction over water supply in Japan.

The main roles are as follows:

- Governance of Waterworks Act
- Approval of water utilities license
- Supervision of water quality
- Supervisory guidance and entry inspection
- Financial assistance
- Dealing with international affairs
- Promotion of research and development

**Stand 66****MITSUBISHI CHEMICAL CORPORATION / MEMBRANE GROUP**

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Web address: www.m-chemical.co.jp/sterapore/en/index.html
General Email: membrane@m-chemical.co.jp

Mitsubishi Chemical group provides advanced MF/UF membrane filtration technologies for a wide range of applications.

"STERAPORE", is submerged MF/UF membrane with PVDF for MBR and has been installed in more than 5,000 MBR systems.

Key features of STERAPORE are "Easy Storage" and "No Need Backwash" and "No Need Drain Membrane Tank", "Available Integrated MBR System".

**Stand 240-B****MITSUBISHI ELECTRIC CORPORATION**

Address: Tokyo Building, 2-7-3, Marunouchi
Chiyoda-ku, Tokyo 100-8310
Japan
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Web address: www.mitsubishielectric.com

For water industry, Mitsubishi Electric provides our Ozone system, SCADA system, electrical engineering and Eco-MBR. These systems allow stable WTPs and WWTPs operation and efficient water use. We have rich experience of electric engineering, so we are willing to offer you reliable, advanced and sustainable solution.

**Stand 146****MORIMATSU INDUSTRY CO LTD**

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Japan
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Website: www.morimatsu.jp
Email: hiroki.takeda@morimatsu.jp

Morimatsu Industry is a pioneer in the development of water supply tanks, early on introducing the use of stainless steel. Stainless steel water supply tanks we developed have offering superior strength, durability, sanitairness and watertightness. Stainless steel water supply tanks are quickly constructed, and are easy to inspect once installed, thereby reducing maintenance costs. And the recyclability of steel is gaining attention from environmental perspective.

**Stand 221-C****MORITA IRON WORKS CO.,LTD.**

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Tokyo 101-0032
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General Email: takahashi-r@morita-tekkousyo.co.jp

MORITA have been manufacturing of various valves (Butterfly valves, Check valves, Sluice valves and others) which correspond with various specification for a century since 1917. MORITA's products are working in various field through relations between Water and People still more for Sewerage, Agricultural water and Industrial use.

**Stand 9****MTD INTERNATIONAL BV**

Contact person: Hans Verhoeven
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5032 ML Tilburg
The Netherlands
Phone number: +31 6 1095 3360
Web address: www.mtd.net
General Email: hans.verhoeven@mtd.net

For more than 25 years MTD has provided experienced and passionate employees, high quality equipment and the latest technology so that your project -anywhere in the world - can have optimal supply and treatment of water. In collaboration with other organisations and suppliers our market specialists would be happy to work on your project. Safe drinking water is essential and therefore no risks can be taken.

**Stand 247-B****NAGAOKA INTERNATIONAL CORPORATION**

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Japan
Phone number: +81-6-6261 6601
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General Email: nicinfojn1@nagaokajapan.co.jp

Founded in 1934, NAGAOKA International Corporation is one of the world's leading engineering and profile wire screen manufacturing firms providing total solution for groundwater intake & treatment. NAGAOKA has been growing globally and contributing to the world by leading and innovative technologies in the field of, "WATER" and "ENERGY".

**Stand 85****NATIONAL WATER AND SEWERAGE CORPORATION, UGANDA**

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General Email: info@nwsc.co.ug

National Water and Sewerage Corporation (NWSC) is a public utility company 100% owned by the Government of Uganda providing water and sewerage services in urban centers across the country on a commercial and financially viable basis. At its inception in 1972 NWSC operated in only three (3) major urban centers, the Corporation has systematically and aggressively expanded its geographical service coverage and has expanded to 236 towns with an estimated population of over 8 million people.

Orchestrating a brighter world

**Stand 209-G****NEC CORPORATION**

Address: 7-1, Shiba 5-chome
Minato-ku, Tokyo 108-8001
Japan
Phone number: +81-3-3454-1111
Web address: www.nec.com
General Email: Please inquire from Contact Us of our home page.

Under the brand statement, "Orchestrating a brighter world," NEC Group is focusing on Solutions for Society businesses that utilize the strengths of ICT to create the social value of safety, security, efficiency and equality that is necessary for people to live more prosperous lives.

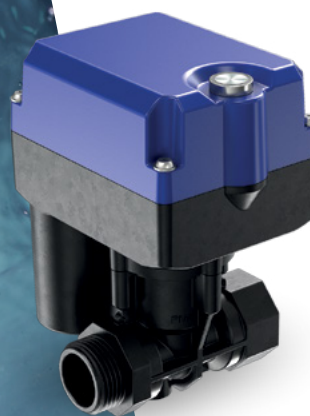
**Stand 284-A****NEW ENERGY AND INDUSTRIAL TECHNOLOGY DEVELOPMENT ORGANIZATION - NEDO**

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General Email: mizujunkan@ml.nedo.go.jp

NEDO plays an important part in Japan's economic and industrial policies as one of the largest public research and development management organizations. It has two basic missions: addressing energy and global environmental problems, and enhancing industrial technology.



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Stand 208-G

NEWSPAPER OF WATERWORKS INDUSTRY

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Phone number: +81-3-6435-7646
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"Newspaper of Waterworks Industry" thinks about the global environment and people's living through "water". We are developing a wide range of coverage activities for the central government agencies, local public entities nationwide, affiliated companies, research institutes, related organizations, etc., mainly in water supply and sewage systems.



Stand 248-B

NIHON GENRYO CO., LTD.

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General Email: info@genryo.co.jp

NIHON GENRYO since 1939 is a manufacturer of sand filter media. For water/wastewater, we also manufacture "SIPHON TANK" which is an eco-friendly sand filtration device with cutting-edge technology. It needs no replacement of filter media. In emergency, Mobile type can be moved to disaster areas quickly.



Stand 260-F

NIHON SUIDO CONSULTANTS CO., LTD.

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Phone number: +81-3-5323-6200
Web address: en.nissuicon.co.jp
General Email: en.nissuicon.co.jp/contact/index.html

Nihon Suido Consultants Co., Ltd (NSC) is a leading water environmental engineering-consulting firm in Japan, which has been providing comprehensive consultancy services for water supply, wastewater, drainage, sanitation, river engineering and water environment in domestic and global markets including Official Development Assistance projects over the past six decades.



Stand 256-F

NIHON SUIKEI SEKKEI CO., LTD.

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General Email: water@n-suikei.co.jp

NIHON SUIKEI SEKKEI CO., LTD. is a Japanese leading consulting firm which supports water/wastewater utilities in their decision-makings at all life cycle of the assets. The main business is asset designing and improving utility's asset management, which includes developing asset management system and supporting outsourcing projects, e.g. by PFI contract.



Stand 9

NIJHUIS INDUSTRIES ASIA PACIFIC PTE LTD

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Nijhuis Industries provides a unique portfolio of smart game-changing solutions in sustainable water use and resource recovery combined with our intelligent services to create profit out of waste and (waste)water. Nijhuis Industries has a broad experience and application know-how within a wide range of industries, designing the most appropriate solutions to reduce, reuse and recover (waste)water.

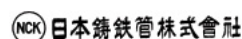


Stand 129

NIKKISO GIKEN CO., LTD.

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Website: www.nikkiso.co.jp/products/duv-led/
Email: hp.uv-led.contact@nikkiso.co.jp

As a pioneer of "Deep UV-LED" supplier, NIKKISO GIKEN will release a innovative sterilizer to the municipal water market soon. DUV-LED has many attractive features, such as environmental friendly, compact design, long lifetime, selectable and singleness wavelengths, low voltage, controllability, instant on switch etc.



Stand 226-C

NIPPON CHUTETSUKAN K.K.

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General Email: shiiya@nichu.co.jp

Production is selling the following goods to NCK.

- Ductile iron pipe (waterworks, sewage and industrial waterworks, etc.)
- Ductile iron fittings
- Ductile iron manhole cover (a water supply, sewage, gas, electricity and for communication, etc.)
- Polyethylene pipe for gas
- Additionally cast iron product full set

NIPPON KOEI

Stand 258-F

NIPPON KOEI CO., LTD.

Contact person: Gaku Honda
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General Email: a3885@n-koei.co.jp

Nippon Koei is Japan's No.1 International Engineering Consultants. We provide engineering solutions for our clients by planning, designing and supervising construction of infrastructure projects in the fields of water resources, transportation, urban and public sector development. For 70 years, we have worked on over 5,000 infrastructure projects in 160 countries.

Nishikawa

Stand 235-B

NISHIKAWA KEISOKU CO., LTD.

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Water Infrastructure Sales Division
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Phone number: +81-3-3299-1341
Web address: www.nskw.co.jp
General Email: webmaster@nskw.co.jp

Our company is an engineering company of "Measurement" "Control" "Analysis". In the water supply field, we are involved in various measurement and control systems such as measurement and control of flow rate, analysis of ingredients, adjustment of chemical quantity, etc. at the water purification plant.

**Stand 255-F****NJS CO., LTD.**

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General Email: webmaster@njs.co.jp

For more than 65 years, NJS has worked as a comprehensive water and environmental consultant developing technologies for the treatment, management and the use of water. We offer the most reliable skills and services in this age of water stress, and will continue to solving regional and global issues.

**Stand 91****NUKOTE COATING SYSTEMS**

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Email: info@nukoteglobal.com

Nukote Coating systems is a protective coating and liner manufacturer. We supply advance products used in the rehabilitation of liquid containment and pipeline distribution systems. Our single source solution includes; next generation surface conditioners and primers, ultra-fast spray applied products, and cutting edge robotic application equipment.

**Stand 23****OBOR ENVIRONMENTAL TECHNOLOGY AND INDUSTRY ALLIANCE**

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OBOR environmental technology and industry alliance is established in the Center of Excellence for Water and Environment (CEWE) of the Chinese Academy of Sciences (CAS). It is jointly launched with the high-level enterprises actively involved in the China environmental protection market. The Establishment is aimed at promoting mutual understanding between China's water business enterprises and the developing countries.

**Stand 85****OFFICE NATIONAL DE L'ELECTRICITE ET DE L'EAU POTABLE - ONEE**

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Rabat Maroc
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General Email: communication@onep.ma

L'Office National de l'Electricité et de l'Eau Potable (ONEE), is a public institution, created in 2012 by the merger of l'Office National de l'Electricité (ONE) created in 1963 and l'Office National de l'Eau Potable (ONEP) created in 1972. ONEE is fully involved in major structuring projects for Morocco's sustainable development, providing the country with infrastructure for the production, transport and distribution of water and electricity as well as the treatment of wastewater.

**Stand 10****ONTOTO**

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General Email: info@ontoto.com.au

Ontoto specialises in ultra-low power, turnkey data logging and telemetry systems. With design and manufacturing inhouse we are able to rapidly develop and supply innovative solutions utilising the very latest technologies. Easy to deploy, robust and cost effective. Ontoto is honored to be part of IWA WWCE 2018 in Tokyo in providing the world water industry leaders with quality and affordable state of the art monitoring and compliance tools.

**Stand 245-B****ORGANO CORPORATION**

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General Email: Contact Form

Organo is a general water treatment engineering company that sells water treatment systems and chemicals to a wide range of industries. Organo operates three businesses: the plant business sells water treatment systems, the solution business maintains and manages delivered systems and the functional product business sells standard products and chemicals.

**Stand 257-F****ORIGINAL ENGINEERING CONSULTANTS CO., LTD. (OEC)**

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OEC is one of the Japanese leading engineering consultancy firm. OEC has developed its business in the various fields including water supply, sewerage works, industrial wastewater, stream pollution and rain flood control. OEC has expanded its operation overseas as it undertook various projects in Asia and Pacific Islands since 1977.

**Stand 261-F****PACIFIC CONSULTANTS CO., LTD.**

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General Email: kokusai_eigyoku@ss.pacific.co.jp

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For further information,
please visit our website
www.phoslock.com.au
or email ntrail@phoslock.com.au



PACIFIC CONSULTANTS CO., LTD. (PCKK) is the leading engineering consulting firm in Japan, which has been providing wide range of consulting services in fields of infrastructure development since established in 1951. We have built up solid experiences with over 1,500 professional engineers in holistic approaches on studies, designs and planning, and construction supervision for infrastructure development.



Stand 109
PARKSON CORPORATION
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 Web address: www.parkson.com
 General Email: technology@parkson.com

Parkson is a leading supplier of equipment and solutions for industrial and municipal wastewater applications. Parkson designs, engineers and assembles products that provide customers with advanced screening, biological, filtration, and biosolids management solutions. We also have a highly-trained field service team capable of rebuilding/retrofitting equipment to meet the latest technological advancements.



Stand 268-D
PASCO CORPORATION
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Climate change poses serious challenges globally and sustainable response to water resources and water use is needed for humankind. PASCO's network in Japan and overseas provides information through advanced geospatial technology. We will contribute for the development of sound and sustainable water resources and water use utilizing the geospatial technology.



Stand 9
PENTAIR – X-FLOW
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 Web address: xflow.pentair.com
 General Email: xflow@pentair.com

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Our membrane brand X-Flow develops and supplies high-quality innovative membrane technology for the filtration, separation, concentration, and purification processes of water and wastewater. Our product portfolio contains numerous innovative technologies for filtration and purification processes. We are pioneers in membrane technology. xflow.pentair.com



Stand 40
PENTTOUGH CORPORATION
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 Phone number: (81)664581231
 Web address: www.penttough.com
 General Email: info@penttough.com

Established since 1991 and focus on the investigation of water level and water flow of sewers, diagnostic function, deterioration evaluation of the sewers, renting and selling of units focusing on service support for both the renting and sales of product that include open-water flowmeter, level meter, automatic water sampler and equipment rental all over Japan



Stand 11
PHOSLOCK WATER SOLUTIONS (LTD)
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Phoslock Water Solutions is an environmental company specialising in engineering solutions and water treatment products to remediate impaired lakes, rivers, canals and drinking water reservoirs. PWS is the patent holder and manufacturer of Phoslock, a modified bentonite clay product that permanently immobilizes phosphorus, thereby reducing the incidence of harmful algal blooms and has been used on more than 250 lakes worldwide.



Stand 219-C
POLITEC
 Japan Polyethylene Piping System & Integrated Technology Association For Water Supply
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 Japan
 Phone number: +81-03-5298-8855
 Web address: www.politec.gr.jp
 General Email: info@politec.gr.jp

Polyethylene pipes and fittings are made of highly qualified polyethylene (PE100). The pipes and fittings are integrally combined by EF (Electrofusion) jointing. Excellent Features of Polyethylene Piping System such as long-term hydrostatic performance, light weight, flexibility, corrosion resistance and earthquake resistance, have been highly evaluated.



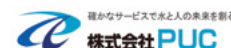
Stand 40
POLYTECHNIQUE MONTRÉAL
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Polytechnique Montréal, a flagship of engineering in Québec, is also one of Canada's leading engineering teaching and research institutions. In keeping with its mission since 1873, it has trained nearly 46,000 engineers, specialists and researchers.



Stand 5
POWERTECH WATER
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PowerTech Water provides innovative solutions to water treatment through an electrochemical technology platform to remove TDS, metals, and/or chlorine. PTW develops and commercializes technologies converging on water & energy. The PTW systems operate without the use of membranes, chemicals, or consumables providing a significant advantage over the competition.



Stand 283-A
PUC CO., LTD.
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 Phone number: +81-3-3343-4560
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 General Email: project2@puc.co.jp

PUC Co., Ltd., a member of the Tokyo Waterworks Group, has conducted water tariff computing system over 50 years. Moreover, we have supplied high quality customer service for 13 million Tokyo citizens by operating Call Centers and branch offices. Our top priority is to contribute to a local community with highly satisfactory services.



Stand 5
PURETERRA VENTURES
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 General Email: info@pureterra.com

PureTerra Ventures is a venture capital fund focused on investing in disruptive water technologies with a positive social impact. With offices in The Netherlands and Shanghai we combine strong entrepreneurial experience, a proven track record in driving sales and a vast network in the global water technology market to create a unique value proposition for investors and portfolio companies alike.

RAMBOLL

Stand 80

RAMBOLL

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Ramboll is a leading engineering, design and consultancy company with 13,000 experts worldwide. Our global water consultants provide the highest level of assistance to our clients on their most challenging water management issues. Main services areas are climate adaptation landscape architecture, water & wastewater treatment, water & wastewater networks and water resource management.



Stand 237-B

SANKI ENGINEERING CO., LTD.

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The Sanki Engineering Group contributes to society in various business domains related to social infrastructure, including the Facilities Construction Business, which consists air conditioning, electrical systems, information and communications, and office relocation; and the Environmental Systems Business, which consists water and sewage treatment facilities and waste incineration facilities.



Stand 67

SASAKURA ENGINEERING CO., LTD.

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Sasakura is firmly committed to its mission of "creating a better environment through water, heat and sound technology".



Stand 85

SENEGALAISE DES EAUX - SDE

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+221 77 633 11 71 (cellular)
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Since 23th of April 1996, Sénégalaise Des Eaux has been in charge of the drinking water service in urban areas. With 1200 collaborators, SDE is in charge of water drinking operation and maintenance for 66 urban areas and provides water for 6.5 million people daily in 66 urban areas in Senegal. the performance of the company has contributed significantly to the achievement of the millennium development goal (MDGs) by the state of Senegal.



Stand 214-C

SHIMIZU ALLOY MFG.CO.,LTD

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Phone number: +81-(0)749-23-3955
Web address: www.shimizugokin.co.jp
General Email: soumu@shimizugokin.co.jp

SGS is a manufacturer of waterworks valves established in 1947.

We've been developing the products that protect lifelines, utilizing fluid control technology that we have cultivated over many years, such as earthquake resistant / long-life valves, emergency shutoff valves and water purification equipment for Mini-scale water supply facilities.



Stand 94

SHINNAN CASTING FACTORY CO., LTD.

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General Email: trade@snpipe.com.tw

SHINNAN is the leader of Ductile Iron Pipes & Fittings in Chinese Taipei Water Industry. We have the most advanced technology and machines for supplying high quality Ductile Iron Pipes & Fittings. We supply Ductile Iron Pipes & Fittings from DN80mm up to DN2600mm to the world. SHINNAN has years of experience for overseas market, such as, Asian Countries, Mid-East, and we are capable to cooperate with clients to solve problems related to Ductile Iron Pipes and Fittings.



Stand 215-C

SHOWA RASENKAN SEISAKUSHO CO., LTD.

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General Email: exp@showarasen.co.jp

Since 1947, we at Showa Rasenkan Seisakusho (SRS) have met and proudly surpassed the demands of waterworks engineers with our industrial solutions. Our flagship in-house stainless-tube-forming technology has been extensively employed by the Tokyo Metropolitan Government, and now thanks to expanded operations, to similar great success by metropolises throughout Asia.



Stand 74

SIAAP

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75012 Paris
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Phone number: +33 1 44 75 44 75
Website: www.siaap.fr

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DAICEL CORPORATION

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**Stand 220-C****SK-KAWANISHI CO., LTD.**

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Japan
Phone number: +81 87 877 2800
Web address: www.sk-kawanishi.com
General Email: homepage@sk-kawanishi.co.jp

SK-KAWANISHI is the professional manufacturer of pipe couplings and fittings. Since 1952, we have established a comprehensive management system covering the whole process from design, development and manufacture to marketing, aspiring to open up the future of joint technology. SK-KAWANISHI has always been committed to producing innovative and original products.

**Stand 101****SK VALVES CO., LTD.**

Contact person: Andrew Kuo, Caleb Kuo
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Wanluan Township, Pingtung County 923
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Phone number: + 886 8 783 3834
Web address: www.skvalves.com.tw
General Email: international@skvalves.com.tw

SK VALVES was established in south of Chinese Taipei since 1966, and is a famous valve manufacturer and own more than 50 years' experience in field of water resource.

Moreover we respect customers' feedback and willing to work together in pursuit of a win-win solution that not only retain in prosperity business but also bring a friendly living environment.



Innovating construction

Stand 80**SMITH INNOVATION**

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Email: info@smithinnovation.dk

Smith Innovation is a consultancy working with research and development in the building and water/wastewater industries to help realize, transform and implement ideas into ready-for-market solutions. With a cross-disciplinary approach, we work with public authorities and private stakeholders to create innovation and foster dialogue across organizations and professions.

**Stand 85****SOCIETE DE DISTRIBUTION D'EAU DE LA CÔTE D'IVOIRE****COMPANY OF DISTRIBUTION OF WATER OF COTE D'IVOIRE**

Contact person: Basile Ebah, Managing Director
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Ivory Coast
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The COMPANY OF DISTRIBUTION OF WATER OF COTE D'IVOIRE (SODECI), created in 1959, is a water utility company of the ERANOVE group, with an agreement bound to the State of Côte d'Ivoire under affermage contracts for both pipe-water distribution and sewerage.

SPRINGER NATURE**Stand 9****SPRINGER NATURE**

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**Stand 80****STATE OF GREEN**

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Website: www.stateofgreen.com
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State of Green is a not-for-profit, public-private partnership from Denmark. We foster relations with international stakeholders interested in discussing their challenges and bring into play relevant Danish competencies and technologies that enable the green transition. As your one-point entry to more than 600 Danish businesses, governmental and academic institutions, experts, and researchers, State of Green connects you with all leading Danish players working to drive the global transition.

**Stand 103****SUEZ**

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France
Phone number: +33 1 58 81 58 01
Web address: www.suez.com
General Email: nicolas.levy@suez.com

With the full potential of digital technologies and innovative solutions, SUEZ secures water resources, delivering drinking water, wastewater treatment services and smart solutions to cities and industries. Our 90,000 employees worldwide are committed to reinvent resource management and accompany our clients towards the circular economy.

**Stand 238-B****SUIDO KIKO KAISHA, LTD.**

Contact person: Hiroshi Sasaki
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Japan
Phone number: +81-3-3426-2953
Web address: www.suiki.co.jp
General Email: www.suiki.co.jp/english/contact/

SUIDO KIKO is one of the leading EPC and O&M company in Japan since 1936, especially in the field of water and wastewater treatment. Our technologies are contributing to improved living environments not only in Japan, but also in many regions around the world.

**Stand 216-C****SUIKEN CO., LTD.**

Contact person: Yuki Kikuchi
Address: 206-7, Kitawaki, Hino-cho, Gamo-gun
Shiga 529-1663
Japan
Phone number: +81 (0)748 53 8083 fax+81 (0)748 53 8081
Web address: www.suiken.jp
General Email: otoiawase@suiken.jp

As a manufacturer of joints for lifelines, we have been developing products and looking for global markets since the establishment in 1970. We have been sending our creative technologies and products like SUPER FLEX flexible expansion joint and S-GATE under pressure valve insertion to the world.

**Stand 211-B****SUMITOMO CORPORATION**

Contact person: Katsushi Takiguchi
(Top of Infrastructure Business Development Team No.1 and No.2)
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Japan
Phone number: +81-3-5166-5922
Web address: www.sumitomocorp.co.jp/english/
General Email: katsushi.takiguchi@sumitomocorp.com

Sumitomo Corporation engages in multifaceted business activities include sales of a variety of products and services within Japan, import and export, trilateral trade, and domestic and international business investment. We provide water supply, wastewater treatment and seawater desalination services to more than 20 million people around the world.

**Stand 229-D****SUMITOMO ELECTRIC INDUSTRIES, LTD.**

Contact person: Koji Matsunaga
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Osaka
Japan
Phone number: +81-6-6220-4337
Web address: global-sei.com/
General Email: poreflon-sales@info.sei.co.jp

Using PTFE polytetrafluoroethylene, which has high chemical and heat resistance as well as higher durability, Sumitomo Electric has produced Poreflon™ as a MF/UF membrane module. Through "stable water treatment performance" and "high-quality customer service", we would propose water treatment systems that fully meet various customer needs.

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SUSTAINABLE WATER AND THE ENVIRONMENT

Join us at booth number 136
iwa2018.swing-w.com
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Stand 136

SWING CORPORATION

Contact person: Tommy Tomioka, Toru
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108-8470 Tokyo
Japan
Phone number: +81-3-6830-9075
Website: www.swing-w.com/eng/
Email: pr.news@swing-w.com

Swing Corporation is a leading water solutions provider with head office in Tokyo serving both municipal and industrial customers in domestic and overseas markets. We design, build, operate and maintain water and waste water treatment plants using water and environmental technologies developed and proven in Japan over many decades.



Stand 5

SYSTEA – SYSTEMS TECHNOLOGY ADVANCE S.P.A.

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Italy
Phone number: +39-0775-776058
Web address: www.systea.it
General Email: info@systea.it

From 1998 SYSTEA S.p.A. develops and markets worldwide analytical instruments measuring more than fifty chemical parameters in water, including acute toxicity, for routine laboratory, on-line, in-situ and portable field applications, providing a complete start-up, management and maintenance service to the Customer, through our international network of trained commercial partners.



Stand 138 / 224-C

TAISEI KIKO CO., LTD.

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Japan
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Website: www.taiseikiko.com/
Email: overseas@taiseikiko.com

Since its foundation in 1941, TAISEI KIKO has pioneered Japan's water, sewage, and gas pipeline maintenance sector, continuously engaged on the frontier or technological innovation in product development and maintenance. TAISEI KIKO is firmly committed to research and development for the development and maintenance of waterworks infrastructure.



Stand 259-F

TEC INTERNATIONAL CO., LTD.

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Japan
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Web address: www.teci.jp
General Email: info@teci.jp

TEC International Co., Ltd. (TECI) is a Japanese consulting firm specialized for the global water sector market. TECI maintains sufficient professional staff to provide integrated consulting services for water and environmental engineering works, including project formulation, planning, designing, cost estimation, financial planning, tendering assistance, construction supervision and capacity development.



Stand 113

TEKREADER PTY LIMITED

Contact person: Don Stolee
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Galston
Australia
Phone number: +61 2881 47533
Website: www.tekreader.com
Email: don.stolee@eglootech.com

The tekReader platform is a set of light-weight publishing tools that focus on simplicity and productivity for the creation and maintenance of technical documentation that includes codes, specification, standards and more. By combining rich content with the power of the web, tekReader provides an immersive eReader experience within a self-contained, discoverable and interactive online environment. If web browsers are found on every mobile device and desktop computer then so is tekReader.



Stand 5

TERRAHEIM CO., LTD., R.O. KOREA

Contact person: Dr. Haekyung Lee (CEO)
Hyon-joo Kim (Manager)
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Korea
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+82-10-5219-7401 (Haekyung Lee)
+82-10-6285-1261 (Hyon-joo Kim)
Web address: www.terraheim.co.kr
General Email: terraheim@terraheim.co.kr

Based upon its anti-microbial nano-composite technology, the biofilm-formation can be reduced dramatically in TerraSAN® water pipe. It ensures safety & biological stability of tap water and easy & economical maintenance of drinking water distribution network. This technology can be applied to any kind of fluid-transporting pipes to prevent biofouling.

**Stand 281-A****THE JAPAN INSTITUTE OF WASTEWATER ENGINEERING AND TECHNOLOGY**

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General Email: jiwet@jiwet.or.jp

The Japan Institute of Wastewater Engineering and Technology (JIWET) is a Public interest incorporated foundation that conducts survey, research, development and evaluation activities related to sewerage services, and disseminate the results of those activities

**Stand 225-C****THE VICTAULIC COMPANY OF JAPAN LIMITED**

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Phone number: 81-03-5114-8531
Web address: www.victaulic.co.jp
General Email: info@victaulic.co.jp

Victaulic Japan was established in 1929 as a manufacturer of piping joints for water purification plant, power plant, and factories. Especially "Closer joint" of expansion flexible joints is known as earthquake-resistance of pipe line. Victaulic Japan developed "VICsensor" for improving safety of buried pipeline in 2017.

**Stand 265-D****TOKYO GAS ENGINEERING SOLUTIONS CORPORATION - TGES**

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Phone number: +81-3-6452-8425
Web address: www.tokyogas-es.co.jp
General Email: ito-h@tokyogas-es.co.jp

Tokyo Gas Engineering Solutions (TGES) provides "one-stop solutions" for all the utility with dedication and responsibility to "design" and "create" the best solutions. Concerning the water supply and sewer facility management requirements, We are contributing to 100 of utility operators in Japan by utilizing the system solution "TUMSY".

**Stand 228-B****TOKYO KEIKI INC.**

Contact person: Takayuki Shirakawa
Address: 2-16-46, Minami-Kamata, Ohta-Ku Tokyo 144-8551 Japan
Phone number: +81-3-3737-8664
Web address: www.tokyo-keiki.co.jp/e/index.html
General Email: overseas-sales03@tokyo-keiki.co.jp

Tokyo Keiki is a first manufacture of ultrasonic flowmeter among the world since 1963. Through the longest history, our products is adapted to variety of water and waste water application including Non-contacting radar level gauge. In 2017, we have established calibration flow facility for JCSS (IEC 17025) from DN50-DN600 up to 2000m³/h rate.



TOKYO METROPOLITAN SEWERAGE SERVICE CORPORATION

Stand 283-A
TOKYO METROPOLITAN SEWERAGE SERVICE CORPORATION

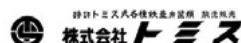
Contact person: Seiko HAYASHIDA
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Phone number: +81-3-3241-0869
Web address: www.tgs-sw.co.jp
General Email: Seiko-hayashida@tgs-sw.co.jp

TGS was established by applying the funds and technologies of the Tokyo Metropolitan Government (TMG) and private companies into practical use. We have been a group of professional sewerage engineers and are recognized as a reliable contractor for maintenance of sewerage facilities. TGS has become an indispensable partner of TMG.

**Stand 127****TOMCO2 SYSTEMS**

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Address: 3340 Rosebud Road Georgia 30052 Loganville United States of America
Phone number: +1-800-832-4262
Web address: www.TOMCOsystems.com
General Email: sales@TOMCOsystems.com

TOMCO2 Systems has been a global leader in carbon dioxide equipment for over 45 years. Our water technologies division specializes in pH control for many applications in water / wastewater both in municipal and industrial applications. We have designed and commissioned over 13,000 carbon dioxide storage systems and over 1700 pH control system throughout the world. Our patented technology produces carbonic acid in an environmental friendly solution which will replace the use of harmful mineral acids.

**Stand 270-D****TOMISU CO., LTD.**

Contact person: Tadashi Setoguchi
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Phone number: +81 3-3370-6104
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General Email: setoguchi@tomisu.com

Since our founding in 1937, Tomisu Co., Ltd. has manufactured water and sewage service related products to improve the everyday lives of people. Starting with fire hydrant manhole covers, we independently develop a range of products including iron air-valve covers and gate-valve caps, and supply them to cities, towns and villages all over Japan.

In this exhibition we will propose a form of underground installation management which utilizes IoT technology. Manhole Security and Safety Solution using of IoT technology with Hitachi Systems and e TRUST Manhole RFID Solution for facility check and information acquisition (with ASIA AIR SURVEY)



Sumo® from Dynamita is the newest and most versatile dynamic simulation package on the market. After the influent measurements and plant configuration are entered, Sumo knows what kind of effluent quality will result, even daily peaks or during storms, and the user can try many operational or control scenarios in a short time. Sumo can handle treatment plants of unlimited complexity, with various process units used in municipal and industrial treatment plants. Sumo is used worldwide in Europe, North America, Australia and Asia by design engineers, plant personnel, as well as in universities.

Key points:

- Open source process code
- Fast simulation speed
- Modern interface with user friendly features
- Affordable pricing, support included in license
- Advanced ChemP and bio-P model
- Sulphur modelling (odour, ORP, EPS, colloids)
- THP, anaerobic digestion and post aerobic digestion
- Precipitation and side stream processes (Anammox)
- Physico-chemical separation, conversion processes
- Up-to-date aeration and gas transfer model

**Stand 230-B****TORAY INDUSTRIES, INC.**

Contact person: (Please come into contact from web)

Address: 1-1, Nihonbashi-muromachi 2-chome, Chuo-ku

Tokyo 103-8666

Japan

Phone number: (Please come into contact from web)

Web address: www.toraywater.com/index.html

General Email: (Please come into contact from web)

Toray has continuously carried out development on advanced materials by integrating our core technologies: organic chemistry, polymer science, and biochemistry.

Utilizing reverse-osmosis membrane, hollow fiber membranes, and other high performance membrane technologies, Toray is expanding its business by moving into the area of seawater desalination, water purification and wastewater treatment.



Leading Innovation >>>

Stand 239-B**TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION**

Contact person: Eiichi Yokoyama

Address: 72-34, Horikawa-cho, Saiwai-ku Kawasaki 212-8585

Japan

Phone number: +81-44-331-0811

Web address: www.toshiba.co.jp/sis/en/environment/index.htm

Contact us: www.webcom.toshiba.co.jp/cs/environment/form_e.php

Toshiba has addressed the issues of water for over 40 years by supplying our systems and know-how of planning, construction and operation for the development of water infrastructure.

Toshiba will promise to contribute to the creation of sustainable water cycle by supplying our know-how and understanding diversity, culture and environment.

**Stand 17****TRENCHLESS INTERNATIONAL**

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Australia

Phone number: +61 3 9248 5100

Web address: www.trenchlessinternational.com

General Email: nlovering@gs-press.com.au

Trenchless International is the official publication of the International Society for Trenchless Technology (ISTT) making it a trusted and respected source and the only truly international magazine dedicated entirely to Trenchless Technology. It is made up of a suite of products, including print and digital versions of the magazine, an e-newsletter and a comprehensive news website.



TSS TOKYO WATER CO., LTD.

Stand 283-A**TSS TOKYO WATER CO., LTD.**

Contact person: Kazuya Naito

Address: 5F Shinjuku Green Tower Building, 6-14-1 Nishi-Shinjuku, Shinjuku-ku, Tokyo 160-0023

Japan

Phone number: +81-(0)3-5320-9350

Web address: www.tssk.jp/eng/

General Email: tssk-web@tssk.jp

TSS Tokyo Water Co., Ltd., a member of Tokyo Water Group, works alongside the Tokyo Metropolitan Government's Bureau of Waterworks in managing technological and engineering issues related to the water supply in the Tokyo area. TSS also employs its knowledge, technology and experience in the improvement of water supply systems around the world.

**Stand 254-B****TSUKISHIMA KIKAI CO., LTD.**

Contact person: Takeshi Arai

Environmental Business Management Dept.

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Tokyo, 104-0053

Japan

Phone number: +81-(0)3-5560-6530

Web address: www.tsk-g.co.jp

General Email: t_arai@tsk-g.co.jp

Engineering and construction of water purification plants and sewage treatment plants
Manufacture of dewatering equipment, drying machine, incinerator and others
Service of Operation & Maintenance

**Stand 40****UNIVERSITY OF BRITISH COLUMBIA - UBC**

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Vancouver

Canada

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General Email: fariborz.taghipour@ubc.ca

The University of British Columbia is a global centre for research and teaching, consistently ranked among the 40 best universities in the world. Since 1915, UBC's West Coast spirit has embraced innovation and challenged the status quo. Its entrepreneurial perspective encourages students, staff and faculty to challenge convention, lead discovery and explore new ways of learning. At UBC, bold thinking is given a place to develop into ideas that can change the world.

**Stand 77****VEOLIA**

Contact person: Mr Dominique GATEL

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93300 Aubervilliers

France

Phone number: +33 6 15 17 92 14

Web address: www.veolia.com

General Email: www.veolia.com

Veolia, the global leader in providing environmental services to communities and industries

In 2016, Veolia supplied 100 million people with drinking water and 61 million people with wastewater service, produced 54 million megawatt hours of energy and converted 30 million metric tons of waste into new materials and energy.

**Stand 17****WATER AND WASTEWATER ASIA**

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General Email: yanrong@pabloasia.com

Water and Wastewater Asia is an indispensable tool for trade professionals who are always on-the-go.

With a wide network to important and powerful leaders, our global reach will offer you the latest trends, developments and news in the industry with an Asian perspective.

**Stand 17****WATER SOLUTIONS**

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Phone number: +49 201 82002-49

Web address: www.water-solutions.info

General Email: watersolutions@di-verlag.de

Water Solutions is the leading technical and scientific journal for water management and waste water technologies, hydrogeology, water reuse and rainwater harvesting, storage and distribution of water, treatment of waste water.

**Stand 15****WATERSHARE**

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Head of Communications KWR

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Nieuwegein

the Netherlands

Phone number: 0031-621822812

Website: www.watershare.eu

Email: info@watershare.eu

Global expertise for local water challenges
Watershare's worldwide network of water research organisations and utilities is applying global expertise to master local water challenges. Member experts collaborate in developing knowledge and science-based tools. They then apply this expertise while tackling a wide variety of regional water issues. Watershare is showcasing projects and tools at IWA Tokyo to present concrete reference cases to end-users interested in benefiting from our global expertise.



KAWASAKI CITY

Stand 280-A**WATERWORKS BUREAU, CITY OF KAWASAKI**

Contact person: [International projects

Promotion Unit] Administrative Planning Section

Administrative Management Department

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Kawasaki City, 210-8577

JAPAN

Phone number: +81-44-200-3739

Web address: www.city.kawasaki.jp/800/

General Email: 80keikan@city.kawasaki.jp

Waterworks Bureau, City of Kawasaki is promoting international contribution based on two directions, which consists of international contribution through public-private partnership and international contribution through technical cooperation, to improve global issues of water environment.

**Stand 16****WHIRL-PAK / NASCO SAMPLING**

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 Website: www.whirl-pak.com
 Email: contact@whirl-pak.com

At Whirl-Pak, we are committed to making the world a safer place by providing better sampling bags that produce better integrity in the results.

For almost 60 years Whirl-Pak has been a trusted partner to the lab sampling and testing industry by providing innovative solutions for the critical requirements of our customers.

**Stand 12****WIZIT ENERGY**

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 Republic of Korea
 Phone number: +82 70 4169 8546
 Website: www.wizitenergy.com
 Email: overseas@wizitenergy.com

We are a company producing sensors and meters with connecting solutions. We participate IWA this year with our Water Pump Efficiency Solution which checks how well or how bad the water pump is running. Our solution recommends the most optimum, high efficient pump operating combination.

**Stand 80****WONDERFUL COPENHAGEN CONVENTION BUREAU**

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 Phone number: +45 2338 3071
 Email: brm@woco.dk

Copenhagen Convention Bureau offers professional services and advice to anyone planning a meeting, conference, incentive or event in Copenhagen. All our services are free of charge.

Whether you need help with finding the right meeting facilities, accommodation, transportation, social activities or so we offer all the support you need to ensure a successful congress or business event in Copenhagen.

**Stand 114****XYLEM INC.**

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 Web address: www.xylem.com
 General Email: -

Xylem is a leading global water technology company committed to developing innovative technology solutions to the world's water challenges. The Company's products and services move, treat, analyze, monitor and return water to the environment in public utility, industrial, residential and commercial building services settings. Xylem also provides a leading portfolio of smart metering, network technologies and advanced infrastructure analytics solutions for water, electric and gas utilities. For more information, please visit us at www.xylem.com.

**YOKOGAWA****Stand 73****YOKOGAWA ELECTRIC CORPORATION**

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 General Email: Kankyo-kikaku@cs.jp.yokogawa.com

Yokogawa has been involved with manufacturing products that provide solutions for manufacturing sites such as measurement, control, information system and device company all over the world. Using Yokogawa's unique solutions and experiences, we will contribute to the sustainable water management for our customers.

Awarded "Infrastructure Maintenance Award" by six Ministries of Government.



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The history of cosmo is that of technological renovation of the work under pressure. Cosmo is a pioneer of “branch work under pressure” and “inserting” in Japan. We have been making every effort to develop various techniques and technologies such as “the special branch work under pressure” that is a technique which a branch can be made without shutting water supply of the main pipe even under several troublesome conditions. Also, we were certified according to ISO9001 for the work under pressure first in Japan. Cosmo succeeded to make the world largest boring machine for work under pressure in the size of 2,500mm. We have the pride as a front runner holding the most advanced work under pressure technology and are working diligently to protect lifelines.



Ductile balltype flexible joint
SUPER BALL

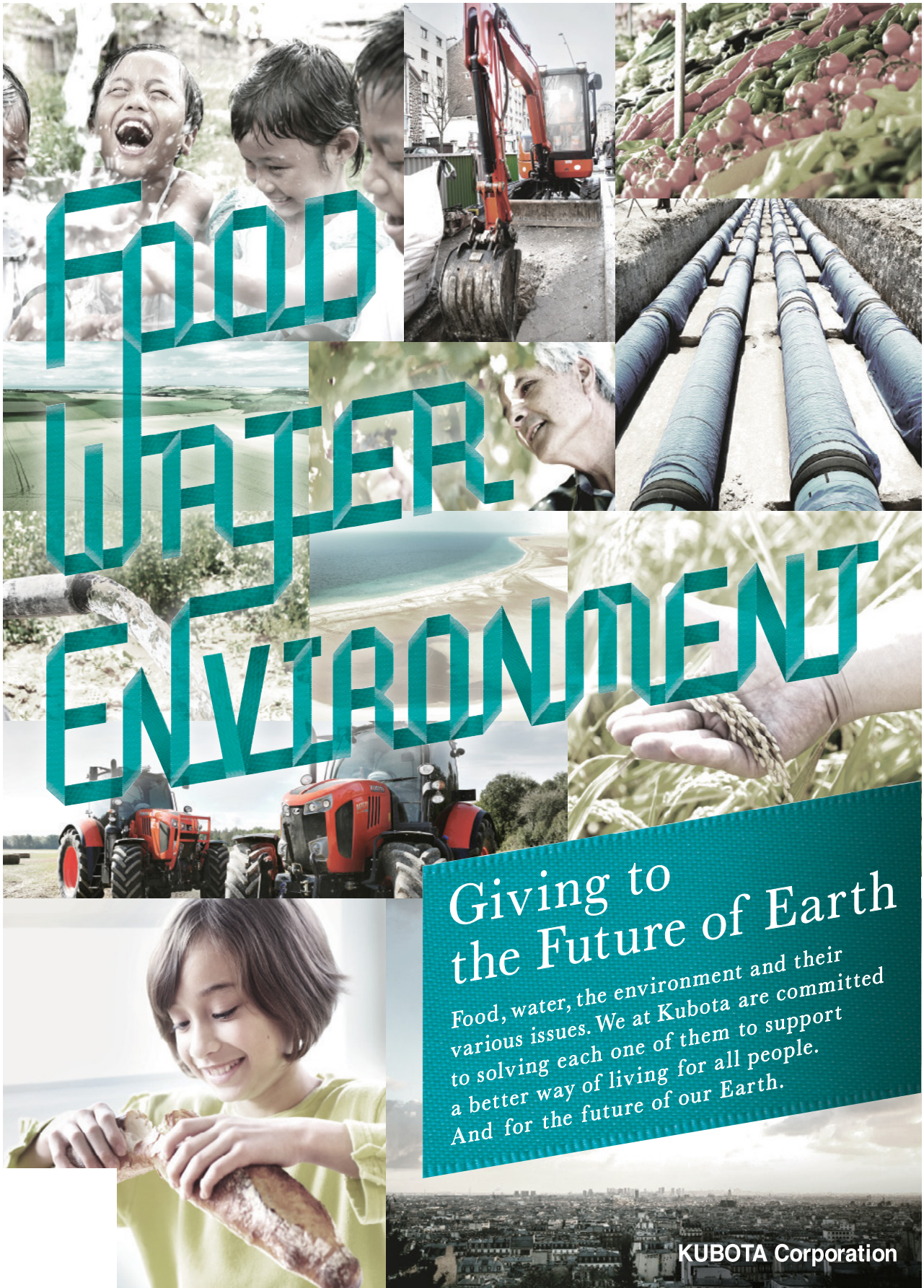
Valve inserting method under pressure
Plug Three Type



COSMO KOKI CO.,LTD

Head office 3-9-5 Nishi-shimbashi, Minato-ku, Tokyo (105-0003), JAPAN
TEL: (03) 3435-8806 FAX: (03) 3435-8825
<https://www.cosmo-koki.co.jp/>

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Giving to the Future of Earth

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KUBOTA Corporation