

IWA World Water Congress & Exhibition 2016



www.worldwatercongress.org

Congress Programme & Exhibition Catalogue

09 - 14 OCTOBER, 2016
BRISBANE, QUEENSLAND, AUSTRALIA



Principal Sponsor



Australian Government



Platinum Sponsors



Dedicated to a better Brisbane



LET'S FOCUS OUR EFFORTS ON EARTH'S MOST VALUABLE RESOURCE. LET'S SOLVE WATER.

Water is infinitely renewable but the amount of water on earth is fixed.

At Xylem, we help our customers implement **SUSTAINABLE** solutions to their water challenges. We design and manufacture the world's most advanced technologies to move water, treat water and test water in sustainable ways. Our 12,500-strong global team is dedicated to expanding access to clean, safe water today and renewing this valuable resource for future generations.



Welcome to Brisbane



Welcome to Brisbane, Queensland and Australia

We are delighted to welcome you to the IWA World Water Congress & Exhibition, being held for the first time in the vibrant and dynamic city of Brisbane, an Australian powerhouse of water related research, development and practice and the capital of the state of Queensland

During the coming week, water professionals, and those with a professional interest in water, from around the world will meet, greet and exchange new ideas about the latest innovations, best practices, leading science and emerging trends in the water sector and beyond. There will be opportunities, both formal and informal, to connect with other water professionals, build your networks and form partnerships to address the steadily growing challenges facing the water sector around the world.

Brisbane has built a worldwide reputation as a leader in science and technology, the perfect host city for a conference and exhibition that brings together the foremost experts, specialists and thought leaders from industry, government, utilities, regulators, scientists and research organizations, the entire community leading the debate and finding the solutions that will deliver the water wise world of the future.

During four days, the critical debates shaping our water future will take place in six Leadership Forums, eight Plenary Sessions, 38 Workshops, 86 Technical Sessions, 344 Presentations and over 500 Posters. This exciting program will help you to update your knowledge, and provides a unique opportunity for networking, and to share knowledge on the latest trends in best practice, innovative technologies, pioneering research and science.

The Congress constantly seeks to innovate and to build on the successes of previous years. A first this year is the Water Scarcity and Drought Summit. This will engage and challenge 200 leaders from the private and the public sector including ministers, business leaders, scientists and civil society on new ways of collaboration between countries,

industries and sectors to address water scarcity and drought.

In Brisbane, we have expanded the number of dedicated Leadership Forums. Bringing leaders of specific thematic or geographic areas together facilitates in-depth discussion of the major issues, explores cross-disciplinary collaboration and enables solution finding. Similarly, Keynote Speakers are thought leaders from within and beyond the water sector; they will spark debate and set the daily agenda.

For exposure to technology and to connect with the people with the solutions, the IWA World Water Exhibition is the place to be. A one-stop-shop showcasing over 200 world-leading companies and institutions, the Exhibition provides a unique opportunity to network and learn about innovative applications, integration of solutions and new business opportunities.

The IWA World Water Congress & Exhibition is primarily about bringing people together in an environment that is creative and productive. Our sponsors and partners, including the Brisbane organising committee, make this possible. We would like to thank them for their continued support, and their leadership and commitment to the water sector and its professionals.

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

Helmut Kroiss

President, International Water Association

Paul Greenfield

President, World Water Congress and Exhibition



© Paul Sicking

Brisbane, Queensland: a world-class water destination



Welcome to Brisbane, Queensland for the 2016 World Water Congress & Exhibition at the Brisbane Convention & Exhibition Centre.

The Palaszczuk Government is proud to support the 2016 World Water Congress & Exhibition through Tourism and Events Queensland.

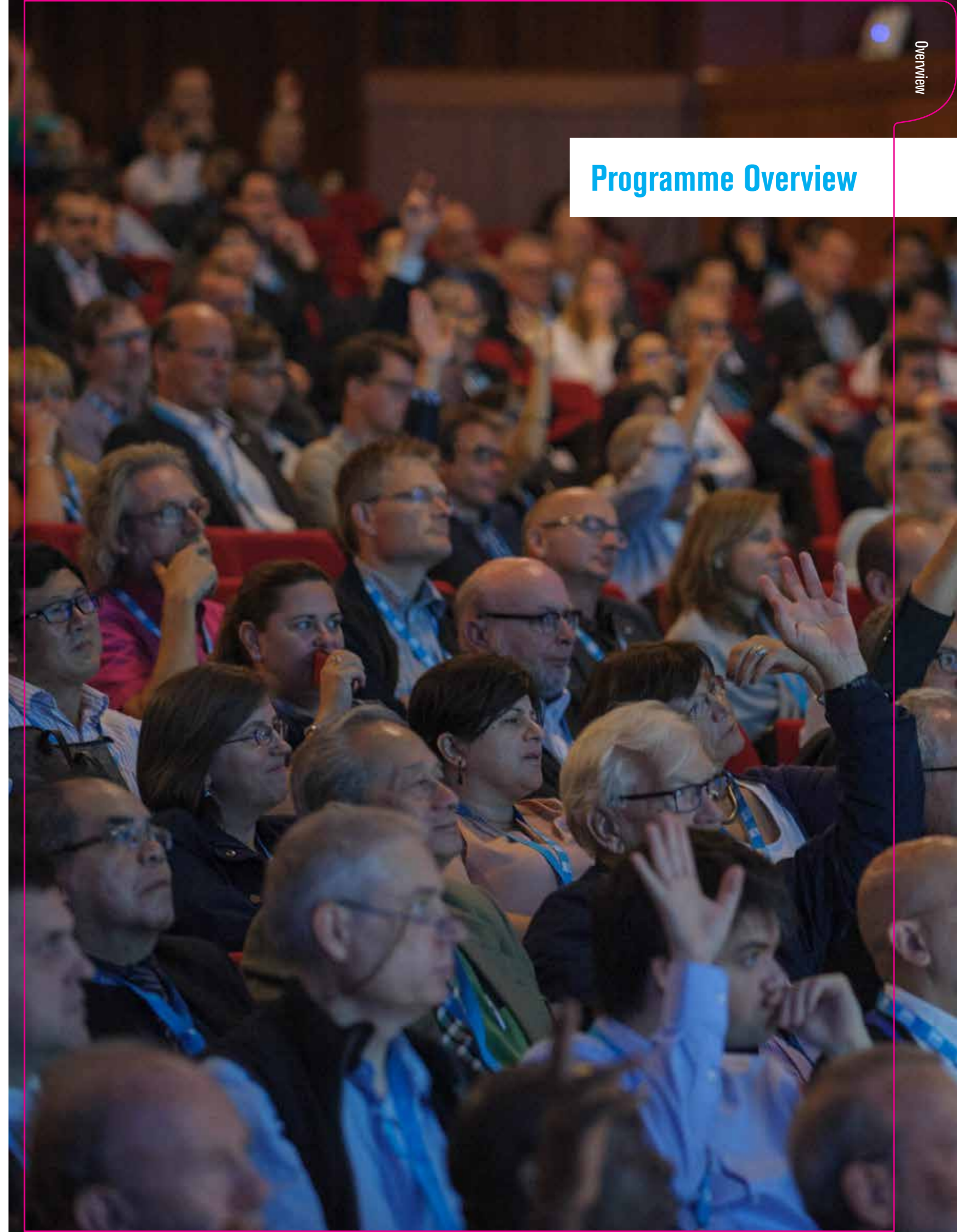
This conference will give delegates the opportunity to collaborate, share ideas, and engage with other industry professionals surrounded by some of the world's most beautiful scenery.

With beautiful South Bank across the street and some of the world's best beaches a short drive away, South East Queensland has so much to offer.

For those delegates visiting Brisbane, I hope you enjoy your time here and take the opportunity to stay on and explore all that Brisbane and Queensland have to offer.

The Honourable Kate Jones MP

Queensland Minister for Tourism and Major Events



Programme Overview

Programme Overview

Pre-congress trainings, workshops and learning sessions

博天环境
Poten Enviro

构筑天人合一的美好环境
Innovative Solutions for Better Environment

Poten Environment Group is a pioneer and leading provider in water and environmental protection services in China and all around the world.

Poten designs, builds and operates state of the art innovative water and wastewater treatment infrastructures, soil remediation and restoration, as well as developing cutting edge water and environment monitoring and testing systems.

Poten commits to create innovative solutions for a better environment.

HQ: Beijing · China E-mail: overseas@poten.cn Website: www.poten.cn

Saturday 8					
	Room M5 / M6				
08:30 - 10:30 session 1	TRAINING: Modelling Activated Sludge Plants				
10:30 - 10:45	Coffee Break				
10:45 - 12:30 session 2	TRAINING: Modelling Activated Sludge Plants				
12:30 - 13:30	Lunch				
13:30 - 15:30 session 3	TRAINING: Modelling Activated Sludge Plants				
15:30 - 15:45	Coffee Break				
15:45 - 17:00 session 4	TRAINING: Modelling Activated Sludge Plants				
Sunday 9					
	Room M5 / M6	Room M7 / M8	Room P3	Room P5	Room P2
08:30 - 10:30 session 1	TRAINING: Modelling Activated Sludge Plants	TRAINING: Assessing Climate & Energy Performance of Water and Wastewater Utilities	TRAINING: NRW Assessment and Management in Low and Middle Income Countries	TRAINING: Crisis Management at Water Utilities: Concept, Preparedness and Latest Technology Development in Decision Support System using Artificial Intelligence	WORKSHOP: Performance-Based Contracts - PBCs for Improving Utilities Efficiency
10:30 - 10:45	Coffee Break				
10:45 - 12:30 session 2	TRAINING: Modelling Activated Sludge Plants	TRAINING: Assessing Climate & Energy Performance of Water and Wastewater Utilities	TRAINING: NRW Assessment and Management in Low and Middle Income Countries	TRAINING: Crisis Management at Water Utilities: Concept, Preparedness and Latest Technology Development in Decision Support System using Artificial Intelligence	WORKSHOP: Performance-Based Contracts - PBCs for Improving Utilities Efficiency
12:30 - 13:30	Lunch				
13:30 - 15:30 session 3	TRAINING: Modelling Activated Sludge Plants	TRAINING: Assessing Climate & Energy Performance of Water and Wastewater Utilities	TRAINING: NRW Assessment and Management in Low and Middle Income Countries	TRAINING: Crisis Management at Water Utilities: Concept, Preparedness and Latest Technology Development in Decision Support System using Artificial Intelligence	
16:00 - 18:00	OPENING CEREMONY				
18:00 - 19:30	WELCOME RECEPTION				
					Room M1 / M2
					12:30 - 14:30
					LEARNING: Global Water Shapers: a Networking Event to Start the Congress
					14:30 - 15:30
					LEARNING: Make the Most Out of the Congress: First Time Attendees

Programme Overview

Track 1: Cities, Utilities & Industries Leading Change
Track 2: Water & Wastewater Processes & Treatments
Track 3: Re-charting the Course of Water Resources
Track 4: Enabling Progress
Track 5: Water Quality, Safety & Human Health

Monday 10								
	Sky Room	Room S1	Room GH Q2	Room M1	Room M2	Room M3	Room M4	
09:00 - 09:45	KEYNOTE PLENARY Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals <i>John Thwaites</i>						Great Hall Q2	
09:45 - 10:30	Coffee Break							
10:30 - 12:00 session 1	WATER SCARCITY AND DROUGHT SUMMIT	WATER REGULATORS FORUM	TECHNICAL / PROCESSES & TREATMENTS: Biosolids	TECHNICAL / PROCESSES & TREATMENTS: Technology for Energy Efficiency	TECHNICAL / PROCESSES & TREATMENTS: Drinking Water I: Nanofiltration	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Climate Change: Adaptation and Resilience	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Transition to Sustainable Cities of the Future I	
12:00 - 13:30	Lunch							
13:30 - 15:00 session 2	WATER SCARCITY AND DROUGHT SUMMIT	WATER REGULATORS FORUM	TECHNICAL / PROCESSES & TREATMENTS: Activated Sludge Processes	TECHNICAL / PROCESSES & TREATMENTS: Energy Efficient Integrated Plant Design	TECHNICAL / PROCESSES & TREATMENTS: Drinking Water II: Physical Processes	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Targeting and Measuring Resilience in Water Service	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Transition to Sustainable Cities of the Future II	
15:00 - 15:30	Coffee Break							
15:30 - 17:00 session 3	WATER SCARCITY AND DROUGHT SUMMIT	WATER REGULATORS FORUM	TECHNICAL / PROCESSES & TREATMENTS: Membrane Bioreactors	WORKSHOP / PROCESSES & TREATMENTS: Carbon Recovery from Water	TECHNICAL / PROCESSES & TREATMENTS: Drinking Water III: Physical Biosolid Treatment	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Drought Resilient Water Management	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water Sensitive Urban Infrastructures	
17:00 - 17:15	Break							
17:15 - 18:00	KEYNOTE PLENARY Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene <i>Barbara Frost</i>						Great Hall Q2	
evening	POSTER RECEPTION							

Tuesday 11								
	Sky Room	Room S1	Room GH Q2	Room M1	Room M2	Room M3	Room M4	
09:00 - 09:45	KEYNOTE PLENARY ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation <i>Yasmin Siddiqi</i>						Great Hall Q2	
09:45 - 10:30	Coffee Break							
10:30 - 12:00 session 1	UTILITY LEADERS FORUM	CITY LEADERS FORUM	TECHNICAL / PROCESSES & TREATMENTS: Biological Treatment I: Mainstream Amx	TECHNICAL / PROCESSES & TREATMENTS: Alternative WWT Concepts	TECHNICAL / PROCESSES & TREATMENTS: Disinfection	WORKSHOP / RE-CHARTING THE COURSE OF WATER RESOURCES: Water Reuse for Sustainable Agriculture, Regulation and Technology	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Utilities and Economics	
12:00 - 13:30	Lunch							
13:30 - 15:00 session 2	UTILITY LEADERS FORUM	CITY LEADERS FORUM	TECHNICAL / PROCESSES & TREATMENTS: Biological Treatment II: Novel Biological Treatment Concepts	TECHNICAL / PROCESSES & TREATMENTS: Wastewater Reclamation	TECHNICAL / PROCESSES & TREATMENTS: Advanced Oxidation Processes	WORKSHOP / WATER QUALITY, SAFETY & HUMAN HEALTH: Conflicts and Collaborations, a Dialogue on Water, Fisheries and Biodiversity	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Climate Change: Adaptation and Resilience	
15:00 - 15:30	Coffee Break							
15:30 - 17:00 session 3	EMERGING WATER LEADERS FORUM	CITY LEADERS FORUM	TECHNICAL / PROCESSES & TREATMENTS: Biological Treatment III: Biotreatment of Textile/Chemical WW	TECHNICAL / PROCESSES & TREATMENTS: Water Reuse	TECHNICAL / PROCESSES & TREATMENTS: Photo-catalytic Advanced Oxidation	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Asset Management Leading Practices and Issues	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Water, Human Rights and the Affordability Conundrum	
17:00 - 17:15	Break							
17:15 - 18:00	OXFORD DEBATE Re-use of Wastewater as a Drinking Water Source: Technically Feasible but Socially Unacceptable?						Great Hall Q2	
evening	BRISBANE NIGHT Enjoy an Evening of Art, Food and Networking Set in Brisbane's Queensland Gallery of Modern Art Precinct							

Room M9	Room M0	Room P1	Room P2	Room P3	Room P4	Room P5	Career Development Hub
KEYNOTE PLENARY Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals <i>John Thwaites</i>							
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Waste Management in Agroindustries	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Resource Efficiency	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Drinking Water Quality and Health	WORKSHOP / ENABLING PROGRESS: Putting the Community at the Centre of Decision Making	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Climate Change, Floods and Droughts on Watershed Scale I	TECHNICAL / ENABLING PROGRESS: Instrumentation, Control and Automation	SESSION / Emerging Technologies & Innovation	LEARNING / Building Leadership in the Water Sector
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Advances in the Supply Chain, Environmental and Industrial Biotechnology I	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Waste Management in Chemicals and Pharmaceuticals I	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Drinking Water & Chemical Risk Assessment	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Building Climate Resilience in Coastal Areas	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Climate Change, Floods and Droughts on Watershed Scale II	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Water and Energy Nexus	TECHNICAL / ENABLING PROGRESS: Data and Information Technology	LEARNING / The Curious Power of Story: How to Win Friends, Persuade Heroes, and Influence Outcomes With Narrative
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Advances in the Supply Chain, Environmental and Industrial Biotechnology II	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Waste Management in Chemicals and Pharmaceuticals II	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Diffuse Pollution and Cyanobacterial Blooms	WORKSHOP / WATER QUALITY, SAFETY & HUMAN HEALTH: Quantitative Microbiological Risk Assessment for Safe Water (Re)use	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Water Quality Restoration	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Biogas, Co-digestion and Co-generation	TECHNICAL / ENABLING PROGRESS: Modelling and Systems Analysis	
KEYNOTE PLENARY Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene <i>Barbara Frost</i>							
POSTER RECEPTION							
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Waste Management in Energy and Petrochemicals	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Urban Water Infrastructure Rehabilitation	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Micropollutants	TECHNICAL / ENABLING PROGRESS: Regulation-Finance	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Integrated Water Resources Management - Governance Aspects	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Resource Recovery I	SESSION / Emerging Technologies & Innovation	LEARNING / To Publish You Must Review: A How to Discussion
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Reticulations and Distribution Systems	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Waste Management in Food Industries	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Micropollutant Treatment Technologies I	TECHNICAL / ENABLING PROGRESS: Water-Finance	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Integrated Water Resources Management - Case Studies	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Resource Recovery II	LECTURE / CITIES, UTILITIES & INDUSTRIES: Rainwater Harvesting	LEARNING / The Art of Scientific Publishing for Scholars
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Utilities and Benchmarking	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Unlocking Financial Resources to Decarbonize the Water Sector	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Micropollutant Treatment Technologies II	WORKSHOP / RE-CHARTING THE COURSE OF WATER RESOURCES: Reverse Osmosis in Direct Potable Reuse	TECHNICAL / ENABLING PROGRESS: Regulation-Governance / Sustainability	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Rainwater Harvesting		
OXFORD DEBATE Re-use of Wastewater as a Drinking Water Source: Technically Feasible but Socially Unacceptable?							
BRISBANE NIGHT Enjoy an Evening of Art, Food and Networking Set in Brisbane's Queensland Gallery of Modern Art Precinct							

Programme Overview

Track 1: Cities, Utilities & Industries Leading Change
Track 2: Water & Wastewater Processes & Treatments
Track 3: Re-charting the Course of Water Resources
Track 4: Enabling Progress
Track 5: Water Quality, Safety & Human Health

Wednesday 12							
	Sky Room	Room S1	Room GH Q2	Room M1	Room M2	Room M3	Room M4
09:00 - 09:45	KEYNOTE PLENARY PANEL Solutions to Shape Our Water Future: a Voice for Our Waterways <i>Eva Abal</i>						Great Hall Q2
09:45 - 10:30	Coffee Break						
10:30 - 12:00 session 1	BASIN LEADERS FORUM	UTILITIES OF THE FUTURE FORUM	TECHNICAL / PROCESSES & TREATMENTS: Biofilm Processes	TECHNICAL / PROCESSES & TREATMENTS: Metagenomics of Water Systems	TECHNICAL / PROCESSES & TREATMENTS: Adsorption	WORKSHOP / WATER QUALITY, SAFETY & HUMAN HEALTH: WHO Sanitation Safety Planning, from Concept to Implementation	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Asset Management I
12:00 - 13:30	Lunch						
13:30 - 15:00 session 2	BASIN LEADERS FORUM		TECHNICAL / PROCESSES & TREATMENTS: GHG Emissions from WWTP	WORKSHOP / PROCESSES & TREATMENTS: Applying Molecular Tools in the Real World	TECHNICAL / PROCESSES & TREATMENTS: Ion Exchange	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Water's Strategic Role in the Resources Industry	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Asset Management II
15:00 - 15:30	Coffee Break						
15:30 - 17:00 session 3	JOINT REGULATORS, BASINS, UTILITIES AND CITIES FORUM	WATER CAREER OPPORTUNITIES AND DEVELOPMENT	TECHNICAL / PROCESSES & TREATMENTS: Anaerobic Processes	TECHNICAL / PROCESSES & TREATMENTS: Nanotechnology/ Nanomaterial Applications	TECHNICAL / PROCESSES & TREATMENTS: Membrane Processes	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: The Purpose of Benchmarking: Operational Improvement or Regulatory Intervention?	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Customer Management and Communication
17:00 - 17:15	Break						
17:15 - 18:00	PLENARY DEBATE Participative Societies Creating New Challenges for the Water Sector <i>Ben Schouten</i>						Great Hall Q2
evening	PROJECT INNOVATION AWARDS & GLOBAL AWARDS CEREMONY						

Thursday 13							
	Sky Room	Room S1	Room GH Q2	Room M1	Room M2	Room M3	Room M4
09:00 - 09:45	KEYNOTE PLENARY Can the Water Microbiome Save the Biohealth of the Planet? <i>Joan Rose</i>						Great Hall Q2
09:45 - 10:30	Coffee Break						
10:30 - 12:00 session 1	SCIENCE & TECHNOLOGY LEADERS FORUM	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Pathogen Occurrence Sources at the Watershed Scale I	TECHNICAL / PROCESSES & TREATMENTS: Modelling Wastewater Processes	TECHNICAL / PROCESSES & TREATMENTS: Water-Energy-Carbon Connections in The Urban Water Environment	TECHNICAL / PROCESSES & TREATMENTS: Seawater Desalination	WORKSHOP / PROCESSES & TREATMENTS: Is The Future Decentralised?	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Bringing Liveable Cities to Life I
12:00 - 13:30	Lunch						
13:30 - 15:00 session 2	SCIENCE & TECHNOLOGY LEADERS FORUM	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Pathogen Occurrence Sources at the Watershed Scale II	TECHNICAL / PROCESSES & TREATMENTS: Modelling Drinking Water System	WORKSHOP / PROCESSES & TREATMENTS: Intermittent Water Supply: The Challenge of Transitioning to 24/7	TECHNICAL / PROCESSES & TREATMENTS: Novel Desalination Technologies	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Utilities sharing knowledge on sustainable urban water management	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Bringing Liveable Cities to Life II
15:00 - 15:30	Coffee Break						
15:30 - 17:00	CLOSING CEREMONY Fellows Panel / YWP Panel						Great Hall Q2
evening	GALA EVENING A Truly Fantastic Evening is in Store at the IWA World Water Congress & Exhibition Gala Evening						

Thursday 13							
Room M9	Room M0	Room P1	Room P2	Room P3	Room P4	Room P5	Career Development Hub
KEYNOTE PLENARY PANEL Simplifying the Complexities of Water Resources Management <i>Eva Abal</i>							
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Industrial Innovation - Pollution Control	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Urban Drainage and Sewerage	TECHNICAL / ENABLING PROGRESS: Regulation-Future Planning	WORKSHOP / ENABLING PROGRESS: Smart Plants, Smart Network: Water Operations Go Digital	WORKSHOP / RE-CHARTING THE COURSE OF WATER RESOURCES: The Future of Direct Potable Water Reuse	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Groundwater Management I	SESSION / Emerging Technologies & Innovation	LEARNING / Building Leadership in the Water Sector
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water Management and Urban Planning I	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Industrial Innovation - Recovery and Reuse	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: The Workforce of Tomorrow, a Global Responsibility	WORKSHOP / ENABLING PROGRESS: Communications in a Crisis Situation	WORKSHOP / WATER QUALITY, SAFETY & HUMAN HEALTH: Water Safety Plans, a Lifeline for Climate Change and Extreme Events	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Groundwater Management II - ASR Applications	WORKSHOP / RE-CHARTING THE COURSE OF WATER RESOURCES: Powering the Wastewater Renaissance: the Path to Cutting Emissions and Saving Billions in Wastewater Sector	LEARNING / How to Bring your idea to the Market With Using the Lean Startup and Rapid Prototyping
TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water Management and Urban Planning II	TECHNICAL / CITIES, UTILITIES & INDUSTRIES: Water and Industrial Innovation - Efficiency Improvement	TECHNICAL / ENABLING PROGRESS: Customer Experience	WORKSHOP / ENABLING PROGRESS: Digital Interactions for the Customer Centric Utility	TECHNICAL / RE-CHARTING THE COURSE OF WATER RESOURCES: Soil Aquifer Treatment in Waste Water Reclamation	WORKSHOP / PROCESSES & TREATMENTS: Water in the Driest Continent - New Sources when Climate is Changing	LECTURE / PROCESSES & TREATMENTS: Granular Systems (Anaerobic and Aerobic)	LEARNING / Sustainable Delta Game – Adaptation Pathways
PLENARY DEBATE Participative Societies Creating New Challenges for the Water Sector <i>Ben Schouten</i>							
PROJECT INNOVATION AWARDS & GLOBAL AWARDS CEREMONY							
KEYNOTE PLENARY Can the Water Microbiome Save the Biohealth of the Planet? <i>Joan Rose</i>							
WORKSHOP / WATER QUALITY, SAFETY & HUMAN HEALTH: Meeting the Multiple Requirements for Disinfection	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Natural Disasters and Emergency Preparedness	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Assessment, Impacts and Controls of Microbial Pathogens in Wastewater Treatment Systems and Reuse Schemes I	WORKSHOP / ENABLING PROGRESS: Mind the Gap: Building a Prepared, Diverse Workforce	WORKSHOP / RE-CHARTING THE COURSE OF WATER RESOURCES: Sustainable Water Solutions	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Not Waiting for a Crisis: Drawing Lessons from Effective Behaviour Change Communication in Practice	LECTURE / WATER QUALITY, SAFETY & HUMAN HEALTH: Abatement Options for Mixtures of Emerging Contaminants	
WORKSHOP / WATER QUALITY, SAFETY & HUMAN HEALTH: Low Impact Strategies to Manage Diffuse Pollution and Improve Water Quality	WORKSHOP / CITIES, UTILITIES & INDUSTRIES: Appropriate Technologies for Disasters and Humanitarian Crises	TECHNICAL / WATER QUALITY, SAFETY & HUMAN HEALTH: Assessment, Impacts and Controls of Microbial Pathogens in Wastewater Treatment Systems and Reuse Schemes II	WORKSHOP / ENABLING PROGRESS: Pricing Policies and Human Rights in a Water Scarce World	WORKSHOP / WATER QUALITY, SAFETY & HUMAN HEALTH: Protection of Wetland, Eco-systems Services Form Water Quality Risks	WORKSHOP / ENABLING PROGRESS: Reducing Non-Revenue Water and Energy Costs for Utilities	WORKSHOP / PROCESSES & TREATMENTS: Addressing Complexity in Water through Design Thinking	LEARNING / How to Engage Stakeholders in the Water Sector
CLOSING CEREMONY Fellows Panel / YWP Panel							
GALA EVENING A Truly Fantastic Evening is in Store at the IWA World Water Congress & Exhibition Gala Evening							

Programme Overview

Business Forums

Monday 10	Business Forum Room 1	Business Forum Room 2
10:30 - 11:15	Xylem	Salt Water
11:15 - 12:00	Suez	SODECI
12:45 - 13:30	Suez	Africa Pavilion
13:30 - 14:15	Poten Environment Group	Japan Pavilion
14:15 - 15:00	Austrade	University of Technology Sydney
15:30 - 16:15	Brisbane City Council	Netherlands-Australia Coalition on Climate Extremes
16:15 - 17:00		
Tuesday 11		
10:30 - 11:15	Pure Technologies	Xylem
11:15 - 12:00	The University of Queensland	LG Sonic
12:45 - 13:30	WaterGroup	Hitachi Zosen Corporation
13:30 - 14:15	Beijing Scinor Water Technology Co., Ltd.	Japan Pavilion
14:15 - 15:00	Steel Mains	Cardno
15:30 - 16:15	Murray-Darling Basin Authority	Danish Water Technology Group
16:15 - 17:00	Calix Limited	
Wednesday 12		
10:30 - 11:15	Queensland Government	Pacific Environment
11:15 - 12:00	Monash Sustainability Institute	Nairobi City Water & Sewerage Company
12:45 - 13:30		RMIT University
13:30 - 14:15	Beijing Scinor Water Technology Co., Ltd.	Griffith University
14:15 - 15:00	Data 61 / CSIRO	LG Sonic
15:30 - 16:15	Australian Water Partnership	Salt Water
16:15 - 17:00	Maric Flow Control	Enagic Kangen Water Technology Africa Ltd
Thursday 13		
10:30 - 11:15	CSIRO and Bureau of Meteorology	Scalene Energy Water
11:15 - 12:00	Suez	Seqwater
12:45 - 13:30	Queensland Government	Sumitomo Electric Industries
13:30 - 14:15	Suez	Japan Pavilion
14:15 - 15:00	Suez	Queensland Government

Information

Practical & Useful

Useful Information

ACCOMMODATION QUERIES

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

ATM

There are two ATMs located on the main exhibition concourse on the Merivale Street side of BCEC and one located next to Olio Café & Bar on the Grey Street Ground Level. Additional ATMs are available in the nearby South Bank precinct.

CATERING AND REFRESHMENTS

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

EXTRA TICKETS

At the registration desk you can book any extra tickets for social events.

MEDICAL ASSISTANCE

24 hour emergency assistance is available at the BCEC. For medical assistance please go to the registration desk.

GETTING AROUND BRISBANE

In your conference bag you can find a flyer with information on how to get around Brisbane.

SIGHTSEEING TOURS

The Ozaccom+ team at the registration desk will be able to assist you with booking sightseeing tours.

TAXI

A dedicated taxi rank is located at the main entrance of the BCEC on the corner of Merivale and Glenelg Streets. There are also taxi's available in other locations in the South Bank Precinct.

WIFI ACCESS

Free wifi will be available throughout the BCEC. To access the wifi you will need a password, which will be advertised around the Convention Centre.

REGISTRATION DESK

The registration desk will be open from:
 14:30 - 17:00 / Saturday 08 October
 08:00 - 17:00 / Sunday 09 October
 08:30 - 17:00 / Monday 10 October
 08:30 - 17:00 / Tuesday 11 October
 08:30 - 17:00 / Wednesday 12 October
 08:30 - 15:00 / Thursday 13 October

Practical information

CONGRESS APP



Want the IWA World Water Congress & Exhibition at your fingertips? Get the official mobile app. Connect with other delegates using the built-in networking tool; navigate around using the interactive floor plan; and share your thoughts and insights using the social media widgets.



DIGITAL PROCEEDINGS

Want to read all the details of the content being presented during the Congress? Visit the Digital Proceedings:

Password: **WWC2016**



CONTACTS

IWA Global Operations

NewBabylon – DenHaag

Anna van Buerenplein 48, 11th floor
 2595 DA Den Haag

The Netherlands

phone +31 70 315 07 88

email water@IWAhq.org

Technical Programme

João Grilo / Chrysa Triantafyllidou

International Water Association

phone +31 6 29 02 74 59

email joao.grilo@iwahq.org /

chrysa.triantafyllidou@iwahq.org

Press and media

Paul Bell

International Water Association

phone +31 6 46 60 77 71

email paul.bell@iwahq.org

Exhibition

Roy Agterbos

Match+

IWA Exhibition Management

phone + 31 70 382 00 28

email info@iwa-exhibitions.com

Congress Director

Keith Robertson

International Water Association

phone + 31 70 315 07 81

email keith.robertson@iwahq.org

SOCIAL MEDIA

Planning to use social media while at the conference? **Join the conversation:**

[#iwa2016brisbane](https://twitter.com/iwa2016brisbane)

www.facebook.com/internationalwaterassociation

www.linkedin.com/company/international-water-association

DISCLAIMER

The information contained in this programme guide is believed to be correct at time of publication. The organisers reserve the right to alter or remove from the programme as circumstances dictate.

The organisers take no responsibility for any errors, omissions or changes.

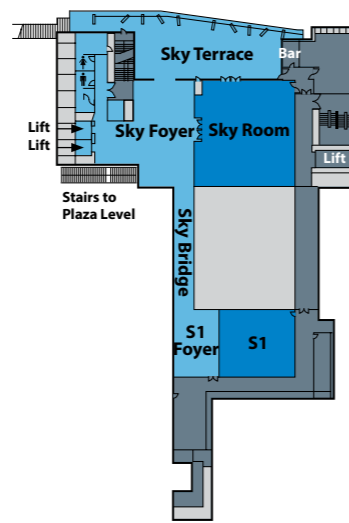
The organisers assume no responsibility for opinions or facts expressed by contributors to the programme. Any late changes to the programme will be made available on the congress mobile app and the congress website.

PHOTOGRAPHY DISCLAIMER

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

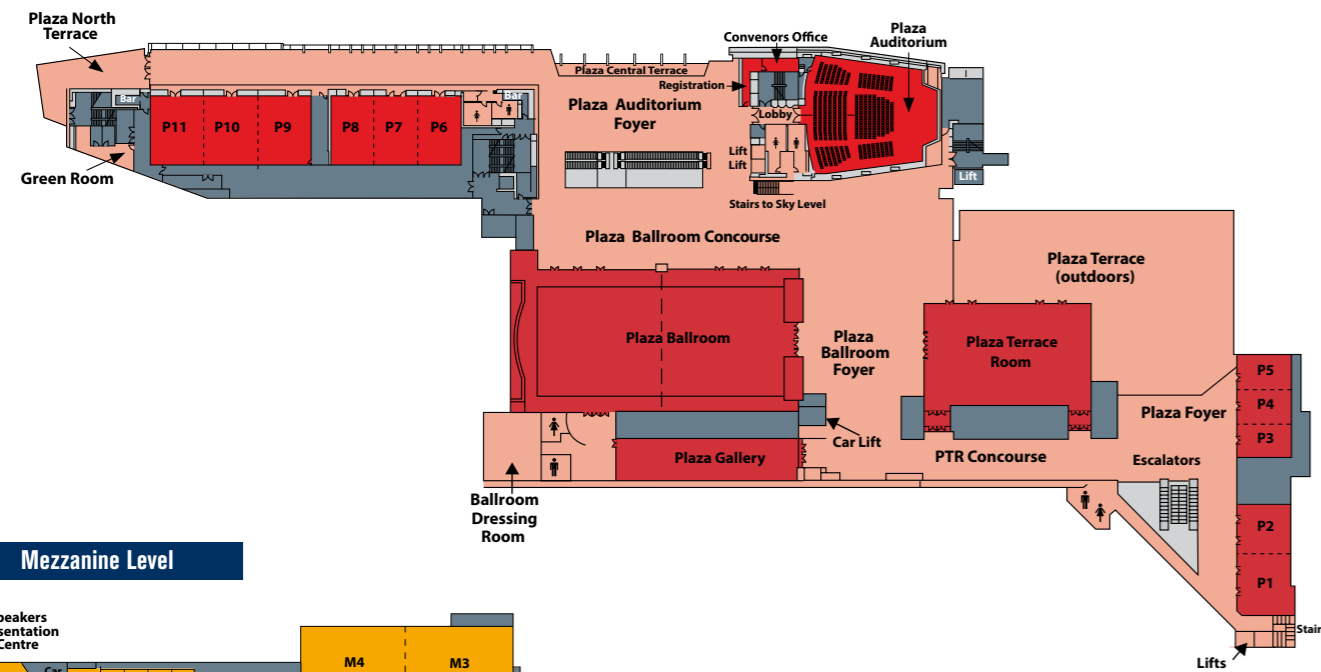
Floor Plan

to the congress

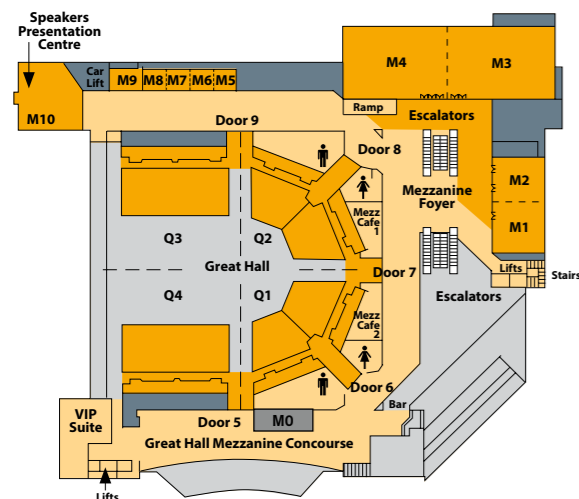


Sky Level

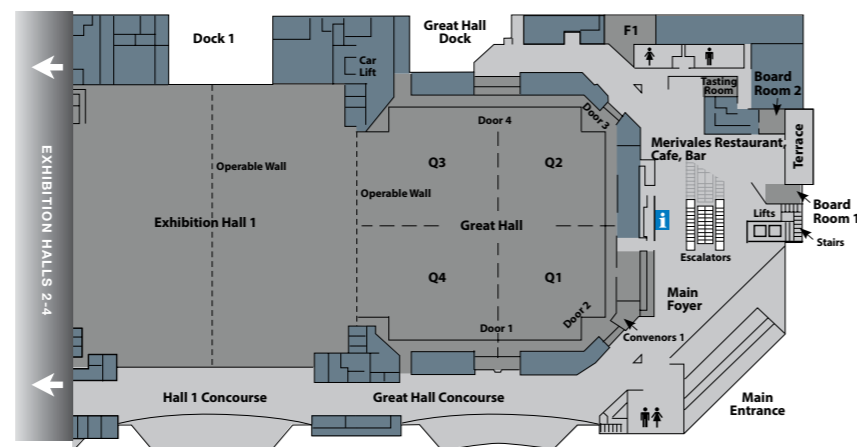
Plaza Level



Mezzanine Level



Foyer Level



MERIVALE STREET



Congress Focus:

Keynotes, Forums & Thematic Tracks

Congress Focus:

Shaping a water future that is sustainable, equitable and creates benefits well beyond the water sector is a major challenge for the water sector and water professionals in the coming decades.

The IWA World Water Congress & Exhibition bridges the space between science, practitioners and industry to share knowledge, collaborate and develop partnerships to deliver solutions that will shape our water future for decades to come.

SOCIAL MEDIA

Don't miss out. Follow us and join the conversation:

- #iwa2016brisbane
- www.facebook.com/InternationalWaterAssociation
- www.linkedin.com/company/international-water-association

The new magazine from the International Water Association

“ With an appealing design and informative and holistic information on the water sector, *The Source* brings the important issues to the forefront for water professionals

Harald Kleiven, Head of Business Development, Cambi Group



To subscribe to *The Source* visit www.thesourcemagazine.org or email water@iwahq.org

As an IWA member you will receive *The Source* as part of your membership

To join the IWA, please visit www.iwa-connect.org

The Water Future We Shape



With the adoption of the Sustainable Development Goals, an unprecedented opportunity for 'water' has emerged. The goals are ambitious to say the least, yet provide a new framework for water professionals to lead on its implementation. How are we going to shape the world's water future and create new sustainable and resilient water realities? How do we use this opportunity to create a truly water wise world?

Bringing together leading science, policy and practice, the 2016 World Water Congress & Exhibition is a chance to reflect on the direction and steps to take. The target set for treatment of wastewater tells a story in itself. Today, 80% of wastewater goes untreated. The SDGs demand we halve the amount of untreated wastewater. During the same period the global population is estimated to rise to 8.5 billion people.

Our task is to provide wastewater treatment to another 3.5 billion people by 2030. In the next 14 years we need to build new wastewater treatment facilities for 700,000 people every day. To do so, requires us to train or attract about 1 million professionals per year, every year. This is just one example of what is needed to achieve just one of the targets set for water.

To realize this new agenda, we all need to focus on Reducing water abstractions and use. There simply won't be enough water around to supply current projected use in 2030; major efficiency gains are needed by all waters users. We need to Re-use water, cascading it from one use to another, and combining this with allocations to the highest economic, social and environmental outcomes. We need to turn the tide and start Replenishing the environment, restoring water quality and degraded ecosystems. This 3 R framework provides a clear means to communicate the essentials of creating a water wise world to a broad audience.

During the Congress, we will present new principles for Water Wise Cities. These build on insights and foresights on how to make our cities deliver the services citizens demand, be sustainable in the long run and become resilient to increasing climatic extremes, impacting livelihoods and economies through floods and droughts. Addressing climate change through mitigation and adaptation measures will increasingly shape the water sector's future.

The Water Scarcity and Drought Summit, organised during the Congress, aims to enable sector leaders and decision makers to reflect on a pro-active agenda to address extreme water

scarcity and drought. To tackle this issue will require a portfolio of approaches combining policy, regulation and institutional reforms with the use of new knowledge and technologies. Becoming more knowledgeable about the Australian experience on developing and implementing such portfolios is of particular relevance to all of us. The Summit aims to be catalytic for the development of the action agenda: #DroughtAction.

Major efforts are required to realise universal access to safe drinking water and sanitation as enshrined in the Human Right to Water and Sanitation. This year's winner of the IWA Global Water Award, Catharina de Albuquerque, has been instrumental in promoting this. The new IWA manual on implementing the Human Right to Water and Sanitation will be launched during the Congress. It provides practical guidance for utilities, regulators and NGOs on how to operationalise the right. The challenge for all water professionals is to leave no one behind.

With the new agenda defined, we need to shift our focus more and more to solutions. The Exhibition, presenting more than 250 companies and organisations from around the world, is a great way to learn about the latest available solutions. The Congress Forums, Workshops, Technical Sessions and Posters provide you with opportunities to update yourself on a broad spectrum of new insights and solutions.

Coming together in Brisbane will be a moment to (re) connect with your colleagues and peers. We have made new tools available through the conference app and the IWA Connect app to make it easier for you to find the colleagues you want to meet. I invite you to download the apps and start using them right away to enhance your Congress and Exhibition experience.

We are at a crossroad in our profession. The agenda set out will be transformational and have a positive impact on billions of people around the world in the years to come. I hope the time we will spend together this coming week will make you find the insights, energy, and inspiration needed to contribute to the new agenda and be part of creating the water wise world.

Dr. Ger Bergkamp

Executive Director, International Water Association

Agenda Setting Plenary Sessions

Thought leadership for the water sector

Opening Ceremony

Sunday 09 October / 16:00 - 18:00



Gunter Pauli

Author, *The Blue Economy*, Founder the ZERI think tank, chairman of the board of Novamont (Switzerland)

Irrigate with sea water? Farm and have drinking water as a by-product? Increase water retention with carbon? Innovation and inspiration from Gunter Pauli, the founder of the ZERI Think Tank, ranked as one of the top in the world for innovative policy advice. Starting as an entrepreneur, but influenced by the work of the Club of Rome, he set out on a mission to ensure that business would become a vehicle in society's capacity to respond to its urgent needs. With over \$4 billion invested in +200 projects his teams have demonstrated a capacity to translate vision into reality.



Catarina de Albuquerque

Sanitation and Water for All Executive Chair, winner of IWA Global Water Award 2016 (Portugal)

Catarina de Albuquerque is the winner of the 2016 IWA Global Water Award. The award recognises the exceptional role she has played as the driving force behind the recognition of the Human Rights to Water and Sanitation. In 2008 she became the first UN Special Rapporteur on the right to safe drinking water and sanitation, having played a pivotal role in the recognition of water and sanitation as human rights by the UN General Assembly.

Plenary Session

Monday 10 October / 09:00 - 09:45

Water and the future we want - how water can contribute to achieving the global Sustainable Development Goals



John Thwaites

Chair Monash Sustainability Institute and Melbourne Water (Australia)

John Thwaites was Deputy Premier of Victoria from 1999 until 2007. During this period he was Minister for Health, Minister for Planning, Minister for Environment, Minister for Water, Minister for Victorian Communities and Victoria's first Minister for Climate Change. Portfolios responsible for major reforms in social policy, health, environment and water. In 2012, John was named one of the top 100 Global Sustainability Leaders by ABC Carbon and Sustainability Showcase Asia. He chairs a project with the Brotherhood of St Laurence to develop policies to assist low income Australians cope with the impact of climate change.

Plenary Session

Monday 10 October / 17:15 - 18:00

Ending extreme poverty, what do the SDGs mean for access to water, sanitation and hygiene



Barbara Frost

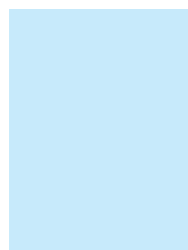
Chief Executive Water Aid (United Kingdom)

Barbara Frost has been Chief Executive of WaterAid UK since September 2005. During this time the global organisation has expanded into 37 countries and substantially increased its income from £27 million a year to over £90 million in 2014/15. Barbara oversaw WaterAid's Global Strategy "Everyone Everywhere by 2030", linking the work of teams across the globe with the Sustainable Development Goals. She played a pivotal role in creating WaterAid international. WaterAid's success is due to retaining a clear focus on safe water, improved hygiene and sanitation as essential to poverty eradication and an emphasis on everyone's right to these most basic of services.

Plenary Session

Tuesday 11 October / 09:00 - 09:45

ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation



Yasmin Siddiqi

Principal Water Resources Specialist, Asian Development Bank

With over 17 years experience in the planning, design and implementation of water resources projects in South Asia, Ms. Siddiqi has been ADB project officer for technical assistances, loan processing and administration of diverse water resources projects in Bangladesh and India. Prior to joining ADB, she worked for Halcrow consulting engineers, and as a consultant for the World Bank on irrigation projects in rural Pakistan.

Oxford Debate

Tuesday 11 October / 17:15 - 18:00



Re-use of wastewater as a drinking water source: technically feasible but socially unacceptable?

Water treatment technology has significantly improved. We are now technically able to provide tertiary treatment of wastewater so it can be re-used for drinking water directly. It is one of the drastic alternatives that could revolutionize the way water supply is managed. Yet, public perceptions and political motivations put a firm brake on such developments in many instances. Can social acceptance on direct potable re-use be created or engineered? Supporters and adversaries of the application of direct potable re-use from around the world will outline their arguments for or against the motion in a lively debate.

Plenary Session

Wednesday 12 October / 09:00 - 09:45

Solutions to shape our water future: a voice for our waterways



Eva Abal

Director, Sustainable Water Program, Global Change Institute, The University of Queensland (Australia)

Eva Abal is the Director of the recently established University of Queensland (UQ) Water, which aims to coordinate research activities in water across UQ's faculties, institutes and centres. She is also the Strategic Science Director for the Great Barrier Reef Foundation, working to understand and promote resilient reef ecosystems adapting to climate change for investor funding. Eva's scientific expertise and research interests include strategic research framework development towards impact; building partnerships amongst research, government and industry; science leadership; and effective science communication through Ecosystem Report Cards.

Plenary Debate

Wednesday 12 October / 17:15 - 18:00

Participative societies creating new challenges for the water sector



Ben Schouten

Professor, Department of Industrial Design, Eindhoven University of Technology (Netherlands)

Ben Schouten is an advisor for the European Commission on the 'Internet of Things' as well as for the Dutch Cultural Media Fund, responsible for E-culture. He graduated from the Rietveld Art Academy in 1983 and found himself interested in patterns and iconography, and discovered his fascination for mathematics. In August 1995 he received a Master's degree in mathematics, specializing in chaos theory. In 1996 Ben Schouten founded Desk.nl, providing innovative internet related solutions. Together with the Dutch Design Institute (Vormgevings Instituut), Desk was internationally acknowledged with a webby award in gaming.

Plenary Session

Thursday 13 October / 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?



Joan Rose

Homer Nowlin Chair in Water Research at Michigan State University (United States)

Joan Rose recently won the Stockholm Water Prize for her contributions to global public health: in assessing risks to human health in water and creating guidelines and tools for decision-makers and communities to improve global health. She is a Professor at Michigan State University, and holds the Homer Nowlin Chair in Water Research. She serves as the Co-Director of the Center for Advancing Microbial Risk Assessment, which addresses evidence based risk assessments for management of waterborne pathogens. Joan is an international expert in water microbiology, water quality and public health safety, and has been involved in drinking water investigations of water-borne outbreaks for over 20 years.

Summit

Water Scarcity and Drought



MONDAY 10 OCTOBER, 10.30 - 17.00

Building resilience to drought and scarcity requires global leadership. We have an unprecedented opportunity to act on water scarcity and drought at the world's first multi-stakeholder Water Scarcity & Drought Summit 2016.

The World Economic Forum ranks the water crisis as the top global risk facing societies, economies and businesses over the next decade. Four billion people throughout Africa, Asia and Latin America are affected daily by severe water scarcity and drought.

The world's growing population, economic development and the impact of climate change, such as extreme weather, and inadequate water allocation policy are increasing the demand for water. Climate change also makes long-term water availability forecasting harder. This makes designing and investing in future water infrastructure increasingly difficult.

The chronic problem of water scarcity impairs people, cities, industries, agriculture and the environment.

Historically, public and private sectors have responded to water scarcity and drought by expanding storage infrastructure and by increasing water supply. Water scarcity and drought management needs to go beyond infrastructure and technologies and include water demand-management, effective water allocation policies and incentives. It is about building systems resilient to water scarcity and drought and managing demand and improving supply.

The Sustainable Development Goals (SDGs) and the Paris Agreement renew commitment to acting on

water scarcity and drought for the benefit of humanity and sustainable business. We need to learn from one another and share best practices more globally.

“Water scarcity and drought: A problem for 40% of the world's population”

The International Water Association and the Australian Water Partnership will engage and challenge 200 leaders from the private and the public sector including ministers, business leaders, scientists and civil society on new ways of collaboration between countries, industries and sectors to address water scarcity and drought.

The Water Scarcity and Drought Summit is an unprecedented opportunity to shed light on a global risk, bring together public and private sector for much-needed collective action, and create a shared understanding for how we can collectively address this global risk. It will launch the world's first public-private action agenda solely dedicated to water scarcity and drought.

Sustainable Development Goal 6.4: Substantially increase water-use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity.

“Today, water scarcity and drought management need to go beyond infrastructure, technologies and create systems resilient to water scarcity and drought, focusing on managing the increasing demand while improving supply”

Dr. Gary Jones, Chief Executive, Australian Water Partnership

Through keynotes, roundtable and plenary discussions, The Water Scarcity and Drought Summit will:

• **CREATE CLIMATE PREPAREDNESS AND RESILIENCE**

by discussing effective policy, planning, regulations and incentives; evaluating existing institutions and how to enforce adaptation to our water scarce situation.

• **ESTABLISH PORTFOLIOS OF WATER SUPPLY AND DEMAND MANAGEMENT**

through discussions of best approaches and exposing participants to modern technologies that reduce water demand and losses, reuse water, desalinate, replenish water stores in groundwater and refill reservoirs. These technologies span across energy, agriculture, cities and industrial sectors.

• **STRENGTHEN MECHANISMS**

to measure data and exchange knowledge on water scarcity and drought.

• **SHARE BEST PRACTICES AND SOLUTIONS**

to share information; knowledge and experiences necessary to create a water wise world.

• **MOBILISE PUBLIC AND PRIVATE INVESTMENTS:**

focus on resources that can be used to upgrade existing institutions and create new ones in addition to improving infrastructure to manage water scarcity and drought.

“Severe water scarcity and drought in Africa, Asia and Latin America impact four billion people daily. The effects of water scarcity and drought will only intensify if we do not act”

Dr. Ger Bergkamp, Executive Director, International Water Association

JOIN US AND BE PART OF BUILDING A NEW GLOBAL ACTION AGENDA TO ADDRESS WATER SCARCITY AND DROUGHT.

www.droughtaction.org

Forums

The IWA World Water Congress includes a number of important Forums and the Water Scarcity and Droughts Summit. This are opportunities to get an in-depth understanding of current trends, latest research, guiding strategies and leading practice.

Regulators Forum

MONDAY 10 OCTOBER

Public Policy and Regulation for Resilient Water Services

The interdependence between regulatory functions and the relationship of regulators to key stakeholders, including service providers, governments and citizens, are of increasing importance in the context of resilient cities and water systems at large. The Regulators Forum offers a platform to bring together leaders of regulatory authorities with economic, quality of service, public health and environmental responsibilities related to water, wastewater and sanitation services.

The Forum aims to progress the principles articulated in the Lisbon Charter to build a strategy for their application in the context of resilient water systems. It is also an opportunity to better integrate public policy and regulation of water services in the framework of the Sustainable Development Goals, UN 2016-2030.

The Forum will provide examples, tools and instruments to build resiliency into regulatory frameworks ensuring that inter-dependent regulatory outcomes, such as safeguarding public health, ensuring eco-system stability and financial viability of services are not compromised in the long-term with care of customers' needs and expectations.

This is a unique opportunity for regulators working across the entire water cycle to gather in an international setting to share their experience and create working relationships that support their vital role in the sector.

Attendance by invitation only.
Please contact Carolina Latorre:
carolina.latorre@iwahq.org

Utility Leaders Forum

TUESDAY 11 OCTOBER

The Changing role of Water Utilities: New Service Models and Innovation for Resource Stewardship

The role of water and wastewater utilities is shifting from a primary focus on resource provision to leading and enabling resource stewardship. This transition requires a greater emphasis on community engagement, industry partnerships and investment decisions that consider the social, economic and environmental costs in an ever-changing environment and climate.

The Utility Leaders Forum provides an opportunity for utility C-level executives to share, learn and discuss the pathways in adopting new technologies and practices that enable these transitions – finding ways in the innovation process to navigate political and regulatory constraints and also look beyond their traditional boundaries and play a pivotal role in securing resources.

The Forum will address new service paradigms for water and wastewater utilities that aim to deliver value to a range of stakeholders, with strategies and business models that embrace concepts such as the circular economy and take advantage of the digital revolution. Utilities that have put customers at the centre of strategic and business planning and have taken a leading role in instigating public discourse on the value of water will also be showcased.

Attendance by invitation only.
Please contact Pritha Hariram:
pritha.hariram@iwahq.org

City Leaders Forum

TUESDAY 11 OCTOBER

Fostering Sustainable Urban Water for Resilient and Liveable Cities

The Forum brings together City Leaders from across geographies and disciplines to share their water successes and challenges, while looking through the lens of the IWA Principles for Water Wise Cities to identify the key success factors and bottlenecks to meeting local the national goals.

The Forum is the place to set an action agenda to develop a shared water vision for sustainable urban water implementation in Cities. The Principles for Water Wise Cities will be endorsed at the Forum, and presented at the UN-Habitat III Conference in Ecuador, promoting water integrated city planning in the New Urban Agenda.

The IWA Principles for Water Wise Cities define Sustainable Urban Water as: all urban waters used and managed by Water Wise communities in cities connected to their basins; and built in a way sensitive to water issues so that short-term risks are minimised, long term resources are preserved, and liveability is increased through Water Sensitive Urban Design and access for all to Regenerative Water Services.

The Forum outcome document will focus on how the Principles can guide cities in implementing the Paris COP agreement on climate change and of the Sustainable Development Goals (SDGs)

The Forum emphasizes lessons from the SDG challenges faced by cities, and how the Principles inspire a vision for solutions.

Attendance by invitation only.
Please contact Corinne Trommsdorff:
corinne.trommsdorff@iwahq.org

Emerging Water Leaders Forum

TUESDAY 11 OCTOBER

Water Leaders of Tomorrow

An opportunity for young water professionals – as the emerging water leaders – to contribute to development of an action agenda required to address water sector challenges. In this session young professionals will discuss solutions, actions and the competencies required to tackle the increasing challenges in cities, utilities and basins around water management.

Attendance is for Young Water Professionals (35 and below) and invited senior professionals only.

Please contact Kirsten de Vette:
kirsten.devette@iwahq.org

Water Leaders Forum

WEDNESDAY 12 OCTOBER

Water Security Across Scales: Cooperation and Partnerships

This Forum will include participants from the Basins, Utilities, Cities and Regulators Forum to explore issues concerning cooperation, bottlenecks and enablers for water security across scales arising from their respective forum. Furthermore, an interactive and participatory case study from Australia will enhance participants understanding of influencing decision making across urban-basin scales and reaching outcomes that improve sustainable water management.

Attendance by invitation only.
Please contact Tom Williams:
tom.williams@iwahq.org

Basin Leaders Forum

WEDNESDAY 12 OCTOBER

Resilient Basins for Water Security

The Basin Leaders Forum will provide an opportunity for water resource managers from sectors across river basins (e.g. cities, mining, energy, industry, agriculture, etc) to share knowledge and experiences and explore viable pathways for sustainable economic, social and environmental development of catchment areas.

The Forum will be a stepping stone for development of an "Action Agenda for Sustainable Basin Management" which will provide guidance for a bottom up approach to basin management especially involving urban and industrial areas through their actions at the catchment level. Protecting basins and restoring those that are already degraded should be a priority to ensure a balanced approach to development that sustains cities and industries and the ecosystems they rely on.

Sessions within the Basin Leaders Forum will have a mix of roundtable and panel discussions to maximize knowledge and experience sharing. The discussions will center on theoretical and empirical evidence of proven interventions and current practical approaches towards building resilience and fostering sustainability in basins. Fostering resilience means supporting innovation and experimentation – allowing room for developing innovative management approaches, learning from the outcomes and acting on those lessons learned.

Attendance by invitation only.
Please contact Bushra Nishat:
bushra.nishat@iwahq.org

Science & Technology Leaders Forum

THURSDAY 13 OCTOBER

A Shared Vision for International Water Research Collaboration and Impact

This Forum will bring together over 100 of the top researchers and technology innovation leaders to discuss and identify shared research agendas and effective application pathways to accelerate innovation and create greater impact across the water sector. This innovation agenda will be informed from key messages from the Utilities, Cities, Basins, and Regulators Leaders Forums, to build on the needs identified by these key sectors/groups to achieve better solutions for sustainable water management into the future. Forum attendees will be fully engaged in the process of identifying top research priorities, developing the innovation agenda and characterising effective collaboration and application avenues.

The outcome of the forum is to provide a shared innovation agenda which incorporates current and emerging applied research needs globally, highlights effective ways to engage science and technology leaders towards improved impact, and illustrates the value of close innovation partnerships between research institutions, industry funding agencies and utilities and technology providers.

Attendance by invitation only.
Please contact Hong Li:
hong.li@iwahq.org

Thematic Tracks

Shaping the future of water management

Addressing global water challenges for a water wise world demands imaginative approaches and the adoption of new paradigms and technologies. The IWA World Water Congress brings together top water professionals from around the world to challenge the status quo. Thematic Tracks are all about presenting innovative approaches, the latest science, newest technologies and leading practices.

Participating in technical sessions, including oral and poster presentations, brings you the latest findings and allows you to connect to new developments. Attending workshops will provide insight and inspiration for cooperation and collaboration on research and practical applications.

TRACK 1

Cities, Utilities & Industries Leading Change

WATER CENTRED CITIES OF THE FUTURE

Resilience and sustainability are central to the water sensitive urban infrastructure of the future. Case studies and discussions highlight the pros and cons of both centralised and decentralised urban water systems. Critical views are presented on the effectiveness of adapting to climate change and creating urban water resilience through urban storage and drainage, storm water management and rainwater harvesting.

Workshops and technical sessions provide great opportunities to network with specialists focused on the transition of urban systems. The latest modeling and case studies on moving towards sustainability provide the basis for reflecting on how urban water systems can meet new imperatives through to 2050. Can integration of the design of water systems with the long-term planning and development of urban areas be achieved?

LEADING UTILITIES

New management models for utilities, new approaches to asset management and innovative contracting practices are transforming water service delivery. They form a basis for more effective, efficient and sustainable services. Workshops and technical sessions focus on the latest advances in utility performance assessment and benchmarking based on learning from best practices.

Outcomes from new assessments of the capacity gap in the water sector of emerging economies are presented. These facilitate the strategic planning of training and professional learning. At the utility level this translates into better workforce planning and improving the quality of skilled staff. Utility managers from around the world will exchange ideas and share experiences to improve utility management in practice.

INDUSTRIES IN TRANSITION

Industries from all sectors now see eco-efficiency, water and materials recycling as essential to their success. Leading industrial water management practices are minimising

environmental impacts by achieving zero waste discharge. Workshops and technical sessions provide examples from agriculture, refineries, automotive manufacturing, mining, food and beverages, and the pharmaceutical industry.

TRACK 2

Water & Wastewater Processes and Treatments

WASTEWATER AND BIO-SOLIDS

Research and practice on the safe and sustainable management of wastewater and derived sludge (bio-solids) continues to develop. Technical sessions highlight latest findings in optimising wastewater treatment processes and the next generation of technologies. A special focus is given to Aerobic Granular Sludge, which has advanced rapidly and is set to become the new standard for aerobic treatment of industrial and municipal wastewater.

NUTRIENT REMOVAL, MEMBRANES AND DESALINATION

The latest findings of nutrient removal in large-scale wastewater plants are presented. The effectiveness of a range of biological phosphorus and nutrient removal processes, including Anammox, are examined with experiences from both temperate and warm climates.

Membranes have transformed the water and wastewater sector in recent years. A series of technical sessions provide deeper insight into past and future membrane experiences, including membrane bioreactors. In addition, speakers elaborate on the future of desalination and the feasibility of biological desalination.

DRINKING WATER TREATMENT

Utilities consistently strive to produce drinking water that meets the quality standards using the most cost-effective approaches. This is an ever-more complex challenge, as new drinking water contaminants are continually being discovered and new technologies and processes are developed. It can be very difficult to keep up with the latest technical information, but it is crucial for everyone to be aware of emerging water quality issues and the good practices that may be appropriate for addressing these issues into the future. Research and practice on the most effective and efficient drinking water treatment technologies and processes will be presented.

TRACK 3

Re-Charting the Course of Water Resources

RESOURCE RESILIENCE

Building resilience into resource management strategies requires institutional and technological development. New strategic frameworks are being introduced, enabling successful management of resources across

political boundaries: connecting watersheds and urban centres. These new approaches focus on managing the current state of the resource base, but also support the restoration of damaged or over-exploited ecosystems.

Latest research findings of the underlying physical, chemical and ecological processes are presented. These findings have the potential to substantiate new risk-based assessment approaches for sustainable resource management. A variety of new methods, applied to different ecosystems from coastal zones, wetlands and groundwater, to lakes and reservoirs, are presented.

ALTERNATIVE RESOURCES

Competing water demands and water scarcity are driving the development of alternative water resources. A series of workshops highlight where and how new technologies are shaping the future of alternative water resource development. Special attention is given to how the interactions between regulation and stakeholders significantly impacts on the development of these resources.

Technical presentations, that underpin the development of alternative water resources, highlight the latest findings of advanced membrane technologies including ultrafiltration and reverse osmosis.

RESOURCE AND ENERGY RECOVERY

Water and wastewater are valuable sources of nutrients, materials and energy. The latest developments in capturing nitrogen and phosphorus are featured in technical presentations and a series of posters. These focus on solutions in both the municipal and industrial sectors. Full-scale programmes that meet environmental discharge standards and recover nutrients effectively are highlighted.

Technologies are now being developed that enable energy to be captured from wastewater. Biogas production through co-digestion and co-generation schemes, microbial electrolysis, fuel cells and pressure-retarded osmosis are amongst the technologies that could dramatically change the energy profile of our industry. A number of technical sessions and workshops highlight how the focus on energy is combined with real progress in understanding and tackling the production of greenhouse gases in the water cycle.

TRACK 4

Enabling Progress

GOOD GOVERNANCE

Effective institutions and regulation are essential to enable the reliable and sustainable management of water services and water resources. Through technical presentations and discussions we examine how regulation is impacting water and wastewater services and water reuse. Other sessions analyse the effectiveness of different national and transboundary water-sharing governance arrangements. You can examine stakeholder engagement, customer relations and whether the water sector can learn from other sectors.

SUSTAINABLE FINANCE

Sound finances are critical for the water sector. Taxes, tariffs and transfers together form the basic ingredients for sustainable financing. In reality, utility managers, regulators and other practitioners must address a number of (competing) objectives when establishing tariff structures and pricing levels. What tariffs are most appropriate in terms of sustainability, affordability and equitability? A range of speakers and panellists review the use of different sources of finance to cover capital and operational costs in different settings.

SMART WATER

The continuing rapid development of Smart Water is driving radical change in the water sector. The impacts of implementing new algorithms, monitoring technologies and decision support systems on service delivery and resource management effectiveness are examined. Finally, the potential of "big data" and analytics for transforming the water sector and overcoming critical challenges in water management are reviewed.

TRACK 5

Water Quality, Safety & Human Health

WATER SAFETY AND HUMAN HEALTH

Safety is at the heart of water supply services. A number of sessions demonstrate that Water Safety Plans are increasingly widespread. More and more the conversation focuses on the assessment of effective implementation of these plans and on the development of Sanitation Safety Plans.

The safety of water supplies based on traditional disinfection has encountered several problems, such as disinfectant by-products. Bromates, chlorates and nitrosoamines are now being assessed far more accurately, with potential health impacts better understood and new techniques for their removal advanced.

MONITORING AND MANAGING WATER QUALITY

Developing an approach to establish 'water cascades' for different purposes is dependent on identifying the correct water quality for the specific water use. A series of sessions will explore differentiated standards for uses such as irrigation and cooling, which can be done with non-potable water. Technical sessions demonstrate that improved detection and better assessments can deliver a "fit for purpose" approach to water quality management.

Leading specialists elaborate on how new molecular-biological tools are expanding our knowledge about environmental conditions and tracing pollution sources, leading to improved resource management. Learn how powerful analytical techniques are enabling the detection of pharmaceuticals and priority pollutants throughout the water cycle, including in distribution systems.

IWA Learning Events

Pre-congress Trainings*

These are technical trainings that are offered by IWA's Members and or partners and aim to enhance professional competence in the specific topic, hence improve abilities to perform professional tasks or functions.

Saturday 8 and Sunday 9 08:30 - 17:00** **Sunday 9** 08:30 - 15:30

MODELLING ACTIVATED SLUDGE PLANTS Room M5/M6

Organiser: IWA Good Modelling Practices Task Group
Chair: Gunter Langergraber BOKU University Vienna, Austria

How to use Activated Sludge Models in Practice?

There is an ample need for hands on practice of mathematical modelling of Activated Sludge plants. The two day modelling course provides detailed instruction on mathematical models, their structure and use in practice such as design, operation and control in activated sludge plants, and ample hands-on opportunity to use these models in a class-room setting. The learner will gain an understanding of structure of the IWA Activated Sludge Models (ASMs) and get a hands-on opportunity to use these models. The target audience is consultants, plant managers/operators, water boards and academics in modelling wastewater treatment

** Sunday until 15:30

ASSESSING CLIMATE AND ENERGY PERFORMANCE OF WATER AND WASTEWATER UTILITIES Room M7/M8

Organisers: IWA and GIZ on behalf of the German Federal Ministry for the Environment, Nature Conservation, Building and Nuclear Safety (BMUB)
Chair: Jose Porro IWA

How can urban water utilities assess and reduce their carbon emissions and improve their energy performance?

Participants will learn to use the Energy performance and Carbon Emissions Assessment and Monitoring (ECAM) tool via interactive lectures, hands-on computer sessions, and game-based learning. With this free, web-based tool, you will be able to better assess your baseline GHG emissions and highlight water utility inefficiencies and areas that can be improved. The tool is a critical component of an international roadmap guiding decision makers through the process of actually doing something about climate change and implementing measures to mitigate it. The target audience is water professionals (practitioners, academics etc.) who want to lead the sector in applying this tool, integrate it into their current practice, decision making, and research, and possibly train others to follow.

Sunday 9 08:30 - 15:30 **Sunday 9** 08:30 - 15:30

NRW ASSESSMENT AND MANAGEMENT IN LOW AND MIDDLE INCOME COUNTRIES Room P3

Organiser: Water Loss SG
Chair: Roland Liemberger Miya, Austria
Contributors: Dr. Ronnie McKenzie Chair WLSG, South Africa
Bambos Charalambous Past Chair, WLSG, Cyprus
Tim Waldron WLSG Past Chair, Australia

One of the major challenges facing water utilities is the high level of Non-Revenue Water (NRW). While the benefits of reducing NRW are well known, decades of effort have not delivered much improvement in low and middle income countries (LAMIC). While there are many explanations and excuses, much of the failure is due to underestimating the technical difficulties and complexity of NRW management, along with the potential benefits of taking action. The participants will gain in-depth knowledge on NRW assessment, using the IWA methodology, and get a good overview of the available NRW reduction interventions. Finally, they will get an update on latest trends and developments in the use of performance based NRW management contracts. In this interactive training, groups will work on a case study and participants are encouraged to bring their laptops or tablets. Target audiences are those dealing with urban water supply in low and middle income countries; in particular: water utility managers, water sector key decision makers, consultants and representatives from funding agencies.

CRISIS MANAGEMENT AT WATER UTILITIES: CONCEPT, PREPAREDNESS AND LATEST TECHNOLOGY DEVELOPMENT IN DECISION SUPPORT SYSTEM USING ARTIFICIAL INTELLIGENCE Room P5

Organiser: IWA Water Security and Safety Management SG
Chair: Bruno Nguyen UNESCO International Hydrological Program, Paris
Contributors: Ilan Juran

How can water utilities get operations ready for crisis situation through preparedness, Decision Support Tools, and Smart Water Systems?

In a context of global change, population growth, and increase of environmental risks, water utilities need to share experience and best practices in order to be best prepared against upcoming crisis situations, and to develop efficient resiliency for water services. Trainees will understand through practical cases and simulated exercise how they can be prepared and respond to extreme events, and how they can make use of the latest development in Smart Water Systems. Beyond the concepts and recommendations, special attention will also be given on how to improve mitigation and response by regularly practicing drills, and on the need for appropriate communication under stressed situations. The target audiences are: Engineers in charge of urban water services; Technicians in charge of urban water services; Decision-makers in charge of urban water services. And Anyone who would want to know more about crisis management and Smart Systems.

Sunday 9 08:30 - 12:30

PERFORMANCE-BASED CONTRACTS FOR IMPROVING UTILITIES EFFICIENCY Room P2

Moderator: Didier Carron Naldeo

The workshop presents the IWA Book on Performance-Based Contracts (PBC). The book is a compendium of case studies and contributions written by members of the IWA PBC Task Group, addressing innovative approaches in public-public and public-private partnerships, including WOPs, service and management contracts, and the alliance approach. The book finds that great progress has been made with the design of these contracts in the past 10 years, but concludes that results are uneven and there are still many challenges. Speakers including Tom Williams (IWA) Philip Giantris (Valu-add), Silver Mugisha (NWSC) examine recent experiences with PBCs in urban water.



*The trainings are subject to change or cancellation and are offered at an additional cost, requiring separate registration. Please check at registration desk.

Soft Skill Learning Sessions and Career Development

In the Programme as well as the Exhibition area - **Career Development Hub** – IWA, its members and partners will host sessions that are aimed at providing guidance in career development or development of soft skills relevant for diverse audiences of water professionals.

Sunday 9 12:30 - 14:30 **Sunday 9** 14:30 - 15:30

GLOBAL WATER SHAPERS: A NETWORKING EVENT TO START THE CONGRESS Room M1/M2

Organiser: International WaterCentre
Chair: Dr. Brian S. McIntosh International WaterCentre, Australia

How should we respond to the key challenges and opportunities facing the water sector?

Shaping our water future is the central theme of the 2016 IWA World Water Congress. What are the key challenges and opportunities facing the water sector from your perspective? How can and should we seek to respond to those challenges and opportunities? Join us on the opening day of the Congress to answer these questions and be part of a group of (young) water professionals to shaping the conversation about our water future. The Global Water Shapers session will be a structured, light-hearted and engaging evening providing you with an opportunity to meet, discuss and create collaborative opportunities with professionals from around the world.

MAKE THE MOST OUT OF THE CONGRESS: FIRST TIME ATTENDEES Room M1/M2

Organiser: IWA
Chair: Kirsten de Vette IWA

How can you make the most out of attending the Congress?

First time attendees, and those that are interested to learn more about attending the Congress and making the most of the congress. The key persons behind the Congress - Keith Robertson, the programme - Joao Grilo, exhibition - Roy Agterbos, learning events - Diana Guio, and social events - Chrysa Triantafyllidou, together with IWA members and knowledgeable congress attendees will be providing tips and tricks and share lessons learned. This session will teach participants how to make a success of their attendance, and help them reach their goals for attending.



Soft Skills Learning Sessions

- **Building Leadership in the Water Sector (Monday and Wednesday)** IWA Career Development Hub
- **The Curious Power of Story: How to Win Friends, Persuade Heroes and Influence Outcomes with Narrative (Monday)** IWA Career Development Hub
- **To Publish You Must Review: A How To Discussion (Monday)** IWA Career Development Hub
- **The Art of Scientific Publishing for Scholars (Tuesday)** IWA Career Development Hub
- **How to Bring Your Idea to the Market With Using the Lean Startup and Rapid Prototyping (Wednesday)** IWA Career Development Hub
- **Sustainable Delta Game – Adaptation Pathways (Wednesday)** IWA Career Development Hub
- **Water Career Opportunities and Development (Wednesday)** Room S1
- **How to Engage Stakeholders in the Water Sector (Thursday)** IWA Career Development Hub

Master Lectures

1. RAINWATER HARVESTING

When: Tuesday 11

Time: 13:30 - 15:00

Place: Room P5

Lecturer: Mooyoung Han

Seoul National University- Korea

IWA Rainwater Harvesting and Management Specialist Group Chair

2. GRANULAR SYSTEMS (AEROBIC AND ANAEROBIC)

When: Wednesday 12

Time: 15:30 - 17:00

Place: Room P5

Lecturers: Prof. Mark van Loosdrecht

Delft University of Technology -

The Netherlands IWA Management

Committee member on SG Biofilms, SG

Microbial ecology and Water Engineering,

SG Nutrient removal and recovery

Prof. Damien Batstone University

of Queensland - Australia IWA

Anaerobic Digestion Specialist Group

Chair, Generalized Physicochemical

Framework Task Group Chair

3. ABATEMENT OPTIONS FOR MIXTURES OF EMERGING CONTAMINANTS

When: Thursday 13

Time: 10:30 - 12:00

Place: Room P5

Lecturer: Stefan Kools

KWR Watercycle Research

Institute- Netherlands

If you have any questions

contact Kirsten de Vette:

kirsten.devette@iwahq.org

Specialists Groups

IWA specialist groups, task groups and clusters

Schedule for open meetings

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. Working groups also produce scientific and technical reports, manuals of best practice and position 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**. This provides a unique opportunity to connect and network with specialists and leaders in their respective fields, and to update your knowledge on the issues that interest you.

Monday 10 October

PUBLIC CUSTOMER COMMUNICATION 12:00 - 13:30 / Room M7

How do water services effect society? How to raise awareness? Why public participation? The specialist group on Public & Customer Communications is all about sharing and developing best practices. At our meeting on Monday during lunch we will look back on the work the Specialist has done the last two years and discuss the priorities for the coming year.

ALTERNATIVE WATER RESOURCES CLUSTER 15:30 - 17:00 / Room M7

This meeting will focus on the review of the current Cluster's progress, but also on the planning of future steps towards the final aim of proposing New Water Solutions. Besides, we will review the main conclusions obtained at the Workshop in order to identify new opportunities and possible areas of interest.

WATERSHED AND RIVER BASIN MANAGEMENT 15:30 - 17:00 / Room M8

The SG promotes the understanding, benefits and utilisation of integrated catchment management approaches for the beneficial and sustainable use of rivers, lakes and groundwater basins worldwide. This informal session will explore opportunities for networking and sharing knowledge including programmes exploring different water resource options for a growing global population within the constraints of climate change.

BEST PRACTICES FOR CONTROL OF ARSENIC IN DRINKING WATER 15:30 - 17:00 / Board Room 2

Arsenic in drinking water has been recognized as a major public health concern, affecting more than 200 million people around the world. The best practices to control arsenic from source to tap will be outlined and elaborated in the open meeting of IWA Specialist Group on Metals and Related Substances in Drinking Water.

Tuesday 11 October

WATER SECURITY AND SAFETY MANAGEMENT 10:30 - 12:00 / Room M5+M6

This meeting aims at giving the attendees some examples of what is being done through illustrations on recent crisis management case studies lived at water utilities; as well as latest report on researches focusing on technology solutions for early warning systems. Presentations will open for discussion with the audience.

SUSTAINABILITY IN THE WATER SECTOR 10:30 - 12:00 / Room M7

The SG performs the role of making sure that economic, social, and environmental aspects are addressed in every aspect of water use. Working groups of the Specialist Group are applying sustainability principles to workforce sustainability; the inter-relationships between water quality and the environment; energy and water in the urban environment; and industrial use of water. Please attend our open meeting; we would welcome your participation.

INTERMITTENT WATER SUPPLY TG 10:30 - 12:00 / Room M8

The open meeting will provide an opportunity to inform participants of the purpose, objectives and deliverables of the Group and to exchange ideas and thoughts on the way forward in assisting water utilities and governments in improving the level of service to the consumers and water supply conditions in general reflecting on technical, financial, institutional, social and communication issues.

PRETREATMENT OF INDUSTRIAL WASTEWATER 10:30 - 12:00 / Board Room 1

This SG meeting will provide a place for older and new members to discuss the future and evolution of our strategic objectives; debate areas presented by the Committee in the report on SG trends; discuss our conference for 2018; and find new regional Committee members to enhance our annual activities.

INDUSTRIAL WATERS AND WASTEWATERS 12:00 - 13:30 / Room M5+M6

This meeting aims to brainstorm with Congress participants on how IWA can better work on industrial waters: which pressing problems and challenges from industries IWA can tackle, who to involve (both within and beyond IWA's network), how to work on it, etc.

DESIGN, OPERATION AND COSTS OF LARGE WASTEWATER TREATMENT PLANTS 12:00 - 13:30 / Room M7

The meeting will highlight the last specialist conference of the group and will give an outlook to the next conference. As a new format it has been decided that in between the regular conferences of the group (every four years) an additional event will be organized, preferably in Asia or in the Americas. It is now planned to have a conference in China in November 2018 together with the SG on Nutrient Removal and Recovery. New information concerning this event will be given.

Tuesday 11 October

INSTRUMENTATION, CONTROL AND AUTOMATION 12:00 - 13:30 / Room M8

This meeting will provide you with the latest updates on our upcoming conferences (IT&Water 2016, ICA2017), management committee elections and other activities. We look forward to interacting with you on how to make ICA SG a true forum for all members.

BENCHMARKING AND PERFORMANCE ASSESSMENT 12:00 - 13:30 / Board Room 1

The Benchmarking Specialist Group welcomes any IWA World Water Congress attendant to join us for the SG meeting. During the meeting, topics to be discussed will include the upcoming SG conference in Vienna, Austria, the publication of the new IWA Performance Indicators Manual and the options to actively participate in our group.

SLUDGE MANAGEMENT 13:30 - 15:00 / Room M8

During our group open meeting, the Specialist Group on Sludge Management (SGSM) will discuss our future conferences and workshops, and also new projects that are in the planning phase

WATER REUSE 15:30 - 17:00 / Room M5+M6

Topics to be discussed include organizational issues and planning of special sessions for the 2017 11th IWA Water Reclamation and Reuse Conference in Long Beach, update from members of the editorial board of our newsletter, and topics brought forward by members of the WRSG.

MEMBRANE TECHNOLOGY 15:30 - 17:00 / Room M7

This meeting will be the opportunity to meet fellow Membrane Professionals and to hear about the latest activities of the IWA's Membrane Specialist Group, including the next IWA Membrane Technology Conference (Singapore, September 2017), and next Regional conference in 2018, the upcoming renewal of the Committee next year, and the selection of membrane representatives in the Young Water Professional Group.

DESIGN, OPERATION AND MAINTENANCE OF DRINKING WATER TREATMENT PLANTS 15:30 - 17:00 / Room M8

The open group meeting will start with an introduction of the scope of the SG activities, priorities, general trends and key challenges. In a second part we will focus the discussion on a specific issue such as plant operation data management and share experience on what data is needed and gathered, for which purpose, how it is used and what tools can be recommended.

Wednesday 12 October

MODELLING AND INTEGRATED ASSESSMENT 12:00 - 13:30 / Room M5+M6

The MIA SG will present the new Management Committee and its associated YWPs and how the MC intends to work to move the MIA group forward and further strengthening its role during the upcoming years. Ongoing activities relating to MIA Task Groups and Working Groups, upcoming group events and conferences will be revealed. The group's new communication policy will also be discussed. As always, it will be possible for SG members to bring up their own topics and ideas for discussion during the open meeting. Welcome!

HOT TOPICS IN RESOURCE RECOVERY FROM WATER 12:00 - 13:30 / Room M7

The cluster open meeting aims to summarize the overall goal, strategic objective and expected outcomes of the 'resource recovery from water' cluster. Second, the activities conducted and progress made in the last year will also be reviewed. Finally, activities and objectives outlined for the coming 2 years will be discussed.

EFFICIENT URBAN WATER MANAGEMENT 12:00 - 13:30 / Room M8

The Efficient Urban Water Management Specialist Group promotes knowledge, research, best practices and programs regarding efficient management and use of water in urban zones. We focus on topics like end use efficiency, customer demand management, water losses management, performance assessment, water resource planning, and technological innovation. All stakeholders are welcome.

DIFFUSE POLLUTION AND EUTROPHICATION 12:00 - 13:30 / Board Room 1

The objective of the SG is to understand and solve contamination and eutrophication of natural water resources by diffuse or non-point sources. By organizing biennial worldwide and regional conferences ("DIPCON"), the Group exchanges knowledge about the state-of-art research, monitoring/modelling/management approaches, innovative solutions and policy development. Please join us at this meeting. We would welcome your participation!

SMALL WATER AND WASTEWATER SYSTEMS 15:30 - 17:00 / Room M5+M6

This meeting will update you about the last SG conference in Athens, Greece and the election of new Management Committee. Challenges and future activities of the SWWS SG will be discussed, and more detailed information about the proposals and announcements of the next specialized Conference will also be introduced.

STRATEGIC ASSET MANAGEMENT 15:30 - 17:00 / Room M7

The SAM SG is pleased to invite you to our open meeting where we will engage you in the groups' latest developments and future events, namely a joint-conference on infrastructure asset management and utility bankability in Chile, the next LESAM in Norway, and many more.

Thursday 13 October

ASSESSMENT AND CONTROL OF HAZARDOUS SUBSTANCES IN WATER 12:00 - 13:30 / Room M7

This specialist group focuses on analytical methods, bioassays, occurrence, fate and effects of substances in in water and the environment, risk assessment, management and communication and regulatory aspects to improve water quality for a safe environment. This meeting will share and update the audience about the future events on micropollutants and hot topics for micropollutants.

Technical Tours

Connecting you to leading practice and large scale applications

Book your place for one of the Friday 14 October full or half day Technical and Walking Tours

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



GOLD COAST DESALINATION PLANT AND THE SMART WATER RESEARCH CENTRE

The Gold Coast Desalination Plant, located at Tugun, Gold Coast, Australia, uses reverse osmosis to produce drinking water for the Gold Coast, Logan and Brisbane. Desalinated water is a climate-resilient source of drinking water and ensures a consistent supply of safe and reliable drinking water. The plant was completed in 2009, and can produce up to 125 million litres of drinking water a day.

The Smart Water Research Centre: From their hub on the Gold Coast, their state-of-the-art research facility offers cutting-edge water research focused through core capabilities. The Smart Water Research Centre also provide a program of education and training directed towards emerging industry needs as well as commercial laboratory services with their major partners, Gold Coast Water.

SEQWATER CATCHMENT MANAGEMENT PROGRAMME - PINE VALLEY CATCHMENT

Water gives and sustains life and helps to create prosperity. It's a vital service that Seqwater delivers to 3.1 million people in South East Queensland.

Taking action in our drinking water catchment to reduce the risks to water quality and increase the resilience of our source waters is critical to the delivery of a safe, secure, resilient and reliable water supply. Seqwater is one of the few bulk water providers in Australia that manages open catchments. People live, farm, work and play on and around our dams. We must maintain a careful balance between community access to our lakes and catchment land and protecting the quality of the region's bulk drinking water supply.



MALENY SEWAGE TREATMENT PLANT AND IRRIGATED WETLANDS

In 2015, Unitywater's Maleny Sewage Treatment Plant and its associated wetlands won the prestigious business award for Best Specific Environmental Initiative at the UN World Environment Day Awards.

This \$17 million upgrade project showcases a membrane bioreactor to treat effluent to a very high standard before sending it to an irrigated rainforest and wetlands in the Maleny Community Precinct. This process of natural filtration further disperses and removes nutrients from the nearby creek.



WESTERN CORRIDOR RECYCLED WATER SCHEME

An indirect potable reuse scheme which was commissioned at the height of South East Queensland's Millennium drought. The drought, which ran from 2005 to 2008, resulted in the region's major ground water supplies reached an all-time low of 17% of total water storage capacity and severe water restrictions for the businesses and householders. The scheme has never been used to supply drinking water as the drought broke soon after commissioning. It did supply recycled water for power generation for several years.



WIVENHOE DAM AND MT CROSBY WATER TREATMENT PLANT TOUR

As the key drinking water lake for Brisbane, Wivenhoe Dam was built on the Brisbane River approximately 80 kilometres from Brisbane. It was designed by the Water Resources Commission and built in 1984.

Wivenhoe Dam has a total storage capacity of 3.132 million megalitres. At full supply level, it will hold 1.165 million megalitres, or about 2,000 times the daily water consumption of Brisbane. Wivenhoe Dam is a 50 metre high, zoned earth and rock embankment separated into two parts by a concrete gravity spillway. The spillway is controlled by five radial gates, each 12 metres wide by 16 metres high.



PROTECTING MORETON BAY, NORTH STRADBROKE ISLAND

Moreton Bay is a Ramsar listed site and receives the waters of a number of catchments including the Brisbane River. This tour will showcase both the impact of catchment management on the Bay and the resource management issues impacting upon North Stradbroke Island, one of the largest sand islands in the world.

Delegates will have the opportunity to travel across Moreton Bay to the Moreton Bay Research Station on North Stradbroke Island and hear from leading experts in the fields of regional catchment management before visiting the island's recreational sites of North Gorge and Cylinder Beach.



BUILDING A FLOOD RESILIENT BRISBANE

Following the devastating January 2011 flood, Brisbane City Council has taken a strategic approach to building a more resilient city. Brisbane's Floodsmart Future Strategy sets out a vision for a city that is "safe, confident and ready" for flooding. Council is improving both the resilience of the Brisbane community and the city's built form through an integrated mix of flood management measures including disaster management, community education and awareness, hazard-based land use planning and structural flood mitigation.

This tour will showcase examples of those measures, including a visit to the State Disaster Coordination Centre, Council's newly constructed Backflow Prevention Devices and examples of recent flood resilient development.



URBAN RENEWAL, NORMAN CREEK CATCHMENT

Norman Creek is a historic area in Brisbane covering 30 square kilometres and is home to approximately 100,000 people.

In 2014, Brisbane City Council adopted the Norman Creek Master Plan 2012-2031 and is working to create Australia's most water smart catchment with a sustainable built environment for a community enjoying an active and connected lifestyle.

This tour will give delegates a behind the scenes tour of key areas within the catchment including stormwater harvesting sites, the development of new parks and current community engagement activities.



QUEENSLAND URBAN UTILITIES INNOVATION CENTRE TOUR

Queensland Urban Utilities converted an empty heritage-listed building at our biggest sewage treatment plant, Luggage Point, to an Innovation Centre housing world-leading research. Apart from an unlimited supply of samples from our plant, research scientists have access to the perfect tools, like the world's largest replica sewer main. We're also the first utility in Australia to nurture baby Annamox bugs into a booming farm.



COMMONWEALTH GAMES 2018 VENUES

Meeting the demands of a growing city – a guided tour of major infrastructure projects on the Gold Coast that will broadcast this city to the world, and the impacts this has on a water and sewerage service provider.

A WALKING TOUR OF SOUTHBANK, A WATER SMART PRECINCT

Date: 11, 12, 13 October 2016

Requirements: delegates must wear fully enclosed footwear

Southbank is Brisbane's premier lifestyle and cultural destination. Located on the southern banks of the Brisbane River, the precinct offers visitors 17 hectares of lush parklands, world-class eateries, stunning river views and hundreds of events year round. In 1988 Southbank was the site of World Expo 88' and is now Brisbane's most highly visited parkland and cultural precinct with over 10 million visitors per year.

This tour will provide delegates a behind the scenes look of the award-winning urban water management practices used within the precinct including demonstrations of the innovative storm water harvesting operations that create urban amenity.

A WALKING TOUR OF SOUTHBANK, A WATER SMART PARKLAND

Date: 11, 12, 13 October 2016

Southbank is Brisbane's premier lifestyle and cultural destination. Located on the southern banks of the Brisbane River, the precinct offers visitors 17 hectares of lush parklands, world-class eateries, stunning river views and hundreds of events year round. In order to maintain its subtropical parklands, beach and water features, Southbank utilises stormwater harvesting and reuse.

With a focus on parkland planning, this tour provides a behind the scenes look at how urban water management practices are helping to achieve a lush and welcoming environment built above an inner city carpark. Delegates will visit the epicurean garden, Nepalese pagoda, mangroves, state of the art playgrounds and Streets Beach.



A WALKING TOUR OF BRISBANE – AUSTRALIA'S NEW WORLD CITY, SOUTHBANK AND ROMA STREET PARKLANDS

Brisbane is a sub-tropical city with the highest diversity of native plants and wildlife of any capital city in Australia. This tour provides delegates the opportunity to visit Southbank and Roma Street Parklands, two of Brisbane's inner-city parks utilising innovative urban water management practices while providing urban social amenity.

Located on the southern banks of the Brisbane River, Southbank is Brisbane's most highly visited parkland and cultural precinct with over 10 million visitors per year.

Roma Street Parkland is an oasis in the heart of Brisbane offering spectacular surrounds for leisure, recreation and events. The Parkland is set over 16 hectares of green space and features historic artefacts and state of the art technology in water infrastructure.

The tour will conclude at the Museum of Brisbane in King George Square in Brisbane's CBD.

Congress Programme



Sunday

Sunday:

Addressing the global water challenge demands imaginative approaches and the adoption of new paradigms and technologies.

Participating in technical sessions including oral and poster presentations, brings you the latest findings and allows you to connect to new developments. Attending workshops will provide insight and inspiration for cooperation and collaboration on research and practical applications. The workshops and technical sessions provide a unique opportunity for connecting with peers from across the water sector.

SOCIAL MEDIA

Don't miss out. Follow us and join the conversation:

[#iwa2016brisbane](#)

www.facebook.com/InternationalWaterAssociation

www.linkedin.com/company/international-water-association

Applying global expertise to local water challenges

Visit us at stand no. 513

Coastal subsurface water solutions, emerging substances, smart water concepts, resource recovery & upcycling, resilient urban water management.

To solve water challenges worldwide, **Watershare® experts** choose to share their scientific knowledge and instruments, and apply practical expertise in real life projects.

Share your challenges with **Watershare® experts**.

watershare.eu

watershare®

Reception & Awards

Opening Ceremony, IWA Leadership Awards & Welcome Reception

Opening Ceremony / Sunday, 16:00 - 18:00 / Great Hall Q2

Start building your networks early at the Opening Ceremony and Welcome Reception. The IWA World Water Congress & Exhibition Opening Ceremony is a must see event. With water at the heart of the new Sustainable Development Goals, the opening ceremony aims to inspire and inform the critical debates that will take place over the week of the Congress.

The Opening Ceremony will begin with a special message of welcome from the Government of Australia.



Master of Ceremonies



Robyn Williams
Renowned science journalist and broadcaster

Robyn is a science journalist and presenter of Radio National's Ockham's Razor and The Science Show, one of the longest running programs on Australian radio. A fascinating and engaging presenter, he became the first journalist elected as a Fellow of the Australian Academy of Science. He is a Visiting Professor at the University of NSW and an Adjunct Professor at the University of Queensland.

Keynote Speakers



Gunter Pauli
Author, The Blue Economy, Founder the ZERI think tank, chairman of the board of Novamont (Switzerland)

Starting his career as an entrepreneur, Gunter Pauli set out on a mission to ensure that business would become a vehicle in society's capacity to respond to its own urgent needs. He combines creative solutions with action on the ground. Currently with over \$4billion invested in +200 projects his teams have demonstrated a capacity to translate vision into reality. He has published 16 books in over 30 languages. His next book, published this year, is **From Deep Ecology to Blue Economy: 21 Principles of the New Business Model**.



Catarina de Albuquerque
Sanitation and Water for All Executive Chair, winner of IWA Global Water Award 2016 (Portugal)

The driving force behind the recognition of the Human Rights to Water and Sanitation. Catarina became the first UN Special Rapporteur on the right to safe drinking water and sanitation, having played a pivotal role in the recognition of water and sanitation as human rights by the UN General Assembly.

IWA Leadership Awards

The IWA Global Water Award is one of the water sector's most prestigious prizes. It recognises outstanding achievement, vision, leadership and knowledge in driving change within the water sector.

Global Water Award
Presented to:
Catarina de Albuquerque

Young Water Professionals Award
Presented to:
Rianna Gonzales

Women in Water Award
Presented to:
Rose Christine Kaggwa



Welcome Reception / 18:00 - 19:30 / Plaza Ballroom Foyer

The Welcome Reception is an early opportunity to connect with other water sector professionals and discuss current trends, latest research, guiding strategies and leading practice in a relaxed and informal environment.

IT'S LIVE!
in Queensland

SEE AUSTRALIA'S BEST LIVE EVENTS IN AUSTRALIA'S BEST DESTINATIONS



queensland.com/events



Monday Spotlight

Plenary Session / 09:00 - 09:45 / Great Hall Q2

Water and the future we want - how water can contribute to achieving the global Sustainable Development Goals



John Thwaites
Professorial Fellow,
Chair Monash
Sustainability Institute
and Melbourne
Water (Australia)

Introduced by Paul Greenfield
President World Water Congress & Exhibition

Moderator: Tom Williams, IWA

Panel members:

- Marie-Ange Debon (Suez Environment, FR)
- Steve Leung (Xylem, CH)
- Anders Baeckgaard (VCS, DK) (tbc)

Plenary Session / 17:15 - 18:00 / Great Hall Q2

Ending extreme poverty, what do the SDGs mean for access to water, sanitation and hygiene



Barbara Frost
Chief Executive
Water Aid,
(United Kingdom)

Introduced by Jaime Baptista (LNEC, PT)

Moderator: Mark Pascoe (International Water Centre, AU)

Panel members:

- Kumar Renganathan (Millennium Challenge Corporation, US)
- Arlinda Ibrahimllari (Korça Water Works Utility, AL)

Water Scarcity and Drought Summit / 10.30 - 17.00 / Sky Room

Building resilience to drought and scarcity requires global leadership. We have an unprecedented opportunity to act on water scarcity and drought at the world's first multi-stakeholder Water Scarcity and Drought Summit 2016.



Forums, Learning Sessions & Poster Reception

Regulators Forum / 10.30 - 17.00

Room S1

The Forum provides examples, tools and instruments to build resiliency into regulatory frameworks ensuring that inter-dependent regulatory outcomes, such as safeguarding public health and financial viability of services, are not compromised with customers' needs and expectations.

Soft Skill Learning Session / 13.30 - 15.00

IWA Career Development Hub, Great Hall Q2

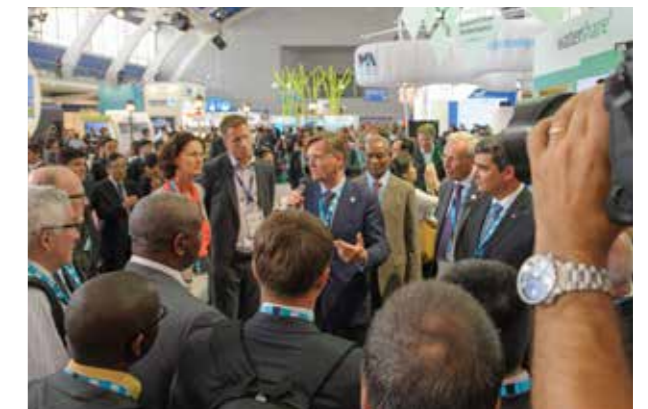
The Curious Power of Story: How to Win Friends, Persuade Heroes, and Influence Outcomes With Narrative with James Workman, Editor of *The Source* magazine

Poster Session & Reception / 18:00 - 19:30

Exhibition Foyer,

Brisbane Convention & Exhibition Centre

An exciting opportunity to have a special preview of the IWA World Water Congress Poster Presentations. Meet, connect and network with the presenters as they explain their work and have your questions answered in person. Drinks will be served.



IWA World Water Exhibition / 09:00 - 18:00

Exhibition Hall 1

Join the world's leading companies working in sustainable water management. The IWA World Water Exhibition is a one-stop-shop where you can connect and do business with the leading industry and technology providers.

Programme

Monday

Keynote Plenary 09:00 - 09:45

Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals
John Thwaites

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

WATER SCARCITY AND DROUGHT SUMMIT

Sky Room Forum

Building resilience to drought and scarcity requires global leadership. We have an unprecedented opportunity to act on water scarcity and drought at the world's first multi-stakeholder Water Scarcity & Drought Summit 2016. The Summit will engage and challenge 200 leaders from the private and the public sector including ministers, business leaders, scientists and civil society on new ways of collaboration between countries, industries and sectors to address water scarcity and drought.

WATER REGULATORS FORUM

Room S1 Forum

Master of Ceremonies: **Seamus Parker** *Queensland Treasury Corporation, AU*
Regulatory and Enforcement regimes for future quality service
Chair: **David Cunliffe** *South Australia Department of Health, AU*
The session will explore why economic regulatory frameworks, enforcement regimes and better asset management practices are needed to encourage long-term infrastructure resilience to services running. It also looks at the tools being used to deal with financial challenges, incentives for non-infrastructure solutions, tariff design and value sharing infrastructure investments. The session will open with **Helmut Kroiss** (IWA President) and be followed by presentations and roundtable discussions led by **Maria Sonabel S. Anarna** (Department of Health, PH); **Alan Sutherland** (Water Industry Commission for Scotland, UK); **Dan Spiller** (Seqwater, AU); **Pranav S. Joshi** (National Environment Agency, SG); concluding with an open plenary discussion and key messages for resilient cities and water systems at large.

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

WATER SCARCITY AND DROUGHT SUMMIT

Sky Room Forum

Building resilience to drought and scarcity requires global leadership. We have an unprecedented opportunity to act on water scarcity and drought at the world's first multi-stakeholder Water Scarcity & Drought Summit 2016. The Summit will engage and challenge 200 leaders from the private and the public sector including ministers, business leaders, scientists and civil society on new ways of collaboration between countries, industries and sectors to address water scarcity and drought.

WATER REGULATORS FORUM

Room S1 Forum

Balancing resilience while ensuring affordable services
Chair: **Darryl Day** *Northern Territory Water Directorate, AU*
Mitigation measures and environmental regulations are increasing costs and challenging sustainable, reliable services, as well as public trust. Connecting regulations for drinking water and sanitation, and those for environmental safeguarding of water sources is needed, but building resilience cannot become an obstacle to the progressive realization of these human rights. The session commences with **Hon. Mlungisi Johnson** (Chairperson of Portfolio Committee on Water and Sanitation, Parliament of the Republic of South Africa, SA), and continue with presentations and roundtable discussions led by **David Johnston** (Queensland Treasury Corporation, AU); **Richard Khaldi** (OFWAT, UK); **Alberto Biancardi** (AEEGSI, IT and WAREG); Peter Njaggah (WASREB, KE); concluding with an open plenary discussion.

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

WATER SCARCITY AND DROUGHT SUMMIT

Sky Room Forum

Building resilience to drought and scarcity requires global leadership. We have an unprecedented opportunity to act on water scarcity and drought at the world's first multi-stakeholder Water Scarcity & Drought Summit 2016. The Summit will engage and challenge 200 leaders from the private and the public sector including ministers, business leaders, scientists and civil society on new ways of collaboration between countries, industries and sectors to address water scarcity and drought.

WATER REGULATORS FORUM

Room S1 Forum

Governance for sustainable urban environments
Chair: **Jaime Baptista** *National Laboratory of Civil Engineering, PT*
This session will review different approaches taken at various governance levels to build resilience in their systems, the gaps and the opportunities with other sectors and stakeholders. The session commences with **Paulo Marcelo** (ERSAR, PT), and continue with presentations and roundtable discussions led by **Kelvin Chitumbo** (NWASCO, ZM and ESAWAS); **Kevin Parks** (Alberta Energy Regulator, CA); **Kazuhisa Matsuda** (Ministry of Health, Labour and Welfare, JP); **Zelmira Mackova** (Ministry of Agriculture, CZ); concluding with an open plenary discussion and key messages for resilient cities and water systems at large. The day will conclude with a closing panel and closed by **Diane D'Arras** (IWA President Elect).

Break 17:00 - 17:15

Keynote Plenary 17:15 - 18:00

Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene
Barbara Frost

Great Hall Q2

Programme

Monday

Keynote Plenary 09:00 - 09:45

Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals
John Thwaites

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

BIOSOLIDS

Room GHQ2 Technical

Chair: **Richard Tsang** *CDM Smith Inc., NL*
10:30 Introduction
10:35 Dewatering Optimization With In-Line And Real-Time Measurement Of Polymer Dose: Results From Full-Scale Treatment Plants **Banu Ormeci**, *Carleton University (CA)*
10:55 Carbon Footprint Analysis Of Biosolids Disposal In The United States **Daniel Nolasco**, *NOLASCO y Asociados S.A. (US)*
11:15 Future Proof Decentralised Sludge Recycling: Pyreg **Bert Geraats**, *Eliquo Water & Energy B.V. (NL)*
11:35 Free Nitrous Acid Pre-treatment Enhances Degradation Of Anaerobically Digested Sludge In Post Aerobic Digestion **Qilin Wang**, *The University of Queensland (AU)*
11:55 Closing summary

TECHNOLOGY FOR ENERGY EFFICIENCY

Room M1 Technical

Chair: **Stuart White** *Institute for Sustainable Futures, AU*
10:30 Introduction
10:35 A Key Issue In Developing Constructed Wetland-Microbial Fuel Cell (CW-MFC): Is The Separator Necessity? **Yaqian Zhao**, *University College Dublin, Ireland (IE)*
10:55 Inducing Biomass Granulation To Achieve Improved Settability In Biological Nutrient Removal (BNR) Processes **Julian Sandino**, *CH2M (US)*
11:15 Energy Efficiency At Belgian Demo Cases Within The EU-project R3water **Marjoleine Weemaes**, *Aqualin nv (BE)*
11:35 Smouldering: A Revolutionary Approach To Sludge Management **Ilje Pikaar**, *The School of Civil Engineering, The University of Queensland (AU)*
11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

ACTIVATED SLUDGE PROCESSES

Room GHQ2 Technical

Chair: **Guoren Xu** *Harbin Institute of Technology, CN*
13:30 Introduction
13:35 Influence Of Silver Nanoparticles On Nutrient Removal And Microbial Communities In SBR Process At Long-term Exposure **Yujie Feng**, *Harbin Institute of Technology (CN)*
13:55 Effect Of Foam On Temperature Prediction And Heat Recovery Potential From Biological Wastewater Treatment **Eveline Volcke**, *Ghent University, BE*
14:15 Primary Treatment To Optimize Secondary Biological Processes And Anaerobic Digestion **Dang Ho**, *Trojan Technologies (CA)*
14:35 Proliferation Of Legionella Pneumophila In Activated Sludge Systems: Stimulating Factors And Control Strategies **Regina Nogueira**, *Leibniz Universität Hannover (DE)*
14:55 Closing summary

ENERGY EFFICIENT INTEGRATED PLANT DESIGN

Room M1 Technical

Chair: **Nobert Jardin** *Ruhrverband, DE*
13:30 Introduction
13:35 From Wastewater To Bioenergy: Reaching Energy Self-sufficiency In WWTPs **Zouhayr Arbib**, *FCC aqualia (ES)*
13:55 Rebuilding a WWTP into a Circular Economy **Theis Gadegaard**, *Krüger A/S (DK)*
14:15 Management Tool To Assess, Benchmark And Support Energy Efficiency Actions In More Than 800 WWTP **Nuno Brôco**, *AdP Serviços (PT)*
14:35 Evaluating Environmental Performance Of Operational Strategies At WWTPs **Magnus Arnell**, *SP Technical Research Institute of Sweden (SE)*
14:55 Closing summary

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

MEMBRANE BIOREACTORS

Room GHQ2 Technical

Chair: **Roger Ben Aim** *Ifts, FR*
15:30 Introduction
15:35 Soluble Microbial Products (SMPs) In A Submerged Anaerobic Membrane Bioreactor (SAMBR) Under Transient Load Conditions **David Stuckey**, *NTU, Singapore (SG)*
15:55 Cell Entrapment As An Effective Way To Reduce Fouling In Membrane Bioreactor **Chaipon Juntawang**, *North Dakota State University (US)*
The Research Activities Behind The Australian Validation Guidelines Of Membrane Bioreactors Used For Water Recycling **Pierre Le-Clech**, *UNSW Australia (AU)*
16:15 Can Bio-entrapped Marine Sediment Membrane Bioreactor Improve The Treatment Of High Saline Pharmaceutical Wastewater? **How Yong Ng**, *National University of Singapore (SG)*
16:35 Closing summary

CARBON RECOVERY FROM WATER

Room M1 Workshop

Chairs: **Willy Verstraete** *Ghent University, BE*
Olaf van der Kolk *Aquamaterials, NL*
Can carbon recovery from water become a model for the whole water sector?
Exploring academic, utility, and technology provider experiences and approaches to carbon recovery, this workshop looks at technical issues, but also social, economic, market and other external factors influencing the successful uptake of innovative solutions. The speakers Marc Caligaris (SUEZ, FR); Chris Hertle (GHD, AU), Paul Jensen (University of Queensland, AU); Xiaohu Dai (National Engineering Research Center for Urban Pollution Control, CN); Nuno Brôco (Águas de Portugal Serviços, PT) will highlight inspiring success stories of value retention beyond carbon to energy within the water sector. Their insights on the 'roadmap' ahead will set up an interactive discussion to identify 'out of the box' solutions.

Break 17:00 - 17:15

Keynote Plenary 17:15 - 18:00

Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene
Barbara Frost

Great Hall Q2

Programme

Monday

Keynote Plenary	09:00 - 09:45		
Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals <i>John Thwaites</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
DRINKING WATER I: NANOFILTRATION	Room M2 Technical	CLIMATE CHANGE: ADAPTATION AND RESILIENCE	Room M3 Technical
Chair: Josef Klingner <i>TZW, DE</i>		Chair: Ioannis Alexiou <i>Scientists International, UK</i>	
10:30 Introduction		10:30 Introduction	
10:35 Production Of Biostable And Taste & Odor Free Drinking Water - A Multi-barrier Concept Pilot Testing In Singapore <i>Louis Wiert, Xylem Services GmbH (DE)</i>		10:35 An Interdisciplinary Approach To Identify Adaptation Strategies That Enhance Flood Resilience And Urban Liveability <i>Briony Rogers, Monash University (AU)</i>	
10:55 Office Building Drinking Water Microbiome Characterization By DNA- And RNA-based Methods <i>Jenni Inkinen, Aalto University (FI)</i>		10:55 Cities: Survival Of The Resilient <i>John Batten, Arcadis (US)</i>	
11:15 Simulation Of NOM Events In Pilot Plant Evaluation Of DAF/Ozone/BAC For Drinking Water Treatment <i>Yaode Yan, Hunter H2O Holdings Pty Limited (AU)</i>		11:15 Building A Flood Resilient Brisbane <i>Mark Tinnion, Brisbane City Council (AU)</i>	
11:35 Investigation Into The Potential For Introducing Granular Activated Carbon Treatment When Updating Purification Plants <i>Taro Watanabe, Yokohama Waterworks Bureau (JP)</i>		11:35 Joint Efforts To Create The Waterproof Recipe For Climate Adaptation In An Existing Urban Area <i>Gerda Hald, VCS Denmark (DK)</i>	
11:55 Closing summary		11:55 Closing summary	
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
DRINKING WATER II: PHYSICAL PROCESSES	Room M2 Technical	TARGETING AND MEASURING RESILIENCE IN WATER SERVICE	Room M3 Workshop
Chair: Marco Sheurer <i>TZW, DE</i>		Chair: Francisco Cubillo <i>Canal de Isabel II Gestión, ES</i>	
13:30 Introduction		How can alternative water resources enhance resilient planning and management?	
13:35 Rapid And Complete As(III) Oxidation In A Rapid Sand Filter Bed <i>Jink Gude, TU Delft (NL)</i>		Resilience should be accurately defined and quantified. New solutions to guarantee an appropriate supply service and contingency management should be supported by specific goals for resilience and efficiency. Speakers will explore approaches for resilience from different points of view, and then the audience will be invited to participate in reaching a redefinition of the new opportunities to implement resilience assessments in planning and management practices. Presentations by <i>Helena Alegre</i> (LNEC, PT); <i>Greg Claydon</i> (Western Australian Government, AU); <i>Francisco Cubillo</i> (Canal de Isabel II Gestión, ES); <i>Mary Anne Dickinson</i> (Alliance for Water Efficiency, US); <i>Patricia Gómez</i> (Canal de Isabel II Gestión, ES); <i>Mooyoung Han</i> (Seoul National University, KR); <i>Roland Liemberger</i> (Miya, AT); <i>Xiaochang C. Wang</i> (Xi'an University of Architecture & Technology, CN); <i>Stuart White</i> (Institute for Sustainable Futures, AU)	
13:55 Optimizing Nitrification In Biological Rapid Sand Filters For Drinking Water Production <i>Hans-Jørgen Albrechtsen, Technical University of Denmark, (DK)</i>			
14:15 Optimisation Of Conventional Groundwater Treatment Systems For Achieving <1 µg/L Effluent Arsenic Concentration: Tips And Tricks From The Netherlands <i>Arslan Ahmad, KWR Water Cycle Research Institute (NL)</i>			
14:35 An Integrated System Approach To Operating Australia's First Iron And Manganese Removal Biological Treatment Plant <i>Eric Vanweydeveld, Power and Water Corporation (AU)</i>			
14:55 Closing summary			
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
DRINKING WATER III: PHYSICAL BIOSOLID TREATMENT	Room M2 Technical	DROUGHT RESILIENT WATER MANAGEMENT	Room M3 Workshop
Chair: Guoren Xu <i>Harbin Institute of Technology, CN</i>		Chair: Raúl Glotzbach <i>IWA</i>	
15:30 Introduction		Flood and drought management across scales, what is the road to resilience?	
15:35 A Nitrosamines Survey In Drinking Water Systems Around China <i>Chao Chen, Tsinghua University (CN)</i>		How are current planning practices and tools used to ensure drought resilient? Can they be improved? Drought is a critical issue for integrated water resources management. Decision Support Systems for drought planning and management give decision makers an effective, systematic means of assessing current and future drought conditions, developing mitigation and response options to minimize economic stress, environmental losses, and social hardship. The workshop includes presentations from <i>Paul Belz</i> (QUU, AU), <i>Dr. Sutat Weesakul</i> (HAIL, TH), and <i>David Dreverman</i> (Murray-Darling Basin Authority, AU), discussing how current planning practices and tools are used to ensure drought resilient solutions. The workshop concludes with a discussion with the audience on improving drought management in the future.	
15:55 Proposition Of A Water Treatment Plant Quality Index Basing On The Fuzzy Logic <i>Marcelo Libanio, Federal University of Minas Gerais (BR)</i>			
16:15 Autonomous Intake Selection Optimisation Model For A Dual Source Drinking Water Treatment Plant <i>Edoardo Bertone, Griffith University (AU)</i>			
16:35 THM And HAA Formation From NOM In Raw And Treated Surface Waters <i>Dan Golea, Cranfield University (UK)</i>			
16:55 Closing summary			
Break	17:00 - 17:15		
Keynote Plenary	17:15 - 18:00		
Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene <i>Barbara Frost</i>		Great Hall Q2	

Programme

Monday

		Track 1: Cities, Utilities & Industries Leading Change	
		Track 2: Water & Wastewater Processes & Treatments	
		Track 3: Re-charting the Course of Water Resources	
		Track 4: Enabling Progress	
		Track 5: Water Quality, Safety & Human Health	
Keynote Plenary	09:00 - 09:45		
Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals <i>John Thwaites</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
TRANSITION TO SUSTAINABLE CITIES OF THE FUTURE I	Room M4 Technical	WATER AND WASTE MANAGEMENT IN AGROINDUSTRIES	Room M9 Technical
Chair: Günter Hauber-Davidson <i>Water Group, AU</i>		Chair: Therese Flapper <i>ARUP, AU</i>	
10:30 Introduction		10:30 Introduction	
10:35 The Climate Laboratory In Middelfart -- Urban Development By Climate Adaptation In Denmark <i>Allan Bruus, Middelfart Wastewater Utility (DK)</i>		10:35 What Happened To Antibiotic Resistance Genes During Anaerobic Co-digestion Of Food Waste And Sewage Sludge Based On Microwave Pretreatment? <i>Yuansong Wei, Chinese academy of sciences (CN)</i>	
10:55 Beyond Benchmarking: A Water Sensitive Cities Index <i>Chris Chesterfield, Cooperative Research Centre for Water Sensitive Cities (AU)</i>		10:55 Multi-phase Distribution Of Polycyclic Aromatic Hydrocarbons (PAHs) In The Songhua River, Northeastern China <i>Fansheng Meng, Chinese Research Academy of Environmental Sciences (CN)</i>	
11:15 The Location Choice Of Water Sensitive Urban Design Within A City: A Case Study Of Melbourne <i>Martijn Kuller, Monash University (AU)</i>		11:15 Pressure Assisted Forward Osmosis For Treating Reverse Osmosis Concentrate From Water Reclamation Plant <i>Shahzad Jamil, University of Technology Sydney (AU)</i>	
11:35 Rainwater Harvesting In Australia For Water Supply And Urban Stream Restoration <i>Benjamin Taylor, CQUniversity (AU)</i>		11:35 Beneficial Use Of Coal Seam Water For Agriculture In Queensland, Australia <i>David Monckton, University of Queensland (AU)</i>	
11:55 Closing summary		11:55 Closing summary	
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
TRANSITION TO SUSTAINABLE CITIES OF THE FUTURE II	Room M4 Technical	ADVANCES IN THE SUPPLY CHAIN, ENVIRONMENTAL AND INDUSTRIAL BIOTECHNOLOGY I	Room M9 Technical
Chair: Günter Hauber-Davidson <i>Water Group, AU</i>		Chair: Ioannis Alexiou <i>Scientists International, UK</i>	
13:30 Introduction		13:30 Introduction	
13:35 Transforming Stony Creek: Delivering Livability In Melbourne <i>Dan O'Halloran, Alluvium (AU)</i>		13:35 A Holistic Approach To Water Supply Network Operation - Using Desalination To Improve Cost Efficiency <i>Amelia Jewell, Seqwater (AU)</i>	
13:55 Whether South-to-North Water Diversion Project Is A Sustainable Choice To Resolve Water Shortage In Northern China <i>Xiong Wei, Hohai University (CN)</i>		13:55 The Improvement Of The Supply Chain Performance Of The Société Wallonne Des Eaux Leads To Optimised Operational Cost Control <i>Philippe Boury, La Société wallonne des eaux (BE)</i>	
14:15 An Economic Model To Identify The Economic And Lifestyle Benefits That Brisbane Derives From Its Creeks, River And Bay <i>Greg Tucker, Brisbane City Council (AU)</i>		14:15 Benefits Of Implementing Water Safety Plans In A High Resource Setting Such As The Netherlands <i>Ans Versteegh, RIVM (NL)</i>	
14:35 How Has Urban Metabolism Been Interpreted And Communicated? <i>Suzanne King, NIA (US)</i>		14:35 Distribution Of Microbes Among Different Phases In An Unchlorinated Drinking Water Distribution System <i>Gang Liu, Tu Delft / Oasen DrinkWater (NL)</i>	
14:55 Closing summary		14:55 Closing summary	
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
WATER SENSITIVE URBAN INFRASTRUCTURES	Room M4 Technical	ADVANCES IN THE SUPPLY CHAIN, ENVIRONMENTAL AND INDUSTRIAL BIOTECHNOLOGY II	Room M9 Technical
Chair: Rob Skinner <i>Monash University, AU</i>		Chair: Ana Lahnam <i>University of BATH, UK</i>	
15:30 Introduction		15:30 Introduction	
15:35 Application Of Low Impact Stormwater Mitigation Techniques In Adapting To Climate Change <i>Marla Maniquiz-Redillas, Kongju National University (KR)</i>		15:35 Treatment Of Selenite-containing Wastewater With High Salinity By The Activated Sludge Process <i>Satoshi Soda, Osaka University (JP)</i>	
15:55 Urban Landscape Infrastructure Design In Water Sensitive Cities <i>Taneha Kuzniecowa Bacchin, TU Delft (NL)</i>		15:55 Assessing The Impact Of Water Treatments On Microbial Ecology In Pilot Drinking Water Distribution Systems <i>Gang Liu, Delft University of Technology/Oasen DrinkWater (NL)</i>	
16:15 Aura, The City Of Colour - Australia's Shining Example Of Widescale Integrated Water Cycle Management <i>Tony Mcalister, Water Technology (AU)</i>		16:15 Global Perspectives On Activated Sludge Community Composition Analyzed Using 16S RRNA Amplicon Sequencing <i>Marta Nierychlo, Aalborg University (DK)</i>	
16:35 A Selection Of Innovative Watercycle Management Projects In Brisbane <i>Alan Hoban, Bligh Tanner (AU)</i>		16:35 Treatment Of Wastewater By Pond Technology Using Granular Sludge <i>Rania Hamza, University of Calgary (CA)</i>	
16:55 Closing summary		16:55 Closing summary	
Break	17:00 - 17:15		
Keynote Plenary	17:15 - 18:00		
Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene <i>Barbara Frost</i>		Great Hall Q2	

Programme

Monday

Keynote Plenary 09:00 - 09:45

Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals
John Thwaites

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

RESOURCE EFFICIENCY

Chair: **Stanley Liphdazi** *WRC, ZM*

Room M0
Technical

DRINKING WATER QUALITY AND HEALTH

Chair: **Hamanth Kasan** *Rand Water, ZM*

Room P1
Technical

- 10:30 Introduction
- 10:35 Comparison Of Struvite And Hydroxyapatite Precipitation For Phosphate Removal In Wastewater From Potato And Vegetable In *Boudewijn Meesschaert, KU Leuven (BE)*
- 10:55 Performance Of Anammox On Anaerobically Pre-treated Sewage: A Pilot Study On The Influence Of The Pretreatment *Maxime Rattier, The University of Queensland (AU)*
- 11:15 The Role Of Water In The Hydrogen Economy *Frank Oesterholt, KWR Watercycle Research Institute (NL)*
- 11:35 Macro-scale Urban Hydrological Performance Indicators *Marguerite Renouf, University of Queensland (AU)*
- 11:55 Closing summary

- 10:30 Introduction
- 10:35 GISMOWA - GIS Assisted Monitoring Of Drinking Water Quality *Martin Rygaard, Technical University of Denmark (DK)*
- 10:55 Enhancing Biological Stability Of Drinking Water By Using Membrane Filtration As A Post-treatment Step *Bert van der Wal, Evides (NL)*
- 11:15 Evaluating The Chemical Stability In Drinking Water Distribution System By Corrosivity And Precipitation Potential *Baoyou Shi, Chinese Academy of Sciences (CN)*
- 11:35 High-Efficient And Green Phosphate Scavengers For Phosphorus-Starvation Antibacteria *Jiaojie He, State Key Laboratory of Urban Water Resource and Environment (SKLUWRE) (CN)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

WATER AND WASTE MANAGEMENT IN CHEMICALS AND PHARMACEUTICALS I

Chair: **Jiangyong Hu** *National University of Singapore, SG*

Room M0
Technical

DRINKING WATER & CHEMICAL RISK ASSESSMENT

Chair: **Hamanth Kasan** *Rand Water, ZM*

Room P1
Technical

- 13:30 Introduction
- 13:35 Evaluation Of Resource Recovery Potential From Industrial Wastewaters *Bruce Jefferson, Cranfield University (UK)*
- 13:55 Coupling Of MgO/Pd0 Mediated Reduction And Bacterial Oxidation For Detoxification Of Endosulfan *Sumathi Suresh, Indian Institute of Technology Bombay (IN)*
- 14:15 Distribution Of Pharmaceutically Active Compounds In Clinical Wastewater From Hospital Effluent In Japan *Takashi Azuma, Osaka University of Pharmaceutical Sciences (JP)*
- 14:35 Quantification Of Flame Retardants From Environmental Samples And Evaluation Of Its Effect On Zebrafish By Metabolomics *Ryan De Sotta, Korea University (KR)*
- 14:55 Closing summary

- 13:30 Introduction
- 13:35 Formation Of Toxic Iodinated Moieties From Degradation Of Iodinated Contrast Media By Combination Of UV And Chlorinated *Sebastien Allard, Curtin University (AU)*
- 13:55 Investigating Mechanism Underlying Removal Of Trichloramine With Super-powdered Activated Carbon *Miki Sakuma, National Institute of Technology, Kisarazu Colledge (JP)*
- 14:15 Reframing Risk: A New Method For Identifying Improvement Through Control And Threat Analysis *Shona Fitzgerald, Sydney Water (AU)*
- 14:35 Bow Tie Analysis In The Water Industry *Annalisa Contos, Atom Consulting (AU)*
- 14:55 Closing summary

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

WATER AND WASTE MANAGEMENT IN CHEMICALS AND PHARMACEUTICALS II

Chair: **Bruce Jefferson** *Cranfield University, UK*

Room M0
Technical

DIFFUSE POLLUTION AND CYANOBACTERIAL BLOOMS

Chair: **Mi-Hyun Park** *UMassAmherst, US*

Room P1
Technical

- 15:30 Introduction
- 15:35 Accelerated Establishment Of Biocathode By Polarity Inversion For Efficient Degradation Of Nitrobenzene And Azo Dye AO7 *Hui Yun, Chinese Academy of Sciences (CN)*
- 15:55 Optimization Of Cost By HRT For Membrane Bioreactor (MBR) Treating Antibiotic Production Wastewater *Dawei Yu, Chinese Academy of Sciences (CN)*
- 16:15 In-sewer Biotransformation Of Common Pharmaceuticals *Ludwika Nieradzki, The University of Queensland (AU)*
- 16:35 Simulating Pesticides In Urban Runoff: Model Development And Evaluation *Ting Tang, Vrije Universiteit Brussel (VUB) (BE)*
- 16:55 Closing summary

- 15:30 Introduction
- 15:35 Toxic Cyanobacteria In Source Water: A Global Treatment Challenge *Arash Zamyadi, University of New South Wales (AU)*
- 15:55 Monitoring, Predicting, Preventing And Controlling Of (toxic) Cyanobacteria Blooms In Lakes And Reservoirs *Lisa Brand, LG SONIC (NL)*
- 16:15 Probabilistic Fugacity Modelling Of Cyanobacterial Toxins In A Drinking Water Reservoir *Stuart Khan, University of New South Wales (AU)*
- 16:35 A Pollution Source Assessment Tool For Sydney's Drinking Water Catchments *Ben Scott, WaterNSW (AU)*
- 16:55 Closing summary

Break 17:00 - 17:15

Keynote Plenary 17:15 - 18:00

Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene
Barbara Frost

Great Hall Q2

Programme

Monday

Keynote Plenary 09:00 - 09:45

Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals
John Thwaites

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

PUTTING THE COMMUNITY AT THE CENTRE OF DECISION MAKING

Chair: **Alan Hoban** *Bligh Tanner, Australia*

Room P2
Workshop

CLIMATE CHANGE, FLOODS AND DROUGHTS ON WATERSHED SCALE I

Chair: **John Riddiford** *John Riddiford & Associates, AU*

Room P3
Technical

Citizens Juries – can (and should) water professionals trust the community to make good water management decisions?

Water professionals are increasingly being asked to listen to what the community wants, and many utilities are moving to 'customer-led' strategies. Some cities are using participatory democracy approaches such as citizens' juries to make decisions about everything from capital budget programs to waste management strategies. How effective have these programs been? Should they be used in decision making about water planning? What impact does this have on the role of the water expert? The workshop will provide an overview of participatory decision making strategies; examine the shift to a customer focus in water utilities; consider benefits and challenges of applying these practices. Speakers include *Professor Kelly Fielding* (University of Queensland, AU).

- 10:30 Introduction
- 10:35 An evidence based approach to a national climate change adaptation policy for water - implementation and progress *Trevor Bishop, United Kingdom Environment Agency (UK)*
- 10:55 Managing the worst drought in 100 years for London and the SE England - lessons for the future in an unstable climate *Trevor Bishop, United Kingdom Environment Agency (UK)*
- 11:15 Dry And Wet Spell Durations Of Daily Rainfall Analysis For Jeddah City, Western Saudi Arabia *Ali Subyani, King Abdulaziz University (SA)*
- 11:35 Strategies To Address The Impacts Of Climate Change On Water Resources -- Lessons From Western Australia *Greg Claydon, Department of Water, Western Australia (AU)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

BUILDING CLIMATE RESILIENCE IN COASTAL AREAS (PEARL)

Chairs: **Zoran Vojinovic** *UNESCO-IHE*
Pritha Hariram *IWA*

Room P2
Workshop

CLIMATE CHANGE, FLOODS AND DROUGHTS ON WATERSHED SCALE II

Chair: **John Riddiford** *John Riddiford & Associates, AU*

Room P3
Technical

How do we improve resilience to disaster for coastal regions?
Carefully planned and implemented adaptative risk management strategies are a valuable way of reducing disaster risk, while protecting socio-economic and environmental assets by using a holistic approach. This workshop will share experiences and knowledge from the PEARL project (Preparing for Extreme And Rare events in coastal regions) that better inform management and policy frameworks. Roundtable discussions will provide an opportunity to identify common ground on the perception of extreme events to guide the planning and preparedness; and show how resilience measures can be applied effectively in coastal communities to address the cascading effects of floods. These discussions will be initiated by presentations from *Prof. Zoran Vojinovic* (UNESCO-IHE), *Prof. Christos Makropoulos* (NTUA, Greece) and *Dr. Sutat Weesakul* (Hydro and Agro Informatics Institute, TH)

- 13:30 Introduction
- 13:35 Adapting To A Changing Climate - A Best Practice Guideline For The Australian Water Industry *Nicola Nelson, WaterNSW (AU)*
- 13:55 Adapting To A Changing Climate - A Best Practice Guideline For The Australian Water Industry *Nicola Nelson, WaterNSW (AU)*
- 14:15 Adaptive Management Of Water Supplies And Dams *Richard Priman, Department of Energy and Water Supply (AU)*
- 14:35 How To Manage Flood Risk And Prepare The Country For Flood? *Krzysztof Kutek, Arcadis (PL)*
- 14:55 Closing summary

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

QUANTITATIVE MICROBIOLOGICAL RISK ASSESSMENT FOR SAFE WATER (RE)USE

Chair: **Gertjan Medema** *KWR, NL*

Room P2
Workshop

WATER QUALITY RESTORATION

Chair: **Anik Bhaduri** *Griffith University, AU*

Room P3
Technical

How does QMRA support water safety management?
QMRA is embedded in the water guidelines of the WHO and of several countries. This workshop will review experiences with applying QMRA, discuss strengths and limitations, best practices and next steps to better support water safety management. To set the scene, *Susan Petterson* (Water & Health, AU), discusses lessons learned when applying QMRA from the WHO perspective; *Jean Francois Loret* (Suez, FR) discusses the utility perspective; and *David Cunliffe* (Department of Health, AU) addresses the regulatory perspective. Presentations are followed by a facilitated debate between utility and government professionals on how QMRA can be applied today, and to guide the future application and development of the WHO's guidelines.

- 15:30 Introduction
- 15:35 PSI Drentsche Aa: Pesticide Scene Investigation *Theodorus Vlaar, Watercompany Groningen (NL)*
- 15:55 Characteristics Of Adsorption Of Cesium (Cs) In Solution Using Carbonized Rice Hull And Beech Sawdust *Asa Miura, University of Fukui (JP)*
- 16:15 Understanding Pollutant Generation To Support Predictions Of Pollutant Hotspots In A Low Intensity Rainfall Climate *Aisling O'Sullivan, University of Canterbury (NZ)*
- 16:35 Retention Of Metals In Various Components Of A Newly Constructed Root-channel Wetland (China) From Source Water *Weidong Wang, Chinese Academy of Sciences (CN)*
- 16:55 Closing summary

Break 17:00 - 17:15

Keynote Plenary 17:15 - 18:00

Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene
Barbara Frost

Great Hall Q2

Programme

Monday

Keynote Plenary 09:00 - 09:45

Water and the Future We Want - How Water Can Contribute to Achieving the Global Sustainable Development Goals
John Thwaites Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

INSTRUMENTATION, CONTROL AND AUTOMATION

Room P4
Technical

Chair: Eveline Voicke Ghent University, BE

- 10:30 Introduction
- 10:35 Potential Use Of Fluorescence To Indicate Physicochemical Properties Of DOM In Water And Wastewater Treatment Systems *Kang Xiao, University of Chinese Academy of Sciences (CN)*
- 10:55 Early Non-destructive Fouling Detection In Spiral-wound RO Membranes Using A Portable Low Magnetic Field NMR *Einar Fridjonsson, University of Western Australia (AU)*
- 11:15 Reagent-free Measurement Of Nitrate, Nitrite And COD In Waste Water Treatment Plants and In The Laboratory *Frank Honold, Xylem - WTW GmbH (DE)*
- 11:35 Clean Water Monitoring (CWM) Project *Pauline Perdaems, SIG / Geneva Water (CH)*
- 11:55 Closing summary

EMERGING TECHNOLOGIES AND INNOVATION

Room P5
Session

Chair: Ignaz Worm Isle Utilities, UK

The Emerging Technologies & Innovation TAG-forum:
Start-up tech companies specially selected to present cutting edge solutions for the topics 'Water reuse to desalination' & 'Smart networks, making them work'. Chair: *Ignaz Worm*, Managing Director Isle Utilities Start up's: Clear Water Science - Memfree: Removes pollutants from water, be *Vivian Robinson*; Emefcy - MABR: Produces electricity directly from the treatment of different types of wastewater, by *Ely Cohen*; Hydro-dis: Water disinfection technique that uses the electrocatalytic break down, by *Mark Carey*

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

WATER AND ENERGY NEXUS

Room P4
Technical

Chair: Enrique Cabrera - Rochera Universitat Politècnica de Valencia, ES

- 13:30 Introduction
- 13:35 Water And Energy Integrated Planning And Capacity Building *Steven Kenway, The University of Queensland (AU)*
- 13:55 Energy Implications Of The Millennium Drought On The Urban Water Cycles In Southeast Australian Cities *Steven Kenway, The University of Queensland (AU)*
- 14:15 Reducing Energy Use For Water Supply To Urban China's High-rises *Kate Smith, Tsinghua University (CN)*
- 14:35 Utilization Of Renewable Energy In Metropolitan Waterworks *Toshihiko Tanaka, Bureau of Waterworks, Tokyo Metropolitan Government (JP)*
- 14:55 Closing summary

DATA AND INFORMATION TECHNOLOGY

Room P5
Technical

Chair: Simon Bunn Suez, NZ

- 13:30 Introduction
- 13:35 Making Australian Groundwater Data Accessible: The Value Of Collaboration *Eloise Nation, Bureau of Meteorology (AU)*
- 13:55 Developing Water Accounts For Australia Using The United Nations System Of Environmental-Economic Accounting (SEEA) *Mark Lound, Australian Bureau of Statistics (AU)*
- 14:15 Updating Australia's Atlas Of Groundwater Dependant Ecosystems *Eloise Nation, Bureau of Meteorology (AU)*
- 14:35 Efforts Of System Optimization Of Information Systems In The Bureau Of Sewerage, Tokyo Metropolitan Government *Kazunori Harada, Tokyo Metropolitan Government (JP)*
- 14:55 Closing summary

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

BIOGAS, CO-DIGESTION AND CO-GENERATION

Room P4
Technical

Chair: Richard Tsang CDM Smith Inc., NL

- 15:30 Introduction
- 15:35 Effects Of Co-digestion On Biogas Quantity And Quality At An Australian Municipal WWTP *Jennifer Dreyfus, Allwater (AU)*
- 15:55 Biogas Upgrading And Methanation Projects Facilitates An Energy Producing WWTP *Dines Thornberg, BIOFOS (DK)*
- 16:15 Effects Of Biomass Addition On Organic Composition Of Supernatant In Sludge Digestion Process *Ryoko Yamamoto-Ikemoto, Kanazawa University (JP)*
- 16:35 Core Fermentative-methanogenic Microbiota Of Biomethane Producing Systems *Yu Tao, Imperial College London (UK)*
- 16:55 Closing summary

MODELLING AND SYSTEMS ANALYSIS

Room P5
Technical

Chair: Peter Vanrolleghem Université Laval, CA

- 15:30 Introduction
- 15:35 Two-phase Flow CFD Simulation Of Hydrodynamics Coupled With Biological Reactions In An Aerated Biological Reactor *Javier Climent, Universitat Jaume I (ES)*
- 15:55 Smoothed Particle Hydrodynamics -- An Innovative Method For Solving Fluid Dynamics Problems In Urban Water Management *Wolfgang Rauch, University of Innsbruck/Unit of Environmental Engineering (AT)*
- 16:15 DAnCE4Water - A Collaborative Decision Support Tool To Test Urban Water Management Strategies *Christian Ulrich, Monash University (AU)*
- 16:35 Integrated Water Distribution System Modelling: Two Case-studies From Poland *Patryk Wójtowicz, Wrocław University of Technology (PL)*
- 16:55 Closing summary

Break 17:00 - 17:15

Keynote Plenary 17:15 - 18:00

Ending Extreme Poverty, What to Do the SDGs Mean for Access to Water, Sanitation and Hygiene
Barbara Frost Great Hall Q2

Programme

Monday

Keynote Plenary 09:00 - 09:45

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

BUILDING LEADERSHIP IN THE WATER SECTOR

Career Development Hub
Learning

Organiser: International WaterCentre
Chair: Dr. Andre Taylor International WaterCentre, AU

How to drive positive change through building leadership capacity in the water sector?

Advancing integrated and innovative solutions in the water sector often involves managing complex or wicked problems. Driving positive change in the sector requires skilled leadership; leadership to influence change, build partnerships, anticipate and plan for change, and also to lead high-performing, cross-boundary and multidisciplinary teams. In this session, the International WaterCentre, with its reputation as a global leader in the design and delivery of leadership development products in the water sector, will provide practical guidance on how to build leadership capacity at an individual, team, organisational and/or regional level.

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

THE CURIOUS POWER OF STORY: HOW TO WIN FRIENDS, PERSUADE HEROES, AND INFLUENCE OUTCOMES WITH NARRATIVE

Career Development Hub
Learning

Organiser: IWA and The Source Magazine
Chair: James Workman The Source Magazine, US

You were trained to write dry, impersonal abstracts for a 3-person peer review panel. Now discover how to reach everyone else. This refreshingly practical workshop will show you how your ideas can draw an audience of tens of thousands. By the end you will grasp the need to create a narrative, write a catchy title, and hook readers on the first sentence, paragraph, and question at the heart of each story. You will be challenged and helped to complete and submit a concise, clear, and compelling blog to IWA for publication in the weeks following the Congress.

Coffee Break 15:00 - 15:30

Break 17:00 - 17:15

Keynote Plenary 17:15 - 18:00

Track 1: Cities, Utilities & Industries Leading Change

Track 2: Water & Wastewater Processes & Treatments

Track 3: Re-charting the Course of Water Resources

Track 4: Enabling Progress

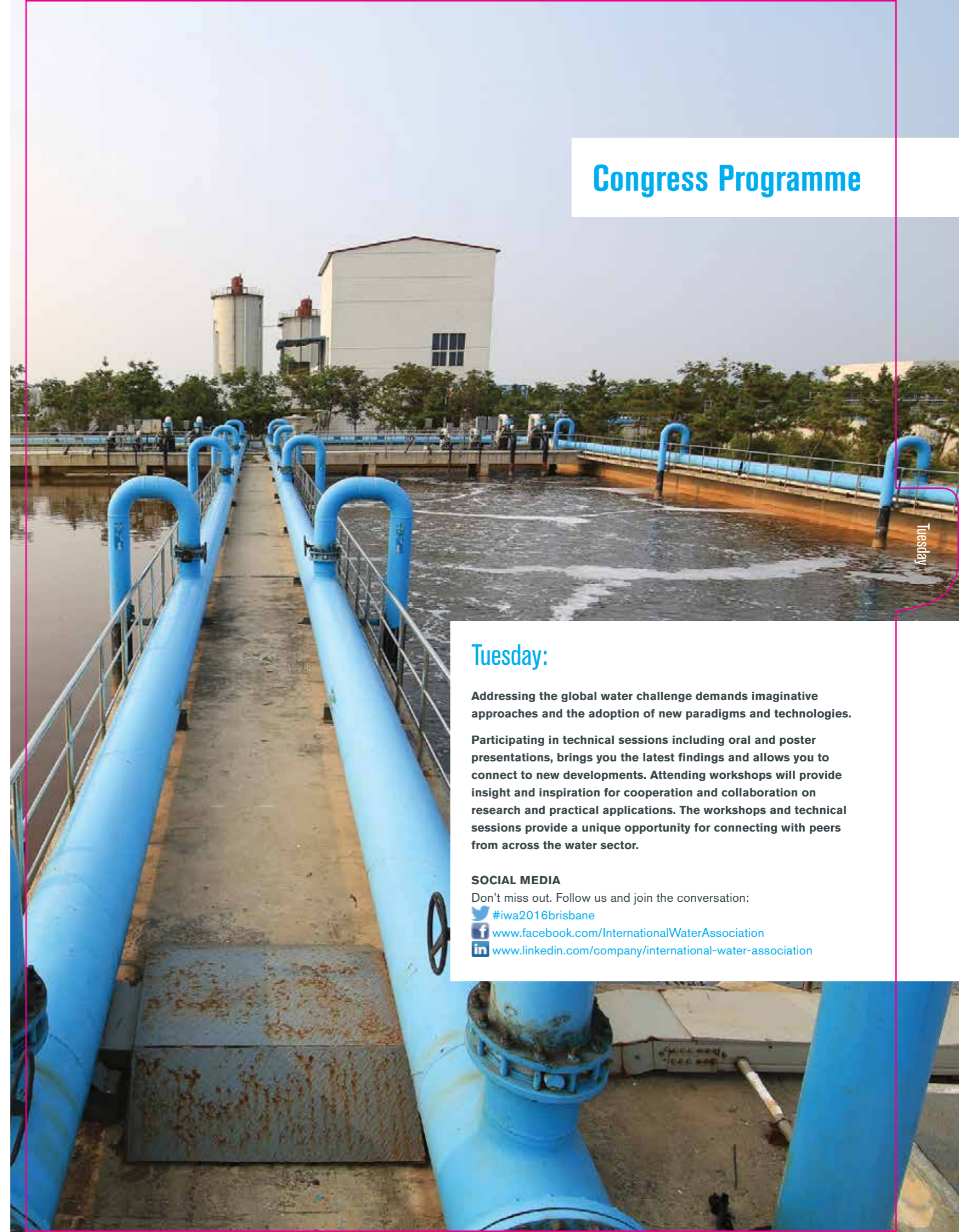
Track 5: Water Quality, Safety & Human Health

Business Forums

Monday

Business Forum Room 1	Business Forum Room 2
<p>10:30 - 11:15 / XYLEM The world's first wastewater pumping system with integrated intelligence; Flygt Concertor. <i>Presented by: Stefan Abelin</i> Customers are asking for more, better, faster and for less cost in wastewater pumping. These challenges can be met by integrating sophisticated power electronics and intelligent software in submersible pumping systems. The result is unprecedented operational flexibility, cutting-edge efficiency, increased reliability, improved asset management and reductions in OpEx and CapEx. Customer pain points, such as system reliability, energy consumption, operational flexibility, footprint, connectivity and lower lifecycle cost can be achieved with integrated intelligence, the ultimate solution for maximum</p>	<p>10:30 - 11:15 / SALT WATER Forecasting treatment plant performance for compliance and optimisation – AqMB Prophet <i>Presented by: Darren Szczepanski</i> AqMB Prophet forecasts events which allows users to fix problems before they occur. The software models upcoming changes in the feed water and predicts impacts to equipment performance and water quality. Prophet can be integrated with your existing SCADA, with an onsite solution behind your firewall where your SCADA can remain disconnected from the internet. The pre-configured plant model is calibrated by artificial neural networks comprised of a limited set of inputs from online instrumentation. Operators can configure thresholds that can trigger an alert or highlight a</p>
<p>11:15 - 13:30 / SUEZ</p>	<p>11:15 - 12:00 / SODECI</p>
<p>12:45 - 13:30 / SUEZ</p>	<p>12:45 - 13:30 / AFRICA PAVILION</p>
<p>13:30 - 14:15 / POTEN ENVIRONMENT GROUP</p>	<p>13:30 - 14:15 / JAPAN PAVILION</p>
<p>14:15 - 15:00 / AUSTRADE</p>	<p>14:15 - 15:00 / UNIVERSITY OF TECHNOLOGY SYDNEY</p>
<p>15:30 - 17:00 / BRISBANE CITY COUNCIL</p>	<p>15:30 - 17:00 / NETHERLANDS-AUSTRALIA COALITION ON CLIMATE EXTREMES</p>

Congress Programme



Tuesday

Tuesday:

Addressing the global water challenge demands imaginative approaches and the adoption of new paradigms and technologies.


Participating in technical sessions including oral and poster presentations, brings you the latest findings and allows you to connect to new developments. Attending workshops will provide insight and inspiration for cooperation and collaboration on research and practical applications. The workshops and technical sessions provide a unique opportunity for connecting with peers from across the water sector.

SOCIAL MEDIA

Don't miss out. Follow us and join the conversation:

 [#iwa2016brisbane](https://twitter.com/iwa2016brisbane)

 www.facebook.com/InternationalWaterAssociation

 www.linkedin.com/company/international-water-association



EXCELLENT TECHNOLOGY DELIVERING ON OUR PROMISE

Business Scope

- 01 Seawater/Brackish Desalination
- 02 Industrial Wastewater Treatment, Reuse and ZLD
- 03 Municipal Wastewater Treatment and Reuse

Who we Are:

We are an integrated corporation with capabilities in membrane research and development, process design, equipment manufacturing, and engineering. Our experience in system integration and engineering applications provides customers with integrated and comprehensive solutions to their water treatment needs.

What We Do:

Our business covers the full spectrum of water treatment including membrane R&D and sales, EPC projects and system optimization/operations. Our market experience includes industrial water treatment and reuse, municipal water supply, advanced sewage treatment and reuse, brackish water and seawater desalination, and zero liquid discharge.

What Is Our Value:

We take great effort to build a world-class advanced treatment technology platform, bringing in the most advanced water treatment technology in the world, promote the development of the local water market, understand the application and practice of leading edge technologies, develop international market for membrane products and technologies, and continuously explore the sustainable development of water resources.



BEIJING SCINOR WATER TECHNOLOGY CO., LTD.
F8, Xueyuan International Tower, Zhichun Road
Haidian District, Beijing, 100083, China.
Tel: 86-10-82330680 Fax: 86-10-82330628
E-mail: info@scinorwater.com Web: www.scinorwater.com

SCINOR WATER AMERICA, LLC
Add: 16 Mallard Cove, Long Beach, New York 11721 USA
Tel: 631-708-9588 Web: www.scinor.com
E-mail: tomposchman@scinorwateramerica.com

BEIJING SCINOR MEMBRANE TECHNOLOGY CO., LTD.
F8, Xueyuan International Tower, 1 Zhichun Road
Haidian District, Beijing, 100083, China.
Tel: 86-10-69756503 Fax: 86-10-69756503
E-mail: info@scinormem.com Web: www.scinormem.com

SCINOR (ASIA) PTE, LTD
Add: 51 Goldhill Plaza #23-11/12, Singapore, 308900
Tel: 6254 0535 Fax: 6254 0531
E-mail: sumedha.loy@scinor.com.sg
Web: www.scinorwater.com www.scinormem.com

Tuesday Spotlight

Plenary Session / 09:00 - 09:45 / Great Hall Q2

ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation



Yasmin Siddiqi
Principal Water
Resources
Specialist, Asian
Development Bank

Introduced by: Jonathan McKeown, (Australian Water Association, AU)

Moderator: Corinne Trommsdorf (IWA) & Rob Skinner (Monash Water and Livability, Monash University, AU)

Panel members:

- Junbiao (David) Ji (Poten, CH)
- Mark Fletcher (Arup, UK)
- Trine Munk (Rambol, DK)

Plenary Session / 17:15 - 18:00 / Great Hall Q2

Oxford Debate: Re-use of wastewater as a drinking water source: technically feasible but socially unacceptable?

Introduced by: Joerg Drewes (Water Re-use Group, DE)

Moderator: Robert Bos (IWA)

We are now technically able to provide tertiary treatment of wastewater so it can be re-used for drinking water directly. It is one of the drastic alternatives that could revolutionize the way water supply is managed. Yet, public perceptions and political motivations put a firm brake on such developments in many instances. Can social acceptance on direct potable re-use be created or engineered?



Forums & Master Lecture

Rainwater Harvesting Lecture / 13:30 - 15:00

Room P5

Mooyoung Han Seoul National University- Korea IWA Rainwater Harvesting and Management Specialist Group Chair

Emerging Water Leaders Forum / 15:30 - 17:00

Sky Room

This forum for all Young Water Professionals (35 and below) is the place to contribute your thoughts, experiences, and ideas to an action agenda for the future water sector.

PEARL Knowledge Base (KB) Platform Demonstration

15.30-17.30, Room M8.

There will be a presentation of the PEARL KB platform and its functionalities, followed by hands-on demonstration. Please bring your own laptop.



IWA World Water Exhibition / 09:00 - 18:00

Exhibition Hall 1

Join the world's leading companies working in sustainable water management. The IWA World Water Exhibition is a one-stop-shop where you can connect and do business with the leading industry and technology providers.

Brisbane Night: Dinner and Fado Show / 19:30 - 22:00

Queensland Gallery of Modern Art, Stanley Place, South Brisbane

Enjoy an unforgettable evening of art, food and networking set in Brisbane's Queensland Gallery of Modern Art Precinct. The Queensland Art Gallery | Gallery of Modern Art (QAGOMA) is a single institution located across two adjacent river-side buildings in the Cultural Precinct of Brisbane's South Bank.

Programme

Tuesday

Keynote Plenary 09:00 - 09:45

ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation
Yasmin Siddiqi

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

UTILITY LEADERS FORUM

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer eu convallis elit. Vivamus non faucibus ligula, non semper nibh. Curabitur venenatis fermentum lobortis. Quisque felis ipsum, tristique et tincidunt pulvinar, posuere vel velit. Pellentesque vel turpis ullamcorper, facilisis ante quis, eleifend odio. Nulla eu lectus at massa ultrices lobortis. Donec sagittis interdum lacus, non convallis tortor bibendum sed. Morbi eleifend ultricies dui, sed volutpat magna imperdiet volutpat. Aliquam sagittis erat efficitur nulla feugiat finibus.

Sky Room
Forum

CITY LEADERS FORUM

Part 1: Launch of the Principles for Water Wise Cities - Invitation only
The City Leaders Forum will host the Launch of the IWA Principles for Water Wise Cities for urban stakeholders to develop a shared progressive water vision. This will underpin the collaborative action of local governments, urban professionals, and individuals actively engaged and finding solutions for sustainably managing all waters of the city. Applying the Principles contributes in many ways to the local implementation of the SDGs, the COP agreement, and the New Urban Agenda. *Dr. Ger Bergkamp* (IWA Executive Director) will open the Forum and launch the Principles, followed by a welcome message from Councillor *David McLachlan* of the Brisbane City Council. The Councillor will share Brisbane's inspiring city water story, followed by other cities on their urban water journey.
12:15 - 13:15 Lunch in the Exhibition Hall at the Cities Pavilion to Celebrate the Launch of the Principles for Water Wise Cities / *Rob Skinner*, IWA Chair of the Cities of the Future Programme, will give a speech on the context of this initiative

Room S1
Forum

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

UTILITY LEADERS FORUM

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer eu convallis elit. Vivamus non faucibus ligula, non semper nibh. Curabitur venenatis fermentum lobortis. Quisque felis ipsum, tristique et tincidunt pulvinar, posuere vel velit. Pellentesque vel turpis ullamcorper, facilisis ante quis, eleifend odio. Nulla eu lectus at massa ultrices lobortis. Donec sagittis interdum lacus, non convallis tortor bibendum sed. Morbi eleifend ultricies dui, sed volutpat magna imperdiet volutpat. Aliquam sagittis erat efficitur nulla feugiat finibus.

Sky Room
Forum

CITY LEADERS FORUM

Part 2: City Leaders Retreat - invitation only
The afternoon session will be fully interactive, giving cities the opportunity to learn from each other on how to best tackle water challenges and seize the opportunities water offers. The exchange will focus first on the water security challenges for cities - health, floods, droughts. We will then move the discussion to another set of challenges related to liveable, efficient, low carbon cities contributing to global targets and the cities attractiveness.

Room S1
Forum

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

EMERGING WATER LEADERS FORUM

Chair: Norhayati Binti Abdullah *UTM, MY*
Arlinda Ibrahimliari *UKKO, AL*
What actions should we take to achieve a water wise world?
In this open platform young professionals aged 35 and under will be challenged with the task to continue to build an action agenda. Building on previously defined key visions - Water sector proactively influences policy, innovative and adaptive water sector, a resilient and sustainable water sector, healthy collaboration between research and industry and Customer & Community are at forefront of decision making - the roundtable discussions are aimed at developing a solution, three actions (1) for academia (2) for industry and (3) for themselves and the key competencies needed to make it happen. In plenary this will be presented and discussed with both audience and senior professionals - *Diane D'Arraz* (SUEZ Water Europe, France), *Bruno Nguyen* (Independent, France) *Simon Griffiths* (Who gives a crap Australia), *Bushra Nishat* (IWA, Bangladesh) *Paul Bowen* (WEF, USA), *Szilvia Szalóki* (HEA, Hungary).

Sky Room
Forum

CITY LEADERS FORUM

Part 3: City Leaders Retreat - invitation only
The afternoon session will be fully interactive, giving cities the opportunity to learn from each other on how to best tackle water challenges and seize the opportunities water offers. The exchange will focus first on the water security challenges for cities - health, floods, droughts. We will then move the discussion to another set of challenges related to liveable, efficient, low carbon cities contributing to global targets and the cities attractiveness.

Room S1
Forum

Break 17:00 - 17:15

Oxford Debate 17:15 - 18:00

Re-use of Wastewater as a Drinking Water Source: Technically Feasible But Socially Unacceptable?

Great Hall Q2

Programme

Tuesday

Keynote Plenary 09:00 - 09:45

ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation
Yasmin Siddiqi

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

BIOLOGICAL TREATMENT I: MAINSTREAM AMX

Chair: Mark van Loosdrecht *TU Delft, NL*
10:30 Introduction
10:35 Mainstream Deammonification With AnitaMox Process *Hannah Lockie, Veolia (FR)*
10:55 Mainstream Deammonification At The Western Treatment Plant *Janelle Watson, Melbourne Water Corporation (AU)*
11:15 Systems With Anammox For Mainstream Wastewater Treatment; Pilot Scale Studies *Elzbieta Plaza, Royal Institute of Technology (SE)*
11:35 Full-scale Mainstream Deammonification For Sustainable Nitrogen Removal And Energy Optimization In Wastewater Treatment *Julian Sandino, CH2M (US)*
11:55 Closing summary

Room GHQ2
Technical

ALTERNATIVE WWT CONCEPTS

Chair: Arash Zamyadi *Unsw, AU*
10:30 Introduction
10:35 Novel Process For Removal Of Phosphorus Based On Crystallization-filtration Using Limestone Material *Hyangyoun Chang, University of Science and Technology (KR)*
10:55 Performance And Sustainability Of Urban Waste Water Treatment Plants In Four Countries Of The Danube River Basin *Marion Colonerus, European Court of Auditors (LU)*
11:15 Removal Of Anthropogenic Chemicals In Selected Waste Stabilisation Ponds In Western Australia *Yolanta Gruchlik, Curtin University (AU)*
11:35 Large-scale Ozonation For Advanced Treatment Of Municipal Wastewater - Design And Dimensioning *Christopher Keyzers, Wasserverband Eifel-Rur (DE)*
11:55 Closing summary

Room M1
Technical

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

BIOLOGICAL TREATMENT II: NOVEL BIOLOGICAL TREATMENT CONCEPTS

Chair: Per Halkjær Nielsen *Aalborg University, DK*
13:30 Introduction
13:35 Autotrophic Nitrate Removal In Bioelectrochemical System For Increased Water Reuse In Recirculating Aquaculture Tanks *Elisa Sander, AWMC/UC (AU)*
13:55 Evaluation Of The Microalgae-based Activated Sludge (MAAS) Process For Municipal Wastewater Treatment On Pilot Scale *Sebastian Schwede, Mälardalen University (SE)*
14:15 Methane Anaerobic Oxidation Coupled To Sulfate Reduction By Consortium Enrichment From Anaerobic Sludge *Lin Li, Research Center for Eco-Environmental Sciences, CAS (CN)*
14:35 Assessment Of Wastewater Treatment And Energy Recovery Through Cultivation Of Microalgae *Ignacio De Godos, FCC Aqualia (ES)*
14:55 Closing summary

Room GHQ2
Technical

WASTEWATER RECLAMATION

Chair: Ioannis Alexiou *Scientists International, UK*
13:30 Introduction
13:35 Demonstrating Organic Contaminant Removal In An Ozone-based Water Reuse Process At Full Scale *Karl Linden, University of Colorado Boulder (US)*
13:55 Water Reuse By An OMBR-RO System: Trace Organic Contaminant Removal And Salinity Build-up Mitigation *Long Nghiem, University of Wollongong (AU)*
14:15 Hybrid Ceramic Membrane Bioreactor Combined With Nanofiltration (CMBR-NF) For Wastewater Reclamation *Feiyun Sun, Harbin Institute of Technology Shenzhen Graduate School (CN)*
14:35 Separating Grey- And Blackwater; A Necessary Approach For Urban Water Reuse? -- The Example Of SEMIZENTRAL *Johanna Tolksdorf, Technische Universität Darmstadt (DE)*
14:55 Closing summary

Room M1
Technical

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

BIOLOGICAL TREATMENT III: BIOTREATMENT OF TEXTILE/CHEMICAL WW

Chair: Per Halkjær Nielsen *Aalborg University, DK*
15:30 Introduction
15:35 Effect Of SBR Feeding Strategy And Feed Composition On AGS Stability In The Treatment Of A Simulated Textile Wastewater *Rita Franca, Instituto Superior Técnico, ULisboa (PT)*
15:55 Treatment Of A Chemical Industry Wastewater Aiming At Reuse By Integrating Biofilm And Membrane Separation Processes *Joao Bassin, Federal University of Rio de Janeiro (BR)*
16:15 Biological Technologies For High-strength Wastewater Treatment *Rania Hamza, The University of Calgary (CA)*
16:35 Two-Phase Partitioning Bioreactors Applied To Colour Removal From Real Textile Wastewater *Maria Concetta Tomei, Water Research Institute CNR (IT)*
16:55 Closing summary

Room GHQ2
Technical

WATER REUSE

Chair: Günter Hauber-Davidson *Water Group, AU*
15:30 Introduction
15:35 Integrated Forward Osmosis - Low Pressure Reverse Osmosis System: A Novel Approach Towards Direct Potable Reuse *Rodrigo Valladares Linares, King Abdullah University of Science and Technology (SA)*
15:55 Treatment of high strength polyester wastewater containing dioxane in combination with grey water via integrated system *Mohamed Saad, Egypt-Japan University of science and technology (EJUST) (EG)*
16:15 Direct Membrane Filtration Of Municipal Wastewater With Ultrafiltration And Reverse Osmosis Membranes *Haruka Takeuchi, Kyoto University (JP)*
16:35 An Investigation Of Membrane Dissolved-ozone Flotation (MDOF) Process For Tertiary Wastewater Treatment *Xin Jin, Xi'an University of Architecture and Technology (CN)*
16:55 Closing summary

Room M1
Technical

Break 17:00 - 17:15

Oxford Debate 17:15 - 18:00

Re-use of Wastewater as a Drinking Water Source: Technically Feasible But Socially Unacceptable?

Great Hall Q2

Programme

Tuesday

Keynote Plenary	09:00 - 09:45		
ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation <i>Yasmin Siddiqi</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
DISINFECTION	Room M2 Technical	WATER REUSE FOR SUSTAINABLE AGRICULTURE, REGULATION AND TECHNOLOGY	Room M3 Workshop
Chair: Chao Chen <i>Tsinghua University, CN</i>		Chair: Melissa Meeker <i>WaterReuse Association, US</i>	
10:30 Introduction		Recent fears for health security have led to strict regulations and high water quality requirements for water reuse in agriculture. This has imposed the use of costly treatment processes in order to treat effluents to high standards, only to be returned to a lower quality environment. The challenges created by these regulations, and by the costs associated with the required technologies, have sometimes resulted in the direct use of wastewater on agricultural land, jeopardizing human and environment health. With a focus on the key steps needed to facilitate water reuse in agriculture, workshop speakers include <i>Melissa Meeker</i> (WaterReuse Association, USA); <i>Jörg Drewes</i> (TUMünchen, DE); <i>Peter Donaghy</i> (Queensland Urban Utility, AU); <i>Stanley Liphadzu</i> (Water Research Commission, ZA). The workshop will also include an interactive panel discussion with the audience.	
10:35 Potential Pathogenic Bacterial Communities & Their Resistance Towards Disinfectant In Chloraminated Distribution System <i>Bal Krishna Kc, Western Sydney University (AU)</i>			
10:55 Novel Method For Estimation Of RNA Virus Inactivation Utilizing Platinum-containing Compounds <i>Jason Torrey, University of Tokyo (JP)</i>			
11:15 Application Of UV-CLEDs For Water Disinfection: E. Coli, MS2 Phage, B. Subtilis Spore <i>Joon-Wun Kang, Yonsei University (KR)</i>			
11:35 Reactivity Of Antibiotic Resistant Bacteria (ARB) With Chemical Oxidants And Their Persistence In Natural Environment <i>Julie Glady-Croue, Curtin University (AU)</i>			
11:55 Closing summary			
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
ADVANCED OXIDATION PROCESSES	Room M2 Technical	CONFLICTS AND COLLABORATIONS, A DIALOGUE ON WATER, FISHERIES AND BIODIVERSITY	Room M3 Workshop
Chair: Shang-Lien Lo <i>National Taiwan University, TW</i>		Chairs: Joan Rose <i>Michigan State University, US</i> Simon Funge-Smith <i>FAO</i>	
13:30 Introduction		How do we improve the water sector's relationship with aquatic biodiversity? The transformation and losses of aquatic biodiversity, particularly fisheries, in historic water developments have often been harmful. There are also innovative and sensitive approaches, both in engineering and management, which capture benefits and sustain ecosystem services. As the relationship between water management and other users matures, the economic drivers for water development are increasingly balanced by the realization that ecosystem services and biodiversity can be supported at reasonable cost. Examples can be seen around the world but, in developing countries where inland waters are important for food security and important for biodiversity, dialogue may rapidly reach an impasse. Is this inevitable? Are there no solutions? The workshop explores the challenges and solutions. Presentations from <i>Angela H. Arthington</i> (Australian Rivers Institute, AU); <i>Ian Cowx</i> (University of Hull, UK); <i>John Riddiford</i> (John Riddiford & Associates, AU); <i>Matt Verbyla</i> (Ecole Polytechnique Fédérale de Lausanne, FR); <i>Diane d'Arras</i> (Water Europe for Suez, FR)	
13:35 Decentralized Greywater Treatment System Based On Combined Adsorption And Electrochemical Oxidation <i>Elisabet Andres Garcia, AWMC - University of Queensland (AU)</i>			
13:55 AOP Using UV-LEDs With Novel Immobilized Doped TiO2 Photocatalysts <i>Wolfgang Uhl, Norwegian Insitute for Water Research (NIVA) (NO)</i>			
14:15 Persulfate Oxidation Of Phenol Activated By Polymer Coated Nano-sized Zero-valent Iron <i>Inseong Hwang, Pusan National University (KR)</i>			
14:35 Evaluating Impact Of Large-scale Ozonation On Receiving Water's Biocenosis <i>Ira Brueckner, Waterboard Eifel-Rur (WVER) (DE)</i>			
14:55 Closing summary			
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
PHOTO-CATALYTIC ADVANCED OXIDATION	Room M2 Technical	ASSET MANAGEMENT LEADING PRACTICES AND ISSUES	Room M3 Workshop
Chair: Karl Linden <i>University of Colorado Boulder, US</i>		Chair: Scott Haskins <i>CH2M, AU</i>	
15:30 Introduction		Can asset management be applied globally with success? Participants from all regions of the globe, including developed and emerging economies, will participate in a dialogue that reflects on their own context in relation to other regions, and to gain a more comprehensive awareness of asset management. The workshop will engage asset management leaders, primarily from IWA's Strategic Asset Management Specialist Group, in a review and discussion with workshop participants, on the status, issues, strengths and opportunities, and future directions surrounding asset management. This will highlight, compare and contrast similarities and differences globally. All levels of asset management maturity will be engaged. Presentations by <i>Helena Alegre</i> (LNEC, PT); <i>Takayuki Sawai</i> (JWWA, JP); <i>Jeff Leighton</i> (Portland Water, US); <i>Greg Ryan</i> (WSAA, AU); <i>Peter Cheung</i> (Federal University of Mato Grosso do Sul, BR)	
15:35 Economically-feasible Removal Of 1,4-dioxane By VUV Irradiation With Limited Disinfection By-product Formation <i>Wataru Sugita, Hokkaido University (JP)</i>			
15:55 Integrated Experimental And Theoretical Approach For Predicting Transformation Products In Advanced Oxidation Processes <i>Daisuke Minakata, Michigan Technological University (US)</i>			
16:15 Monitoring Of OH Radical Scavenging Factor To Determine The Optimal Operating Conditions For The UV/H2O2 Process <i>Joon-Wun Kang, Yonsei University (KR)</i>			
16:35 Intimate Coupling Of Visible-light-responsive Photocatalysis And Biodegradation For Degrading Phenol <i>Shuangshi Dong, Jilin University, Northeast Normal University (CN)</i>			
16:55 Closing summary			
Break	17:00 - 17:15		
Oxford Debate	17:15 - 18:00		
Re-use of Wastewater as a Drinking Water Source: Technically Feasible But Socially Unacceptable?		Great Hall Q2	

Programme

Tuesday

Track 1: Cities, Utilities & Industries Leading Change
Track 2: Water & Wastewater Processes & Treatments
Track 3: Re-charting the Course of Water Resources
Track 4: Enabling Progress
Track 5: Water Quality, Safety & Human Health

Keynote Plenary	09:00 - 09:45		
ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation <i>Yasmin Siddiqi</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
UTILITIES AND ECONOMICS	Room M4 Technical	WATER AND WASTE MANAGEMENT IN ENERGY AND PETROCHEMICALS	Room M9 Technical
Chair: Francisco Cubillo <i>Canal de Isabel II Gestion S.A., ES</i>		Chair: Mitch Laginestra <i>GHD, AU</i>	
10:30 Introduction		10:30 Introduction	
10:35 Efficiency Benchmarking Of Australian And New Zealand Water Utilities <i>Junayd Hollis, Third Horizon Consulting Partners (AU)</i>		10:35 Water Contamination By Hydraulic Fracturing Chemicals: Implications For Water Treatment & Reuse <i>William Stringfellow, University of the Pacific (US)</i>	
10:55 EBC's Regional Benchmarking Hubs: Removing Barriers In Establishing Improvement Programmes For Water Services <i>Peter Dane, EBC Foundation (NL)</i>		10:55 Biochemical In Situ Analysis Of The Oil Contaminated Subsurface Water At Different Depths <i>Lu Sidan, College of Water Sciences Beijing Normal University (CN)</i>	
11:15 Benchmarking Water Processes Done Right <i>Manu De Backer, University Ghent, University of Antwerp (BE)</i>		11:15 Evaluation Of COD Cr Removal By Pilot-scale O3 And H2O2 O3 Oxidation Processes From RO Brine Of Petrochemical Wastewater <i>Jiane Zuo, School of Environment, Tsinghua University (CN)</i>	
11:35 Water And Energy Efficiency In Water Supply Systems - A Cross Relation Analysis From A Collaborative Project <i>Helena Alegre, National Laboratory for Civil Engineering (PT)</i>		11:35 The Economic Pre-treatment Of Coal Mine Drainage Water With Caustic And Ozone <i>Brace Boyden, CNF & Associates (AU)</i>	
11:55 Closing summary		11:55 Closing summary	
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
CLIMATE CHANGE: ADAPTATION AND RESILIENCE	Room M4 Technical	RETICULATIONS AND DISTRIBUTION SYSTEMS	Room M9 Technical
Chair: Bruno Nguyen <i>UNESCO</i>		Chair: Roland Liemberger <i>Miya, PH</i>	
13:30 Introduction		13:30 Introduction	
13:35 Development Of Quantitative Evaluation Model For Disaster Resilience Of Water Distribution System <i>Nagahisa Hirayama, National Institute for Environmental Studies (JP)</i>		13:35 Renewal Of Water Pipelines In Tokyo: Towards Achieving An Earthquake-resistant Waterworks System <i>Kazuo Kato, Tokyo Metropolitan Government (JP)</i>	
13:55 Quantifying Water Availability -- Preparing For The Future <i>Bruce Rhodes, Melbourne Water (AU)</i>		13:55 Analysis Of Energy Consumption Of Water Distribution And Supply System Based On Digital Residential Map Data <i>Yasuhiro Arai, Tokyo Metropolitan University (JP)</i>	
14:15 Comparison Of Alternative Groundwater Desalinating Technologies For Remote Communities Based On Resilience Modelling <i>Keng Han Tng, University of New South Wales (AT)</i>		14:15 Key Findings Of A 2-year Pilot Distribution System Investigation <i>Rolando Fabris, SA Water Corporation (AU)</i>	
14:35 A Risk-based And Adaptive Approach For The Management And Regulation Of Wet Weather Overflows <i>Catherine Port, Sydney Water (AU)</i>		14:35 Dealing With The Complex Interrelation Of Intermittent Supply And Water Losses <i>Bambos Charalambous, J2C Water (CY)</i>	
14:55 Closing summary		14:55 Closing summary	
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
WATER, HUMAN RIGHTS AND THE AFFORDABILITY CONUNDRUM	Room M4 Technical	UTILITIES AND BENCHMARKING	Room M9 Technical
Chair: Robert Bos <i>IWA</i>		Chair: Petrus Dane <i>EBC Foundation, NL</i>	
Is universal and equitable access to safe and affordable drinking water for all by 2030 realistic? Applying human rights to water and sanitation has proved challenging. Effective service provision relies upon collective actions by interdependent stakeholders; climate change, migration and economic growth will not make this task easier. We will review the practicalities of progressive implementation of these human rights incorporating the affordability criteria. Presentations by <i>Amanda Loeffen</i> (WaterLex, Switzerland); <i>Bruno Tisserand</i> (EurEau, BE); <i>Pascale Guiffant</i> (SUEZ, FR); and panel discussion with <i>Richard Khalidi</i> (OFWAT, UK); <i>Alberto Biancardi</i> (Aeegsi, IT); <i>Gerard Payen</i> (AquaFed, FR); <i>Hon. Mlungisi Johnson</i> (Member of Parliament, SA); <i>Maria Sonabel Anarna</i> (Department of Health, PH).		15:30 Introduction	
		15:35 A Critical Comparison Of Methods For Benchmarking Energy Performance In WWTPs <i>Miguel Mauricio Iglesias, Universidade de Santiago de Compostela (ES)</i>	
		15:55 Demand Forecasting Using Support Vector Machine And Pump Scheduling Optimization Using Genetic Algorithm <i>Jeewon Seo, University of Seoul (KR)</i>	
		16:15 Utility Survival In An Environment Of Mandated Conservation <i>Trevor Hill, FATHOM (US)</i>	
		16:35 Decision-making Support Tool For Water Management In Cities Based In Eco-efficiency <i>Desirée Marin, CETaqua, Water Technology Center (ES)</i>	
		16:55 Closing summary	
Break	17:00 - 17:15		
Oxford Debate	17:15 - 18:00		
Re-use of Wastewater as a Drinking Water Source: Technically Feasible But Socially Unacceptable?		Great Hall Q2	

Programme

Tuesday

Keynote Plenary	09:00 - 09:45		
ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation <i>Yasmin Siddiqi</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
URBAN WATER INFRASTRUCTURE REHABILITATION	Room M0 Technical	MICROPOLLUTANTS	Room P1 Technical
Chair: Chris Hertle <i>GHD, AU</i>		Chair: Frederic Leusch <i>Griffith University, AU</i>	
10:30 Introduction		10:30 Introduction	
10:35 Leak-before-break In Cast Iron Mains: A Failure Analysis Of A Catastrophic Pipe Burst On Harris Street, Sydney <i>Rui Jiang, Monash University (AU)</i>		10:35 Source Tracking Of Nitrification And Urease Inhibitors In The Aquatic Environment <i>Marco Scheurer, DVGW Water Technology Center (DE)</i>	
10:55 Development Of A Simulation System For Water Failure Rate In The Event Of Large Earthquakes - A Tool For Optimizing Water <i>Tsutomu Shioda, Bureau of Waterworks, Tokyo Metropolitan Government (JP)</i>		10:55 Budget Of Phosphorus And Heavy Metals In Shahe Reservoir, A Heavily Loaded Shallow Reservoir In Beijing City <i>Pei Lei, Chinese Academy of Sciences (CN)</i>	
11:15 Introducing A Methodology For Water Pipe Condition Assessment Using Dimensional Analysis Method <i>Savalan Pour Akbarkhiavi, Swinburne University of Technology (AU)</i>		11:15 Micropollutant Reduction Strategy At The Scale Of An Urban Area: The « Micropollutant Project » Of Bordeaux Metropolis <i>Zdravka Doquang, Lyonnaise des Eaux (FR)</i>	
11:35 Toilet Revolution: From Waste To Resource <i>Mooyoung Han, Seoul National University (KR)</i>		11:35 Water Cycle In Euro-Mediterranean Hotels And Resorts: From Water Management Practices To Neglected Water Quality Issues <i>Gianluigi Buttiglieri, ICRA - Catalan Institute for Water Research (ES)</i>	
11:55 Closing summary		11:55 Closing summary	
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
WATER AND WASTE MANAGEMENT IN FOOD INDUSTRIES	Room M0 Technical	MICROPOLLUTANT TREATMENT TECHNOLOGIES I	Room P1 Technical
Chair: Santino Diberardino <i>LNEG, PT</i>		Chair: Josef Klinger <i>TZW, DE</i>	
13:30 Introduction		13:30 Introduction	
13:35 Manganese Greensand Solution Stability And Comparison Of Activation Methods For Acid Mine Drainage Treatment <i>John Outram, Queensland University of Technology (AU)</i>		13:35 Removal Of Diclofenac By <i>Sarah Zydorczyk, University Duisburg-Essen (DE)</i>	
13:55 Metagenomic Analysis Of Granular Sludge From A Full-scale UASB Reactor Treating Brewery Wastewater <i>Abimbola Enitan, Durban University of Technology (ZA)</i>		13:55 Enhancing Sulfamethoxazole Biodegradation In Wastewater Treatment By Bioaugmentation With <i>Achromobacter Denitrificans Yen Nguyen, New University of Lisbon, (PT)</i>	
14:15 Failure Of Classical Enumeration Methods To Detect Some Escherichia Coli Populations <i>Min Jin, Tianjin institute of health and environmental medicine (CN)</i>		14:15 Biodegradation Of Atenolol By An Enriched Nitrifying Sludge <i>Yifeng Xu, Advanced Water Management Centre/The University of Queensland, AU)</i>	
14:35 Novel Bio-electrochemical Process For Water Recycling And Sulfur/metals Recovery From Mining Wastewater <i>Guillermo Pozo, Advanced Water Management Centre, The University of Queensland (AU)</i>		14:35 Feasibility Study Of Using A SPAC/PAC-UF Hybrid System For Emerging Organic Pollutants Removal In A Source Water <i>Jiangyong Hu, National University of Singapore (SG)</i>	
14:55 Closing summary		14:55 Closing summary	
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
UNLOCKING FINANCIAL RESOURCES TO DECARBONIZE THE WATER SECTOR	Room M0 Workshop	MICROPOLLUTANT TREATMENT TECHNOLOGIES II	Room P1 Technical
Chair: Tom Williams <i>IWA</i>		Chair: Josef Klinger <i>TZW, DE</i>	
What are the challenges for financing utilities to combat climate change and improve energy performance?		15:30 Introduction	
Climate change poses an increasing burden to how water utilities maintain the security of their supply and the operational performance of infrastructure. There are opportunities to access finance for low-carbon, climate-resilient infrastructure, but the flow of resources is slow, caused by a lack of awareness of financial instruments and a dearth of bankable projects to invest in. The issue exists in developed and developing countries, needing closer dialogue and collaboration amongst the finance, utility and government sectors. Presenting examples of successful project investments in Australia and United States, representatives from the financial sector, water utilities and development partners will debate the bottlenecks and opportunities related to matching financial resources with demand for low carbon, climate resilient infrastructure.		15:35 Biological + PAC Compact System For Micropollutants Removal From Pharmaceutical Wastewater <i>Alexandre Gali Serra, Cetaqua, Water Technology Centre (ES)</i>	
		15:55 Phthalic Acid Ester Removal In Conventional Activated Sludge, SBR And UASB Based Sewage Treatment Plants In India <i>Khalid Gani, Indian Institute of Technology Roorkee (IN)</i>	
		16:15 Change In Mutagenicity Of ICM Iopamidol During Chlorination: Estimating TPs Inducing Toxicity By MS/MS And QSAR Analyse <i>Takashi Kondo, Hokkaido University (JP)</i>	
		16:35 Pharmaceutically Active Compounds Removal In Sequential Batch Reactor (SBR) And SBR Followed By Nanofiltration <i>Chun-Hai Wei, King Abdullah University of Science and Technology (SA)</i>	
		16:55 Closing summary	
Break	17:00 - 17:15		
Oxford Debate	17:15 - 18:00		
Re-use of Wastewater as a Drinking Water Source: Technically Feasible But Socially Unacceptable?		Great Hall Q2	

Programme

Tuesday

Track 1: Cities, Utilities & Industries Leading Change
Track 2: Water & Wastewater Processes & Treatments
Track 3: Re-charting the Course of Water Resources
Track 4: Enabling Progress
Track 5: Water Quality, Safety & Human Health

Keynote Plenary	09:00 - 09:45		
ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation <i>Yasmin Siddiqi</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
REGULATION-FINANCE	Room P2 Technical	INTEGRATED WATER RESOURCES MANAGEMENT-GOVERNANCE ASPECTS	Room P3 Technical
Chair: Jennifer McKay <i>UNISA, AU</i>		Chair: Katerina Schilling <i>IAWD, AT</i>	
10:30 Introduction		10:30 Introduction	
10:35 Forfeiting, An Output-Based Component For Sustainable Water Finance <i>Karl Rudolph, the Witten/Herdecke University (DE)</i>		10:35 Catchment Management: A Local And Global Challenge <i>Cameron Wearing, Water Research Foundation (US)</i>	
10:55 Logan Water Alliance -- The Value Of Public And Private Sector Collaboration In A Local Government Water Business <i>Tony Goodhew, Logan City Council (AU)</i>		10:55 Reporting On The Condition And Benefits Of Waterways To Drive Management Actions <i>James Udy, Healthy Waterways (AU)</i>	
11:15 "The Regulation On The European Countries And The CPLP: Comparisons And The Opinions Of Municipalities" <i>Octavio Almeida, Open University - Lisbon (PT)</i>		11:15 Finding The Right Balance: Science/policy/stakeholder Partnership To Provide Water For The Community And The Environment <i>Andrew Mcdougall, Department of Natural Resources and Mines (AU)</i>	
11:35 Financial Issues Facing Tokyo Sewerage And Initiatives Towards The Stabilized Business Management <i>Shimpei Endo, Tokyo Metropolitan Government (JP)</i>		11:35 Boundaries Of Benefit Sharing: Mapping Conflict And Cooperation In The Lake Malawi/Niassa/Nyasa Sub-basin <i>Joanna Fatch, University of the Western Cape (ZA)</i>	
11:55 Closing summary		11:55 Closing summary	
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
WATER - FINANCE	Room P2 Technical	INTEGRATED WATER RESOURCES MANAGEMENT-CASE STUDIES	Room P3 Technical
Chair: Ed Smeets <i>Edmadi BV, NL</i>		Chair: Shafick Adams <i>Water Research Commission, ZA</i>	
13:30 Introduction		13:30 Introduction	
13:35 Water Markets - Re-charting The Course Of Water Resources <i>Alister Walsh, Waterfind Australia 9AU)</i>		13:35 Norman Creek 2012-2031 Master Plan: From Planning To The Challenges Of Implementation <i>Greg Tucker, Brisbane City Council (AU)</i>	
13:55 The Urban Water Security Index: Conceptualisation And Pilot Of A New Index <i>Huijuan Wu, National University of Singapore (SG)</i>		13:55 Joint Catchment Protection <i>Knud Søndergaard, Odense Municipality (DK)</i>	
14:15 Demonstrating And Monetizing The Multiple Benefits From Using Sustainable Drainage <i>Richard Ashley, University of Sheffield (UK)</i>		14:15 Decision Support Tools For Integrated Water Resources Planning, Management And Operation <i>Verno Jonker, Aurecon (ZA)</i>	
14:35 For A Sustainable Water Management -Investment Planning And Financial Planning On Waterworks <i>Takayuki Takahashi, Bureau of Waterworks, Tokyo Metropolitan Government (JP)</i>		14:35 A Catchment Perspective On Planning For Excess Recycled Water Release On The Gold Coast <i>Anna Hollingsworth, City of Gold Coast (AU)</i>	
14:55 Closing summary		14:55 Closing summary	
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
REVERSE OSMOSIS IN DIRECT POTABLE REUSE	Room P2 Workshop	REGULATION-GOVERNANCE / SUSTAINABILITY	Room P3 Technical
Chair: Olivier Lefebvre <i>National University of Singapore, SG</i>		Chair: Hamanth Kasan <i>Rand Water, ZM</i>	
What is the future for reverse osmosis in direct potable reuse?		15:30 Introduction	
Increasing water scarcity is driving the debate on water reuse. We are witnessing a slow paradigm shift from indirect to direct potable water reuse (DPR), where highly purified recycled water is introduced directly into a drinking water system. A key treatment in potable reuse schemes is reverse osmosis (RO) to minimize the risk from chemical and microbial contaminants. This is an expensive treatment process, and generates a brine requiring proper disposal, limit the use of RO or DPR in certain locations. This panel discussion will look at 'out of the box' ideas and discuss ways to ensure virtually fail-safe treatment for microbial and chemical hazards via multiple, redundant barriers not involving RO. The format is a moderated panel discussion by experts in potable reuse, who have been involved in evaluating and practicing RO-free potable water reuse schemes. Presentations from <i>Shane Snyder</i> (University of Arizona, US), <i>Josef Lahnsteiner</i> (WABAG, AT), <i>Stuart Khan</i> (The University of New South Wales, AU), <i>Shane Trussell</i> (Trussell Tech, US) and <i>Jörg Drewes</i> (Technical University of Munich, DE)		15:35 Sustainable Management Of Water Sources For Remote Community Water Supply In The Northern Territory, Australia <i>Len Griffiths, Power and Water Corporation (AU)</i>	
		15:55 Balancing Financial And Social Objectives In Water Provisioning: Pro-poor Services In Two Kenyan Water Utilities <i>Klaas Schwartz, UNESCO-IHE Institute for Water Education (NL)</i>	
		16:15 Tightening Sewage Discharge Standards In Municipal Wastewater Treatment Plants: Does It Increase Sustainability? <i>Xu Wang, Chinese Academy of Sciences (CN)</i>	
		16:35 Understanding Water Resources In Australia's Murray Darling Basin Better Using The Bureau Of Meteorology's National Water Account <i>Shobhit Chandra, Bureau of Meteorology (AU)</i>	
		16:55 Closing summary	
Break	17:00 - 17:15		
Oxford Debate	17:15 - 18:00		
Re-use of Wastewater as a Drinking Water Source: Technically Feasible But Socially Unacceptable?		Great Hall Q2	

Programme

Tuesday

Keynote Plenary 09:00 - 09:45

ADB's Asian Water Development Outlook 2016, Water Management in the Context of Rapid Urbanisation
Yasmin Siddiqi Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

RESOURCE RECOVERY I

Room P4
Technical

Chair: Willy Verstraete Ghent University, BE

- 10:30 Introduction
- 10:35 Enhanced Elemental Sulfur Recovery By Efficient Regulation Of Denitrifying Sulfide Oxidization Bacterial Community *Aijie Wang, Harbin Institute of Technology (CN)*
- 10:55 Feasibility Of The Power-to-protein Concept In The Circular Economy Of The City Of Amsterdam *Frank Oesterholt, KWR Watercycle Research Institute (NL)*
- 11:15 1800s, A Future Practice In The 2000s? *Fabien Esculier, University of Paris - LEESU (FR)*
- 11:35 Electrodialysis For Resource Recovery From Wastewater: Technical Analysis *Emma Thompson Brewster, Advanced Water Management Centre, UQ (AU)*
- 11:55 Closing summary

EMERGING TECHNOLOGIES AND INNOVATION

Room P5
Session

Chair: Ignaz Worm Isle Utilities, UK

Start-up tech companies specially selected to present cutting edge solutions for the topics 'Water reuse to desalination' & 'Smart networks, making them work'. Utilities Start up's: LG Sonic: Algae control devices, by *Lisa Brand*; Metaflush: A valveless toilet flushing system, by *Tony Lake*; Geointeractive: Rapid 3D Photomapping, by *Robert Lee*

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

RESOURCE RECOVERY II

Room P4
Technical

Chair: Willy Verstraete Ghent University, BE

- 13:30 Introduction
- 13:35 Identification And Treatment By Adsorption On Biomaterials Of Platinum Based Antineoplastic Waste Streams *Karel Folens, Universiteit Gent (BE)*
- 13:55 Decentralised Nutrient Recovery From Urine Without Added Power Or Chemicals *Stefano Freguia, University of Queensland (AU)*
- 14:15 Enabling Extractive Nutrient Recovery - A Sustainable Nutrient Management Approach For A Circular Economy *Julian Sandino, CH2M (US)*
- 14:35 The Transition Towards Urban Recovery Wastewater Systems In Northern Europe -- Experiences From Pilot Demonstrations *Marinette Hagman, Hamburger Stadtentwässerung AöR (DE)*
- 14:55 Closing summary

RAINWATER HARVESTING

Room P5
Lecture

Chair: Mooyoung Han Seoul National University, KR

How can the RAIN CITY help achieve the Sustainable Development Goals?

Floods, droughts, water shortages, all are related to rainwater. Appropriate Rainwater Harvesting and Management (RWHM) can mitigate many water management challenges. This is at the heart of the Rain City, where all citizens understand the benefits of rainwater, and laws and regulations support collecting rainwater instead of allowing it to drain away. Based on social consensus, and bringing together technology and economics, the Rain City will help achieve the SDGS. Mooyoung Han (Seoul National University, KR), known as Dr. Rain, gives a master lecture based on 15 years research, practice and case studies on multi-purpose RWHM, and how it can assist politicians, researchers and practitioners find solutions for SDG 6 and SDG 11

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

RAINWATER HARVESTING

Room P4
Technical

Chair: Mooyoung Han Seoul National University, KR

- 15:30 Introduction
- 15:35 Stormwater Harvesting And Reuse Systems In Brisbane *Adrian Crocetti, Brisbane City Council (AU)*
- 15:55 Implications And Opportunities For Rainwater Harvesting, Optimizing The Urban Water Cycle *Sandra Ungerson, AloPluvia (CA)*
- 16:15 Using Water From Fog And Moisture: A Solution To Deal With Migration From Rural To Urban Areas *Zahra Elmi, Sistan and Baluchestan Water and Waste Water Company (IR)*
- 16:35 A Case Study For An Integrated Systems Approach To Low-Cost Water Resource Utilization In Rural, Tanzania *Onita Basu, Carleton University (CA)*
- 16:55 Closing summary

Break 17:00 - 17:15

Oxford Debate 17:15 - 18:00

Re-use of Wastewater as a Drinking Water Source: Technically Feasible But Socially Unacceptable? Great Hall Q2

Programme

Tuesday

Keynote Plenary 09:00 - 09:45

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

TO PUBLISH YOU MUST REVIEW: A HOW TO DISCUSSION

Career Development Hub
Learning

Organiser: IWA and IWA Publishing
Chair: Michelle Herbert IWA Publishing

How can we empower our future reviewers to ensure that everyone has an opportunity to publish their work?

The objective of this session is to give novice reviewers guidance and help on how to review manuscripts. In this session, *Michelle Herbert* (IWA Publishing, UK) and *Jo Burgess* (WRC, SA) will assist you in understanding what is expected when taking on the role of reviewer. Participants will receive a manuscript to review ahead of the session, and will be able to compare their review with reviewer feedback from IWA Publishing. Participants will also receive notes prepared by *Gustaf Olsson* (Distinguished Fellow, SE) on how he approaches manuscript reviewing

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

THE ART OF SCIENTIFIC PUBLISHING FOR SCHOLARS

Career Development Hub
Learning

Organiser: IWA and UTM
Chair: Norhayatibinti Abdullah UTM, MY

Publishing is evolving rapidly. Whilst quality publication is highly synonymous with the pulse of academic accomplishments, it also sets the scholarly measures in academia as well as being indicative for an institution's progress in research. This shift may provoke a new form of academia by not only demonstrating unique and original achievements in particular research areas but also to determine new publishing models to redefine the credence of academic publications. This learning session provides an instantaneous outlook of publishing as ways to communicating research findings and transferring knowledge based on scientific scholarly writing. The session targets Young water professionals, academia, academic institution representatives.

Coffee Break 15:00 - 15:30

Break 17:00 - 17:15

Keynote Plenary 17:15 - 18:00

Track 1: Cities, Utilities & Industries Leading Change

Track 2: Water & Wastewater Processes & Treatments

Track 3: Re-charting the Course of Water Resources

Track 4: Enabling Progress

Track 5: Water Quality, Safety & Human Health

Business Forums

Tuesday



Wednesday:

Addressing the global water challenge demands imaginative approaches and the adoption of new paradigms and technologies.

Participating in technical sessions including oral and poster presentations, brings you the latest findings and allows you to connect to new developments. Attending workshops will provide insight and inspiration for cooperation and collaboration on research and practical applications. The workshops and technical sessions provide a unique opportunity for connecting with peers from across the water sector.

SOCIAL MEDIA

Don't miss out. Follow us and join the conversation:

 [#iwa2016brisbane](#)

 www.facebook.com/InternationalWaterAssociation

 www.linkedin.com/company/international-water-association

Wednesday

Registration
opens
November

AUSTRALIAN[®]
WATER
ASSOCIATION

ozwater17
Embracing innovation and
disruption for a smart water future

16-18 May 2017 | International Convention Centre | SYDNEY



water at Griffith

Griffith University has a worldwide reputation in environmental science and especially water management. This reputation recognises more than 40 years of excellence in research and engagement with government and industry.

Griffith hosts the **Australian Rivers Institute** where Australia's largest group of freshwater and coastal researchers investigate water as it flows from catchment to coast.

We add value to businesses through our expert knowledge of the:

- way water catchments and ecosystems function,
- most advanced water monitoring and analysis technologies, and
- social, economic and environmental imperatives of managing water.

The **International Secretariat for Future Water**, supported by Future Earth, brings together the world's top experts to solve the world's challenging water problems, is also hosted at **Griffith University**.

@GriffithARI rivers.edu.au
catchmenttocoast.wordpress.com



Wednesday Spotlight

Plenary Session / 09:00 - 09:45 / Great Hall Q2

Solutions to shape our water future: a voice for our waterways



Eva Abal
Director, Sustainable
Water Program,
Global Change
Institute, The
University of
Queensland
(Australia)

Introduced by: Peter Goodwin
(International Association of Hydrological Research, UK)

Moderator: Ganesh Pangare, IWA

Plenary Session / 17:15 - 18:00 / Great Hall Q2

Participative societies creating new challenges for the water sector



Ben Schouten
Professor,
Department of
Industrial Design,
Eindhoven
University of
Technology
(Netherlands)

Introduced by: Enrique Cabrera
(Technical University Valencia, ES)

Moderator: Jamie Workman
(Editor "The Source", US)

Forums, Learning Sessions & Career

Basin Leaders Forum / 10:30 - 17:00

Resilient Basins for Water Security
Sky Room

Themed around Resilient Basins for Water Security the Forum will provide an opportunity for water resource managers from sectors across river basins to share knowledge and experiences and explore viable pathways for sustainable economic, social and environmental development of catchment areas.

Master Lecture / 15:30 - 17:00

Granular Systems (Aerobic and Anaerobic)
Room P5

Lecturers: Prof. Mark van Loosdrecht Delft University of Technology - The Netherlands & IWA Management Committee member on SG Biofilms, SG Microbial ecology and Water Engineering, SG Nutrient removal and recovery

Prof. Damien Batstone University of Queensland - Australia & IWA Anaerobic Digestion Specialist Group Chair, Generalized Physicochemical Framework Task Group Chair

Water Career Opportunities and Development / 15:30 - 17:00

Room S1

Want to be inspired for embarking on your water career, get advice on career progression and planning, and learn from senior professionals how they got where they are attend this session.

IWA World Water Exhibition / 09:00 - 18:00

Exhibition Hall 1

Join the world's leading companies working in sustainable water management. The IWA World Water Exhibition is a one-stop-shop where you can connect and do business with the leading industry and technology providers.



IWA Project Innovation Awards Ceremony and Dinner / 19:00 - 22:00

Recognising the excellence, leadership and innovation which IWA members and network participants bring to the water sector. IWA Award winners are leaders in their fields, frequently contributing years of research and practice to improving water management across the globe. The Project Innovation Awards is a prestigious global competition that celebrates excellence in water engineering projects around the world. Join the finalists and winners at the award ceremony in the beautiful surroundings of the Rydges Southbank and celebrate with them the strides taken to innovate in the water sector.



Programme

Wednesday

Keynote Plenary	09:00 - 09:45		
Solutions to Shape Our Water Future: a Voice for Our Waterways <i>Eva Abal</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
BASIN LEADERS FORUM		Sky Room Forum	Room S1 Forum
<p>Chair: Dr. Ger Bergkamp <i>International Water Association</i></p> <p>What are the potential pathways towards strengthening and maintaining resilience within basins?</p> <p>The first session of the Forum will focus on innovative approaches that are being applied within basins and how these are building resilience. This session will align with the keynote from the congress plenary which will precede the Basin Leaders Forum. The discussions will kick off with an introduction to the Basin Leaders Forum by <i>Prof. Paul Greenfield</i> (Emeritus professor, University of Queensland). Afterwards a panel discussion with <i>Prof. James E. Ball</i> (Vice-President, International Association for Hydro-Environment Engineering and Research), <i>Dr. Paul Bowen</i> (Director of Sustainability, Coca-Cola Company) and <i>Dr. Christian H. Severin</i> (Senior Environmental Specialist, Global Environment Facility) will reflect on how basins can move beyond 'engineering resilience' towards a more dynamic system. Next, a roundtable session facilitated by <i>Dr. John Riddiford</i>, Chair, IWA Watershed and River Basin Management Specialist Group will focus on experiences including tools, approaches and case studies highlighting how to achieve resilience now and in the future.</p>		<p>UTILITIES OF THE FUTURE FORUM</p> <p>Utility Leadership; the Missing Link for Water Technology Innovation</p> <p><i>Attendance by invitation only.</i></p> <p>The last decade has seen great innovation in the water technology sector, but despite strong drivers minimal technology adoption has taken place. Utilities face the challenge of often being bound into politics, procurement rules that drive low cost selection and fears that a new, unproven technology will fail. There are a few select utilities that has overcome these obstacles to embrace new technologies that ensure sufficient water supply and quality delivered in a sustainable manner. This session will address the critical changes needed to bring innovation forward. Speakers include <i>Bev Stinson</i> (AECOM, US), <i>Jonathan Clement</i>, (PWN, ND), <i>Sudhir Murthy</i> (DC Water, US), <i>Roelof Kruize</i> (Waternet, ND) <i>Sue Murphy</i> (Water Corp, AU), <i>Frank Rogalla</i> (Aquila, ES), <i>Rob Renner</i> (WRF, US)</p>	
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
BASIN LEADERS FORUM		Sky Room Forum	
<p>Chair: Dr. Ganesh Pangare <i>International Water Association</i></p> <p>How can long term engagement and investment within a basin be sustained?</p> <p>The second session of the Forum will reflect on transformational actions that have supported development in basins along with obstacles and how they were addressed. <i>Dr. Sanjay Pahuja</i> (Senior Water Resources Specialist, World Bank) will give the keynote on 'Too Many Good Intentions? A Common Roadblock to Sustaining Engagements and Investments in River Basins'. This will be followed by a panel discussion with <i>H.E. Yue Zhongming</i> (Commissioner, Yellow River Conservancy Commission), <i>James Purtil</i> (Director-General, Department of Natural Resources and Mines, Queensland Government) and <i>Prof. Jane Doolan</i> (Professorial Fellow in Natural Resource Governance, University of Canberra). Next, participants will be invited to join the roundtable discussions facilitated by <i>Dr. John Dore</i>, Senior Water Resources Specialist, Department of Foreign Affairs and Trade (DFAT) focusing around specific basin timelines and sharing experiences including challenges of water management across a basin, how they were overcome and how this has affected different stakeholders (especially cities and industries).</p>			
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
JOINT REGULATORS, BASINS, UTILITIES AND CITIES FORUM		Sky Room Forum	Room S1 Forum
<p>The complexities of how water impacts and influences sustainable development requires an integrated approach across different basin and city related systems; critical to this is the working relationship between key stakeholders including national and local governments, service providers, water resource managers and regulators.</p> <p>A team from the Sydney-based Institute for Sustainable Futures opens the forum with a session reflecting on the Australian experience of drought, focusing on partnerships for water efficiency and policy. An interview-style panel will examine the critical lessons learned on the way in which key stakeholders in the Australian sector responded to the Millennium drought. This is followed by a panel discussion with representatives of the Leaders Forums: Cities, Utilities, Regulators and Basins. The outcome will inform how partnerships between these different stakeholders can be facilitated at a local, national and international level.</p>		<p>WATER CAREER OPPORTUNITIES AND DEVELOPMENT</p> <p>Chair: Randolf Webb <i>Xylem, US</i></p> <p>The session will provide participants with a deep insight into the professional life in various segments of the water sector through dynamic interaction with the senior leaders on the panel. Starting with round table discussions the participants will determine the questions that will be asked to the Senior leaders in the panel - <i>Jo Burgess</i>, Water Research Commission, South Africa; <i>Jennifer de France</i>, WHO, Switzerland; <i>Diane D'Arras</i>, IWA, <i>Philip Giantriss</i>, Water Supply and Sewerage Association, Albania; <i>Kevin Young</i>, Sydney Water, Australia; <i>Aleksandra Lazic</i>, Xylem, Sweden, <i>Jane Mumbi</i>, Nairobi City Water and Sewerage company</p>	
Break	17:00 - 17:15		
Plenary Debate	17:15 - 18:00		
Participative Societies Creating New Challenges for the Water Sector <i>Ben Schouten</i>		Great Hall Q2	

Programme

Wednesday

Track 1: Cities, Utilities & Industries Leading Change
Track 2: Water & Wastewater Processes & Treatments
Track 3: Re-charting the Course of Water Resources
Track 4: Enabling Progress
Track 5: Water Quality, Safety & Human Health

Keynote Plenary	09:00 - 09:45		
Simplifying the Complexities of Water Resources Management <i>Eva Abal</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
BIOFILM PROCESSES		Room GHQ2 Technical	Room M1 Technical
<p>Chair: Kuruvilla Matthew <i>Murdoch University, AU</i></p> <p>10:30 Introduction</p> <p>10:35 Biological Nutrient Removal In A Continuous Biofilm Process <i>Torgeir Saltnes, (NO)</i></p> <p>10:55 A New Concept For Mainstream Deammonification In MBBRs -- From Lab Studies To Full Scale Evaluation <i>Maria Piculell, Veolia Water Technologies, AnoxKaldnes (SE)</i></p> <p>11:15 State-of-the-art Non-destructive Biofilm Characterization Techniques In Membrane Systems <i>Johannes Vrouwenveld, King Abdullah University of Science and Technology (SA)</i></p> <p>11:35 Operation Of Membrane Aerated Biofilm Reactor For The Complete Secondary Treatment Of Municipal Wastewater <i>Eoin Syron, Oxymem Ltd (IE)</i></p> <p>11:55 Closing summary</p>		<p>METAGENOMICS OF WATER SYSTEMS</p> <p>Chair: Aijie Wang <i>Chinese Academy of Sciences, CN</i></p> <p>10:30 Introduction</p> <p>10:35 Transcriptomics And Quantitative Proteomics Reveal Metabolic Networks Of Hydrogen-producing Bacterium <i>Defeng Xing, Harbin Institute of Technology (CN)</i></p> <p>10:55 The Use Of RT-PCR Techniques Of E.coli And Enterococci For Fast Detection Of Fecal Pollution In Drinking Water <i>Gerhard Wubbels, WLN (NL)</i></p> <p>11:15 Wastewater Nitrogen Budgets Can Be Resolved By Complementary Functional Gene And Physicochemical Methods <i>Alea Rose, Charles Darwin University (AU)</i></p> <p>11:35 Metagenomic Profiling Of Antibiotic Resistance Genes And Mobile Genetic Elements In A Full-scale WWTP <i>Jianhua Guo, AWMC, The University of Queensland (AU)</i></p> <p>11:55 Closing summary</p>	
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
GHG EMISSIONS FROM WWTP		Room GHQ2 Technical	Room M1 Workshop
<p>Chair: Eveline Volcke <i>Ghent University, BE</i></p> <p>13:30 Introduction</p> <p>13:35 Modelling Of Methane Production In A Sewer System <i>Keshab Sharma, Advanced Water Management Centre, The University of Queensland (AU)</i></p> <p>13:55 Quantification Of Greenhouse Gases Emissions From Reusing Sewage Sludge <i>Ying-Chu Chen, National Taipei University (TW)</i></p> <p>14:15 Characterization Of Nitric Oxide And Nitrous Oxide Emissions From A Full-scale Activated Sludge A2/O Process <i>Ximao Lin, Tongji University (CN)</i></p> <p>14:35 Sludge Drying Lagoon - A Potential Significant Methane Source In Wastewater Treatment Plants <i>Zhiguo Yuan, The University of Queensland (AU)</i></p> <p>14:55 Closing summary</p>		<p>APPLYING MOLECULAR TOOLS IN THE REAL WORLD</p> <p>Chair: Per Nielsen <i>Aalborg University, DK</i></p> <p>Can microbiological methods transform the water industry?</p> <p>Microbiological methods are making the leap from the laboratory into the real world of wastewater and water treatment. As DNA sequencing costs decline, the water industry faces demand for greater efficiency and reliability. Sequencing is just one of the technologies that can be of service to the water industry, less well-known technologies such as proteomics or flow cytometry may have a role. There has never been a better time to bring together researchers and practitioners working in this field. Speakers and IWA BioCluster award winners <i>Mads Albertsen</i> (Aalborg University, SE), <i>Holger Daims</i> (University of Vienna, AT) and <i>Tom Curtis</i> (University of Newcastle, UK) discuss future possibilities and the technical and cultural barriers faced by researchers and practitioners.</p>	
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
ANAEROBIC PROCESSES		Room GHQ2 Technical	Room M1 Technical
<p>Chair: Glen Diagger <i>University of Michigan, US</i></p> <p>15:30 Introduction</p> <p>15:35 Electrical Stimulation Enhanced Denitrification Of Nitrite-dependent Anaerobic Methane-oxidizing Bacteria <i>Xia Huang, State Key Joint Laboratory of Environment Simulation and Pollution Control (CN)</i></p> <p>15:55 Methanogenesis Process Stimulated By Short-term Exposure To Graphene During Anaerobic Digestion <i>Tian Tian, Dalian University of Technology (CN)</i></p> <p>16:15 Environmental Compliance And Biohydrogen Production By Anaerobic Co-digestion Of Glycerin And Whey In An AnSBBR <i>Giovanna Lovato, Instituto Mauá de Tecnologia - Escola de Engenharia Mauá (BR)</i></p> <p>16:35 Decomposition Of Sewage Sludge And Control Of Phosphorus Release By Sulphate Reduction <i>Ryoko Yamamoto-Ikemoto, Kanazawa University (JP)</i></p> <p>16:55 Closing summary</p>		<p>NANOTECHNOLOGY/ NANOMATERIAL APPLICATIONS</p> <p>Chair: Tao Li <i>IWA</i></p> <p>15:30 Introduction</p> <p>15:35 Encapsulation Of Bacterial Degraders And Nanoscale Zero-valent Iron In Alginate For Remediation <i>Eakalak Khan, North Dakota State University (US)</i></p> <p>15:55 Enhanced Anaerobic Digestion Using Nano-zero Valent Iron (NZVI) To Achieve High Efficient Energy Recovery <i>Yayi Wang, Tongji University (CN)</i></p> <p>16:15 Identifying, Counting And Reducing Residual Superfine Powdered Activated Carbon Particles At < 1 G/L In Treated Water <i>Yoshihiko Matsui, Hokkaido University (JP)</i></p> <p>16:35 Removal of trihalomethanes from drinking water by modified nano-zeolite <i>Mohammad Reza Mirbaloochzahi, Sistan and Baloochestan Water and Wastewater co. (IR)</i></p> <p>16:55 Closing summary</p>	
Break	17:00 - 17:15		
Plenary Debate	17:15 - 18:00		
Participative Societies Creating New Challenges for the Water Sector <i>Ben Schouten</i>		Great Hall Q2	

Programme

Wednesday

Keynote Plenary	09:00 - 09:45		
Solutions to Shape Our Water Future: a Voice for Our Waterways <i>Eva Abal</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
ADSORPTION		Room M2 Technical	Room M3 Workshop
Chair: Reynald Bonnard <i>Suez, FR</i>			
10:30 Introduction			
10:35 Efficient Adsorption Of PFOS And F53B From Chrome Plating Wastewater And Their Subsequent Degradation In The Regeneration Process <i>Shubo Deng, Tsinghua University (CN)</i>			
10:55 Enhancing Adsorptive Removal Of Radioactive Iodide By Low-dose Chlorine And Superfine Powdered Activated Carbon <i>Yoshihiko Matsui, Hokkaido University (JP)</i>			
11:15 Encapsulation Of Fe3O4 Nanoparticles In Porous Materials For Removal Of Arsenic From Water <i>Karel Folens, Ghent University (BE)</i>			
11:35 Suitable Characteristic Numbers To Test Granular Activated Carbons For The Removal Of Pharmaceuticals <i>Frank Benstoem, RWTH Aachen University (DE)</i>			
11:55 Closing summary			
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
ION EXCHANGE		Room M2 Technical	Room M3 Workshop
Chair: Tao Li <i>IWA</i>			
13:30 Introduction			
13:35 Towards The Application Of Chalcogenides In The Environmental Remediation: Granulation Of KMS-1 Based Composite For Cs+ Removal <i>Ming-Lai Fu, Chinese Academy of Sciences (CN)</i>			
13:55 Low Waste Solutions For The MIEX® Ion Exchange Treatment Process <i>Anthony Gibson, Ixom (AU)</i>			
14:15 Metal-organic frameworks: potential application in wastewater treatment <i>Chong-Chen Wang, Beijing University of Civil Engineering and Architecture (CN)</i>			
14:35 Removal Of Anionic Pollutants By Nano Iron-based Magnetic Hydrogel For Water Purification With Adsorbent Regeneration <i>Baile Wu, The Hong Kong University of Science and Technology (CN)</i>			
14:55 Closing summary			
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
MEMBRANE PROCESSES		Room M2 Technical	Room M3 Workshop
Chair: Xia Huang <i>Tsinghua University, CN</i>			
15:30 Introduction			
15:35 The Synthesis, Characterization And Industrialization Of Novel Reverse Osmosis Membrane Using Aquaporin Inside Technology <i>Lunliang Zhang, Poten Environmental Group (CN)</i>			
15:55 Using ACH To Control Irreversible Membrane Fouling By Neutralizing Zeta Potential Of Meso-particles At Pre-coagulation <i>Hiroshi Yamamura, Chuo University, Japan (JP)</i>			
16:15 Evaluating Membrane Performance In Recycled Water Treatment Plants For Assets Replacement Strategy <i>Petra Reeve, South Australian Water Corporation (AU)</i>			
16:35 Treating Domestic Wastewater In A Forward Osmosis Membrane Reactor: Performance, Problems And Perspectives <i>Nur Hafizah Ab Hamid, The University of Queensland (AU)</i>			
16:55 Closing summary			
Break	17:00 - 17:15		
Plenary Debate	17:15 - 18:00		
Participative Societies Creating New Challenges for the Water Sector <i>Ben Schouten</i>		Great Hall Q2	

Programme

Wednesday

Track 1: Cities, Utilities & Industries Leading Change
Track 2: Water & Wastewater Processes & Treatments
Track 3: Re-charting the Course of Water Resources
Track 4: Enabling Progress
Track 5: Water Quality, Safety & Human Health

Keynote Plenary	09:00 - 09:45		
Simplifying the Complexities of Water Resources Management <i>Eva Abal</i>		Great Hall Q2	
Coffee Break	09:45 - 10:30		
Session 1	10:30 - 12:00		
ASSET MANAGEMENT I		Room M4 Technical	Room M9 Technical
Chair: Helena Alegre <i>Lnec, PT</i>			
10:30 Introduction			
10:35 Business Case Development For Critical Civil Assets <i>David Marlow, WISER Analysis (AU)</i>			
10:55 Shanghai Water Supply Security Risk And Vulnerability Assessment <i>Songchuan Fang, Mott MacDonald (CN)</i>			
11:15 Dynamic Asset Management: Asset Management Evolution With Smart Network <i>Didier Sinapah, SUEZ (FR)</i>			
11:35 Achieving Capital Efficiency From Pipe Condition Research Project <i>David Zhang, Sydney Water Corporation (AU)</i>			
11:55 Closing summary			
Lunch	12:00 - 13:30		
Session 2	13:30 - 15:00		
ASSET MANAGEMENT II		Room M4 Technical	Room M9 Technical
Chair: Helena Alegre <i>Lnec, PT</i>			
13:30 Introduction			
13:35 The Optimal Renewal Planning Of Multi-regional Water Supply Pipelines Using Dynamic Programming <i>Kibum Kim, University of Seoul (KR)</i>			
13:55 Decentralized Treatment Impacts On Dissolved Oxygen And Sulfide Concentrations In Sanitary Sewers <i>Adam Shypanski, University of Queensland (AU)</i>			
14:15 Sustainability Index For Progress In Municipal Water And Wastewater Services <i>Annika Malm, City of Gothenburg (SE)</i>			
14:35 Australian-made Technology Renews Sydney's Oldest Sewers <i>John Monro, Interflow Pty Limited (AU)</i>			
14:55 Closing summary			
Coffee Break	15:00 - 15:30		
Session 3	15:30 - 17:00		
CUSTOMER MANAGEMENT AND COMMUNICATION		Room M4 Technical	Room M9 Technical
Chair: Kari Elisabeth Fagernaes <i>Oslo Water and Wastewater Works, NO</i>			
15:30 Introduction			
15:35 The Influence Of Elicitation Method On Customer Preferences For Water And Wastewater Services <i>Rebecca Sayles, Cranfield University (UK)</i>			
15:55 Transforming The Water Utility Customer Experience Using Human Centred Design <i>Michael Storey, Sydney Water (AU)</i>			
16:15 Think H2O! - An Educational Partnership To Raise Students' Awareness Of The Water Challenges <i>Kenneth Persson, Sydsvatten (SE)</i>			
16:35 Networks Vs. Hierarchy - Barriers And Stakeholder Networks In The Urban Water-energy Planning Process <i>Lisa Scholten, Delft University of Technology (NL)</i>			
16:55 Closing summary			
Break	17:00 - 17:15		
Plenary Debate	17:15 - 18:00		
Participative Societies Creating New Challenges for the Water Sector <i>Ben Schouten</i>		Great Hall Q2	

Programme

Wednesday

Keynote Plenary 09:00 - 09:45

Solutions to Shape Our Water Future: a Voice for Our Waterways
Eva Abal

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

URBAN DRAINAGE AND SEWERAGE

Chair: **Jean-Luc Bertrand-Krajewski** DEEP, FR

Room M0
Technical

REGULATION-FUTURE PLANNING

Chair: **Hamanth Kasan** Rand Water, ZM

Room P1
Technical

- 10:30 Introduction
- 10:35 Towards Optimized And Reconstructable Sampling Inspection Of Pipe Integrity For Improved Efficiency Of NDT *Lei Shi, University of Technology, Sydney (AU)*
- 10:55 Model Based Predictive Control Of Ferrous Dosing To Reduce Odour And Corrosion In Sewers: Modelling And Field Validation *Guangming Jiang, The University of Queensland (AU)*
- 11:15 Determining Factors Controlling Sewer Corrosion Using Long-term Well Controlled Laboratory Based Studies *Philip Bond, University of Queensland (AU)*
- 11:35 The Role Of Greater Copenhagen Utility In Implementing The City's Cloudburst Management Plan *Julie Ziersen, HOFOR, Greater Copenhagen Utility (DK)*
- 11:55 Closing summary

- 10:30 Introduction
- 10:35 Increased Water Use Efficiency: ¿Does It Lead To Increased Water Productivity? *Guillermo Donoso, Pontificia Universidad Católica de Chile (CL)*
- 10:55 Water Availability, Allocation And Use In Australia -- A National Water Account Perspective *Wijedasa Alankarage, Bureau of Meteorology (AU)*
- 11:15 Understanding Water Resources In Murray - Darling Basin Better Using The Bureau Of Meteorology's National Water Account *Alankarage Wijedasa, Bureau of Meteorology (AU)*
- 11:35 Integrated Wastewater System Modelling: A New Approach For The Development Of Long Term Integrated Plans For Wet Weather *Gerda Hal, VCS (DK)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

WATER AND INDUSTRIAL INNOVATION - RECOVERY AND REUSE

Chair: **Santino Diberardino** LNEG, PT

Room M0
Technical

THE WORKFORCE OF TOMORROW, A GLOBAL RESPONSIBILITY

Chair: **Trine Stausgaard Munk** Ramboll, DK

Room P1
Workshop

- 13:30 Introduction
- 13:35 Using Open Innovation To Address The Challenge Of Water Treatment Residue At Rand Water *Mogan Padayachee, Rand Water (ZA)*
- 13:55 South Africa's Water Research, Development, And Innovation (RDI) Roadmap: 2015-2025 *Jo Burgess, Water Research Commission (ZA)*
- 14:15 Thin-Film Composite Forward Osmosis Membranes Of Thin-Film Layers On Novel Hydrophilic Substrates For Desalination *Xinyu Zhang, State Key Laboratory of Urban Water Resource and Environment, Harbin Institute of Technology (CN)*
- 14:35 Sustainability In Industry: Making It Real *Cheryl Davis, CKD Consulting (US)*
- 14:55 Closing summary

- Can workforce diversity deliver the vision for cities of the future?
- Cities are the future for humanity and by 2050 some 3 billion additional people will be living in urban areas. To be fit for this urbanised future, the water sector needs to recruit and train the skilled workers capable of delivering the future vision for cities. Diversity in professional skills, background, age, gender, culture will enhance the water sector's ability to provide robust and innovative solutions for the water wise, liveable cities of tomorrow. *Diane D'arras* (SUEZ, FR) and *Sue Murphy* (Water Corporation of Western Australia, AU) will discuss and invite debate on the challenges and solutions to providing the workforce of tomorrow and overcoming the diversity drought. Participants will be key to identifying actions needed for success.

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

WATER AND INDUSTRIAL INNOVATION - EFFICIENCY IMPROVEMENT

Chair: **Rod Naylor** Veolia, AU

Room M0
Technical

CUSTOMER EXPERIENCE

Chair: **Lucia Cade** Seaford, AU

Room P1
Technical

- 15:30 Introduction
- 15:35 A More Adaptable Tech For Renewable Energy Powered RO With Hydraulic Driven Pump And Energy Recovery Integrated Device *Ronghui Zhu, CN*
- 15:55 The research on properties of aerobic granular sludge and analysis of microbial community in GSBP *Xiao Wang, Harbin Institute of Technology (CN)*
- 16:15 Targeted Loss Reduction For Water Supply Systems To Achieve Savings In Water Resources *Eddy Renaud, IRSTEA (FR)*
- 16:35 Multi-objective Optimization Of A Self-recirculation A/O-MBR: A Numerical Study Of DO Distribution And Membrane Scouring *Min Yang, Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences (CN)*
- 16:55 Closing summary

- 15:30 Introduction
- 15:35 Alliancing To Drive Operational Efficiency And Provide A Great Customer Experience - The Adelaide Services Alliance *Annelise Avril, Allwater (AU)*
- 15:55 The Role Of State Water Departments In Supporting Successful Community Managed Water Services In Three Indian States *Umila Brighu, Cranfield University (IN)*
- 16:15 Engaging Communities In Management Of Stormwater Pollution: Building Awareness Through Effective Communication *Angela Dean, The University of Queensland (AU)*
- 16:35 What Influences Public Responses To Potable Water Reuse And How Can We Promote Greater Acceptance? *Kelly Fielding, The University of Queensland (AU)*
- 16:55 Closing summary

Break 17:00 - 17:15

Plenary Debate 17:15 - 18:00

Participative Societies Creating New Challenges for the Water Sector
Ben Schouten

Great Hall Q2

Programme

Wednesday

Keynote Plenary 09:00 - 09:45

Simplifying the Complexities of Water Resources Management
Eva Abal

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

SMART PLANTS, SMART NETWORK: WATER OPERATIONS GO DIGITAL

Chair: **David Lamy** Suez, AU

Room P2
Workshop

THE FUTURE OF DIRECT POTABLE WATER REUSE

Chair: **Jörg E. Drewes** Technical University of Munich, DE

Room P3
Workshop

Will going digital transform the water operations?

The workshop is introduced by *Renald Gallis* (Suez, AU) on the transformation of water operations through key enabling connectivity for water metering; *Andreas Weingartner* (S::can, AT) discusses innovative sensors for on-line water quality monitoring and early warning systems; a presentation from *Zdravka Doquang* (Suez, FR) will explore smart water distribution networks and how data analytics has become a key driver for new products and solutions. This is followed by *Michael Storey* (Sydney Water, AU) will then discuss how Sydney Water is creating a digitally connected utility, and the opportunities this creates to improve operations, and services to their customers. *David Lamy* (Suez, AU) will moderate the session and lead a final panel discussion focused on sharing feedback and identifying a vision for the future.

Is Direct Potable Reuse the future for recycled water?

Growing water scarcity, drought and other environmental challenges are fueling an intense debate on reusing wastewater for drinking water. Indirect potable reuse (IPR) has been the main approach adopted so far, but that is being challenged by direct potable reuse (DPR), where recycled water is fed directly into the raw water supply. From Namibia to the USA, Australia to South Africa, DPR is either already happening or being considered. This workshop will present the state-of-the-art of the prospects of DPR from the point of view of reliability and safety. *Jörg Drewes* (TU Munich, DE) presents on the feasibility of DPR in California, USA; *Shane Trussell* (Trussell Technologies, US) on lessons learned from a demonstration-scale facility in San Diego; *Frederic Leusch* (Griffith University, AU) on the potential adverse human health risks; *David Cunliffe* (South Australia Department of Health, AU) on developing global DPR guidelines.

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

COMMUNICATIONS IN A CRISIS SITUATION

Chair: **Kari Elisabeth Fagernaes**
Oslo Water and Sewage Works, Norway

Room P2
Workshop

WATER SAFETY PLANS, A LIFELINE FOR CLIMATE CHANGE AND EXTREME EVENTS

Chairs: **Marion Savill** Affordable Water, NZ
Zdravka Doquang, Suez, France

Room P3
Workshop

How can our communications toolkit help in a crisis?

Communications, marketing, consumer behaviour and partnerships are vital to the future of the water sector. Parts of the industry have embraced new engagement methods and communication tools, but there are lessons to be learned and best practice to be determined. We will explore the resources and tools available, effective uses of new technologies and the power of social media. Groups will discuss different tools and allow participants to share experiences. Attendees will then be put into a fictional crisis, review the crisis from every communication angle, from speechwriters, online communities, media and even the research engineer. Workshop speakers include *Greg Kail* (American Water Works Association, US); *Dennis Mwanza* (Sustainable Water and Sanitation for Africa, KE); *Sandra Hall* (The University of Queensland, AU); and *Helen Stratton* (Griffith University, AU).

What can 12 years of WSP implementation tell us about coping with Extreme Events?

Looking at achievements from both a microbial and a practical treatment plant implementation perspective, how can WSPs help with Extreme Events and what kind of issues will WSPs need to address in the future? *Jennifer De France* (WHO) presents on the achievements of WSPs in large and small water supplies; using case studies from France and Spain; *Jean-François Lorei* (Suez, FR) discusses benefits to operational performance and how they have been achieved; *Paul Byleveld* (New South Wales Department of Health, AU) looks at emerging future trends and how WSPs assist with Climate Change; *Kenneth Persson* (Sydvattn AB, SE) explores the long-term impact of climate change on raw water resources quality and on drinking water plant operation. A panel discussion ends the session.

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

DIGITAL INTERACTIONS FOR THE CUSTOMER CENTRIC UTILITY

Chairs: **Eve Rodrigues** Water Services Association of Australia
Peter Prevos Coliban Water, Australia

Room P2
Workshop

SOIL AQUIFER TREATMENT IN WASTEWATER RECLAMATION

Chair: **x x**

Room P3
Technical

How can digital engagement benefit Water Cities of the Future?

Finding new ways to engage with customers, and developing strategies for effective ICT and social media use, is critical for water service providers. This workshop opens with three talks on utilizing digital tools to engage customers and deliver a better experience. *Dr Silver Mugisha* (National Water and Sewerage Corporation, UG) discusses social media and other digital tools to provide an immediate customer response to service delivery problems; *Pheona Smoczynska* (Yarra Valley Water, AU) addresses the changing service and communication needs of customers; *Tim Davis* (WaterAid, AU) discusses using customers to provide water quality data through mobile phones. Attendees will then join working groups on how to identify the right digital tools for the right job to provide better service.

- 15:30 Introduction
- 15:35 Sustainable Wastewater Reuse Solutions For Managed Aquifer Recharge For Non-potable Application *Aleksandra Lazić, Xylem Inc. (SE)*
- 15:55 Study Of Impacts Of Recycled Water Irrigation On Soils *Matthew Hudson, City West Water (AU)*
- 16:15 Reclaimed Water And Subsurface Water Solutions Provide Solution For Water Scarce Maneadero Valley In Mexico *Petra Ross, Arcadis Nederland BV (NL)*
- 16:35 Empirical Formulas To Predict Virus Attachment In Aquifers As A Function Of Redox Conditions *Jack Schjven, Utrecht University (NL)*
- 16:55 Closing summary

Break 17:00 - 17:15

Plenary Debate 17:15 - 18:00

Participative Societies Creating New Challenges for the Water Sector
Ben Schouten

Great Hall Q2

Programme

Wednesday

Keynote Plenary 09:00 - 09:45

Solutions to Shape Our Water Future: a Voice for Our Waterways
Eva Abal

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

GROUNDWATER MANAGEMENT I

Chair: **Shafick Adams** *Water Research Commission, ZA*

Room P4
Technical

EMERGING TECHNOLOGIES AND INNOVATION

Chair: **Ignaz Worm** *Isle Utilities, UK*

Room P5
Session

Start-up tech companies specially selected to present cutting edge solutions for the topics 'Water reuse to desalination' & 'Smart networks, making them work'. Start up's: Liquid Integrity Sensors: Provides a solution to detect leaks in large liquid storage facilities, by *Kelly Keates*; RedEye: Is the first purpose built cloud and mobile engineering drawing management solution, by *Gavin Tye*; UVS Trenchless Technology: Develops, supplies and services reliable equipment used for condition assessment of pipeline networks and water resources, by *Darren Burrowes*

- 10:30 Introduction
- 10:35 Managing Australia's Largest Groundwater Resource *Mark Foreman, Department of Natural Resources and Mines (AU)*
- 10:55 Safe Drinking Water Abstraction And Nature Management At Winksele-Belgium: The Story Of A Happy Marriage Under Pressure *Tom Diez, De Watergroep (BE)*
- 11:15 Requirements And Efficiency Of Agricultural Nitrogen Reduction Measures In The Federal State Of Mecklenburg-Vorpommern *Ralf Kunkel, Research Centre Jülich (DE)*
- 11:35 Near-well Subsurface Water Treatment For A Sustainable And Reliable Drinking Water Supply *Alexander Vandenbohede, De Watergroep (BE)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

GROUNDWATER MANAGEMENT II: ASR APPLICATIONS

Chair: **Shafick Adams** *Water Research Commission, ZA*

Room P4
Technical

POWERING THE WASTEWATER RENAISSANCE: THE PATH TO CUTTING EMISSIONS AND SAVING BILLIONS IN WASTEWATER SECTOR

Chair: **Randolf Webb** *Xylem, US*

How can smart technology cut GHG emissions and energy costs in the wastewater sector?

Chronic underinvestment in wastewater infrastructure has led to inefficient and fragile infrastructure that wastes energy, generates significant greenhouse gas emissions, and routinely fails. Xylem's latest research – Powering the Wastewater Renaissance – shows that smart technology investments can cut its electricity-related greenhouse gas emissions by 50% and save nearly \$40 billion in the wastewater sector. A multi-stakeholder roundtable discussion – with representatives from utilities, regulators, financiers, and technology providers – explores the opportunities, the challenges, and the potential solutions and next steps. Presentations and case studies set the scene, group discussions explore potentially solutions, and a panel discussion closes the session. A summary report will be provided to all participants. Presenters include *Aleksandra Lazić* (Xylem, SE), *Steven Kenway* (University of Queensland, AU), *Roelof Kruize* (Waternet, NL).

Room P5
Workshop

- 13:30 Introduction
- 13:35 Meeting Melbourne's Growing Demand For Water Using Aquifer Storage And Recovery *Matthew Hudson, City West Water (AU)*
- 13:55 The Economic And Operational Potential Of Subsurface Water Solutions For Freshwater Management *Gerard Van Den Berg, KWR Watercycle Research Institute (NL)*
- 14:15 The Legacy Of Sugar And Salt - A Success Story In Managing Bundaberg's Coastal Aquifers *Camille Jendra, Water Services (AU)*
- 14:35 Economics Of Aquifer Storage And Recovery In Comparison To Its Alternatives In Korea *Jae-Ho Choi, Dong-A University (KR)*
- 14:55 Closing summary

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

WATER IN THE DRIEST CONTINENT - NEW SOURCES WHEN CLIMATE IS CHANGING

Chair: **Dr Emilio Gabbriellini** *IDA, BR*

Is Australia a model for delivering climate independent water infrastructure?

During the Millennium Drought, between 1997 and 2009, South-Eastern Australia suffered its greatest rainfall deficit since the start of the 20th Century. The rush to secure water supply led to substantial fast-track investment in seawater desalination and wastewater reuse facilities in parallel with measures to reduce consumption. *Dr. Matt Hardy* (Bureau of Meteorology, AU), *Sue Murphy* (Water Corporation of Western Australia, AU), *Christopher Gasson* (GWI, UK) and *Peter Beattie* (Former Premier of Queensland, AU), discuss the impact of climate change and approaches to develop alternate water sources, particularly desalination and water reuse. *Ian Law* (IBL Solutions, AU) and *Dr Alistair Grinham* (University of Queensland, AU) discuss in more detail the delivery of Australian facilities and marine environmental impact.

Room P4
Workshop

GRANULAR SYSTEMS (ANAEROBIC AND AEROBIC)

Chair: **Mark van Loosdrecht** *TU Delft, NL*

How are granular sludge systems changing the face of wastewater management?

Granules are large, self-supporting biofilms that form under engineered conditions in aerobic and anaerobic systems. Due to the large amounts of biomass that can be accumulated as granules, they can substantially reduce footprints of wastewater treatment units. High-rate anaerobic granular sludge systems have been extensively used in industrial wastewater treatment systems since the late 60s, but following development in the 90s, domestic aerobic granular sludge systems, such as the Nereda process, have enabled low footprint domestic wastewater treatment systems. This master lecture presents common concepts, design principles, and research and development directions for aerobic and anaerobic granular systems that will assist utility and design engineers, researchers, planning and operators in their work.

Room P5
Lecture

Break 17:00 - 17:15

Plenary Debate 17:15 - 18:00

Participative Societies Creating New Challenges for the Water Sector
Ben Schouten

Great Hall Q2

Programme

Wednesday

Keynote Plenary 09:00 - 09:45

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

BUILDING LEADERSHIP IN THE WATER SECTOR

Organiser: **International WaterCentre**
Chair: **Dr. Andre Taylor** *International WaterCentre, AU*

How to drive positive change through building leadership capacity in the water sector?

Advancing integrated and innovative solutions in the water sector often involves managing complex or wicked problems. Driving positive change in the sector requires skilled leadership; leadership to influence change, build partnerships, anticipate and plan for change, and also to lead high-performing, cross-boundary and multidisciplinary teams. In this session, the International WaterCentre, with its reputation as a global leader in the design and delivery of leadership development products in the water sector, will provide practical guidance on how to build leadership capacity at an individual, team, organisational and/or regional level.

note: This is a repetition from the session on Monday

Career Development Hub
Learning

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

HOW TO BRING YOUR IDEA TO THE MARKET WITH USING THE LEAN STARTUP AND RAPID PROTOTYPING

Organiser: **IWA**
Chair: **Simon Griffith** *Who Gives A Crap, AU*

You have developed a technology, a method, an idea, and you want to bring this idea to market. That means launching in the least amount of time, spending the least amount of money, yet doing everything you can to ensure success. However, 90% of new ideas and innovations will fail. This session will teach you the basics informed by Eric Ries' The Lean Startup to help ensure that your idea is in the 10% that succeed. The session will include real life examples from Who Gives A Crap's experience with The Lean Startup method, as well as a short workshop in rapid prototyping.

Career Development Hub
Learning

Coffee Break 15:00 - 15:30

Session 3 15:30 - 17:00

SUSTAINABLE DELTA GAME – ADAPTATION PATHWAYS

Organiser: **Deltares**
Chair: **Simone De Kleermaeker** *Deltares, NL*

Given the uncertainties about the future, what constitutes a sustainable water management plan?

Water management is increasingly challenged by pressures from stresses such as population growth, potential sea level rise and climate change. Exploring adaptation pathways for the future provides indispensable decision making support in achieving sustainable water management in a changing environment. Sustainable Delta is a serious game that informs and enables communities, stakeholders, elected officials and the general public to better understand water systems and their related restoration and protection measures. It teaches players the importance of negotiation in decision making as well as how to make smarter investment decisions given an uncertain future. Two teams of participants will develop and implement a Sustainable Water Management Plan for the coming 100 years in a fictional setting. number of participants is limited to 20 (*first-come, first-served*).

Career Development Hub
Learning

Break 17:00 - 17:15

Plenary Debate 17:15 - 18:00

Track 1: Cities, Utilities & Industries Leading Change

Track 2: Water & Wastewater Processes & Treatments

Track 3: Re-charting the Course of Water Resources

Track 4: Enabling Progress

Track 5: Water Quality, Safety & Human Health

Business Forums

Wednesday

Congress Programme

Thursday:

Addressing the global water challenge demands imaginative approaches and the adoption of new paradigms and technologies.


Participating in technical sessions including oral and poster presentations, brings you the latest findings and allows you to connect to new developments. Attending workshops will provide insight and inspiration for cooperation and collaboration on research and practical applications. The workshops and technical sessions provide a unique opportunity for connecting with peers from across the water sector.

SOCIAL MEDIA

Don't miss out. Follow us and join the conversation:

 [#iwa2016brisbane](#)

 www.facebook.com/InternationalWaterAssociation

 www.linkedin.com/company/international-water-association

Thursday

ready for
the resource
revolution



82,000 employees worldwide are committed to smart and sustainable resource management.

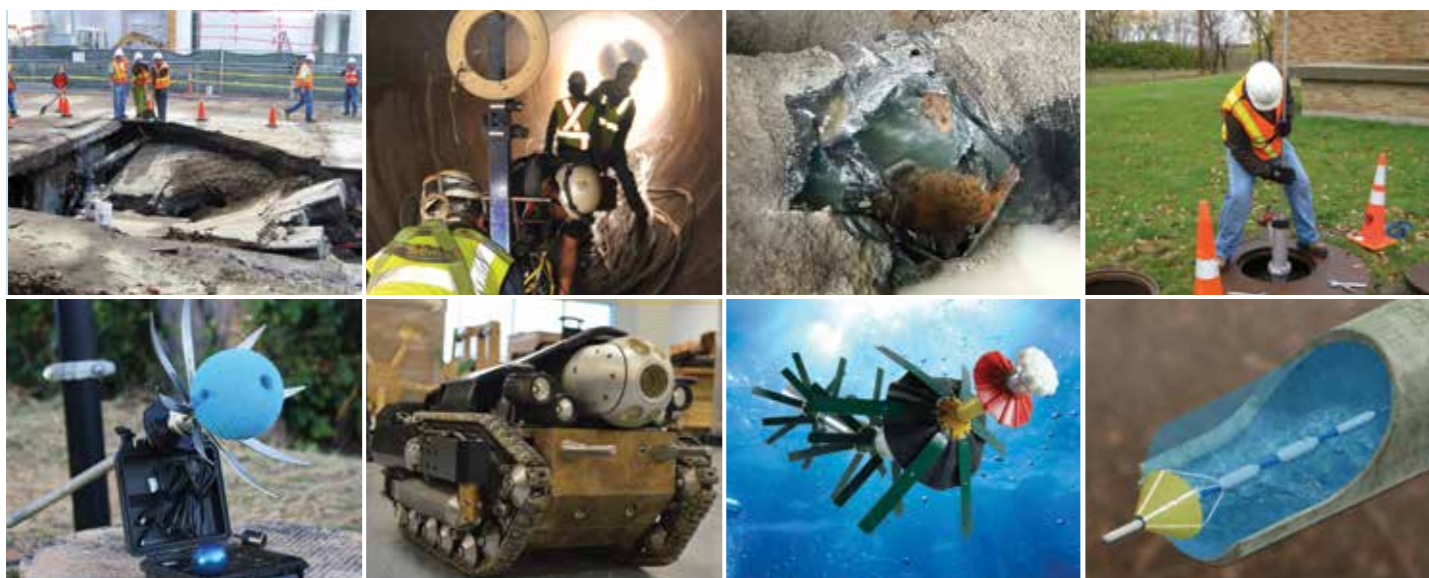
In 2015, all the Group commercial brands became one. On five continents, SUEZ supports towns and industries in the circular economy to maintain, optimise and secure the resources essential for our future
suez.com

Join us booth number 410, central square, Great Hall

RCS Nanterre 433 466 570 - Les ateliers devarieux



WE HELP UTILITIES PROTECT THEIR AGING PIPELINE INFRASTRUCTURE



Pure Technologies is a world leader in the development and application of innovative technologies for inspection, monitoring and management of aging pipeline infrastructure.

puretechltd.com

Thursday Spotlight

Plenary Session / 09:00 - 09:45 / Great Hall Q2

Can the water microbiome save the biohealth of the Planet?



Joan Rose
Homer Nowlin
Chair in Water
Research at Michigan
State University
(United States)

Introduced by: Tom Mollenkopf
(Senior Vice President, IWA) (tbc)

Moderator: Darryl Day

(International Centre of Excellence in Water Resources Management, AU) (tbc)

Panel Members:

- Frederic Leusch (Griffith University, AU)
- Mads Albertsen (Aalborg University, DK)

Closing Ceremony, Master Lecture and Forum

Science and Technology Leaders Forum / 10:30 - 15:00

Sky Room

Seeking a shared vision for international water research collaboration and impact, this Forum will bring together some of the top researchers and technology innovation leaders to discuss and identify shared research agendas and effective application pathways to accelerate innovation and create greater impact across the water sector.

Master Lecture / 10:30 - 12:00

Abatement Options for Mixtures of Emerging Contaminants
Room P5

Lecturer: Stefan Kools

KWR Watercycle Research Institute- Netherlands

Closing Ceremony / 15.30 - 17.00

Great Hall Q2



IWA World Water Exhibition / 09:00 - 18:00

Exhibition Hall 1

Join the world's leading companies working in sustainable water management. The IWA World Water Exhibition is a one-stop-shop where you can connect and do business with the leading industry and technology providers.

Gala evening: relax, network and enjoy / 19:00

Plaza Ballroom of the Brisbane Convention & Exhibition Centre

The gala evening provides an informal and relaxed opportunity to network and connect with other water experts in a truly unique setting. It is the highlight of the social calendar, and a truly fantastic evening is in store for all delegates. In true IWA style the conference dinner promises to be a night of spectacular entertainment accompanied by fine food, wine and good company.
Dress: Smart casual



Programme

Thursday

Keynote Plenary 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?
Joan Rose

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

SCIENCE AND TECHNOLOGY LEADERS FORUM

Sky Room
Forum

The Forum brings together research and technology leaders to discuss and identify shared research agendas, and effective pathways to accelerate innovation and solutions for sustainable water management. Opened by *Helmut Kroiss* (IWA President), *Glen Daigger* (IWA Past President) introduces the Forum and *Mark van Loosdrecht* (TU Delft, NL) presents the current status on water science and technology. Presentations follow on research needs from service providers by *Carlos Campos* (SUEZ, FR), cities by *Rob Skinner* (Monash University, AU), regulators by *Trevor Bishop* (Environment Agency, UK) and basins by *John Riddiford* (John Riddiford & Associates, AU). The session takes into account the research needs identified from other Leader Forums. Attendees will be fully engaged in identifying research priorities, and developing the agenda through a panel discussion.

PATHOGEN OCCURENCE SOURCES AT THE WATERSHED SCALE I

Room S1
Technical

Chair: *Christobel Ferguson* DPI Water, AU

- 10:30 Introduction
- 10:35 Towards The Development Of An Automated ATP Measuring Platform To Monitor Microbial Quality Of Drinking Water *Hans-Jørgen Albrechtsen, Technical University of Denmark (DK)*
- 10:55 Prevalence Of Free-Living Amoeba And Associated Amoeba Resistant Bacteria In Two Farming Communities In South Africa *Clarissa Kruger, University of Johannesburg (ZA)*
- 11:15 Water Quality Risk Management Strategies For Remote Operations *Kathy Northcott, Veolia Australia-New Zealand (AU)*
- 11:35 Applying QMRacatch In A River-floodplain Area For Estimating Sustainable Virus Reductions To Produce Safe Drinking Water *Andreas Farnleitner, TU Wien (AT)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

SCIENCE AND TECHNOLOGY LEADERS FORUM

Sky Room
Forum

Session two focuses on global science and technology collaborations. In order to reach effective collaboration and application, critical analysis of what works / doesn't work for water research collaboration, and how we will need to adapt and change in the future will be shared through a panel discussion, including: *Dean Amhaus* (The Water Council, US); *Shaun Cox* (Water Research Australia Limited, AU); *Stephanie Rinck-Pfeiffer* (GWRC, CA); *Cora Uijterlinde* (STOWA, NL); *Xiaochang Wang* (Xi'an University of Architecture and Technology, CN). Small group discussions will look at how to move further with research priorities within the IWA's work; what potential new initiatives might be established in the future; and the roadmaps ahead. The Forum is closed by Diane D'arras (IWA President Elect).

PATHOGEN OCCURENCE SOURCES AT THE WATERSHED SCALE II

Room S1
Technical

Chair: *Christobel Ferguson* DPI Water, AU

- 13:30 Introduction
- 13:35 Towards The Development Of An Automated ATP Measuring Platform To Monitor Microbial Quality Of Drinking Water *Hans-Jørgen Albrechtsen, Technical University of Denmark (DK)*
- 13:55 Prevalence Of Free-Living Amoeba And Associated Amoeba Resistant Bacteria In Two Farming Communities In South Africa *Clarissa Kruger, University of Johannesburg (ZA)*
- 14:15 Water Quality Risk Management Strategies For Remote Operations *Kathy Northcott, Veolia Australia-New Zealand (AU)*
- 14:35 Applying QMRacatch In A River-floodplain Area For Estimating Sustainable Virus Reductions To Produce Safe Drinking Water *Andreas Farnleitner, TU Wien (AT)*
- 14:55 Closing summary

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Fellows Panel / YWP Panel

Great Hall Q2

Programme

Thursday

Keynote Plenary 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?
Joan Rose

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

MODELLING WASTEWATER PROCESSES

Room GHQ2
Technical

Chair: *Harro Bode* DE

- 10:30 Introduction
- 10:35 Full-scale Modeling Explaining Large Spatial Variations Of Nitrous Oxide Fluxes In A Step-feed Plug-flow Wastewater Treatment Reactor *Bing-Jie Ni, The University of Queensland (AU)*
- 10:55 A Model-based Analysis Of Operating Conditions To Minimise Methane Stripping From An Anaerobic Digester Effluent *Miguel Mauricio-Iglesias, Universidad de Santiago de Compostela (ES)*
- 11:15 Potential Of 2-pathway Models For Describing The Combined Effect Of DO And Nitrite On The N2O Production By AOB *Horan Duan, LISBP-INSA (FR)*
- 11:35 A New Approach To Simultaneous Ammonium And Dissolved Methane Removal From Anaerobic Digestion Liquor *Xueming Chen, The University of Queensland (AU)*
- 11:55 Closing summary

WATER-ENERGY-CARBON CONNECTIONS IN THE URBAN WATER ENVIRONMENT

Room M1
Technical

Chair: *Steven Kenway* University of Queensland, AU

- 10:30 Introduction
- 10:35 Coupling Plant-wide Process Models With Overall Energy Use- And Production-accounting *Imre Takacs, Dynamita (FR)*
- 10:55 Energy Cost Savings For Households And Utilities Via Water Demand Management - New Options For Efficient Cities *Amanda Binks, The University of Queensland (AU)*
- 11:15 Stable Partial Nitrification Under Mainstream Conditions Through NOB Inhibition *Angeles Val del Rio, University of Santiago de Compostela (ES)*
- 11:35 Energy And Nutrient Factory At Amersfoort WWTP In The Netherlands *Bert Gerats, Blue Horizon Solutions (AU)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

MODELLING DRINKING WATER SYSTEM

Room GHQ2
Technical

Chair: *Maria João Benoliel* EPAL, PT

- 13:30 Introduction
- 13:35 The Importance Of Flow Behaviour In Spiral Wound Membrane Systems *Szilard Bucs, King Abdullah University of Science and Technology (SA)*
- 13:55 Autonomous Intake Selection Optimisation Model For A Dual Source Drinking Water Treatment Plant *Edoardo Bertone, Griffith University (AU)*
- 14:15 Operational Implementation Of Soft Sensor Model In The Process Control Of A Surface Water Treatment *Mark Schaap, Water Company Groningen (NL)*
- 14:35 A Study On Prediction Method For Ozone Dosage And Residual Ozone Concentration In Advanced Ozone Water Treatment *Jinseok Hyung, University of Seoul (KR)*
- 14:55 Closing summary

INTERMITTENT WATER SUPPLY: THE CHALLENGE OF TRANSITIONING TO 24/7

Room M1
Workshop

Chair: *Bambos Charalambous* Hydrocontrol Ltd, CY

Can container-stored water be the solution to consumers' intermittent supply?

Transitioning from Intermittent Water Supply (IWS) to 24 hours per day 7 days per week is one of the most difficult conundrums for water utilities. This workshop addresses the many challenges involved, and will explore the bottlenecks entailed in this transition. *Bambos Charalambous*, will set the scene presenting the deeply rooted "beliefs" about IWS and the need for a paradigm shift; *Roland Liemberger* (MIYA, AT) will outline a way forward in transitioning from IWS to 24/7. *Ronnie McKenzie* (WRP, SA) discusses South Africa's current problems caused by prolonged drought, and the ongoing efforts to avoid IWS conditions; *Chrysi Lapidou* (University of Thessaly, GR) will highlight policies and how the water-energy-land use-climate Nexus is influencing Intermittent Water Supply.

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Fellows Panel / YWP Panel

Great Hall Q2

Programme

Thursday

Keynote Plenary 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?
Joan Rose

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

SEAWATER DESALINATION

Chair: Victor Verbeek *Toray Membrane, AU*

Room M2
Technical

IS THE FUTURE DECENTRALISED?

Chair: Kuruvilla Mathew *Murdoch University, AU*

Room M3
Workshop

Is decentralisation the only way that universal access to sanitation is possible?

The Sustainable Development Goals have set us a target of universal access to sanitation by 2030. This is a critically important part of the overall sustainability agenda, and impacts on the health and wellbeing for entire populations. Building the infrastructure for this will be an enormous challenge, but decentralised systems can play a major role in achieving this goal. The workshop will share the experiences from different parts of the world, including India, China and Australia, and discuss the role of decentralised systems in the future. Different case studies will be introduced by *Marcus Starkl* (BOKU University, AT); *Guoren Xu* (Harbin Institute of Technology, CN); and *Cynthia Mitchell* (University of Technology Sydney, AU).

- 10:30 Introduction
- 10:35 Vacuum Membrane Distillation (VMD) With Crystallizer For Mineral Recovery From Hypersaline Reverse Osmosis Concentrate *Saravanamuthu Vigneswaran, University Tehcnology Sydney (AU)*
- 10:55 Faradaic Reactions In Batch-mode Capacitive Deionization *Di He, University of New South Wales (AU)*
- 11:15 Fouling Prevention And Cleaning Strategies In Submerged Vacuum Membrane Distillation And Crystallization *Helen Julian, University of New South Wales (AU)*
- 11:35 Treatment Of RO Brine From CSG-produced Water Using Graphene/PVDF Flat-sheet Membrane Distillation *Hokyong Shon, University of Technology Sydney (AU)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

NOVEL DESALINATION TECHNOLOGIES

Chair: Victor Verbeek *Toray Membrane, AU*

Room M2
Technical

UTILITIES SHARING KNOWLEDGE ON SUSTAINABLE URBAN WATER MANAGEMENT

Chair: Anders Bækgaard *WaterCentre South - Odense, DK*

How can utilities initiate a paradigm shift to implement best practice and innovation?

In a world where utilities are faced with demands for improved efficiency against a backdrop of challenges to water supply and sanitation caused by growing populations, rapid urbanisation and increasing water scarcity in all global regions, there is a need to cooperate to overcome the challenges. We will demonstrate how leading utilities have implemented close co-operation on all levels in their organisations. In this workshop we will discuss new solutions and trends in water management and share experiences. Examples are utilities working together to increase energy efficiency, to handle the seismic shift from wastewater treatment to resource recovery, or new solutions for climate change adaptation that improves urban livability while managing storm water. Speakers include *Amit Pramanik* (WE&RF, USA), *Guihe Tao* (PUB, SG), and *Roelof Kruize* (WaterNet, NL).

- 13:30 Introduction
- 13:35 Solar-powered Reverse Osmosis: a Near-future Milestone To Achieve Sustainable Water Production In The UAE *Hassan Arafat, Masdar Institute of Science and Technology (AE)*
- 13:55 Development Of A SWRO-PRO Hybrid Desalination System: Pilot Plant Investigations *Yong Gyun Park, GS E&C (KR)*
- 14:15 Assessing Bacterial Growth In Seawater Reverse Osmosis Systems: A New Method For Measuring Bacterial ATP *Almotasembelleh Abushaban, UNESCO-IHE Institute for Water Education (NL)*
- 14:35 An Experimental Investigation Of A Low Temperature Thermal Pump For Reverse Osmosis Desalination *Jack Nihill, RMIT (AU)*
- 14:55 Closing summary

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Fellows Panel / YWP Panel

Great Hall Q2

Programme

Thursday

Keynote Plenary 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?
Joan Rose

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

BRINGING LIVEABLE CITIES TO LIFE I

Chair: Jill Fagan *Water Services Association of Australia, AU*

Room M4
Workshop

How can we capture the value from calling liveable cities to action?

Water wise cities that are more liveable, sustainable and resilient have become a major global sustainability issue. The purpose of this workshop is to share novel ideas about how the water sector and water professionals can contribute to more liveable cities. In addition, attention will also be given to what other people and professions should be involved? And how do we engage with them? The session will be highly interactive, with a range of speakers from inside and outside the industry that will inform, inspire, and challenge the audience. Presentations by *Jamie Wart* (CRC Water Sensitive Cities, AU); *John Batten* (Arcadis, US); *Stuart Waters* (Twyfords Consulting, AU).

MEETING THE MULTIPLE REQUIREMENTS FOR DISINFECTION

Chair: John Bridgeman *University of Birmingham, UK*

What are the future demands for disinfection in developing and developed countries?

Disinfection is required in treating multiple kinds of water and in addressing multiple water quality issues all over the world. The panelists and audience will discuss the future demands for disinfection in developing and developed countries. This includes facility, reagent, practice, regulation and research, under the condition of multiple demands for disinfection during drinking water supply, wastewater and reclaimed water treatment. The workshop invites four speakers to share their opinions and knowledge on disinfection: *Joe Jacangelo* (MWH/John Hopkins University, US), *Shane Trussell* (Trussell Technologies, US), *Joan Rose* (Michigan State University, US), *Chao Chen* (Tsinghua University, CN).

Room M9
Workshop

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

BRINGING LIVEABLE CITIES TO LIFE II

Chair: Jill Fagan *Water Services Association of Australia, AU*

Room M4
Workshop

How can we capture the value from calling liveable cities to action?

Water wise cities that are more liveable, sustainable and resilient have become a major global sustainability issue. The purpose of this workshop is to share novel ideas about how the water sector and water professionals can contribute to more liveable cities. In addition, attention will also be given to what other people and professions should be involved? And how do we engage with them? The session will be highly interactive, with a range of speakers from inside and outside the industry that will inform, inspire, and challenge the audience. Presentations by *Jamie Wart* (CRC Water Sensitive Cities, AU); *John Batten* (Arcadis, US); *Stuart Waters* (Twyfords Consulting, AU).

LOW IMPACT STRATEGIES TO MANAGE DIFFUSE POLLUTION AND IMPROVE WATER QUALITY

Chair: Lee-hyung Kim *Kongju National University, KR*

What are the next innovations to improve Water Quality Management and prevent eutrophication?

Raising awareness of current significant diffuse pollution issues amongst the international community, and encouraging discussion on the latest research, is vital to improving water quality management. The workshop will explore cutting-edge technology for monitoring and modeling diffuse pollution; diffuse pollution impacts on urban land use, agricultural and coastal areas; advance water quality management approaches dealing with diffuse pollution; and innovative solutions and policy development, resulting in the reduction of diffuse pollution and eutrophication. The workshop will have contributions from *Brian D'Arcy* (Abertay University, UK); *Michael K. Stenstrom* (University of California, US); *Ana Deletic* (Monash University, AU); and *Lee-Hyung Kim* (Kongju National University, KR).

Room M9
Workshop

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Fellows Panel / YWP Panel

Great Hall Q2

Programme

Thursday

Keynote Plenary 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?
Joan Rose

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

NATURAL DISASTERS AND EMERGENCY PREPAREDNESS

Room M0
Workshop

Chair: **Matsui Yoshihiko** *Hokkaido University, JP*

Can the water sector prepare and respond to large scale disasters?

Over the last decade we have witnessed numerous natural disasters around the world, including huge earthquakes that have caused catastrophic damage during, and immediately following, the quake itself, as well as secondary damage in the following weeks and months. Water and sanitation are vital components of any large-scale humanitarian and reconstruction responses. This workshop will highlight lessons learned from recent experience and showcase preparedness planning for a large-scale disaster from various points of view. Presentations by *Sangam Shrestha* (Asian Institute of Technology, TH); *Yang-Long WU* (Chinese Taiwan Water Works Association, TW); *Ozeki Gen* (Bureau of Waterworks Tokyo Metropolitan Government, JP), followed by a group discussion and audience participation.

ASSESSMENT, IMPACTS AND CONTROLS OF MICROBIAL PATHOGENS IN WASTEWATER TREATMENT SYSTEMS AND REUSE SCHEMES I

Room P1
Technical

Chair: **Tobias Barnard** *University of Johannesburg, ZA*

- 10:30 Introduction
- 10:35 How Safe Is Safe? - Advanced Risk Management For Indirect Potable Reuse Using Soil Aquifer Treatment *Sadahiko Itoh, Kyoto University (JP)*
- 10:55 Understanding Pathogen Concentrations In Sewage To Inform Reuse Treatment Goals *Rebecca Ives, Michigan State University (US)*
- 11:15 Cryptosporidium Removal And Inactivation Across The Wastewater Treatment Train: Recycled Water Fit For Purpose *Brendon King, SA WATER (AU)*
- 11:35 New Tools For Quantification And Detection Of Rotavirus In Untreated Sewage *Nicholas Kulia, Michigan State University (US)*
- 11:55 Closing summary

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

APPROPRIATE TECHNOLOGIES FOR DISASTERS AND HUMANITARIAN CRISES

Room M0
Workshop

Chair: **Pierre Le Clech** *UNSW, AU*

Which water technologies are suitable in humanitarian crises?

Many water and wastewater treatment processes have now reached technological maturity, but implementation in disaster zones or developing countries remains challenging. It is therefore critical to assess the limitations of implementation, and develop systems more suitable and resilient in highly challenging environments. During the workshop audience members will have the opportunity to interact with the panellists, consider future activities and discuss the multi-disciplinary challenges of providing water and sanitation in disaster zones. *Bruno Nguyen*, (UNESCO-IHP), provides an overview from IWA's Water Security and Safety Management Specialist Group. *Gavin Blakey* (Engineers without Borders, AU) reports on his Cambodian experience. *Rhett Butler* (Skyjuice Foundation, AU), and *Franz Frechen* (Kassel University, DE) share experiences from the development of gravity-fed microporous membrane modules. *Roger Ben Aim* (FTS, FR) on opportunities for renewable energy systems for desalination of brackish waters.

ASSESSMENT, IMPACTS AND CONTROLS OF MICROBIAL PATHOGENS IN WASTEWATER TREATMENT SYSTEMS AND REUSE SCHEMES II

Room P1
Technical

Chair: **Tobias Barnard** *University of Johannesburg, ZA*

- 13:30 Introduction
- 13:35 Wastewater Ponds - Effective Treatment Technology For The Future, Today *Louise Weaver, Institute of Environmental Science & Research (ESR) (NZ)*
- 13:55 Virus-Particle Associations In Full-scale UASB Reactors And Waste Stabilization Ponds *Matthew Verbyla, Civil and Environmental Engineering, University of South Florida (US)*
- 14:15 Infectious Risk Assessment Of Reclaimed Water By UF Membrane Treatment Process Focusing Attention On Norovirus *Nobuhito Yasui, National Research and Development Agency Public Works Research Institute (JP)*
- 14:35 Validation And Monitoring Of Reverse Osmosis Membrane For Virus Removal: The Current Challenge In Water Reuse *Marie-Laure Pype, The University of Queensland (AU)*
- 14:55 Closing summary

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Fellows Panel / YWP Panel

Great Hall Q2

Programme

Thursday

Keynote Plenary 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?
Joan Rose

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

MIND THE GAP: BUILDING A PREPARED, DIVERSE WORKFORCE

Room P2
Workshop

Chair: **Cheryl David** *CKD Consulting, US*

How can water/wastewater utilities build diverse workforces that are prepared to meet their responsibilities to customers and the environment?

Skilled, prepared employees do not happen by accident. This workshop will explore the diverse components that ensure workforce sustainability, followed by five different experiences across three continents. The session is going to include presentations on candidate development (*Nora Hanke*, EWSETA-ZA); staff development, with a focus on diversity (*Anne Farquhar*, Yarra Valley Water-Australia; and *Bhakti Devi*, Sydney Water-AU); and technical training (*Philip Giantris*, *Shukalb-AL* and *Joel Solikume* from PHWC - NG). Workshop participants will divide into three workgroups (candidate development, staff development, and technical training) to discuss their programs in this areas, challenges and lessons learned, and how IWA can help them move forward together.

SUSTAINABLE WATER SOLUTIONS

Room P3
Workshop

Chair: **Gerard van den Berg** *KWR, NL*

How do we accelerate the development, uptake and implementation of self-sufficient water systems?

Climate change and urban population growth negatively affect freshwater availability. Self-sufficient water systems increase the resilience of industries, agriculture and drinking water supply, but initiating a breakthrough of such systems is difficult. This workshop starts with five pitches by *Paul Jeffrey* (Cranfield University, UK) on the human, natural and technological dimensions of water management; *Christos Makropoulos* (NTUA, GR) on knowledge sharing; *Klaasjan Raat* (KWR, NL) on uptake of ASR by the greenhouse industry; *Seunghak Lee* (KIST, KR) on drivers to initiate large scale ASR demonstrations, and *Petra Ross* (Arcadis, NL) on valorisation of water innovations. The following discussion focuses on strategies for large-scale market uptake of subsurface water solutions to promote self-sufficient water systems.

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

PRICING POLICIES AND HUMAN RIGHTS IN A WATER SCARCE WORLD

Room P2
Workshop

Chair: **Ed Smeets** *Edmadi BV, NL*

How do we improve and enlarge statistical information for pricing policies?

Using information from the international survey performed by the IWA Specialist Group on Statistics and Economics, as well as case studies, we will analyse cost optimisation, tariff affordability and possible measures to adopt in the future. *Ed Smeets* (Edmadi BV, NL) will introduce the workshop context; *Teodor Popa* (Romanian Water Association, RO) gives a bird's eye view of the water tariffs used in different countries and other key findings of the survey; *Anita Bento Ferreira* (EPAL, PT) gives a case study of water pricing and the social tariffs in a country facing water scarcity; *Guillermo Donoso* (Pontificia Universidad Católica de Chile, CL) will explain the water tariff system, and how the human right to water is ensured even in severe drought.

PROTECTION OF WETLAND, ECO-SYSTEMS SERVICES FROM WATER QUALITY RISKS

Room P3
Workshop

Chair: **Stuart Bunn** *Griffith University, AU*

How do ecosystem services and risk management tools help deliver the SDGs?

Healthy water-related ecosystems and adequate water quality are essential for livelihoods and human health, mostly in areas of low socio-economic development. Wetlands and water quality are interlinked: wetlands can be at risk from poor water quality but can also be vital to improve it. We explore interlinkages and risk management tools to ensure both ecosystem services and human health in achieving the Sustainable Development Goals, particularly on ambient water quality, wastewater treatment and protecting and restoring water-related ecosystems with presentations by *Paul Glennie* (UNEP-DHI Partnership, AU) and *Bushra Nishat* (IWA), and a panel discussion where they will be joined by *Stuart Bunn* (Griffith University, AU); *Simon Funge-Smith* (FAO); *Brian D'Arcy* (Abertay University, UK); *Mike Ronan* and *Fernanda Adame* (Queensland Government, AU)

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Fellows Panel / YWP Panel

Great Hall Q2

Programme

Thursday

Keynote Plenary 09:00 - 09:45

Can the Water Microbiome Save the Biohealth of the Planet?
Joan Rose

Great Hall Q2

Coffee Break 09:45 - 10:30

Session 1 10:30 - 12:00

NOT WAITING FOR A CRISIS: DRAWING LESSONS FROM EFFECTIVE BEHAVIOUR CHANGE COMMUNICATION IN PRACTICE

Chair: **TBC**

Do we need to wait for a crisis to start behavior change campaigns?

Increasingly, we recognise the need to go beyond tradition forms of communication to address demand management and water security. Yet, approaches to behaviour change are fragmented and lack integration in the design and management of service delivery. High profile water crises, such as California and San Pablo, have delivered major behaviour change components in their responses. In 2011, Brisbane was similarly gripped by a water crisis, and behaviour change measures targeted decreases in household usage. Targets were met and maintained even after the drought had abated. But why wait for a crisis? This workshop gives an expert overview of behaviour change, followed by an interactive round table discussion distilling key lessons for effective behavior change strategies.

Room P4
Workshop

ABATEMENT OPTIONS FOR MIXTURES OF EMERGING CONTAMINANTS

Chair: **Stefan Kools** *KWR, NL*

Should we be worried about emerging contaminants?

Emerging contaminants, the threats they pose and how to deal with them are not fully understood. The lecture will highlight state-of-the-art knowledge on the subject and present some examples of prioritisation efforts on chemicals in the environment. Solutions-focused, we will focus on possible technological and non-technological abatement options throughout the chemical life cycle to improve water quality. The removal efficiencies are presented from gathered information, for example made available by the Watershare tool AbetES. The data and various abatement options will be discussed with the audience, based on the existing assessments regarding their efficiencies to improve water quality and their potential for implementation. This Master lecture will be of particular interest to water quality managers.

Room P5
Lecture

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

REDUCING NON-REVENUE WATER AND ENERGY COSTS FOR UTILITIES

Chair: **Kenneth Thompson** *CH2M, US*

How do we Reduce Non-Revenue Water and Energy Costs for Utilities?

It has been estimated that the average amount of non-revenue water for utilities worldwide is around 30%, which impacts the cost of service and overall water resources management. Non-revenue water can be associated with pipeline breaks, old leaking infrastructure, water theft, poor metering techniques, and operations such as distribution system flushing, fire demand. Eighty percent of the non-labor cost of water is associated with energy for treatment and pumping, creating a very strong link between water and energy. This highlights the importance of reducing water loss for utilities located in dry and wet climates because of the impact on their overall cost of service. The purpose for the workshop will be to highlight the latest approaches to reducing non-revenue water. Presentations from *Amir Telog* (Takadu, IL), and *Attila Stahlot* (Queensland Urban Utility, AU), *Keith Hilson* (i2o, UK), *Raju Dharani* and *Aed MacPhaidin* (Queensland Urban Utilities, AU), *Russell Considine* (Itron, AU)

Room P4
Workshop

ADDRESSING COMPLEXITY IN WATER THROUGH DESIGN THINKING

Chair: **Dr Piet Filet** *QUT Business School, AU*

What is a Charrette and how can it make planning more effective?

Solutions to complex water issues require diverse views from across disciplines and communities to identify key actions. A planning charrette enables this collaborative approach. This workshop highlights 4 charrette approaches: *James Davidson* and *Sam Bowstead* (South East Queensland WaterFutures, AU) look at combined flood and drought options for Brisbane; *Dr Briony Rogers* (Monash University, AU) discusses a shared vision for a water sensitive Melbourne; *Dr Assela Pathirana* (UNSECO-IHE, NL) investigates climate adaptation for water supply of Ho-Chi-Minh City; and *Prof Jeroen Rijke* (UNESCO-IHE, NL) looks at the implementation of measures for a Water Sensitive Rotterdam. Small groups will question how each derived their results; a panel will describe how the charrettes advanced their solutions, highlighting the range in effectiveness of the approach.

Room P5
Lecture

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Fellows Panel / YWP Panel

Great Hall Q2

Programme

Thursday

Keynote Plenary 09:00 - 09:45

Coffee Break 09:45 - 10:30

Lunch 12:00 - 13:30

Session 2 13:30 - 15:00

HOW TO ENGAGE STAKEHOLDERS IN THE WATER SECTOR

Organisers: **IWA, Seqwater, Engagement Plus**

Chairs: **Robert Goedecke** *Seqwater, AU*
Michelle Feenan *Engagement Plus, AU*

To shape the future of the water sector, we must look to develop solutions which are adaptable to the changing environment. This requires collaboration, leadership, and extensive stakeholder engagement throughout decision making processes. Stakeholder engagement is not an easy skill to develop. Further, it is recognised that this skill is becoming increasingly important in all aspects of the water sector. Experts in Stakeholder Engagement will provide you with insights into their profession, while Seqwater's Water Security Program will be used as a practical exercise for delegates to learn how to map stakeholder influence and interest as well as develop the engagement goal that will help drive the stakeholder engagement process.

Career Development Hub
Learning

Coffee Break 15:00 - 15:30

Closing Ceremony 15:30 - 17:00

Track 1: Cities, Utilities & Industries Leading Change

Track 2: Water & Wastewater Processes & Treatments

Track 3: Re-charting the Course of Water Resources

Track 4: Enabling Progress

Track 5: Water Quality, Safety & Human Health

Business Forums

Thursday

Posters Presentations

Posters:

Poster presentations will take place daily. They will provide an opportunity to hear presenters discuss their work and to have your questions answered.

SOCIAL MEDIA

Don't miss out. Follow us and join the conversation:

 [#iwa2016brisbane](#)

 www.facebook.com/InternationalWaterAssociation

 www.linkedin.com/company/international-water-association

Posters

Poster Presentations

Stage 1

Monday

09:45 - 10:30	Poster 1 - 14
12:00 - 13:30	Poster 15 - 43
15:00 - 15:30	Poster 44 - 52
17:00 - 17:15	Poster 53 - 57

Tuesday

09:45 - 10:30	Poster 58 - 71
12:00 - 13:30	Poster 72 - 100
15:00 - 15:30	Poster 100 - 109
17:00 - 17:15	Poster 110 - 113

Wednesday

09:45 - 10:30	Poster 114 - 129
12:00 - 13:30	Poster 130 - 159
15:00 - 15:30	Poster 160 - 169
17:00 - 17:15	Poster 170 - 174

Thursday

09:45 - 10:30	Poster 175 - 189
12:00 - 13:30	Poster 190 - 219

Track 1: Cities, Utilities & Industries Leading Change

Track 2: Water & Wastewater Processes & Treatments

Track 3: Re-charting the Course of Water Resources

Track 4: Enabling Progress

Track 5: Water Quality, Safety & Human Health

Stage 2

Monday

09:45 - 10:30	Poster 220 - 234
12:00 - 13:30	Poster 235 - 264
15:00 - 15:30	Poster 265 - 274
17:00 - 17:15	Poster 275 - 279

Tuesday

09:45 - 10:30	Poster 280 - 292
12:00 - 13:30	Poster 293 - 327
15:00 - 15:30	Poster 328 - 337
17:00 - 17:15	Poster 338 - 341

Wednesday

09:45 - 10:30	Poster 342 - 356
12:00 - 13:30	Poster 357 - 386
15:00 - 15:30	Poster 387 - 396
17:00 - 17:15	Poster 397 - 410

Thursday

09:45 - 10:30	Poster 411 - 422
12:00 - 13:30	Poster 423 - 439

Poster Presentations

Each author introduces the poster in a three minute long pitch. Poster sessions are grouped by thematic track, with two simultaneous sessions taking place in two stages in the Hall 1 Concourse and the Great Hall Concourse (Foyer Level).

Poster Awards

Explore the Hall 1 Concourse and the Great Hall Concourse (Foyer Level), download the digital version of each poster through the mobile App and digital proceedings. Follow the instruction in the voting card available in your satchel. The votes between Monday and Wednesday will define which are the best posters. The winners will be awarded during the plenary session on Thursday afternoon.

Poster Presentations

1	3259332	AU	Singapore's Deep Tunnel Sewerage Scheme Phase 2 - Planning And Preliminary Design <i>James Currie</i> Black & Veatch
2	3261405	IR	A New Model For Short-Term Water Demand Forecasting (Case Study: Water Distribution System Of Tehran City) <i>Ali Dolatshahi-Zand</i> NWW
3	3261414	HK	Sustainable Energy Management In Hong Kong's Water Supply System <i>Tai On Lee</i> Water Supplies Department, HKSAR
4	3262176	BR	Removal Of Pharmaceuticals From Waters By Means Of Chlorine Oxidation <i>Marcelo Libanio</i> Federal University of Minas Gerais
5	3262525	JP	From "Safe, Better-tasting Tap Water Project" To "Tokyo Waterworks Innovation Project", for Further Evolution And Promotion <i>Yasuhiro Kojima</i> Tokyo Waterworks Bureau
6	3265890	CN	Promoted Discoloration Of Methyl Orange In Fe(III)/H2O2 Fenton System: Effects Of Gallic Acid On Iron Cycling <i>Huiyu Dong</i> Chinese Academy of Sciences
7	3266093	CN	Sorption And Biodegradation Of Sulfamethoxazole By Sulfate-reducing Bacteria Activated Sludge In Anaerobic Wastewater Treatment <i>Hui Lu</i> Sun Yat-Sen University
8	3266161	KR	Assessment Of PAH Risk By Potential Contamination Of A Drinking Water Source By The Rim Fire <i>Yongju Choi</i> Seoul National University
9	3266420	AU	Macro Asset Criticality - How To Assess Thousands Of Assets In A Few Weeks? <i>Zoubir Ait Mansour</i> SUEZ
10	3266434	AU	Operationalising Sustainable Development Goals For Water Management <i>Tony Wong</i> Cooperative Research Centre for Water Sensitive Cities
11	3266455	JP	Study Of The Pipeline Renewal Priorities Based On The Deterioration And Structure Of The Water Distribution Network <i>Kunizane Takaharu</i> Tokyo Metropolitan University
12	3266457	CN	Effects Of Nitrogen And Organic Carbon Sources On Regulation Of Lipid Accumulation Of <i>Chlorella Pyrenoidosa</i> <i>Wenyan Liang</i> Beijing Forestry University
13	3266574	CN	Physical Properties Of Anaerobic Sludge Granules As Hydrogels In A Synchronous Started-up Anaerobic Baffled Reactor <i>Yili Wang</i> Beijing Forestry University
14	3267121	NG	Simulation Model In Markovian Decision Theory In Allocation Optimization In Multi-purpose And Multi- Objective NRBD <i>Luke Eme</i> Chukwuemeka Odumegwu Ojukwu University
15	3267148	NG	Simulation Modeling In Markovian Decision Theory In Conjointly Managed Competitive Multi -- Purpose A/IRBEDS, Nigeria <i>Luke Eme</i> Chukwuemeka Odumegwu Ojukwu University
16	3268482	DK	Establishing Best Practice Methods For Climate Adaptation Project Design And Implementation In Urban Areas <i>Michael Tengnagel</i> Ramboll
17	3268984	AU	How To Leverage Existing Systems To Transform A Traditional Network Into An Intelligent Water Network <i>Ranga Fernando</i> Yarra Valley Water
18	3268991	JP	Occurrence Of Muddy Odor In Clean Upper River Due To Benthic Cyanobacteria: - Occurrence And Behavior In River <i>Shinichi Kimura</i> Bureau of Waterworks, Tokyo Metropolitan Government
19	3268995	AU	Towards Practical Implementation Of In-situ Electrochemical Generation Of Iron And Caustic For Sulfide Control In Sewers <i>Ije Pikaar</i> Advanced Water Management Centre, The University of Queensland
20	3269021	AU	Adaptation Pathways For Maintaining Ecological Objectives Of Urban Wetlands In A Drying Climate <i>Amar Nanda</i> The University of Western Australia
21	3269027	KR	Comparison Of TOC Based Refractory Ratio Of Swine Manure With Traditional Index <i>Seong-Wook Oa</i> Woosong University
22	3269033	NL	The Green Village: Water Infrastructure In An Innovation Pilot, Water Out, Shit In <i>Peter van Thienen</i> KWR Watercycle Research Institute / Wageningen University
23	3269133	JP	Sewerage To Support The Attraction Of Tokyo -Its Contributions And Vision <i>Yui Saito</i> Tokyo Metropolitan Government
24	3269187	JP	Characteristics Of Biofilm Of Anaerobic Fluidized Bed Reactor Using Activated Carbon Carrier <i>Junta Takahashi</i> Swing Corporation
25	3269223	PL	Aeration Performance Of Vortex Flow Regulators: Pilot Scale Experiments <i>Patryk Wójciszewski</i> Wrocław University of Technology
26	3269265	KR	Estimation Of Markov Deterioration Hazard Model For Water Pipeline Systems Using Bayesian Inference <i>Hwisu Shin</i> University of Seoul
27	3269277	JP	A Study Of The Anti-Corrosion Effects Of Intermittent Electric Current By Electrolytic Corrosion Prevention Equipment <i>Yuichiro Tsuyuki</i> Yokohama Waterworks Bureau
28	3269466	CN	Determination Of Trace Trimethylamine In Ambient Air By Headspace-Gas Chromatography <i>Dezhi Sun</i> Beijing Forestry University
29	3269538	CN	Degradation Of Sulfamethoxazole In Aqueous Solution By G-C3N4 Under Visible Irradiation <i>Jiayu Tian</i> Harbin Institute of Technology
30	3269569	FI	Customer- And Citizen-Oriented Water Services As Part Of Utility Core Activities <i>Tapio Katko</i> Tampere University of Technology
31	3269588	CN	The Successful NRW Reduction Experience In Dongjiang Water Utility <i>Lu Yuchen</i> SZWG Shenzhen Water Group co. Ltd
32	3269589	IR	The Effect Of Square Pore Alteration On Mesh Efficiency Of Standard Fog Collector <i>Zahra Elmi</i> Sistan and Baluchestan Water and Waste Water Company
33	3269727	AU	Managing Abnormal Peaks In Wastewater Loads In Treatment Plant Influent Using Biological Process Capability Assessment <i>Raju Mangalam</i> Sydney Water Corporation
34	3269728	AU	Technological And Community Water Efficiency Strategies For Addressing Water-energy Demand In Remote Australian Towns <i>Cara Beal</i> Griffith University
35	3269732	AU	Investigation Of Cohort Properties For Australian Cast Iron Water Mains <i>Rui Jiang</i> Monash University
36	3269740	KR	The Waterless Portable Private Toilet (WPPT): An Innovative Sanitation Solution In Disaster Zones <i>Mooyoung Han</i> Seoul National University
37	3269776	AU	Trading For A Better Future Of Moreton Bay: QUU's Nutrient Emission Abatement Roadmaps <i>Elaine Pang</i> Arup
38	3269781	JP	Towards The Sustainable Waterworks Facilities For The National Capital Of Japan <i>Makoto Kakinuma</i> Bureau of Waterworks, Tokyo Metropolitan Government
40	3269805	AU	Australian Water Consumer Outlook: Summary And Insights <i>Daniel Lambert</i> Arup
41	3269835	AU	Demand Management: The Dollars And Sense <i>Daniel Lambert</i> Arup
42	3269841	AU	Risk Based Management Of A Critical Steel Main <i>Roberto Mascarenhas</i> Queensland Urban Utilities
43	3269846	AU	Adsorption Of Pb2+ Ions From Aqueous Solutions By Biochar Derived From Date Seed Biomass <i>Zainab Mahdi</i> Griffith University
44	3269852	AU	Aerobic Biodegradation And Sunlight-induced Photodegradation Of Micropollutants In Wastewater Effluents <i>Yufei Wang</i> RMIT University
45	3269868	AU	Burgeoning Brisbane: Post-flood Planning And The Tensions With Multi-residential Development. <i>Samuel Bowstead</i> The University of Queensland
46	3269887	JP	Reduction Of Gas Consumption In Sludge Incinerators <i>Shuhei Awakawa</i> Tokyo Metropolitan Sewerage Service Corporation
47	3269897	AU	Novel application of fluorescence measurement for optimized algal monitoring <i>Sara Imran Khan</i> UNSW

Addressing the global water challenge

through innovation, education and engagement

The University of Queensland understands the water challenges facing our planet. Scientific discovery, technological innovation, strategic research partnerships, and practical policy application are creating a more sustainable future for us all.

Our expertise is represented across four themes:

- Water for productive economies
- Water for cities
- Water for the environment
- Water-resilient communities

Learn more at gci.uq.edu.au/sustainable-water-researchers

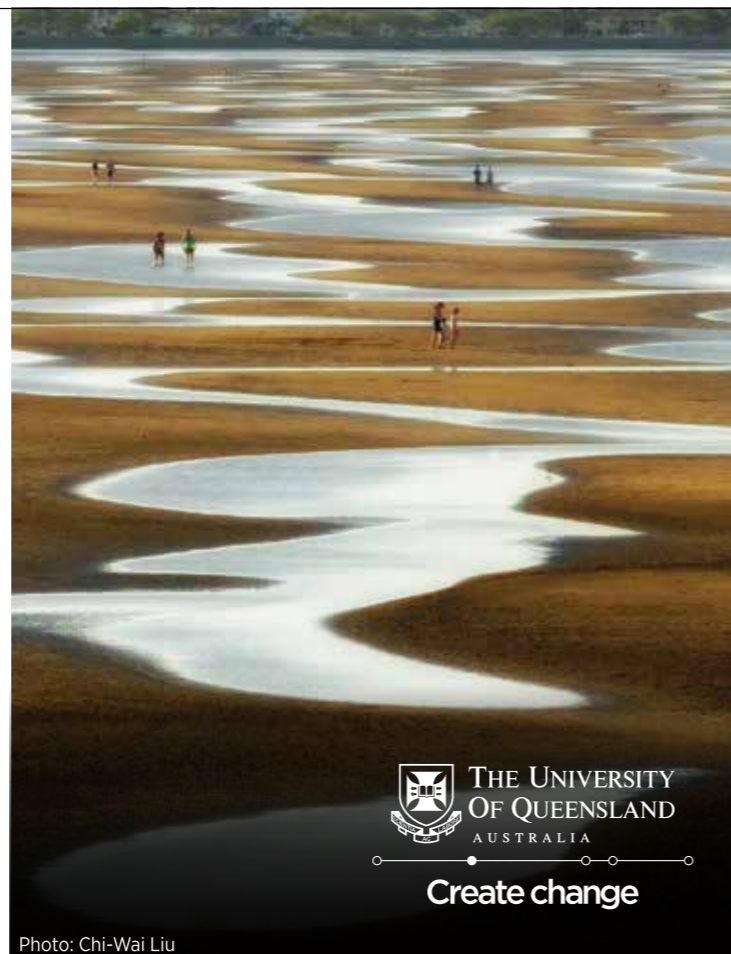


Photo: Chi-Wai Liu



Poster Presentations

48	3269921	NL	Optimal Design Of A Real-life Drinking Water Transport Network Blueprint Using Gondwana <i>Peter van Thienen</i> KWR Watercycle Research Institute
49	3269976	ES	A New Methodology To Measure Resilience In Water Supply Systems <i>Francisco Cubillo</i> Canal de Isabel II Gestión
50	3269980	IR	Indicators Of Quality Control In Bacteriological Laboratory Drinking Water <i>Mahboubeh Kalateh</i> Rural Water and Wastewater Company of Khorasan Razavi
51	3270004	AU	Lessons Learnt From Laboratory Pipe Burst Tests <i>Jayantha Kodikara</i> Monash University
52	3270080	CN	Applying SUSTAIN To Evaluate The Runoff Control Effect Of LID Practices In A Residential Region <i>Tao Chen</i> Beijing University of Civil Engineering and Architecture
53	3270089	JP	Development Of An Internal Drop-Pipe Device For Combined Sewer Systems <i>Yukihiro Ishikawa</i> Tokyo Metropolitan Sewerage Service Corporation
54	3270101	JP	Development Of "Siphon-Culvert Survey And Cleaning Apparatus" For Planned Maintenance <i>Tatsuya Amano</i> Tokyo Metropolitan Sewerage Service Corporation
55	3270102	IT	Microalgal Based Treatment Of Digested Agro Wastes - Lab And Pilot-scale Experiments <i>Francesca Marazzi</i> Università degli Studi di Milano Bicocca
56	3270118	JP	Development And Verification Of New Pressure-Relief Device Strengthened The Function Of Anticorrosive/Deodorizing <i>Naokata Uemura</i> Tokyo Metropolitan Sewerage Service Corporation
57	3270398	CN	Spatial Distribution, Risk Assessment And Potential Sources Of 25 VOCs In Water In Aksu Region, China <i>Jin Luo</i> Tsinghua University
58	3270399	JP	Research On The Application Of Flush Gate To Sewage Pipelines <i>Kazuya Yamada</i> Japan Institute of Wastewater Engineering and Technology
59	3270403	AU	Floating Finsbury: A Costed Case Study For Amphibious Construction In Brisbane <i>Samuel Bowstead</i> James Davidson Architect
60	3270433	CN	The Adsorption Behavior And Mechanism Of Pb(II) Removal By Extracellular Polymeric Substances From Klebsiella Sp. J1 <i>Ang Li</i> Harbin Institute of Technology
61	3270573	AU	Control The Hydrogen Sulphide Emission In Sewer By Combination Of Slight PH Adjustment And Lower Iron Salt With The Minimum Dosage <i>Arumugam Sathasivan</i> Western Sydney University
62	3270598	SG	Field Monitoring Of The Performance Of A Modular Bioretention Tree System In A Tropical Climate <i>Jiangyong Hu</i> National University of Singapore
63	3270632	AU	How Effective Is Water Price Signalling In Remote Australian Indigenous Communities? A Novel Charging Trial <i>Nadine Riethmuller</i> Power and Water Corporation
64	3270659	ES	A Reliable Model Of Residual Useful Life For Distribution Assets <i>Patricia Gomez</i> Canal de Isabel II Gestión
65	3270766	KR	Development Of Treatment System Of First Flush Effect For Urban Area Using Underground Settling And Filtration System <i>Dongil Seo</i> Chungnam National University
66	3270782	BE	The Use Of Alternative Physical Water Treatment Devices For The Prevention Of Scale Build-up In An Industrial Freshwater <i>Boudewijn Meessaert</i> KULeuven
67	3270801	JP	Year-round Operation Result Of A Full-scale On-site Hydrogen Refuelling Station From Sewage Sludge Digestion Gas <i>Ryo Matsumoto</i> National Institute for Land and Infrastructure Management
68	3270812	KR	Development Of Integrated Management System For Efficient Operation Of First Flush Treatment System For Urban River <i>Dongil Seo</i> Chungnam National University
69	3270905	CN	Effects Of Combined UV And Chlorine Treatment On The Chloroform Formation From Triclosan <i>Weiwei Ben</i> Chinese Academy of Sciences
70	3270962	AU	Developing Shared Visions And Strategies: Participatory Processes To Guide Water Sensitive City Transitions <i>Briony Rogers</i> Cooperative Research Centre for Water Sensitive Cities, Monash University
71	3270987	DE	Optimization Of The Pipe Section Reactor Based On The Computational Fluid Dynamics Analysis <i>Pei Hua</i> Institute of Urban Water Management, TUD
72	3270993	UK	Collaborative Innovation In The Water Sector: Approaches And Advantages <i>Vanessa Speight</i> University of Sheffield
73	3271012	CN	A Model For Predicting Transformation Of Pollutant In Sewer System <i>Pengkang Jin</i> Xi'an University of Architecture and Technology
74	3271844	FR	Long Term Non Revenue Water And Network Management <i>Didier Carron</i> Naldeo
75	3273026	FR	Technical Intelligence: A New IT Concept For Driving Efficiency Of A Water Service <i>Didier Carron</i> Naldeo
76	3273069	NL	Adaptation Mainstreaming To Save Money For Achieving Flood Resilience In Cities <i>Jeroen Rijke</i> UNESCO-IHE
77	3273354	KE	Treatment Of Dairy Industrial Effluents Macharia L.N. <i>Lucy Macharia</i> Nairobi Water and Sewerage Company
78	3273597	UK	Numerical Model Development For Variably Saturated Constructed Wetland System For Urban Stormwater Treatment <i>Akintunde Babatunde</i> Cardiff University
79	3273617	PT	"The Emergence Of The Water Supply System Efficiency. The Situation In Portugal And The Opinion Of The Portuguese Municipalities" <i>Octavio Almeida</i> Open University - Lisbon - Portugal
80	3273636	AU	Visuals That Engage People With Water Sensitive Cities <i>Tracy Schultz</i> University of Queensland/CRC for Water Sensitive Cities
81	3273652	UK	Influence Of Key Design And Operational Variables On Pollutant Removal In Experimental Stormwater Constructed Wetlands <i>Akintunde Babatunde</i> Cardiff University
82	3273686	JP	Duplexing And Networking Of Pipelines To Prepare For Risk <i>Kazuhisa Fujikawa</i> Bureau of Waterworks, Tokyo Metropolitan Government
83	3273761	CN	Spatial Distribution, Risk Assessment And Potential Sources Of 25 VOCs In Water In Aksu Region, China <i>Jin Luo</i> Tsinghua University
84	3273842	MN	Water Quality & Supply In The Southern Gobi In Mongolia <i>Chandmani Dambabazar</i> Altai Ubur Gobi Water Basin Administration
85	3273969	MX	Circular Economy And Restoration Of Water Cycle: Two Tools Towards Water Sustainability <i>Jose Gleason</i> University of Guadalajara
86	3274140	KR	Degradation Of Medically-important Pharmaceuticals Found In Wastewater By Microorganisms Using Triple Quad LC-MS/MS <i>Ryan De Sotto</i> Korea University
87	3274221	US	Using Big, Regional-scale Water-quality Databases To Improve Catchment-scale Model Predictions <i>Mi-Hyun Park</i> University of Massachusetts, Amherst
88	3275440	NL	Valuation Of Adaptation Pathways For Urban Flood Risk Management <i>Mohanasundar Radhakrishnan</i> UNESCO-IHE Institute for Water Education, Delft, The Netherlands; CRC for Water Sensitive Cities, Australia
89	3275622	DK	Life Cycle Assessment Of Cloudburst Management Plans In Adaptation To Climate Change In Copenhagen, Denmark <i>Martin Rygaard</i> Technical University of Denmark
90	3279352	FR	Advanced Pressure Management <i>Didier Sinapah</i> SUEZ
91	3279586	CN	Chemical And Microbial In Situ Analysis Of The Oil Contaminated Underground Water At Different Depths <i>Sidan Lu</i> Beijing Normal University
92	3285300	CN	The Monitor And CFD Simulation Of Flow Field In A Variable-velocity Oxidation Ditch By Trepanning <i>Pengkang Jin</i> Xi'an University of Architecture and Technology
93	3285715	AT	Preparing Urban Water Utilities For Droughts <i>Roland Liemberger</i> Miya

Poster Presentations

95	3286674	NL	Unified Framework For Managing Adaptation Deficits In Secondary Cities <i>Assela Pathirana</i> UNESCO-IHE Institute for Water Education. CRC for Water Sensitive Cities
96	3286679	CN	Dissolving Scale Experiment Of Microorganism With High-Yield Of Carbonic Anhydrase <i>JiangYu Ye</i> Chongqing University
97	3287105	CY	Towards Sustainable NRW Reduction: An Innovative Approach <i>Bambos Charalambous</i> J2C Water
98	3293704	IR	Treatment Of Detergent Industries Wastewater <i>Keshavarzi Hossein Abadi Mahshid</i> Village Water & Wastewater Company
99	3294148	CN	Application Of Ultra-Low-Pressure Nanofiltration In Advanced Treatment Of Wastewater Formed In Membrane Manufacture <i>Pan Dai</i> Beijing OriginWater Membrane Technology Co., Ltd.
101	3302393	AU	A Data-Driven Platform For Water Pipe Failure Prediction <i>Zelin Li</i> Data61
102	3302531	AU	Data-Driven Long-Term Failure Prediction For Reticulation Water Main <i>Bang Zhang</i> NICTA
103	3304870	AU	Is The Science And Data Underpinning The Rational Method Robust For Use In Water Sensitive Urban Catchments? <i>Tony McAlister</i> Urban Water Cycle Solutions
104	3306397	AU	Water Data And Information To Better Prepare For Water Security And Future Challenges <i>Amgad Elmahdi</i> Bureau of Meteorology
105	3306895	AU	All Models Are Wrong, Some Are Useful. The Case For Operational Modelling Of Water Supply Systems <i>Ann Pugh</i> Innovyze
106	3306920	AU	ServAqua: Towards A Customer Focused Service Quality Model For Water Utilities <i>Peter Prevos</i> Coliban Water
107	3306941	AU	Electromagnetic Treatment Of Hydroponic Media Enhances Lettuce Growth And Prevents Crop Loss At High EC <i>Robert Moore</i> RMIT University
108	3307652	AU	The Optimisation Study Into The Operation Of Wivenhoe Dam: A Review <i>Gregory McMahon</i> G M McMahon Consultants
109	3307659	AU	The 2053 South East Queensland Flood: Only Young Water Professionals Need Attend <i>Gregory McMahon</i> G M McMahon Consultants
110	3308560	AU	Business Rules For Operating The Desal Plant <i>Nathan Taylor</i> CEDA
111	3308595	AU	Evaluating Long-Term Surface Water Impacts Of Open Pit Mining In Australia <i>Krey Price</i> MWH Global
112	3309691	AU	Streamlined Concept Design Of A Dairy Wastewater Brine Management Process Utilising AqMB<startsup>TM<endsup> Designer Simulation Software <i>Krey Price</i> GHD Pty Ltd
113	3408073	CN	Application Of Ultrasound And Quartz Sand For The Removal Of Disinfection Byproducts From Drinking Water <i>Mingxin Huo</i> Northeast Normal University
114	3231692	JP	Effects Of PH And Coexisting Chemicals On Photolysis Of Perfluorooctane Sulfonate Using An Excited Xenon Dimer Lamp <i>Naoyuki Kishimoto</i> Ryukoku University
115	3242623	DK	Dynamic Reservoir Control: Applied Smart Grid For Drinking Water <i>Troels Kaergaard Bjerre</i> VCS Denmark
116	3246434	IR	Removal Of Turbidity From Drinking Water Using An Innovative Membrane Filter <i>Hojatollah Elahi</i> Khorasan Razavi Rural Water and Wastewater Company
117	3246721	IR	A Colorimetric Aptasensor For Rapid Detection Of Escherichia Coli O157:H7 <i>Hassan Masoudi</i> Khorasan Razavi Rural Water and Wastewater Company
118	3254502	EG	Effluent Wastewater Treatment For Reuse Using Soil Aquifer Treatment <i>Mahmoud Elsheikh</i> Menoufia University
119	3254930	US	Computer Models Aids Selection Of Optimal Coagulants <i>Alex Yavich</i> Optimization Solutions Environmental, LLC
120	3254976	US	Adapting Conventional Water Treatment For Increasing Concentrations Of NOM In Surface Water Supplies <i>Alex Yavich</i> Optimization Solutions Environmental, LLC
121	3256422	IR	Review Of Drinking Water Disinfection Systems Of Islamic Republic Of Iran <i>Zahra Alizadeh</i> National Water and Wastewater Engineering Company
122	3258902	IR	Sodium Chloride Standard Preparation For On-site Hypochlorite Generation In Iran <i>Zahra Alizadeh</i> National Water and Wastewater Engineering Company
123	3260318	DE	Synergistic Effects Using Ozone, UV And Advanced Oxidation In Multi Barrier Treatment Processes <i>Louis Wiert</i> Xylem Inc.
124	3261498	TW	Photoelectrochemical Oxidation Of Ibuprofen Via Cu2O-doped TiO2 Nanotube Arrays <i>Yen-Ping Peng</i> Tunghai University
125	3262340	CA	Drinking Water Production By Using Combined Ozonation And Ultrafiltration Membrane Processes <i>Laleh Yerushalmi</i> Dagua Technologies Inc.
126	3262379	IR	Solar Disinfection Of Water For Rural And Small Communities In Iran <i>Ardavan Niknam</i> Water and Wastewater Company
127	3262575	SG	Design And Operation Of Low Energy Membrane Bioreactors <i>Guihe Tao</i> PUB Singapore
128	3263539	CN	Pd-Fe/graphene Catalyst Synthesized By UV-assisted Photocatalysis And Its Application In Multifunctional Gas-diffusion Cathode For 4-chlorophenol Degradation <i>Bian Zhaoyong</i> College of Environmental Science and Engineering, Beijing Forestry University
129	3263661	CN	The Linkage Between Elevation And Activated-sludge Microbial Community Along A 3,600-meter Elevation Gradient <i>Linqiong Wang</i> Hohai University
130	3264542	JP	Applicability Of Sewage Heat For Improvement Of Nitrification Performance Of A Trickling Filter <i>Kanda Ryo</i> Ryukoku University
131	3264619	TW	The Effect Of Permanganate Preoxidation Combined With Coagulation On UF Membrane Fouling Control <i>Hsuan-Hsien Yeh</i> National Cheng Kung University
132	3265864	CN	Key Factors Affecting The Removal Of Iopamidol By Zero-valent Iron Of Different Sizes <i>Wan-Qian Guo</i> Harbin Institute of Technology
133	3265895	JP	Why High Adsorption Capacity Of Micro-pollutants On Super-fine Activated Carbons: Adsorbate And Adsorbent Properties <i>Matsui Yoshihiko</i> Hokkaido University
134	3266481	JP	Removal Of Bromophenols By Slow Sand Filtration And UV Irradiation <i>Keiko Katayama-Hirayama</i> Univ. of Yamanashi
135	3266546	JP	The Basic Energy Plan For Sewerage Works Of Tokyo "Smart Plan 2014" <i>Kinji Yamada</i> Tokyo Metropolitan Government
136	3266571	CN	Highly Efficient Phosphate Removal Based On La(OH)3 Nanorods In Nanofibers <i>Jiaojie He</i> Harbin Institute of Technology
137	3266589	JP	Caisson Work At The Senjusekiya Pumping Station Simultaneous Installation Of Two Caissons <i>Ryota Okazaki</i> Tokyo Metropolitan Government
138	3266728	BR	Proposal And Application Of A Performance Indicators System For Water Treatment Plants Focusing On Service Provider <i>Marcelo Libanio</i> Federal University of Minas Gerais
139	3266733	AU	Hydraulic Balance And Energy Optimisation Of A Hybrid CAS/MBR Process Through Dynamic Modelling And Simulation <i>Amin Malekizadeh</i> SUEZ - CIRSEE
140	3266752	CN	Manipulating The Efficacy Of Oxone-MnOx/SBA-15 Aquatic System For Degradation Of Emerging Contaminants <i>Jia-Cheng Yang</i> Chinese Academy of Sciences
141	3266776	CN	Ultradispersed TiO2 Nanocrystals/graphene Nanocomposites With High Photocatalytic Activity For Dye Degradation <i>Jiayu Tian</i> Harbin Institute of Technology
142	3266794	CM	Plurality Effect Of Light, PH And Artemisia Annuua Extract On A Fecal Bacterium In Aquatic Microcosm <i>Moise Nola</i> University of Yaoundé

Poster Presentations

143	3266807	DK	A Metabolic Model For The 0092 Morphotype Associated With Filamentous Bulking Problems In Wastewater Treatment Plants <i>Marta Nierychlo</i> Centre for Microbial Communities, Aalborg University
144	3266963	UK	Pilot Scale Spiral Wound Membrane Assessment For THM Precursor Rejection From Upland Waters <i>Dan Golea</i> Cranfield University
145	3267128	CN	Pd-Cu/TiO₂ Nanofiber Catalyst For Selective Reduction Of Water Phase Nitrates <i>Wei Wang</i> Harbin Institute of Technology
146	3268954	AU	Risk Based Approach To Safe Land Application Of Melbourne's Biosolids, Quantitative Risk Assessment Of Potential Hazards <i>Philip Wilkie</i> Melbourne Water
147	3268996	JP	A Basic Study On Risk And Performance Evaluation Of Wastewater Reclamation Systems <i>Toshiki Fukushima</i> Metawater Co.,Ltd.
148	3268998	AU	Fertiliser Drawn Forward Osmosis Process: Pilot-scale Desalination Of Mine Impaired Water For Fertigation <i>Hokyong Shon</i> University of Technology Sydney
149	3269008	JP	Aeration Control By Real Time Nitrification Control Using Activated Sludge Model <i>Mitsuharu Nishiyacchi</i> Tokyo Metropolitan Government
150	3269014	JP	Pretreatment Effect In The Removal Of Organic Substances For SWRO <i>Kazuaki Shimamura</i> Swing Corporation
151	3269019	CN	Arsenic Removal By The Pre-oxidation And Nanofiltration Membrane Hybrid Process <i>Guangshan Zhang</i> Harbin Institute of Technology
152	3269037	US	Evaluation Of The Efficiency Of Moringa Oleifera Products As Natural Adsorbents Of Heavy Metals In Contaminated Wastewater <i>Franklin Obeng Sika</i> Polytechnic of Namibia
153	3269071	KR	Assessing The Efficiency Of Permeable Reaction Barrier To Reduce The Ground Water Contamination From Carcass Burial <i>Saikat Chowdhury</i> Hannam University
154	3269081	CN	Anaerobic Ammonium Removal: From ANAMMOX TO ANSURAMMOX <i>Linjiang Yuan</i> Xi'an University of Architecture and Technology
155	3269109	CN	The Chromate Bio-reduction In A Methane Based Membrane Biofilm Reactor <i>He-Ping Zhao</i> Zhejiang University
156	3269120	DK	Model-based Optimization Of An Industrial WWTP Combining A Full-scale Granular Sludge Reactor And Autotrophic N Removal <i>Hannah Feldman</i> Technical University of Denmark
157	3269137	FR	UF Pressurized Membrane Interchangeability: Doha West WWTP Extension 5; Triple Win For Client, EPC And O&M Companies <i>David Ratte</i> SUEZ Treatment Solution
158	3269181	CN	Synchronous Determination Of Volatile Sulfur Compounds In Ambient Air By Preconcentration - Gas Chromatography <i>Dezhi Sun</i> Beijing Forestry University
159	3269239	CN	Inhibit Bromate Formation In Ozonation Of Bromide-containing Water By LaFeO₃/mesoporous Silica Material As Catalyst <i>Fei Qi</i> Beijing Forestry University
160	3269240	TR	Effect Of Gularonic Acid Content On Turbidity Removal Potential Of Bacterial Alginate <i>F.Dilek Sanin</i> Akdeniz University
161	3269260	CN	Study On Adsorption Of Ciprofloxacin & Enrofloxacin Onto Activated Carbon <i>Hao Fu</i> Tsinghua University
162	3269275	CN	A Review Of Sensitivity Analysis Methods In Water Environment Modeling <i>Yuanzheng Zhai</i> Beijing Normal University
163	3269313	JP	Full Scale Application Of New Type Anaerobic Fluidized Bed Process For Treatment Of "Hard To Form Granule" Wastewater <i>Takaaki Tokutomi</i> Kurita Water Industries LTD.
164	3269320	ZA	A Fuzzy Logic Benchmark For A Membrane Bioreactor Treating Furfural Wastewater: Simulating PH Control. <i>Kriveshin Pillay</i> Institute For Water and Wastewater Technology
165	3269437	CN	Advanced Treatment Of Petrochemical Secondary Effluent By Fenton <i>Yuexi Zhou</i> Beijing Normal University
166	3269473	SA	Biomass Accumulation And Membrane Performance For Water Treatment: Impact Of The Organic Substrate Load <i>Szilard Bucsi</i> King Abdullah University of Science and Technology
167	3269566	DK	Start-up Of A Drinking Water Biofilter <i>Inés Breda</i> VIA University College
168	3269592	IE	Preliminary Investigation Of Integrating Constructed Wetland Into Activated Sludge Process For Enhancing Nutrients Removal <i>Yaqian Zhao</i> University College Dublin, Ireland
169	3269606	PL	Adsorption As A Treatment Solution For Arsenic Removal From Gold Mine Waters <i>Malgorzata Szlachta</i> Wroclaw University of Technology
170	3269615	PL	Application Of Carbon Nanotubes Adsorption And Ultrafiltration For The Removal Of Metolachlor From Aqueous Solution <i>Malgorzata Szlachta</i> Wroclaw University of Technology
171	3269633	SE	Intelligent Wastewater Pumps - The Next Pump Industry Breakthrough <i>Stefan Abelin</i> Xylem Water Solutions AB
172	3269638	MX	Role Of Suspended Solids In Wastewater On The Inhibitory Effect Of ZnO NPs In The Macronutrient Removal By CAS <i>Germán Cuevas-Rodríguez</i> University of Guanajuato
173	3269645	DE	Elimination Of Micropollutants And Antibiotic Resistant Pathogens During Ozonation <i>Ira Brückner</i> WVER
174	3269656	PL	Is The Application Of Biosolids A Beneficial Or Disruptive Waste Management For Soil? A Case Study Of Risk And Benefits <i>Anna Grobelak</i> Czestochowa University of Technology
175	3269742	TW	Recovery Of Diluted Draw Solutions In Forward Osmosis Process By Using Micellar-Enhanced Membrane Filtration System <i>Hung-Te Hsu</i> Chung Yuan Christian University
176	3269769	CN	Membrane Fouling Indicator For Nanofiltration Resulted From Wastewater eFOM And Surface Water Dissolved Organic Matters <i>Feiyun Sun</i> Harbin Institute of Technology Shenzhen
177	3269809	CN	Endogenous Metabolism Of Anammox Bacteria In Response To The Short Term Anaerobic/Anoxic Starvation Stress <i>Yayi Wang</i> Tongji University
178	3269818	CN	Removal Of Nitrosamines Precursors By Cation Exchange Resins <i>Chao Chen</i> Tsinghua University
179	3269820	TW	Removal Of Polyvinyl Alcohol In Wastewater By Electrogenated Ce(IV) <i>Chih-Ta Wang</i> Chung Hwa University of Medical Technology
180	3269823	IR	Adsorption Of Fuel Oxygenates From Drinking Water Using Modified Natural Zeolites <i>Mohammad Reza Mirbaloochzahi</i> Sistan and Baloochestan Water and Wastewater co.
181	3269844	JP	Applicability Of Iron-chelate Compounds As An Electron Acceptor For A Double-chamber Microbial Fuel Cell <i>Yoshida Hideto</i> Ryukoku University
182	3269856	MX	Biosorption Of Cr (VI) Using Nitrifying-Denitrifying Consortia, Chitosan Cross-linking Beads And Hybrid System <i>Karina Coronado Apodaca</i> Instituto Tecnológico de Sonora
183	3269901	TW	Removal And Adsorption Characteristics Of Dimethyl Phthalate From Aqueous Solutions Using Electrocoagulation <i>Wei-Lung Chou</i> Hungkuang University
184	3269907	AU	Challenges In Wastewater Odour <i>Louisa Vorreiter</i> Sydney Water
185	3269958	DE	Energy Efficient Stormwater Disinfection With UV <i>Louis Wiar</i> Xylem Services GmbH

Poster Presentations

186	3269975	TR	Power Generation In A Microbial Fuel Cell Fed With Synthetic Wastewater <i>F.Dilek Sanin</i> Middle East Technical University
187	3270042	CN	Ozonation Of Acid Red B In A Hollow Fiber Membrane Contactor <i>Dan Qu</i> Beijing Forestry University
188	3270062	JP	Microbial Communities On The Submerged Membranes In Full-scale Membrane Bioreactors Treating Municipal Wastewater <i>Kazuki Takada</i> Osaka University
189	3270069	JP	Factors Influencing Nitrogen Removal In A Single Chamber MFC Using An Air Cathode With Pre-enriched Nitrifying Biofilm <i>Tomohide Watanabe</i> Gunma University
190	3270083	SG	Novel Application Of Intertidal Wetland Sediment As Inoculation Source For Saline Wastewater Treatment <i>How Yong Ng</i> National University of Singapore
191	3270091	DE	Advances In UV System Design: "How Much Dose Require My Bugs?" <i>Louis Wiar</i> Xylem Services GmbH
192	3270097	KR	Characterization And Rejection Rate On MF/UF Membranes For Evaluating Pretreatment Of SWRO* <i>Changkyoo Choi</i> Gwangju Institute of Science and Technology
193	3270213	PT	Comparing AGS Reactivation And Operation Performance In Two SBR Hydrodynamic Regimes Treating Synthetic Textile Effluent <i>Nidia Lourenço</i> Instituto Superior Técnico, ULisboa
194	3270223	TW	Couple CdS-WO₃ And WO₃ Assist Photocatalytic Oxidation Of 5-fluorouracil Antineoplastic Drugs <i>Shang Lo</i> National Taiwan University
195	3270405	KR	Improving Performance Of Forward Osmosis Process By Novel Antiscalant-mixed Draw Solutions <i>Seungkwan Hong</i> Korea University
196	3270406	ZA	Principal Component Analysis For Interaction Of Wastewater Characteristics And Nitrifiers At Full-scale Activated Sludge <i>Faizal Bur</i> Durban University of Technology
197	3270410	CN	The Removal Efficiency And Adsorption Mechanism Of Tetracycline By The Protein-based Extracellular Polymeric Substances <i>Ang Li</i> Harbin Institute of Technology
198	3270457	AU	Natural Organic Matter Interfacial Interactions With Tannic Acid-coated Silver Nanoparticles <i>Jean-Philippe Croue</i> Curtin Water Quality Research Center. Curtin University
199	3270542	AU	Demonstrating The Importance Of Waterway Health To Drinking Water Supply And The Liveability Of South East Queensland <i>Cameron Wearing</i> Seqwater
200	3270552	SG	Biodegradability Improvement Of Wastewater From The Electronics Industry By Electro-Fenton <i>Olivier Lefebvre</i> National University of Singapore
201	3270555	IR	Artificial Neural Networks Modeling Of Decolorization Of Rhodamine B Dye In A Multiple Impinging Jets Cavitation Reactor <i>Seyyed Alireza Ebrahimzadeh Zonouzan</i> Bu-Ali Sina University of Hamedan, Tehran Water and Wastewater Co
202	3270563	JP	Effect Of Suspended Substances On UV Disinfection During Wastewater Treatment Process <i>Nodoka Kanzaki</i> Ritsumeikan University
203	3270580	SG	Photolytic And Photocatalytic Degradation Of Antibiotic Tetracycline By UVA/LED Irradiation <i>Jiangyong Hu</i> National University of Singapore
204	3270582	PL	Optimisation Of LCFA's Extraction From Sewage Sludge And Their Mixtures With Animal Grease Wastes <i>Krzysztof Fijałkowski</i> Czestochowa University of Technology
205	3270584	PL	Methane Recovery From Fat Rich Materials: A Review <i>Anna Grosser</i> Czestochowa University of Technology
206	3270596	PL	Pretreatment Of Sewage Sludge For Enhanced Biogas Production: A Review <i>Ewa Neczaj</i> Czestochowa University of Technology
207	3270610	ZA	Municipal Green Drop Effluent Quality Compliance Assessment Of Wastewater Treatment Works In The City Of Umlathuze, South Africa <i>Nishani Ramdhani</i> Council for Scientific and Industrial Research
208	3270627	SG	Impact Of Hybrid Ozone/Ceramic Membrane Microfiltration On Disinfection Byproducts Control In Drinking Water <i>Jiangyong Hu</i> National University of Singapore
209	3270637	BR	Combination Of Ozonation And MBBR Processes For Treatment Of Simulated Textile Wastewater And By-products Identification <i>Joao Paulo Bassin</i> Federal University of Rio de Janeiro
210	3270644	AU	Photochemical Fate Of Antibiotic Norfloxacin Under Solar Irradiation: Natural Organic Matter And Photo-induced Oxidants <i>Xi-Zhi Niu</i> Curtin University
211	3270645	SG	Photo-Fenton Processes For The Petrochemical Wastewater Treatment <i>Jiangyong Hu</i> National University of Singapore
212	3270655	AU	Improving Coagulability And Chlorine Stability Through Biologically Activated Carbon Treatment <i>Arumugam Sathasivan</i> Western Sydney University, Australia
213	3270663	AU	Validation Of Relationship Between Free Chlorine Dose And Virus Inactivation In Drinking Water And Its Application In So <i>Duncan Middleton</i> Seqwater
214	3270668	TW	Arsenic Speciation And Sorption Kinetics In Ternary Arsenic- Humic Acid-Iron Oxide System <i>Tsair-Fuh Lin</i> National Taiwan University
215	3270677	CN	Salinity Impacts On N₂O And NO Emissions During Autotrophic Nitrogen Removal In A CANON Reactor <i>Yayi Wang</i> Tongji University
217	3270714	KR	Usable Water Production From Coal Seam Gas Water With A Combination Of Pore Control Fiber Filtration And Reverse Osmosis <i>Choon-Hwan Shin</i> Dongseo University
218	3270829	BR	Effect Of Liquid Recirculation And Air Circulation On Oxygenation Coefficient (kLa) In Membrane Aerated Biofilm Reactor <i>Tsunao Matsumoto</i> Univ. Estadual Paulista
219	3270843	CN	Treatment Effect Of Petrochemical Secondary Effluent By An Integrated Ozone-biological Aerated Filter (BAF) <i>Yuexi Zhou Zhou</i> Tsinghua University
220	3270924	AU	Chloramination -- The State Of The Art <i>Arumugam Sathasivan</i> Western Sydney University
221	3270941	FR	Impact Of Temperature On Mainstream Deammonification Performance And Microbial Community <i>Marc Calgaris</i> SUEZ
222	3270949	CA	Variation In The Prediction Of NOM Fouling Under Variable Applied Pressure And Water Temperature Conditions <i>Onita Basu</i> Carleton University
223	3270951	CN	Enhanced Hydrogen Production From Mixed Anaerobic Cultures By Enlarging Gas Headspace Volume Of The Batch Reactor <i>Sheng Chang</i> State Key Laboratory of Environmental Criteria and Risk Assessment, Chinese Research Academy of Environmental Sciences
224	3270963	PT	Biodegradation Of A Sulfonated Azo Dye In A Synthetic Textile Wastewater By A Newly Isolated Oerskovia Strain <i>Nidia Lourenço</i> Instituto Superior Técnico, Universidade de Lisboa
225	3270975	TR	Comparison Of Four Cationic Membrane In A Microbial Fuel Cell System For Power Production And Nitrate Removal Efficiency <i>Selim Sanin</i> Hacettepe University
226	3270978	AU	Application Of Membrane Bioreactor As A Pretreatment In Seawater Desalination For Biofouling Control <i>Saravanamuthu Vigneswaran</i> King Abdullah University of Science and Technology
227	3270980	UK	Disinfection Performance Assessment Of Chlorine Contact Tanks Using Flow Cytometry <i>Ryan Cheswick</i> Cranfield University
228	3270981	TW	Methylamine Removal In Actual Wastewater By Acinetobacter Calcoaceticus MRA1 At Batch And Continuous Bioreactor Systems <i>Chun-Chin Wang</i> Hungkuang University
229	3270983	DE	Energy Efficient Wastewater Treatment -- Recording And Washing Screenings For Carbon Recovery <i>Frank Benstoem</i> Institute of Environmental Engineering, RWTH Aachen University

Poster Presentations

230	3270988	BR	Co-digestion Approach In Anaerobic Processes For Biomethane Production <i>Giovanna Lovato</i> Instituto Mauá de Tecnologia - Escola de Engenharia Mauá
231	3270994	BR	Impact Of Phenol Shock Loadings On A Combined Activated Sludge -MBBR System <i>Joao Paulo Bassin</i> Federal University of Rio de Janeiro
232	3271014	DE	Energy Turnaround In The Wastewater Sector By Bio-Electrochemical Systems (BES) -- Challenges And Advances <i>Michael Sievers</i> CUTEC-Institut
233	3271027	UK	Use Of Immobilised Algae For Nitrogen And Phosphorus Removal In Short Hydraulic Retention Times <i>Bruce Jefferson</i> Cranfield University
234	3271042	DE	Optimization Of Microbial Fuel Cells Start-up Behaviour For Waste Water Treatment And Electrochemical Power Evaluation** <i>Ulli Kunz</i> Clausthal University of Technology
235	3271047	CA	Dynamic Modelling Of Rotating Belt Filters Using Computational Fluid Dynamics Simulations <i>Dang Ho</i> Trojan Technologies
236	3271060	JP	Isolation And Characterization Of Novel Grease-degrading Microorganisms For Efficient Grease Removal In Wastewater <i>Daisuke Inoue</i> Kitasato University
237	3273573	BR	Effect Of High Nitrate Loading Rates On The Performance Of A Denitrifying Moving-bed Biofilm Reactor <i>Joao Paulo Bassin</i> Federal University of Rio de Janeiro
238	3273579	ES	Simulations For Designing An Industrial Prototype Scale Of Anaerobic Membrane Bioreactor (AnMBR) <i>Arbib Zouhayr</i> Universitat Politècnica de València
239	3273618	NO	Developments In Coagulant Dosing Control With Multiple Water Quality Sensors <i>Harsha Ratnaweera</i> Norwegian University of Life Sciences
240	3273623	SE	Three Unique MBBR Applications For Pre-treated Wastewater <i>Mark de Blois</i> H2OLAND AB
241	3273640	BR	Evaluating The Hierarchy Of Cyanotoxin Removal By Means Of Adsorption In Granular Activated Carbon <i>Marcelo Libanio</i> UFMG
242	3273659	BR	Aerobic Fluidized Bed Reactor With Circulation As Compartmented UASB Reactor Post-Treatment Device For Nutrient Removal <i>Tsunao Matsumoto</i> Univ. Estadual Paulista
243	3273690	JP	Influence Of Change From Rapid Sand Filtration To Membrane Filtration On Water Quality In Distribution Networks <i>Hiroshi Nagaoka</i> Tokyo City University
244	3273700	AU	Factors Influencing Biological Activated Carbon Biofilm Development And Treatment Performance <i>Peta Thiel</i> Research Laboratory Services
245	3273703	CA	High Rate Moving Bed Biofilm Reactors For Reduced Energy Wastewater Treatment <i>Ynes Comeau</i> Polytechnique Montréal
246	3273712	IR	Establishment Of Quality And Quantity Assessment Model For Water Treatment Plants <i>Mahsa VaezTehrani</i> National Water and Wastewater Engineering Company
247	3273744	CA	Regrowth Potential of Bacteria after Ultraviolet Disinfection in Absence of Light and Dark Repair <i>Banu Ormeci</i> Carleton University
248	3273758	CN	Ferrous Iron Shapes Microbial Community Of The Electrode Biofilm In Biocathode Microbial Fuel Cells <i>Defeng Xing</i> Harbin Institute of Technology
249	3273800	PL	The Drivers And Barriers Limiting Urban Sewage Sludge Management - European Experience <i>Malgorzata Kacprzak</i> Czestochowa University of Technology
250	3274131	AU	How Do Pathogens Die In Waste Stabilisation Ponds? <i>Helen Stratton</i> Griffith University
251	3274144	MX	Main Factors Involved In The Fouling Of The Conventional And Hybrid Membrane Bioreactor <i>Germán Cuevas</i> University of Guanajuato
253	3276210	CN	Improving The Reactivity Of Zerovalent Iron By Taking Advantage Of Its Magnetic Memory: Implications For Arsenite Removal <i>Xiaohong Guan</i> Tongji University
254	3276389	CN	Enhancement Of Phenol Biodegradation Via Electrical Stimulation And Responses Of Microbial Communities <i>Xia Huang</i> State Key Joint Laboratory of Environment Simulation and Pollution Control
255	3279235	CN	Nitrous Oxide (N2O) Accumulation Characteristics In Hydrogenotrophic Denitrification <i>Jiane Zuo</i> School of Environment, Tsinghua University
256	3279401	CN	Ammonia Removal From Waste Seawater By Struvite Using Response Surface Methodology For Process Optimization <i>Weilong Song</i> Harbin Institute of Technology
257	3279402	CN	Preparation Of BiVO4-Ag-Graphene Nanocomposites And Their Photocatalytic Activity <i>Xuan Xu</i> Chongqing University
258	3279411	CN	Biological Removal Of Sulphide, Nitrate And Acetate By Mixotrophic Denitrification Under Insufficient Electron Acceptors <i>Chuan Chen</i> Harbin Institute of Technology
259	3279418	CN	Exerting Magnetic Field Enhanced The Ammonia-oxidation Capability Of Ammonia Oxidation Archaea <i>Xianghua Wen</i> Tsinghua University
260	3279420	CN	Reactivity And Mechanism Of Bromate Removal By Nanoscale Zero-valent Iron Immobilized On GAC In The Presence Of DO <i>Yan Zhang</i> Zhejiang University of Technology
261	3284093	CN	The Study On The Algae Submicroscopic Structure Changes By The Allelochemicals Action <i>Shan Wu</i> Beijing University of Technology
262	3284739	CN	Optimizing Granular Size Distribution For Stability Of Aerobic Granular Sludge <i>Liang Zhu</i> Zhejiang University
263	3285217	AU	Membrane Distillation For Water Desalination: Its Development, Current Status And Future Direction (A- Review) <i>Jack Nihill</i> RMIT University
264	3285452	BE	Effect Of Foam On Temperature Prediction And Heat Recovery Potential From Biological Wastewater Treatment <i>Eveline Volcke</i> Ghent University
265	3285785	CN	Generation Of Dual Water Quality Treatment And Multilevel Reuse System Of Dyeing Wastewater <i>Pengkang Jin</i> Xi'an University of Architecture and Technology
266	3285790	KE	Renewable Energy Strategy For Water Treatment Plants - Ngethu Water Treatment Plant <i>Samwel Kiarie</i> Nairobi City Water and Sewerage Company
267	3285940	AU	Electro-activated Sulfate For The Degradation Of Persistent Organic Contaminants <i>Ali Farhat</i> University of Queensland
268	3285941	IN	Simultaneous Removal Of Hardness And Fluoride From Water By Chemical And Electrocoagulation <i>Janakiram Karthikeyan</i> Sri Venkateswara University College of Engineering
269	3286013	SE	Algae Based Wastewater Treatment Model Using The RWQM1 <i>Jesus Zambrano</i> Mälardalen University
270	3286143	KR	Parameter Estimation For Green Roof Runoff Modeling Using SWMM <i>Hwansuk Kim</i> Korea University
271	3286522	AU	NOM, Mn, C- And N-DBP Precursor Control By Rapid Biofiltration <i>Katrin Doederer</i> The University of Queensland
272	3286673	SE	Modelling And Simulation Of Partial Nitrification-Anammox Process In MBBR For Reject And Mainstream Wastewater <i>Karol Trojanowicz</i> Royal Institute of Technology (KTH) Stockholm, Sweden
273	3286893	ZA	Evaluation Of Molecular Methods For The Characterization Of Escherichia Coli For Industrial And Routine Applications <i>Kousar Hoorzook</i> University of Johannesburg
274	3286938	PT	Efficient Biological Treatment In WWTP Beirolas -- Critic Oxygen Determination <i>Ana Teixeira</i> EPAL
275	3287045	CN	Isolation And Identification Of A Novel Acetogenic Bacteria From Waste Activated Sludge <i>Xiuyun Sun</i> Nanjing University of Science and Technology

Poster Presentations

276	3293054	CN	Effect Of Ferric And Ferrous Iron Addition On Phosphorus Removal And Fouling In Submerged Membrane Bioreactors <i>Zhenghua Zhang</i> Tsinghua-Kangda Research Institute of Environmental Nano-Engineering & Technology/Tsinghua University
278	3306361	AU	Maleny IMBR STP And Community Wetlands - Two Years In Operation And More <i>Ramraj Kulkarni</i> Unitywater
279	3306401	AU	Micro-pollutants Removal By The Carbon Nanotubes Based Biocatalytic Membrane <i>Chao Ji</i> University of New South Wales
280	3306402	FR	Seeding And Performance Testing Of ANITA Mox Processes For Sidestream Deammonification <i>Hannah Lockie</i> Veolia Water Technologies
281	3306866	AU	Modelling Thermal Mixing And Ultra-violet Disinfection Of E. Coli In A Maturation Pond <i>Nicholas Dahl</i> Griffith University
282	3306886	AU	Graphene Oxide Incorporated In PVA/PVDF Composite Pervaporation Membrane For Desalination Application <i>Lin Li</i> University of New South Wales, Australia
283	3306911	AU	Towards Optimum Performance For An In-situ Desalination Irrigation Method <i>Pierre Le-Clech</i> The University of New South Wales
284	3306936	AU	A Novel Device For Measuring Floc Stability In Direct Filtration <i>Greg Leslie</i> University of New South Wales
285	3307174	AU	Versatility Of Nereda® For Wastewater Applications Worldwide <i>Monita Naicker</i> Aquatec Maxcon Pty Ltd
	3308014	CN	Effect Of Natural Organic Matter On PPCPs Rejection By HTCC/PES Composite Membrane <i>Huang Zhonghua</i> Nanjing University of Science and Technology
286	3309936	AU	New Hollow Fiber Nanofiltration Membranes For Chemical Free Surface Water Treatment <i>Peter Cooper</i> Pentair X-Flow
287	3309954	AU	Biosolids Embankments- A New Design Concept For 'dry Stacking' Operation In Wastewater Treatment Sludge Drying Pans <i>Sriharini Chellappan</i> The University of Melbourne
288	3312673	CN	Application Of PAN Based Carbon Nanofibers By Electrospinning For The Cr(VI) Removal From Aqueous Solution <i>Zhi-Hua Yuan</i> Institute of Urban Environment, Chinese Academy of Sciences
289	3313739	AU	Take-off Without A Pilot: Dangers Of Designing Water Treatment Processes Without Pilot Plant Validation <i>Michael Carter</i> Hunter H2O
290	3315864	CN	Nitrite Accumulation Control In The Anoxic-oxic Biofilter For Achieving Advanced Nitrogen And Phosphorus Removal <i>Xiuhong Liu</i> Renmin University of China
291	3408029	CN	Degradation Of Quinoline By Comonomers Testosterone QYY: Effects Of Micronutrients And Degradation Kinetics <i>Suiyi Zhu</i> Northeast Normal University
292	3517177	CN	How Does The Organic Matter Influence Nitrogen Removal In An Anammox Reactor? C/N Ratio Plays An Important Role <i>Xiaojun Wang</i> Institute of Urban Environment, Chinese Academy of Sciences
293	3259001	DK	Return Sludge Sidestream Hydrolysis: Control GAOs And Successful EBPR <i>Mikkel Stokholm-Bjerregaard</i> Krüger/Aalborg University
294	3261310	CN	Increased Fermentation And Persistent Methanogenesis In Aquifer Following Source Removal Of An Ethanol Blend Release <i>Jie Ma</i> China University of Petroleum
295	3262587	JP	Pilot-scale Anaerobic Co-digestion Of Sewage Sludge And Shredded Grass <i>Toshiya Komatsu</i> Nagaoka University of Technology
296	3265432	JP	Life Cycle Assessment Of A Water Distribution System In The Context Of Depopulation <i>Kohei Hasegawa</i> Tokyo Metropolitan University
297	3266025	DZ	Digitalization Of Water's Data, Why? South-west Region Of Algeria, A Practical Example, Of Digitization Of Water's Data <i>Ansari Taha</i> National Agency of Hydraulics Resources
298	3267154	IR	Effects Of Drought On Urban Resources Of Isfahan And Water Quality Changes Of Isfahan City Using Various Resources <i>Mohammad Hassan Rabie Rad</i> Isfahan Water & Wastewater co.
299	3268953	JP	Characteristics of Manganese Contained in Soil of a River Basin Flowing into a Reservoir <i>Susumu Hosoya</i> Tokyo Metropolitan University
300	3268993	CN	Responses Of Production And Excretion Of Microcystins Between Microcystis Aeruginosa And Phenolics Allelochemicals <i>Wenyan Liang</i> Beijing Forestry University
301	3269046	TW	Development Of Low-cost Reactive Barriers Using Bamboo Charcoal To Remediate Organic Compound Contaminated Groundwater <i>Ku-Fan Chen</i> National Chi Nan University
302	3269183	JP	Recovery Of Precious And Minor Metals From Sludge In A Constructed Wetland Treating Metal-processing Wastewater <i>Satoshi Soda</i> Osaka University
303	3269465	BR	Retribution For Ecosystem Services As A Tool In Sustainable Management Of Water Resources <i>José Rocha</i> Regulatory Agency for Water, Energy and Sanitation of the Federal District - ADASA
304	3269477	CN	Linkage Between Elevation And Activated-sludge Microbial Community Along A 3,600-meter Elevation Gradient In China <i>Yi Li</i> Hohai University
305	3269531	CN	A Novel Strategy For Extended Cultivation Of Polyhydroxyalkanoate (PHA) Accumulating Mixed Microbial Culture (MMC) <i>Qinxue Wen</i> Harbin Institute of Technology
306	3269539	UK	Public Engagement In The Adaptive Water Utility <i>Vanessa Speight</i> Sheffield University
307	3269581	IR	The Effect Of Mesh Pore Alteration On Efficiency Of Fog Collector <i>Zahra Elmi</i> Sistan and Baluchestan Water and Waste Water Company
308	3269709	CA	Regional Optimization Of Multiple Water-Source Opportunities For Shale-Gas Development In West-Central Alberta, Canada <i>Kevin Parks</i> Alberta Energy Regulator - Alberta Geological Survey
309	3269753	AU	Minimising Environmental And Health Impacts From Wastewater Outfalls <i>Elaine Pang</i> Arup
310	3269790	CN	The Characteristic Of Nitrogen Forms And The Nitrate Source In The Three Gorges Reservoir Using Stable Isotope Approach <i>Binghui Zheng</i> Tsinghua University
311	3269905	AU	Control Of Concrete Corrosion In Sewers With Free Nitrous Acid <i>Zhiguo Yuan</i> The University of Queensland, Australia
312	3270039	ID	Fugacity Model Application Of Endosulfan Pollution In Saguling Reservoir <i>Katharina Oginawati</i> Institut Teknologi Bandung
313	3270057	JP	Relationship Between Surface Area Of Electrodes And Power Density In Microbial Fuel Cells <i>Takahiro Yamashita</i> National Agriculture and Food Research Organization
314	3270209	AU	A Forward Osmosis - Membrane Distillation Platform To Facilitate Resource Recovery From Wastewater <i>Long Nghiem</i> University of Wollongong
315	3270470	KR	An Integrated System Coupled With Electrodialysis And Electrolysis For Removal Of Nitrate And Arsenic From Groundwater <i>Jihyang Kweon</i> Konkuk University
316	3270597	AU	Testing The Paradigm Of Recreational Risk In Drinking Water Supplies: A QMRA Approach <i>Andrew Watkinson</i> Seqwater
318	3270933	CN	Application Of Discrete Entropy Theory To Design Emergency Monitoring Network For River Chemical Spills <i>Jiping Jiang</i> Harbin Institute of Technology
319	3273694	KR	Determination Of BMP Capacity And Management Timing Using Particle Size Distribution And Dimensionless Time <i>Sungmin Cha</i> JEIPI
320	3273749	NZ	Assessment Of Coral Beach Sand Applied As An Engineered Sand Filter In Septic Tank Effluent Drainage Fields In Kiribati <i>Louise Weaver</i> Institute of Environmental Science and Research

Poster Presentations

321	3275345	DK	Flood Risk Assessment As An Integral Part Of Urban Planning <i>Roland Löwe</i> Technical University of Denmark (DTU)
322	3286149	CN	Spatial-temporal Variations Of The Water Quality And Influence Factor Analysis In Upstream Taihu Lake <i>Xin Jin</i> Xi'an University of Architecture and Technology
324	3308296	AU	Validating Recycled Water Processing Using Bayesian Belief Nets <i>Stuart Khan</i> Water Research Centre
325	3308559	AU	A Catchment Perspective On Planning For Excess Recycled Water Release On The Gold Coast <i>Anna Hollingsworth</i> City of Gold Coast
327	3385833	JP	Influence Of Nutrient And Fine Sediment Control To Primary Productivity By Benthic Attached Algae In Forest Watershed <i>Katsuaki Komai</i> Kitami Institute of Technology
328	3261911	AU	Optimization Through Solids Measurements <i>Timo Riippa</i> Valmet Automation
329	3263734	FR	Long-term Acoustic And Optical Turbidity Monitoring In A Sewer <i>Anne Pallarès</i> Université de Strasbourg
330	3265634	IR	Simulation Of Ghareaghaj Basin Total Dissolved Solids Using MIKE11 Software And Statistical Assess Of Results <i>Elaheh Rastegari</i> Municipal Water and Wastewater Company
	3269247	UK	Utilitisation Of Rural Water Supply For Villages And Small Towns In The Developmental States Of India <i>Paul Jeffrey</i> Cranfield University
331	3269270	CN	Configuration Optimization Of A Double Channel Oxidation Ditch Using CFD Model <i>Zhijun Liu</i> Dalian University of Technology
332	3269370	SE	Global Sensitivity Analysis Of The System-wide Benchmark Simulation Model <i>Ulf Jeppsson</i> Lund University
333	3269634	SE	Life Cycle Cost Benefits With Cloud Based Sewer Networks <i>Stuart Duncan</i> Xylem
334	3269735	JP	The Demonstrative Experiments On The Wireless Automatic Meter [smart Meter] Reading System For Water And Gas <i>Dai Kakinuma</i> Yokohama Water Works Bureau
335	3269759	AU	Odour And Corrosion Modelling Of Elanora Sewerage Network <i>Guillermo Capati</i> City of Gold Coast
336	3269811	JP	A Total Cost Minimization Control For Wastewater Treatment Process By Using Extremum Seeking Control <i>Oasmu Yamanaka</i> Toshiba Corporation
337	3269827	AU	Development Of A GIS Framework For Pipe Failure Prediction And Management Through Open Source Geospatial Support <i>Jayantha Kodikara</i> Monash University
338	3269930	AU	Sustainable Management Of Water Sources For Remote Community Water Supply In The Northern Territory, Australia <i>Len Griffiths</i> Power and Water Corporation
339	3269942	AU	Building Community Support For Water Management—identifying Social Influences On Engagement & Footholds For Intervention <i>Angela Dean</i> The University of Queensland
340	3270067	JP	Efficiently Utilizing Human Resources On Customer Services With ICT <i>Satomi Takahashi</i> Public Utility Services Center Co., Ltd.
341	3270128	BE	NRWM : Case Study (SWDE-Belgium-Wallonia) <i>Brunet David</i> SWDE
342	3270432	AU	Integrated Event Management At Queensland Urban Utilities Using TaKaDu <i>Attila Stahlut</i> Queensland Urban Utilities
343	3270749	BR	Modeling A Water Supply Network Building A GIS Database For Water Loss Control In A DMA <i>Victor Faria</i> CEDAE
344	3270879	EG	Analysis Of Potential Benefits Of Integrating ICT In Water And Sanitation Projects In Africa <i>Mouhamed Ndaw</i> World Bank
345	3271039	NL	Decision Tree For Water Quality Testing In Resource Limited Settings To Support Water Safety Planning <i>Jack Schijven</i> RIVM
346	3272975	NL	A Knowledge Base For Technology Options Improving Water System's Resilience <i>Christos Makropoulos</i> KWR Watercycle Research Institute
347	3273572	PT	Assessment Of The Quality Of Service Provided To Users Of The Water Services In Portugal: Revision Of The IAKMI <i>Helena Alegre</i> National Laboratory for Civil Engineering
348	3273610	FI	Open Access Sewer Master Model, Sewer Model Standard And Sewer DMA-system - Tools For The Future Smart Solutions <i>Mari Heino</i> Helsinki Region Environmental Services HSY
349	3273664	AU	An Innovative Approach To Train Water Engineers With Next Generation Teaching Techniques - An Australian Case Study <i>Lalitha Senevirathna</i> Charles Sturt University
350	3273780	AU	The Past, Current And Future Development Of Decision Support System Technologies <i>Christopher Nielsen</i> DHI Water and Environment
351	3273817	KR	Comparison Of Infiltration Models For Calculating Overland Flow At The Hillslope Scale* <i>Jaeyoung Yoon</i> Korea University
352	3273967	CZ	Identifying Suitable Regions For High-resolution Weather Product Based On Remote Sensing With Telecommunication Networks <i>Vojtech Bares</i> Czech Technical University in Prague
353	3286916	ES	Hydrodynamics And Sedimentation CFD Modelling Of A Full-scale Secondary Clarifier In A Transient State Performance <i>Javier Climent</i> Universitat Jaume I
354	3292377	KR	Improvement Of The SWMM-LID Module For Bioretention Modeling <i>Jaeyoung Yoon</i> Korea University
355	3306912	AU	Advancements In Hydraulic Network Model Management Of Gold Coast Water <i>Romer Cantos</i> City of Gold Coast
356	3517173	CN	CFD-PBM Simulation Of Struvite Crystallization In A Fluidized Bed Reactor: Model Set-up And Evaluation <i>Xin Ye</i> Institute of Urban Environment, Chinese Academy of Sciences
357	3259323	IR	Assessment Of Water Quality In Groundwater Resources Of Iran Using A Modified Drinking Water Quality Index (DWQI) <i>Mohammad Reza Mohebbi</i> National Water and Wastewater Engineering Company
358	3260979	IR	Isolation And Identification Of Non-tuberculous Mycobacteria From Potable Water In Northeast Of Iran <i>Houshyar Akbari Khalilabad</i> Water & Wastewater Co. of Khorasan Razavi
359	3261979	US	Global Water Pathogens Project <i>Joan Rose</i> Michigan State University
360	3261984	SE	Phosphorus Removal By Metallurgical Slags And Heat Reactivation Of Aged Slags <i>Minyu Zuo</i> KTH Royal Institute of Technology
361	3262553	JP	Research On Nitrite Nitrogen Generation Suppression In Drinking Water At Ogasawara Islands <i>Kimiko Yamazaki</i> Tokyo Metropolitan University
362	3264531	AU	18 Years On: Maturing The Public Understanding Of Cryptosporidium And Giardia In Sydney, Australia <i>Chris Owens</i> Sydney Water
363	3264550	CN	Activation Of Manganese Oxidants With Bisulfite For Enhanced Oxidation Of Organics: The Involvement Of Mn(III) <i>Xiaohong Guan</i> Harbin Institute of Technology
364	3264562	JP	Ultrasonic Treatment For Quantifying Bioavailable Phosphorus In Soil <i>Nguyen Ngoc</i> Toyohashi University of Technology
365	3265377	JP	Are Drinking Water Quality Criteria A Protective For Human Health: Exposure Assessments Of DBPs And VOCs <i>Yoshihiko Matsui</i> Hokkaido University

Poster Presentations

367	3265854	AU	Distribution Of Human Fecal Markers In Sewage Influent In Different Climatic Zones In Australia <i>Warish Ahmed</i> CSIRO
368	3265872	IR	Measurement Of Heavy Metals Concentration In Water Resources (Wells) In Isfahan Province Iran In Different Types Climate <i>Fahimeh Mehranfar</i> Water and Wastewater Company
369	3265938	TN	Comparative Fluoride Removal Study Of Anionic And Cationic Resins <i>Taissire Ben Amor</i> CERTE
370	3266640	CN	Analysis Of Aldehydes In 2-butenal Wastewater By Solid-phase Microextraction And Gas Chromatography-mass Spectrometry <i>Yuxi Zhou</i> Chinese Research Academy of Environmental Sciences
371	3266667	CN	A New Adsorption-elution Technique For The Concentration Of Aquatic Extracellular Antibiotic Resistance Genes From Large Volumes Of Water <i>Junwen Li</i> Tianjin Institute of Health and Environmental Medicine
372	3268959	CN	Bioaerosols Emission In An Indoor Wastewater Treatment Station: Site-related And Seasonal Variation <i>Junxin Liu</i> Research Center for Eco-Environmental Sciences, CAS
373	3269009	JP	A Study On Index Of Chlorinous Odor <i>Emiko Tsuji</i> Yokohama Waterworks Bureau
374	3269073	AU	Calibration & Validation Of Algal In Situ Fluorescence Probes For Source Monitoring <i>Florence Choo</i> UNSW Australia
375	3269288	CN	Research On The Degradation Of BA In Aqueous Solution By Silicate-based Microfiltration Membrane Catalysed Ozonation <i>Jimin Shen</i> Harbin Institute of technology
376	3269342	BE	The Use Of Flow Cytometry As A Fast Tool For The Monitoring Of Drinking Water Outbreaks: A Case Study <i>Louise Vanysacker</i> De Watergroep
377	3269376	DK	Risk Mapping For Informed Decision Making <i>Tine Stausgaard Munk</i> Rambøll
378	3269392	TW	The Optimal Operation Of Rapid Filters In The Water Purification Plant For Water Quality Control And Drinking Water Safety <i>Shang-Lien Lo</i> Taipei Water Department
379	3269400	SE	Defining The Maximum SAA Of Bacteria Used For Nitrogen Removal: A Proposed Protocol For Batch Assays <i>Jing Liu</i> Bioprocess Control Sweden AB
380	3269481	DK	Prokaryotic Communities In Drinking Water Biofilters Using Alternative Filter Medium <i>Inés Breda</i> Skanderborg Forsyningsvirksomhed A/S
381	3269534	CN	Detection Of Antibiotic Resistant Enterobacteriaceae In Pharmaceutical Producing Wastewater And Receiving River <i>Jiane Zuo</i> School of Environment, Tsinghua University
382	3269706	BR	Evaluating And Validating An Performance Indicator For Sampling Plan Of Water Quality Control With A GIS Support <i>Victor Faria</i> CEDAE
383	3269726	US	Effect Of Biofilm Structure On Susceptibility Of Pseudomonas Putida KT2440 To Silver Nanoparticles <i>Eakalak Khan</i> North Dakota State University
384	3269731	NL	Correlation Between Frequencies Of (faecal) Indicators And Mean Heterotrophic Plate Counts In Drinking Water Samples <i>J. Hein van Lieverloo</i> Vlaeterna
385	3269783	AU	Quantitation Of Hookworm Ova From Wastewater <i>Warish Ahmed</i> CSIRO
386	3269787	CN	Regional Integrated Water Environmental Risk Assessment In The Collaborative Development Of Beijing-Tianjin-Hebei Context <i>Jinsheng Wang</i> Beijing Normal University
387	3269807	CN	Temporal Variety Characteristics Of Bacterial Aerosols From WWTP <i>Yunping Han</i> Research Center for Eco-Environmental Sciences, CAS
388	3269814	CN	Validation Of Efficient Removal Of Extracellular And Intracellular Antibiotic Resistance Genes In Five Full-scale MBRs <i>Yayi Wang</i> Tongji University
389	3269821	JP	Development Of Ecosystem Risk Impact Assessment System Methods For Chemicals Using Microcosm Systems <i>Kazuhiro Murakami</i> Chiba Institute of Technology
390	3269842	AU	Waterways As Settings For Promoting Mental Health And Wellbeing <i>Anne Cleary</i> Griffith University
391	3269859	JP	Environmental Condition Assessment Of Yatsu Tidal Flat And Inflow Rivers Using Biological Indicators <i>Kazuhiro Murakami</i> Chiba Institute of Technology
392	3270014	IR	Removal Of Trihalomethanes (THMs) from Water Samples Using Iron Nano Particles Coupled Head Space Method By GC- MS <i>Nourollah Ghaemi</i> Khorasan Razavi Rural Water and Waste
393	3270093	AU	The Influence Of Algal Characteristics And Coagulant Selection On Floc Properties: Towards More Effective Algae Removal <i>Rita Henderson</i> University of New South Wales
394	3270105	TW	Impact Of Oxidants On Cyanobacteria In Water: Models For Cell Lysis And Odorant And Cyanotoxin Degradation <i>Tsair-Fuh Lin</i> National Cheng Kung University
395	3270112	AU	Mechanistic Study On The Formation Of Adsorbable Organic Bromine In Synthetic Waters <i>Sebastien Allard</i> Curtin University
396	3270123	CN	Groundwater Pollution Risk Assessment In Shenyang City, Northeast China <i>Jie Yang</i> College of Water Sciences, Beijing Normal University/
397	3270418	NL	Occurrence Of Pharmaceuticals And UV Filters In Swimming Pools And Spas And Their Correlation To Pool Water Treatment <i>Giuliana Ferrero</i> UNESCO-IHE - Institute for Water Education
398	3270435	PT	WSP Implementation In Mozambique: A Bidirectional Learning Process <i>Nuno Brôco</i> Águas de Portugal
399	3270437	CN	Effects Of ZnO Nanoparticles On Polyphosphate Accumulating Organisms In Enhanced Biological Phosphorus Removal Process <i>Xiaonan Yang</i> Harbin Institute of Technology
400	3270587	AU	Implementation Of Health Based Targets For Pathogens In Drinking Water In Southeast Queensland <i>Arran Canning</i> Seqwater
401	3270608	JP	Effects Of Agricultural Fields In Reclaimed Land And River Basin On Water Quality In Lake Kahokugata, Japan <i>Ryoko Yamamoto-Ikemoto</i> Kanazawa University
402	3270621	NL	Quantification Of Failure Mechanisms In Shale Gas Exploration And Risks For Drinking-water Related Groundwater <i>Stefan Kools</i> KWR Watercycle Research Institute
403	3270651	ES	Managing Drinking Water Quality Over A Distribution Network, Based On A New Risk-assessment System <i>Francisco Cubillo</i> Canal de Isabel II Gestion
404	3270686	CN	Water Quality Change After Desalinated Seawater Translated By Three Lining Material Pipes <i>Xiaomin Li</i> Tsinghua University
405	3270741	KR	Estimation Of Non-Point Source Contribution Ratio In Watershed Through River Monitoring During Rainfall <i>Lee-Hyung Kim</i> Kongju National University
406	3270744	FR	Assessing The Costs And Benefits Of Water Safety Plans <i>Jean-Francois Loret</i> SUEZ
407	3270785	NL	Data-driven Prioritization Of Chemicals For Various Water Types Using Suspect Screening LC-HRMS <i>Stefan Kools</i> KWR Watercycle Research Institute
408	3270789	TR	Fate And Behaviour Of NP Compounds In Aerobic And Anaerobic Digestion Of Sewage Sludge <i>F. Dilek Sanin</i> Middle East Technical University
409	3270811	TW	Maternal Exposure To Disinfection By-products In Drinking Water And Risk Of Adverse Birth Outcomes In Taiwan <i>Gen-Shuh Wang</i> National Taiwan University
410	3270828	NO	Effect Of Water Quality And Presence Of Sediment Particles On Recoverable Virus And Indicator Bacteria <i>Aina Wennberg</i> NIVA (Norwegian Institute for Water Research)

Poster Presentations

411	3271923	TR	Physicochemical Relationship Of Methane, Nitrous Oxide And Ammonia Fluxes In A Eutrophic Lake <i>Selim Sanin</i> Hacettepe University
412	3273443	FR	Smart Wastewater Treatment Plant <i>Eric Fievez</i> SUEZ
413	3273710	AU	Do We Know The Contamination Level Of Tracer Level Organic Pollutants In Southern Hemisphere Water Environment? <i>Lalantha Senevirathna</i> Charles Sturt University
414	3273736	CN	The Impact Of Wenchuan Earthquake On The Quality Of Groundwater In Chengdu Plain, China <i>Rui Zuo</i> Beijing Normal University
415	3273747	US	Risk Perception Of Drinking Water Source And Quality In Low-Income Hispanic Communities In The Central Valley <i>Samendra Sherchan</i> California State University-Fresno
416	3273755	TW	Removal Of Acetaminophen And Diclofenac By Electrochemical Oxidation <i>Yu-Jung Liu</i> National Taiwan University
417	3274096	IR	Chlorine Emergency Response Plan In Tehran Water And Wastewater Company <i>Seyyed Alireza Ebrahimzadeh Zonouzian</i> Tehran Water and Wastewater Co.
418	3274270	CN	The Impaction On The Antibiotic-resistance Of Escherichia Coli By Culturing Them With Ceftriaxone <i>Mengyu Zhang</i> Tsinghua University
419	3275166	AU	Separation Of SMPs Accelerating Chloramine Decay In Nitrified Chloraminated Systems <i>Arumugam Sathasivan</i> Western Sydney University
420	3275226	CN	Identification Of Disinfection By-products From Different Disinfection Processes Using Comprehensive Two-dimensional Gas Chromatography-quadrupole Mass Spectrometry And In Silico Toxicity Assessment In Drinking Water <i>Donghong Wang</i> Research Center for Eco-Environmental Sciences
421	3279369	FR	Advanced Network Cleaning: A Multi-level Approach For Diagnosis Of Discoloration Risk In The Drinking Water Distribution <i>Didier Sinapah</i> SUEZ
422	3279603	PT	Mimicking The Fate Of Six Sulfonamides In Reactions With Chlorine: Monitoring By UPLC-MS/MS <i>Alexandre Rodrigues</i> iMed.UL, Faculdade de Farmácia da Universidade de Lisboa
423	3283720	PT	Pharmaceuticals In Drinking Water: In Vivo Studies <i>Maria João Benoliel</i> iMed.UL, Faculdade de Farmácia da Universidade de Lisboa
424	3284284	ZA	Factors Affecting Absolute Quantitative Real-Time PCR <i>Kousar Hoorzook</i> University of Johannesburg
425	3284689	US	Assessment Of Ballast Water Quality Based On Occurrence Of Viral Pathogens And Diversity Of Antibiotic Resistance Genes <i>Joan Rose</i> Michigan State University
426	3284697	SG	International Perspectives On Regulations And Guidelines For Quality Of Water In Public Swimming Pools <i>Jaren Soo</i> National Environment Agency
427	3285708	PT	Occurrence And Removal Of Pharmaceuticals In A Wastewater Treatment Plant In Lisbon Area (Portugal) <i>Eugénia Cardoso</i> iMed.UL, Faculdade de Farmácia da Universidade de Lisboa
428	3285723	AU	Assessment Of Surface Water Quality In Jerrabomberra Wetlands, Australian Capital Territory <i>Rahnum Nazmul</i> The University of New South Wales, Canberra
429	3285793	AU	Assessing The <I>Cryptosporidium</I> Risk Of Sydney's Drinking Water Supplies <i>Andrew Ball</i> WaterNSW
430	3285800	AU	Water, Wellbeing And Achieving Sustainable Development Goal 6 In Remote Aboriginal Australian Communities <i>Nina Hall</i> University of Queensland
431	3286046	FI	Prevalence Of <I>Enterococcus</I> Species In The Baltic Sea Beaches Of Finland <i>Ananda Tiwari</i> The National Institute for Health and Welfare
432	3286996	US	Forming A Global Network Of Scientists To Address Sanitation <i>Kyana Young</i> Michigan State University
433	3291758	SG	Evaluating The Efficacy Of Commercial Kits For Extraction Of Viral DNA/RNA From Environmental Water Samples <i>Karina Yew-Hoong Gin</i> National University of Singapore
434	3302086	SG	Risk Assessment Of Noroviruses In Recreational Surface Waters In Singapore <i>Karina Gin</i> National University of Singapore
435	3306374	CN	Spatial-temporal Distribution Of Phytoplankton In Relation To Nutrient In Yangtze River Estuary And Adjacent Sea, China <i>Bing Zheng</i> Chinese Research Academy of Environmental Sciences
436	3306877	AU	Meeting The Challenges In Applying Preventive Risk Management For Water Recycling In Regional New South Wales <i>Nanda Altavilla</i> NSW Department of Primary Industry
437	3306900	AU	Protecting Public Health Using A Risk Management Approach For Assessing Small South Australian Recycled Water Schemes <i>Michelle Withholz</i> Department for Health and Ageing
438	3379743	CN	Assessment Of Genotoxicity Removal From Drinking Water By Different Activated Carbons Using The SOS/umu Bioassay <i>Xinkai Cao</i> Technology Institute of Beijing Waterworks Group Co
439	3445842	CN	Prediction Of Total Nitrogen In Gucheng Lake Using Artificial Neural Networks Combined With Factor Correlation Analysis <i>Guohua Fang</i> Hohai University

Sponsors, Media Partners & Organisers



Australia

water partners for development

The Australian Water Association is the national peak water organisation, delivering information, expertise and collaboration for sustainable water management. Our membership includes professionals and practitioners working in utilities, science and research, energy and resources, manufacturing and agriculture and professional services. We have an active branch network across all Australian States and Territories and maintain extensive international links, including with the International Water Association. We represent every segment of the water industry and we proudly recognise excellence through our awards, support our future leaders through our Young Water Professionals network, and have industry supporters volunteering their time on branch committees. We work to deliver programs, information, services and events that connects and communicates with members and enriches their engagement with us and the water sector as a whole. The Association is committed to building Australia's water capabilities to maintain its position as a world leader in water management.

For more information, visit www.waterpartnership.org.au/event/wwce



Queensland – Statewide Innovation with Global Impact

Water is fundamental to the wellbeing of Queenslanders, the State's economic development and the protection of its rich natural values. Queensland government is at the forefront of innovative and pioneering policy and programs including: world leading basin management approaches that balance competing uses, a system of tradeable water entitlements, long-term planning for water security to deal with floods and droughts, diverse water services infrastructure and community water conservation and engagement programs. A key focus is managing the rivers flowing to the Great Barrier Reef to protect this natural asset. These outcomes are underpinned by collaborative contemporary science and science-to-practice partnerships. www.qld.gov.au



Dedicated to a better Brisbane

Brisbane is home to more than one million people and is renowned for its riverside location, distinctive subtropical climate and friendly relaxed lifestyle – all of which attract businesses, workers and tourists from across the world.

Brisbane City Council aims to:

- enhance the quality of life for the people of Brisbane
- build vibrant communities
- improve the quality and value of services to support the sustainable economic growth
- improve the city's infrastructure to protect and enhance the natural and built environment.

Today, Brisbane City Council is the largest local government in Australia, both in population and budget.

www.brisbane.qld.gov.au



Xylem is a leading water technology provider, enabling customers to transport, treat, test and efficiently use water in public utility, residential and commercial building services, industrial and agricultural settings. The company does business in more than 150 countries through a number of market-leading product brands, bringing broad applications expertise with a strong focus on finding local solutions to challenging water problems.

Xylem is headquartered in Rye Brook, New York, with annual revenues of \$3.7 billion. Xylem has been named to the Dow Jones Sustainability World Index for advancing sustainable business practices and solutions worldwide.

www.xylem.com

Gold Sponsors



Griffith University was created to be a different kind of university—challenging conventions, responding to trends and pioneering solutions. Ranking in the top five per cent of universities worldwide, its future-focused degrees are developed in consultation with industry, based on cutting-edge research, and taught by Australia's most awarded academics. griffith.edu.au



SCINOR is an integrated corporation based in china. Covering the full spectrum of water treatment including membrane R&D and sales, EPC projects and system optimization/ operations. Our market experience includes industrial water treatment and reuse, municipal water supply, advanced sewage treatment and reuse, brackish water and seawater desalination, and zero liquid discharge. www.scinorwater.com



Vewin is the association of drinking water companies in The Netherlands. Vewin represents the common interests of its member utilities in national and international politics and institutions. The ten Dutch drinking water companies provide water of outstanding quality. Their unique selling point is the absence of chlorination, due to a long-standing focus on water quality from source to tap. Besides water quality, the sector pays much attention to provide sustainable and efficient services to the customer. www.vewin.nl



Poten Environment Group is a pioneer and leading provider in water and environmental protection services in China and all around the world. Poten designs, builds and operates state of the art innovative water and wastewater treatment infrastructures, soil remediation and restoration, as well as developing cutting edge water and environment monitoring and testing systems. Poten commits to create innovative solutions for a better environment. www.poten.cn



Water, waste-based secondary materials and energy are essential for the vitality of human activities. We provide expert water optimization services in water networks, engineering, equipment, operation and maintenance. We pioneer advanced solutions through waste water recycling and seawater desalination. We ensure waste collection and disposal and promote waste recovery to generate renewable waste based energy and secondary raw materials. We offer innovative solutions in consulting for the sustainable urban development. www.suez.com



Pure Technologies is a world leader in the development and application of innovative technologies for inspection, monitoring and management of large diameter water and wastewater pressure pipelines. Pure's expertise and technologies are being used around the world to help utility operators mitigate pipeline deterioration and maximize capital budgets for rehabilitation and replacement programs. www.puretechltd.com



The University of Queensland (UQ) is one of Australia's leading research and teaching institutions. We strive for excellence through the creation, preservation, transfer and application of knowledge. For more than a century, we have educated and worked with outstanding people to deliver knowledge leadership for a better world. The University of Queensland ranks in the top 50 as measured by the QS World University Rankings and the Performance Ranking of Scientific Papers for World Universities. The University also ranks 52 in the US News Best Global Universities Rankings, 60 in the Times Higher Education World University Rankings and 77 in the Academic Ranking of World Universities. uq.edu.au

Congress App Sponsor



Water360: Education and Engagement

Water360 education products help water utilities and organisations with their community education and customer engagement programs. A range of videos, animations, guides and interactive maps can be adapted for websites, displays, e-learning, workshops, forums, and social media.

Water360 has been developed with support by the Australian government, and the water industry in Australia and the United States. Products are widely applicable to the international water community. Used individually or together, they will enhance industry focus on integrating the full water cycle into urban water supply management www.watersecure.com.au/engage

Emerging Technology Sponsor



Isle Utilities (Isle) is extremely passionate about emerging technologies and we built our business around supporting the acceleration of emerging technologies for water and sanitation in the market place. We have been practicing this through the running of Technology Approval Group (TAG) meetings and organizing Innovation pavilions & forums at Global Events www.isleutilities.com

Partner



The Australian Water Association is Australia's peak national water organisation, delivering information, expertise and collaboration for sustainable water management. Membership is made up of professionals and practitioners working in utilities, science and research, energy and resources, manufacturing and agriculture; and includes both the water sector (government owned water utilities, water departments and policy experts) and the private sector (privately owned water utilities, contractors, consultants, and suppliers). We have an active branch network across all Australian States and Territories and maintain extensive international links, including with the International Water Association. www.awa.asn.au

Supporting Partners



Media Partners



Organisers

IWA Programme Committee

Chair

Wolfgang Rauch *Austria*

Co-Chair

Xiaochang Wang *China*

Committee Members

Shaun Cox *Australia*

Heidi Snyman *South Africa*

Gertjan Zwolsman *Netherlands*

Jörg E. Drewes *Germany*

Hiroaki Furumai *Japan*

Trevor Bishop *United Kingdom*

Eveline Volcke *Belgium*

Alejandro Iza *Argentina*

Shane Snyder *United States*

Shafick Adams *South Africa*

Maria Benoliel *Portugal*

Joan Rose *United States*

Jurg Keller *Australia*

Seungkwon Hong *Korea*

Mark van Loosdrecht *Netherlands*

John Batten *United States*

Reynald Bonnard *France*

Scientific and technical paper reviewers

Reviewers contribute significantly to the development of the congress programme. All 1305 submissions were reviewed and scored by at least two experts, who are drawn from over 70 countries. This is critical to ensuring high standards and IWA and the World Water Congress is grateful for the reviewers' tireless efforts.

Zaiton Abdul Majid

Anna Abels

Nurudeen Abiola Oladoja

Adesola Adedugbe

Valiagha Aghabeygi

Mansoor Ahammed

Markus Ahnert

Aysegul Aksoy

Ioannis Alexiou

Muhammad Ali

Teresa Alvarino

Leonor Amaral

Priyane Amerasinghe

Muti Aмоса

Marta Antonelli

Zouhayr Arbib

Richard Ashley

Kaveh Hariri Asli

Wisrutta Atthakor

Takashi Azuma

Akintunde Babatunde

Suresh Babu Parasuraman

David Baguma

Emily Bailey

Elisenda Ballesté

Peter Balmér

Sreechandra Banerjee

Ana Estela Barbosa

Jean Baron

Ana Maria Barreiros

Luis Basiero Catala

Joao Bassin

Hosein Bayatti

Mohammad Behnam Rassouli

Ed Beling

Ali Belmeziti

El Hassane Ben Ahmed

Pedro Béraud

Walter Betancourt

Gokul Bharambe

Veronique Bonnelye

Robert Bos

Marelize Botes

Amos Branch

João Brandão

Robert Brears

Trevor Bridle

Rita Brito

Nuno Brôco

Nigel Brown

Allan Bruus

Jo Burgess

Gianluigi Buttiglieri

Faizal Bux

David Cabanas

Jesus Andres Cacho Rivero

Nidia Caetano

Cristina Calheiros

José Luis Campos

Fernando Candello

Maria Adriana Cardoso

Ana Cardoso

Guillermo Cardoso-Landa

Bengt Carlsson

Marta Carvalho

Gilda Carvalho

Magali Casellas - Francais

Paulo Nico Casimiro

Aldo Castaneda

Pedro Chambel-Leitao

Helder Chamine

Amit Chanan

Vijesh Chandra Ratanji

XiaoJun Chang

Tatiana Chaparro

Bambos Charalambous

Durgananda Chaudhary

Laura Chekli

Bing Chen

Qingfeng Cheng

Ka Yu Cheng

Jean-Marc Choubert

Michael Chys

Haim Cikurel

Dores Cirne

Gregory Claydon

Javier Climent

Ruth Cockerton

Maria Coelho

Clémence Coetsier

Luis Corbala Robles

Peter Cornel

Rui Cortes

Francisco Costa

Filomena Costa

Graham Costin

Sophie Courtois

Katharine Cross

Krzysztof Czerwionka

Gustavo da Silva

Amidou Dao

Danielle de Bem Luiz

Mariangela de Oliveira

Maria Norberta de Pinho

Kirsten de Vette

Hildelano Delanusse Theodoro

Márcia Dezotti

Vetrivel Dhagumudi

Kegong Diao

Emilie Dieude-Fauvel

Qing Ding

Paulo Alexandre Diogo

Geert Dirckx

Maria do Céu Almeida

Mihai Dragomir

David Drury

Gabriela E. Moeller-Chavez

Ahmed El-Gendy

Mostafa El-Seddik

Phaik Eong Poh

Thomas Ertl

Eva Estevan

Hatem Fadel

Huan-Jung Fan

Chu Fang Yang

Victor Faria

Javier Farias

Andreas Farnleitner

Kazi Fattah

Francisco Jesus Fernandez Morales

Isaac Fernandez Rodriguez

Paul Fesko

Paola Foladori

Karel Folens

Mona Galal

Jordi Gallo

Ana Galvão

Dawen Gao

Xin Gao

Pedro Antonio García

José Gascão

Sam Geerts

A.Gul Geyik

Mahmood Ghaheri

Organisers

Karim Ghasemipanah

Ashok Ghosh

Philippe Gislette

Raul Glotzbach

Ronn Goei

Ricardo Gomes

Simon Gonzalez

Francisco González-Gómez

Stephanie Gora

Yannick Goubeyre

Willie Grabow

Walter Graf

João Grilo

Xiaohong Guan

Gilvan Guedes

Amelie Guillon

Ester Guimarães

Albert Guisasola

Bum Gun Kwon

Jianhua Guo

Zirui Guo

David Gustavsson

Oriol Gutierrez

Keishiro Hara

Pritha Hiram

Martin Heijnen

Kim Hellehoej Soerensen

Qomarudin Helmy

Bruno Henriques

Thomas Hillenbrand

Goen Ho

Seungkwon Hong

Chong Hou Chun

Dwight Houweling

Carol Howe

Leslie Hoy

Shihu Hu

Joseph Husband

Pilar Icaran

Daisuke Inoue

Ion Irizar

Sadahiko Itoh

Rahul Jadhao

Norbert Jardin

Olivia Jensen

Ulf Jeppsson

Mingsheng Jia

Verno Jonker

Koen Joris

Kristine Joy Mallari

Daniel Jung

BongSeog Jung

Wilfred Kadewa

Ilunga Kamika

Fadime Kara Murdoch

Rezaul Karim

Patiya Kemacheevakul

Mohiuddin Khan

Passkorn Khanthongthip

Changwon Kim

Kassandra Klaer

Ewa Kmiecik

Toshiya Komatsu

Stefan Kools

Elif Kucuk

Lokesh Kumar

Harikishore Kumar Reddy

Sudheer Kumar Shukla

Sheena Kumari Santosh

Taketoshi Kusakabe

Tetsuya Kusuda

Kok Kwang Ng

Catarina L. Amorim

Jes la Cour Jansen

Luc Lacoste

Josef Lahnsteiner

Richard Lake

Ana Lanham

Carolina Latorre

Ian Law

Markus Lechner

Harry Lee

Jieun Lee

Olivier Lefebvre

Maria Elisa Leite Costa

Paulo Lemos

Dorothe Lensch

Frederic Leusch

Audrey Levine

Juan Carlos Leyva Diaz

Dong Li

Lin Li

Junwen Li

Ang Li

Hong Li

Roland Liemberger

Mong Hoo Lim

Chu-Ching Lin

Tsair-Fuh Lin

Antonio Linares-Sáez

Pao-Wen Grace Liu

Junxin Liu

Ewa Liwarska-Bizukoja

Sergey Lobanov

Christian Loderer

Sebastien Logette

Siew-Leng Loo

Yago Lorenzo-Toja

Nidia Lourenco

Luca Lucentini

Doru Lucian Manea

Ana Luis

Doug Lumley

Gerard Luyet

Tim Mackney

Agnes Maenhout

Zakhar Maletskyi

Rui Malheiro

Annika Malm

Aisha Mamade

Marla Maniquiz-Redillas

Cyril Marconnet

Desirée Marín

Organisers

Necat Ozgur
Tzu-Yi Pai
Anne Pallarès
Francis Pamminger
Julio Perez
Ricardo Levi Piacó Cavalcanti
Marc Pidou
Maite Pijuan
José Pinho
Ariana Pintor
Joao Pitta
Manel Poch
Marie-Noelle Pons
Teodor Popa
Maria Manuela Portela
Laura Pramparo
Ana Rita Prazeres
Adam Prescott
Peter Prevos
Bambang Priyambodo
Eva Promes
James Prothero
Anton Purnama
Fei Qi
Zhimin Qiang
Guillermo Quijano
Dhundi Raj Pathak
Shukra Raj Paudel
Valmiki Rama Krishna
Pedram Ramin
Cipriano Ramos
Nalin Ranasinghe
Sumana Ratpukdi
David Ratte
Margarida Rebelo
Andrea Rechenburg
Maria Teresa Reis
Eddy Renaud
Thierry Ribeiro
Rita Ribeiro
Fahmi Ridwan
Lacramioara Diana Robescu
Angel Robles
Danielle Roche
Adrian Rodriguez-Caballero
Peter Roebeling
Dewi Rogers
Alicia Román-Martínez
Stanislav Rudnev
Martin Rygaard
Ramesh Saagi
Frank Sacher
Marie Sagen
Mique Salgot
Sandra Sanches
Julian Sandino
Daisuke Sano
Carmen Sans Mazón
Martina Santinelli
Ana Rita Santos

Maria Santos Silva
Miguel Angel Sanz
Raman Saravanane
Hisashi Satoh
Marion Savill
Murtaza Sayed
Jens Scheideler
Katerina Schilling
Torsten Schmidt
David Schwesig
John Scott Meschke
Bruno Segalla Pizzolatti
Kazunari Sei
Alexandra Serra
Joaquin Serralta
Ebrahim Shahmansourian
Supiah Shamsudin
Keshab Sharma
Samendra Sherchan
Craig Sheridan
Akbar Shirzad
Ho Kyong Shon
Hung-Yee Shu
Artur Tiago Silva
Ana Silva
Bruna Silva
Francisco Silva Pinto
João Simão-Pires
Vipul Singh
Kwanrawee Sirikanchana
Anne-Katrin Skambraks
Rob Skinner
Patrick Smeets
Ed Smeets
Ana Soares
Satoshi Soda
Graziella Solinas
Regina Sommer
Manuel Soto
Vitor Sousa
Wilson Sousa Junior
Stijn Speelman
Peter Spencer
Ludovico Spinosa
Maronel Steyn
Eduardo Subtil
Abhiram Sulur
Feiyun SUN
Małgorzata Szlachta
Mariko Tachikawa
Fernando Tadeo
Imre Takacs
Hiroaki Tanaka
Yu Tao
Yi Tao
Burkhard Teichgräber
Ana Paula Teixeira
Ivana Teodorovic
Mara Tignino
Yen-Peng Ting

Emel Topuz
Chrysa Triantafyllidou
Kwok-Wai Tsang
Susanne Tumlin
Rita Ugarelli
Wolfgang Uhl
Nilufer Ulgudur
Ken Ushijima
Maria Vale
Borja Valverde Pérez
Stijn van Hulle
Hein van Lieverloo
Davy Vanham
Ivone Vaz-Moreira
Luisa Vera
Paola Verlicchi
Déborah Viana
Paula Vieira
Niina Vieno
Bala Vigneswaran
Cristina Alejandra Villamar
Eveline Volcke
Marcos von Sperling
Jan Vreeburg
Jamile Wagner
Martin Wagner
Nick Walmsley
Weidong Wang
Yayi Wang
Yawei Wang
Chong-Chen Wang
Hongjie Wang
Shuo Wang
Qilin Wang
Xu Wang
Sarah Ward
Helen Watts
Chun-Hai Wei
Qinxue Wen
Haydon Wilkins
Sally Williamson
Scott Wilson
Glenn Wilson
Ptryk Wójtowicz
Changyong Wu
Susanne Wuijts
Nikolaos Xafenias
Savvas Xanthos
Sofia Ya Hsuan Liou
Yeojoon Yoon
Sansfica Young
Dawei Yu
Baoling Yuan
Yeomyeo Yun
Ali Yuzir
Myrto-Panagiota Zacharof
Wenjie Zhang
Zhaohan Zhang

Exhibition

Exhibition:

Join the world's leading companies working in sustainable water management

With a focus on leading practice and innovation, the IWA World Water Exhibition is a one-stop-shop showcasing world-leading companies. With a focus on technology and innovation, the Exhibition brings you the newest technologies and best practice, and connects you to the people with the right solutions.

Designed to provide new networking and business opportunities, and to ensure maximum engagement between participants and exhibitors, the IWA World Water Exhibition is a fully integrated component of the IWA World Water Congress & Exhibition. Morning and afternoon breaks and lunches will be hosted in the exhibition areas

SOCIAL MEDIA

Don't miss out. Follow us and join the conversation:

[#iwa2016brisbane](#)

www.facebook.com/InternationalWaterAssociation

www.linkedin.com/company/international-water-association

The Exhibition Pavilions

Emerging Technologies & Innovation pavilion

Powered by Isle Utilities (Isle) and sponsored by Xylem and John Holland, the Emerging Technologies & Innovation Pavilion and Programme, located at stand number 812, features the latest innovations and breakthroughs in technology for the water industry. The start-up tech companies are specially selected to present cutting edge solutions for the topics 'Water reuse to desalination' and 'Smart networks, making them work'. Visitors are invited to visit the pavilion to attend the daily award ceremonies, social events, and interact with end-users, industry professionals, investors and scientist. This is the place where you will learn about the direction of tomorrow's water world.

TOPIC 1 / WATER REUSE

TO DESALINATION:

- Memfree - Clear Water Science
- Emefcy - MABR
- Hydro-dis
- LG Sonic
- Metaflush
- Krieter

TOPIC 2 / SMART NETWORKS:

MAKING THEM WORK:

- Geointeractive
- Liquid Integrity Systems Pty Ltd
- RedEye
- UVS Trenchless Technology



(John Holland)

Knowledge and Research pavilion

The Knowledge and Research pavilion (K&R Pavilion) represents the high-level institutions in Australia, showcasing their knowledge in the domain of water management.

Participants in the pavilion are:

- Griffith University
- University of Queensland
- CRC for water sensitive cities
- Australian Water Recycle Centre of excellence
- Water Research Australia
- Monash University
- University of Technology Sydney
- RMIT University
- Watersecure
- International Water Centre (IWC) facilitates the central area in the pavilion (discussion area)



Cities pavilion

The Cities Pavilion, powered by Arup and sponsored by Veolia is an area for cities to highlight their innovations and leadership towards urban resilience and to network with other cities to become inspired by similar contexts and solutions.

On Oct 11th, the day will start with an introduction to the IWA Principles for Water Wise Cities followed by their official launch at the Cities Pavilion. The pavilion includes a central networking area, where the "Principles for Water Wise Cities" will be illustrated.

(Logo ARUP)

Country pavilions

AUSTRALIAN PRECINCT

The Australia Precinct highlights the Australian Water industry and its major players. It is the opportunity to meet and become acquainted with water projects featured by Australia's leading companies, institutes, utilities and government innovations and products on a global stage featuring Australia's leading



Africa Pavilion

organised via African Water Associatio, stand number 908

Belgium Pavilion

organised via VLAKWA, stand number 708

China Pavilion

organised via Acevision, stand number 310

Denmark Pavilion

organised via Danish Water Technology Group, stand number 505

Japan Pavilion

organised via JWVA, stand number 501

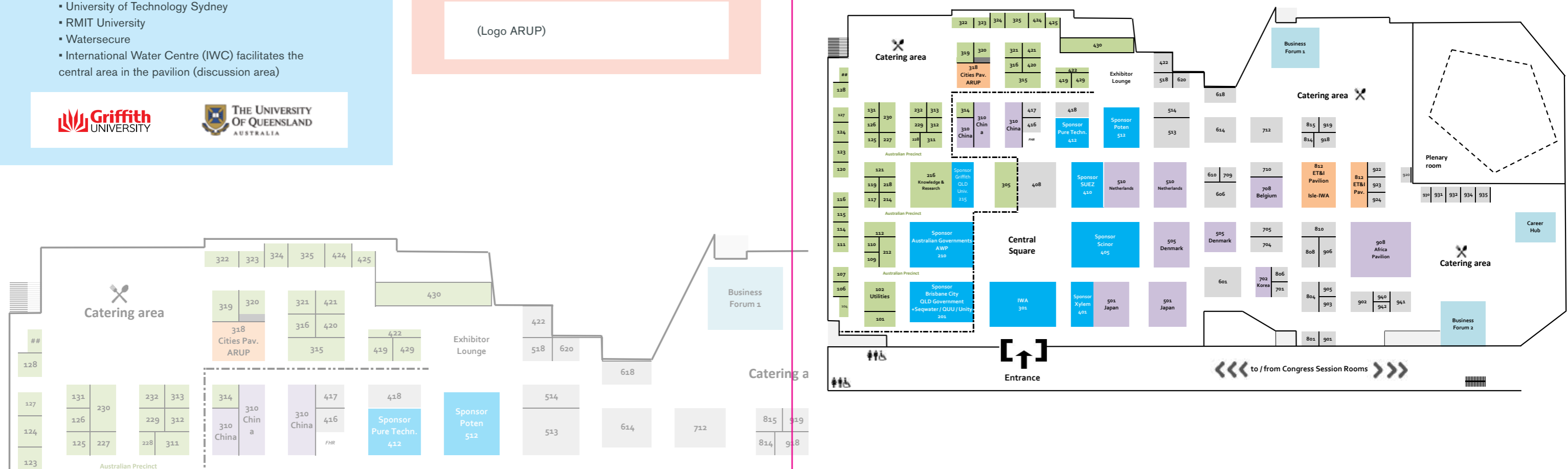
Korean Pavilion

organised via Korea Water Partnership, stand number 702

Netherlands Pavilion,

organised via Netherlands Water Partnership, stand number 510

Floor Plan to the exhibition



Exhibitor List

by organisation name

exhibitor	stand	exhibitor	stand	exhibitor	stand	exhibitor	stand	exhibitor	stand
3M <i>Australia</i>	125	Bioprocess Control AB <i>Sweden</i>	417	Detection Services <i>Australia</i>	514	Hebei Create Instrumentation Technologies <i>China</i>	310E	Isle Utilities <i>UK</i>	812
3PTechnik Australia <i>Australia</i>	130	Brisbane City Council <i>Australia</i>	201B	DHI Australia <i>Australia</i>	505	Hexa-Cover <i>Denmark</i>	505	Itron <i>France</i>	704
Acevision (Beijing) Exhibitions <i>China</i>	310	Bureau of Meteorology – BoM <i>Australia</i>	210	Earth Systems <i>Australia</i>	305	Hitachi Zosen <i>Japan</i>	606	Japan Institute of Wastewater Engineering and Technology <i>Japan</i>	501
Africa Pavilion <i>Africa</i>	908	Bureau of Sewerage Tokyo Metropolitan Government <i>Japan</i>	501	Eijkelpark <i>Netherlands</i>	510	Holland Water Challenge <i>Netherlands</i>	510	Japan Pavilion <i>Japan</i>	501
African Water Association - AfWA <i>Ivory Coast</i>	908A	Bureau of Waterworks Tokyo Metropolitan Government <i>Japan</i>	501	Eliquo Water & Energy <i>Netherlands</i>	510	Homa Pump Technology Australia P/L <i>Australia</i>	804	Japan Sewage Works Association - JSWA <i>Japan</i>	501
Agru <i>Australia</i>	601	Bürkert Fluid Control Systems <i>Germany</i>	924	Elsevier <i>UK</i>	932	Hydro-dis <i>Australia</i>	812	Japan Water Works Association <i>Japan</i>	501
Air Liquide <i>Australia</i>	320	Calix <i>Australia</i>	128	Emerging Technology & Innovation Pavilion <i>Global</i>	812	Hydrologic <i>Netherlands</i>	510	John Holland Water <i>Australia</i>	812
Aither <i>Australia</i>	305	Canadian National Committee <i>Canada</i>	432	Environmental XPRT <i>Spain</i>	422	HydroNumerics <i>Australia</i>	305	Kamstrup <i>Denmark</i>	505
Aliaxis Group <i>Australia</i>	313	Cardno <i>Australia</i>	218	EnviroSuite <i>Australia</i>	705	Hydrorock <i>Australia</i>	311	Kangen Water <i>Nigeria</i>	908G
ALS <i>Australia</i>	232	Challenger Valves + Actuators <i>Australia</i>	229	EPAL Luanda <i>Angola</i>	908B	IceWARM <i>Australia</i>	210	Kingspan Environmental <i>Australia</i>	107
Amsterdam International Water Week <i>Netherlands</i>	510	China Pavilion <i>China</i>	310	European Benchmarking Co-operation - EBC <i>Netherlands</i>	510	International Desalination Association - IDA <i>USA</i>	801	Korea Institute of Civil Engineering & Building Technology <i>Korea</i>	808
AquaFlanders <i>Belgium</i>	708	ChooseTap Coalition <i>Australia</i>	315	European Desalination Society - EDS <i>Italy</i>	901	International Water & Irrigation <i>Israel</i>	422	Korea Pavilion <i>Korea</i>	702
Aqualab Scientific Pty Ltd <i>Australia</i>	510	Cities Pavilion <i>Global</i>	318	EverythingAboutWater <i>India</i>	620	International Water Association – IWA <i>UK</i>	301	Korea Water Partnership <i>Korea</i>	702
Aquatec Maxcon <i>Australia</i>	214	CitySmart <i>Australia</i>	319	Evoqua Water Technologies <i>Australia</i>	109	Invisible Structures <i>Australia</i>	104	KPMG Global Asset Management Competence Center <i>Belgium</i>	708
Aquatech <i>Netherlands</i>	510	Clean TeQ <i>Australia</i>	305	eWater Solutions <i>Australia</i>	101	Iota Services <i>Australia</i>	112	Krieter <i>Malaysia</i>	812
Aquaveo <i>USA</i>	701	Clear Water Science – Memfree <i>Australia</i>	812	EWU - Energie-Wasser-Umwelt GmbH <i>Germany</i>	920	Irrigation Australia <i>Australia</i>	425	Kubota Corporation <i>Japan</i>	501
Arcadis <i>USA</i>	408	Coletanche <i>France</i>	903	Executive Media <i>Australia</i>	422			LG Sonic <i>Netherlands</i>	510 / 812
Arkon Flow Systems <i>Czech Rep.</i>	610	ComplySure <i>Australia</i>	305	Federation of Japan Water Industries <i>Japan</i>	501			LINAK Australia <i>Australia</i>	505
Armatec Environmental <i>New Zealand</i>	124	Confederation of Danish Industry <i>Denmark</i>	505	Flovac Vacuum Sewerage Systems <i>Australia</i>	618			Liquid Integrity Systems Pty Ltd <i>Australia</i>	812
ARUP <i>UK</i>	318	CRCentre for Water Sensitive Cities - CRCWSC <i>Australia</i>	216A	Future Water <i>Australia</i>	422			Longkou Chengfeng Zhiyuan Technology <i>China</i>	310C
Asian Water <i>Malaysia</i>	935	CSIRO <i>Australia</i>	210	FuturENVIRO <i>Spain</i>	422			Lonza Water Treatment <i>Australia</i>	127
Austrade <i>Australia</i>	212	Dagua Technologies <i>Canada</i>	709	GEA Westfalia Separator Australia P/L <i>Australia</i>	810			LuminUltra APAC <i>Australia</i>	117
Australian UAV <i>Australia</i>	305	Danish Water Forum <i>Denmark</i>	505	Geointeractive <i>Australia</i>	812			Maric Flow Control <i>Australia</i>	115
Australian Water Association – AWA <i>Australia</i>	325	Danish Water Technology Group / Danish Export <i>Denmark</i>	505	Georg Schünemann <i>Germany</i>	923			McBarns Innovative Solutions <i>Australia</i>	126
Australian Water Partnership <i>Australia</i>	210	Danva <i>Denmark</i>	505	Global Water Intelligence <i>UK</i>	918			MEMCOR an Evoqua brand <i>Australia</i>	109
Australian Water Quality Centre <i>Australia</i>	119	Data 61 <i>Australia</i>	227	Government of Australia <i>Australia</i>	210			Metaflush <i>Australia</i>	812
Australian Water Recycling Centre of Excellence <i>Australia</i>	216F	DCM Process Control <i>Australia</i>	710	Government of Australia Pavilion <i>Australia</i>	210			METAWATER Co., Ltd. <i>Japan</i>	501
AVK International <i>Denmark</i>	505	De Watergroep <i>Belgium</i>	708	Grenof <i>Australia</i>	230			Microdyn-Nadir <i>China</i>	416
Axter SAS <i>France</i>	903	Deltares <i>Netherlands</i>	510	Griffith University <i>Australia</i>	215A			Ministry of Health, Labour and Welfare - MHLW <i>Japan</i>	501
Beijing Scinor <i>China</i>	405	Denmark Pavilion <i>Denmark</i>	505	Groundwater Assessment Platform – GAP / Eawag <i>Switzerland</i>	419			Ministry of Land, Infrastructure, Transport and Tourism <i>Japan</i>	501
Belgium Pavilion <i>Belgium</i>	708	Department of Agriculture and Water Resources - DAWR <i>Australia</i>	210	Gutermann <i>Australia</i>	123			Monash Sustainability Institute <i>Australia</i>	216D
Berson UV-techniek <i>Netherlands</i>	510	Department of Economic Development, Jobs, Transport and Resources <i>Australia</i>	305	HCP Software <i>Australia</i>	323			MonkeyMedia <i>Australia</i>	422
BIC Electric <i>Denmark</i>	505	Department of Foreign Affairs and Trade - DFAT <i>Australia</i>	210						
Bioaction Pty Ltd <i>Australia</i>	120								

THE LOW COST FUTURE OF SEWAGE COLLECTION

FLOVAC
VACUUM SEWERAGE SYSTEMS

- Resilient System
- Environmental Benefits
- Smart Technology
- Easy Maintenance

Organisation name

exhibitor	stand	exhibitor	stand	exhibitor	stand
Mott MacDonald NZ <i>New Zealand</i>	930	Saltfree Desalination <i>Australia</i>	305	Unisense Environment <i>Denmark</i>	505
Movus <i>Australia</i>	131	Scalene Energy Water <i>Australia</i>	429	Unitywater <i>Australia</i>	201C
MTD Pure Water <i>Netherlands</i>	510	SebaKMT <i>Germany</i>	815	University of Queensland <i>Australia</i>	215B
Murray-Darling Basin Authority - MDBA <i>Australia</i>	210	Senegalaise des Eaux - SDE <i>Senegal</i>	908F	University of Technology - UTS <i>Australia</i>	216G
Nairobi City Water & Sewerage <i>Kenya</i>	908D	Seqwater <i>Australia</i>	201C	UNSW Global Water Institute <i>Australia</i>	312
Nanfeng Pump Industry <i>China</i>	310A	Servelec Technologies Pty Ltd <i>Australia</i>	322	UVS Trenchless <i>Australia</i>	812
National Water & Sewerage Corporation - NWSC <i>Uganda</i>	906	SFI Valvemax <i>Australia</i>	614	Vandcenter Syd, VCS Denmark <i>Denmark</i>	505
Netherlands Pavilion <i>Netherlands</i>	510	Singer Valve Inc. <i>Canada</i>	806	Veolia <i>France</i>	318
Netherlands Water Partnership - NWP <i>Netherlands</i>	510	SODECI <i>Ivory Coast</i>	908C	Vermeer Equipment Holdings <i>Australia</i>	121
Ontoto <i>Australia</i>	324	SOMAGEP <i>Mali</i>	908E	VEWIN <i>Netherlands</i>	510
OOSKAnew Inc. <i>USA</i>	422	South East Water <i>Australia</i>	112	Victoria University <i>Australia</i>	305
PALL Australia <i>Australia</i>	430	Springer Nature <i>Netherlands</i>	510	Victorian Government <i>Australia</i>	305
Parkson <i>USA</i>	905	State of Green <i>Denmark</i>	505	Vinindex <i>Australia</i>	313
Partners for International Business <i>Netherlands</i>	510	Steel Mains <i>Australia</i>	712	VITO <i>Belgium</i>	708
PennWell Corporation <i>USA</i>	422	Suez Environnement <i>France</i>	410	VLAKWA <i>Belgium</i>	708
Poten Enviro <i>China</i>	512	Sumitomo Electric Industries <i>Japan</i>	518	Vontron Membrane Technology <i>China</i>	310B
Prochem / AVFI <i>Australia</i>	116	SunWater <i>Australia</i>	201C	Water & Carbon Group <i>Australia</i>	114
Public Utilities Regulatory Commission <i>Ghana</i>	922	Swan Forum <i>UK</i>	714	Water & Wastewater Asia <i>Singapore</i>	422
Pure Technologies <i>Canada</i>	412	Swing Corporation <i>Japan</i>	501	Water & Wastewater International <i>USA</i>	422
Queensland Government <i>Australia</i>	201A	TAISEI KIKO Co., Ltd. <i>Japan</i>	501	Water Alliance <i>Netherlands</i>	510
Queensland Urban Utilities <i>Australia</i>	201C	TAIZHOU G-GOOD ADHESIVES CO LTD <i>China</i>	310D	Water Environment Federation <i>UK</i>	814
Rain Harvesting <i>Australia</i>	110	Taylor + Francis <i>Australia</i>	931	Water Industry Alliance <i>Australia</i>	111
Rambell <i>Denmark</i>	505	The Aussie Bladda Tank <i>Australia</i>	305	Water Research Australia <i>Australia</i>	216
RedEye <i>Australia</i>	812	The Source <i>UK</i>	301	Water Services Association of Australia - WSAA <i>Australia</i>	102
RMIT University <i>Australia</i>	216B	Tokyo Convention & Visitors Bureau - TCVB <i>Japan</i>	501	Water360 <i>Australia</i>	216
Royce Water Technologies <i>Australia</i>	117	Tokyo Metropolitan Government <i>Japan</i>	501	WaterGroup <i>Australia</i>	714
Rubicon Water <i>Australia</i>	305	Tokyo Metropolitan Sewerage Services Corporation - TGS <i>Japan</i>	501	Watershare <i>Netherlands</i>	513
S::can Messtechnik <i>Austria</i>	710	Tourism & Events Queensland <i>Australia</i>	201A	World Water <i>UK</i>	814
Salt Water Solutions <i>Australia</i>	228	TSS Tokyo Water Co., Ltd. <i>Japan</i>	501	Xylem <i>USA</i>	401 / 812
				Yarra Valley Water <i>Australia</i>	315
				Yokohama Water Works Bureau <i>Japan</i>	501

Exhibitor List

by booth number

stand	exhibitor	stand	exhibitor	stand	exhibitor
101	eWater Solutions <i>Australia</i>	210	Bureau of Meteorology – BoM <i>Australia</i>	305	Department of Economic Development, Jobs, Transport and Resources <i>Australia</i>
102	Water Services Association of Australia – WSAA <i>Australia</i>	210	CSIRO <i>Australia</i>	305	Earth Systems <i>Australia</i>
104	Invisible Structures <i>Australia</i>	210	Department of Agriculture and Water Resources - DAWR <i>Australia</i>	305	HydroNumerics <i>Australia</i>
107	Kingspan Environmental <i>Australia</i>	210	Department of Foreign Affairs and Trade - DFAT <i>Australia</i>	305	Rubicon Water <i>Australia</i>
109	Evoqua Water Technologies <i>Australia</i>	210	Government of Australia <i>Australia</i>	305	Saltfree Desalination <i>Australia</i>
109	MEMCOR an Evoqua brand <i>Australia</i>	210	Government of Australia Pavilion <i>Australia</i>	305	The Aussie Bladda Tank <i>Australia</i>
110	Rain Harvesting <i>Australia</i>	210	IceWARM <i>Australia</i>	305	Victoria University <i>Australia</i>
111	Water Industry Alliance <i>Australia</i>	210	Murray-Darling Basin Authority - MDBA <i>Australia</i>	305	Victorian Government <i>Australia</i>
112	Iota Services <i>Australia</i>	210	Austrade <i>Australia</i>	310	Acevision (Beijing) Exhibitions <i>China</i>
112	South East Water <i>Australia</i>	212	Aquatec Maxcon <i>Australia</i>	310	China Pavilion <i>China</i>
114	Water & Carbon Group <i>Australia</i>	214	Griffith University <i>Australia</i>	310A	Nanfeng Pump Industry <i>China</i>
115	Maric Flow Control <i>Australia</i>	215A	University of Queensland <i>Australia</i>	310B	Vontron Membrane Technology <i>China</i>
116	Prochem / AVFI <i>Australia</i>	215B	CRCentre for Water Sensitive Cities - CRCWSC <i>Australia</i>	310C	Longkou Chengfeng Zhiyuan Technology <i>China</i>
117	LuminUltra APAC <i>Australia</i>	216A	RMIT University <i>Australia</i>	310D	TAIZHOU G-GOOD ADHESIVES CO LTD <i>China</i>
117	Royce Water Technologies <i>Australia</i>	216B	Water Research Australia <i>Australia</i>	310E	Hebei Create Instrumentation Technologies <i>China</i>
119	Australian Water Quality Centre <i>Australia</i>	216C	Monash Sustainability Institute <i>Australia</i>	311	Hydrorock <i>Australia</i>
120	Bioaction Pty Ltd <i>Australia</i>	216D	University of Technology - UTS <i>Australia</i>	312	UNSW Global Water Institute <i>Australia</i>
121	Vermeer Equipment Holdings <i>Australia</i>	216E	Water360 <i>Australia</i>	313	Aliaxis Group <i>Australia</i>
123	Gutermann <i>Australia</i>	216F	Australian Water Recycling Centre of Excellence <i>Australia</i>	313	Vinindex <i>Australia</i>
124	Armotec Environmental <i>New Zealand</i>	218	Cardno <i>Australia</i>	315	ChooseTap Coalition <i>Australia</i>
125	3M <i>Australia</i>	227	Data 61 <i>Australia</i>	315	Yarra Valley Water <i>Australia</i>
126	McBerns Innovative Solutions <i>Australia</i>	228	Salt Water Solutions <i>Australia</i>	318	ARUP <i>UK</i>
127	Lonza Water Treatment <i>Australia</i>	229	Challenger Valves + Actuators <i>Australia</i>	318	Cities Pavilion <i>Global</i>
128	Calix <i>Australia</i>	230	Grenof <i>Australia</i>	318	Veolia <i>France</i>
130	3PTechnik Australia <i>Australia</i>	232	ALS <i>Australia</i>	319	CitySmart <i>Australia</i>
131	Movus <i>Australia</i>	301	International Water Association – IWA <i>UK</i>	320	Air Liquide <i>Australia</i>
201A	Queensland Government <i>Australia</i>	301	The Source <i>UK</i>	322	Servelec Technologies Pty Ltd <i>Australia</i>
201A	Tourism & Events Queensland <i>Australia</i>	305	Aither <i>Australia</i>	323	HCP Software <i>Australia</i>
201B	Brisbane City Council <i>Australia</i>	305	Australian UAV <i>Australia</i>	324	Ontoto <i>Australia</i>
201C	Queensland Urban Utilities <i>Australia</i>	305	Clean TeQ <i>Australia</i>	325	Australian Water Association – AWA <i>Australia</i>
201C	Seqwater <i>Australia</i>	401 / 812	Xylem <i>USA</i>	405	Beijing Scinor <i>China</i>
201C	Unity Water <i>Australia</i>				
201C	SunWater <i>Australia</i>				
210	Australian Water Partnership <i>Australia</i>				

Booth number

stand	exhibitor	stand	exhibitor	stand	exhibitor
408	Arcadis <i>USA</i>	425	Irrigation Australia <i>Australia</i>	501	Swing Corporation <i>Japan</i>
410	Suez Environnement <i>France</i>	429	Scalene Energy Water <i>Australia</i>	501	TAISEI KIKO Co., Ltd. <i>Japan</i>
412	Pure Technologies <i>Canada</i>	430	PALL Australia <i>Australia</i>	501	Tokyo Convention & Visitors Bureau - TCVB <i>Japan</i>
416	Microdyn-Nadir <i>China</i>	432	Canadian National Committee <i>Canada</i>	501	Tokyo Metropolitan Government <i>Japan</i>
417	Bioprocess Control AB <i>Sweden</i>	501	Bureau of Sewerage Tokyo Metropolitan Government <i>Japan</i>	501	Tokyo Metropolitan Sewerage Services Corporation - TGS <i>Japan</i>
419	Groundwater Assessment Platform – GAP / Eawag <i>Switzerland</i>	501	Bureau of Waterworks Tokyo Metropolitan Government <i>Japan</i>	501	TSS Tokyo Water Co., Ltd. <i>Japan</i>
422	Environmental XPRT <i>Spain</i>	501	Federation of Japan Water Industries <i>Japan</i>	501	Yokohama Water Works Bureau <i>Japan</i>
422	Executive Media <i>Australia</i>	501	Japan Institute of Wastewater Engineering and Technology <i>Japan</i>	505	AVK International <i>Denmark</i>
422	Future Water <i>Australia</i>	501	Japan Pavilion <i>Japan</i>	505	BIC Electric <i>Denmark</i>
422	FuturENVIRO <i>Spain</i>	501	Japan Sewage Works Association - JSWA <i>Japan</i>	505	Confederation of Danish Industry <i>Denmark</i>
422	International Water & Irrigation <i>Israel</i>	501	Japan Water Works Association <i>Japan</i>	505	Danish Water Forum <i>Denmark</i>
422	OOSKAnews Inc. <i>USA</i>	501	Kubota Corporation <i>Japan</i>	505	Danish Water Technology Group / Danish Export <i>Denmark</i>
422	PennWell Corporation <i>USA</i>	501	METAWATER Co., Ltd. <i>Japan</i>	505	Danva <i>Denmark</i>
422	Water & Wastewater Asia <i>Singapore</i>	501	Ministry of Health, Labour and Welfare - MHLW <i>Japan</i>	505	Denmark Pavilion <i>Denmark</i>
422	Water & Wastewater International <i>USA</i>	501	Ministry of Land, Infrastructure, Transport and Tourism <i>Japan</i>	505	DHI Australia <i>Australia</i>
422	MonkeyMedia <i>Australia</i>			505	Hexa-Cover <i>Denmark</i>

Booth number

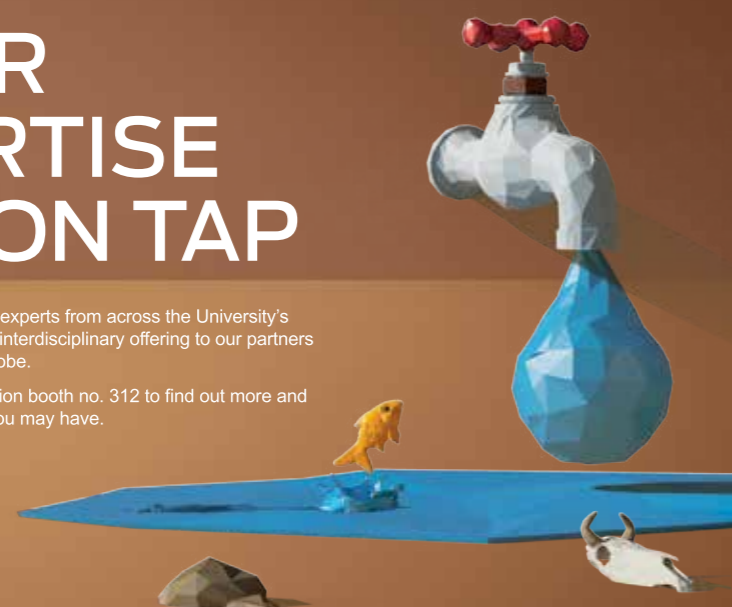
stand	exhibitor	stand	exhibitor	stand	exhibitor
505	Kamstrup <i>Denmark</i>	618	Flovac Vacuum Sewerage Systems <i>Australia</i>	812	Krieter <i>Malaysia</i>
505	LINAK Australia <i>Australia</i>	620	EverythingAboutWater <i>India</i>	812	Liquid Integrity Systems Pty Ltd <i>Australia</i>
505	Rambøll <i>Denmark</i>	701	Aquaveo <i>USA</i>	812	Metaflush <i>Australia</i>
505	State of Green <i>Denmark</i>	702	Korea Pavilion <i>Korea</i>	812	RedEye <i>Australia</i>
505	Unisense A/S <i>Denmark</i>	702	Korea Water Partnership <i>Korea</i>	812	UVS Trenchless <i>Australia</i>
505	Vandcenter Syd, VCS Denmark <i>Denmark</i>	704	Itron <i>France</i>	814	Water Environment Federation <i>UK</i>
510	Amsterdam International Water Week <i>Netherlands</i>	705	EnviroSuite <i>Australia</i>	814	World Water <i>UK</i>
510	Aqualab Scientific Pty Ltd <i>Australia</i>	708	AquaFlanders <i>Belgium</i>	815	SebaKMT <i>Germany</i>
510	Aquatech <i>Netherlands</i>	708	Belgium Pavilion <i>Belgium</i>	815	WaterGroup <i>Australia</i>
510	Berson UV-technik <i>Netherlands</i>	708	De Watergroep <i>Belgium</i>	901	European Desalination Society - EDS <i>Italy</i>
510	Deltares <i>Netherlands</i>	708	KPMG Global Asset Management Competence Center <i>Belgium</i>	903	Axter SAS <i>France</i>
510	Eijkelkamp <i>Netherlands</i>	708	VITO <i>Belgium</i>	903	Coletanche <i>France</i>
510	Eliquo Water & Energy <i>Netherlands</i>	708	VLAQWA <i>Belgium</i>	905	Parkson <i>USA</i>
510	European Benchmarking Co-operation - EBC <i>Netherlands</i>	709	Dagua Technologies <i>Canada</i>	906	National Water & Sewerage Corporation - NWSC <i>Uganda</i>
510	Holland Water Challenge <i>Netherlands</i>	710	DCM Process Control <i>Australia</i>	908	Africa Pavilion <i>Africa</i>
510	Hydrologic <i>Netherlands</i>	710	S::can Messtechnik <i>Austria</i>	908A	African Water Association - AfWA <i>Ivory Coast</i>
510 / 812	LG Sonic <i>Netherlands</i>	712	Steel Mains <i>Australia</i>	908B	EPAL Luanda <i>Angola</i>
510	MTD Pure Water <i>Netherlands</i>	714	Smart Water Network Pavilion <i>Global</i>	908C	SODECLI <i>Ivory Coast</i>
510	Netherlands Pavilion <i>Netherlands</i>	714	Swan Forum <i>UK</i>	908D	Nairobi City Water & Sewerage <i>Kenya</i>
510	Netherlands Water Partnership - NWP <i>Netherlands</i>	801	International Desalination Association - IDA <i>USA</i>	908E	SOMAGEP <i>Mali</i>
510	Partners for International Business <i>Netherlands</i>	804	Homa Pump Technology Australia P/L <i>Australia</i>	908F	Senegalaise des Eaux - SDE <i>Senegal</i>
510	Springer Nature <i>Netherlands</i>	806	Singer Valve Inc. <i>Canada</i>	908G	Kangen Water <i>Nigeria</i>
510	VEWIN <i>Netherlands</i>	808	Korea Institute of Civil Engineering & Building Technology <i>Korea</i>	918	Global Water Intelligence <i>UK</i>
510	Water Alliance <i>Netherlands</i>	810	GEA Westfalia Separator Australia P/L <i>Australia</i>	920	EWU - Energie-Wasser-Umwelt GmbH <i>Germany</i>
512	Poten Enviro <i>China</i>	812	Memfree - Clear Water Science <i>Australia</i>	922	Public Utilities Regulatory Commission <i>Ghana</i>
513	Watershare <i>Netherlands</i>	812	Emefcy - MABR <i>Australia</i>	923	Georg Schünemann <i>Germany</i>
514	Detection Services <i>Australia</i>	812	Emerging Technology & Innovation Pavilion <i>Global</i>	924	Bürkert Fluid Control Systems <i>Germany</i>
518	Sumitomo Electric Industries <i>Japan</i>	812	Geointeractive <i>Australia</i>	930	Mott MacDonald NZ <i>New Zealand</i>
601	Agru <i>Australia</i>	812	Hydro-dis <i>Australia</i>	931	Taylor + Francis <i>Australia</i>
606	Hitachi Zosen <i>Japan</i>	812	Isle Utilities <i>UK</i>	932	Elsevier <i>UK</i>
610	Arkon Flow Systems <i>Czech Rep.</i>	812	John Holland Water <i>Australia</i>	935	Asian Water <i>Malaysia</i>
614	SFI Valvemax <i>Australia</i>				

WATER EXPERTISE NOW ON TAP

A community of over 400 water experts from across the University's eight faculties, providing a truly interdisciplinary offering to our partners and collaborators around the globe.

Come and visit us at our exhibition booth no. 312 to find out more and to discuss any idea or project you may have.

Connect with us:



UNSW Global Water Institute

Never Stand Still



Exhibitor Profiles

125
3M
Contact: Glenn Baxter
Building A, 1 Rivet Road
North Ryde, NSW 2113, Australia
Phone: 13 61 36
Web address: <http://www.3m.com.au/water>
General Email: gabaxter@mmm.com



3M™ is a leading science-based company that delivers an extensive range of products, technologies, solutions and services to customers in over 200 countries. Operating in various markets, 3M has a prominent presence in industries including health care, safety, abrasives, water and office supplies. The 3M™ ScotchKote™ Pipe Renewal Liner 2400 water solution helps improve water quality and service life in existing portable water pipes. Applied exclusively by 3M authorised applicators, it is a time and cost efficient way to resolve pipe integrity issues while reducing the community impacts of full pipe replacement.

130
3PTECHNIK AUSTRALIA
Contact: Franz Samuel
222 Rouse Street
Port Melbourne, Melbourne Victoria, Australia
Phone: +61 414 456 057
Web address: <http://3psanitation.de/product-sani-solar?lang=au>
General Email: franz.samuel@3ptechnik.com.au



Sani Solar - Sanitary System
The innovative solution for sustainable improvement in public health at rural and remote areas. SANI SOLAR is a complete, autonomous sanitary system designed for single household with up to five persons. It works without water, electrical energy nor chemicals. The sanitation residue is stored, treated and sanitized without need of external disposal service or maintenance. Our mission is to supply the Sani Solar - Sanitary System to each of the 960 Million people across the world that still do not have access to any kind of Sanitation System.

310
ACEVISION(BEIJING) EXHIBITION CO., LTD.
Contact: Lynn Yan
C-1530 Star City, No.10 Jiuxianqiao Road
Beijing, 100016, China
Phone: +86 010-64475223
Web address: <http://www.acevision-expo.com>
General Email: ace8019@acevision-expo.com



Acevision (Beijing) Exhibition Co., Ltd is a professional organizer of international exhibition service. We have been committed to plan, organize and hold international prestigious exhibitions and conferences in recent years, and adhere to the concept that is "Serving Exhibitors as our duty, Building the first brand of the professional exhibition in China". We provide professional service for China's enterprises' overseas market, especially providing comprehensive, professional, and one-stop exhibition service in the field of environment protection and water treatment.

908A
AFRICA WATER ASSOCIATION - AFWA
Contact: Aimé Digbeu
Avenue 8 prolongée à la montée du Pont Houphouët-Boigny
Abidjan, 05 BP 1901, Ivory Coast
Phone: +225 21 24 04 96
Web address: <http://www.afwa-hq.org>
General Email: contact@afwa-hq.org

With a network of more than one hundred Member Utilities over the whole of the African continent, the African Water Association (AFWA) appears as a partner we can't do without for the improvement of the performances of water and sanitation utilities. Through its programs based on the sharing of good practices and training, AFWA participates in the capacity building and contributes to make Utilities more competitive. 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. Its next Congress will be held in Bamako - MALL, in February 2018, with participants from the whole world.

601
AGRU AUSTRALIA PTY LTD
Contact: Caitlin Sutherland
12 Rollings Crescent
Kwinana Beach, WA 6169, Australia
Phone: 1300136698
Web address: <http://www.agru.com.au>
General Email: info@agru.com.au



Agru Australia is a major supplier of high quality plastic products into the Australian market. Products include; Electrofusion and Butt-weld fittings and pipes, Semi-Finished Products, Concrete Protective Liner, Welding Machines. Agru has products available in a range of materials, including PE100, PE100-RC, ECTFE, PP, PPR, PVDF, PPs-el, HDPE-el, PVDF-UH.

320
AIR LIQUIDE AUSTRALIA LIMITED
Contact: Kristen Smith
Level 9, 380 St Kilda Road,
Melbourne, VIC 3004 Australia
Phone: +61 3 9697 9888
Web address: www.airliquide.com.au
General Email:



The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 68,000 employees and serves more than 3 million customers and patients*. Air Liquide assists private and public businesses, municipalities and water utility companies with a range of dedicated, industrial gas solutions for the treatment of water. At Air Liquide Australia we care about the customer's business and their need for efficiency and safety. We provide solutions that make customers' processes safer and more sustainable. Every customer is unique and with our global expertise and local experts, we are able to give customers the individual solutions they need. * Following the acquisition of Airgas on 23 May 2016

305
AITHER
Contact: Will Fargher
Level 2, 45 Exhibition Street
Melbourne, VIC 3000, Australia
Phone: +61 402 336 614
Email: will.fargher@aither.com.au
Website: www.aither.com.au



Aither is Australia's leading water sector advisory firm. We work with businesses, governments and communities to enable decision-making that reflects the value of finite water resources. Aither offers independent analysis, insight and advice on water policy, infrastructure and investment. With a strong team of economists, strategists and water management specialists, we aim to be part of the solution to one of the most pressing global issues of our time: the need for improved water management to ensure sustainable economic and environmental outcomes globally. Aither's team of water economists and policy experts are highly experienced, and have developed and deployed custom-designed water market modelling tools to inform analyses for multiple market stakeholders.

232
ALS
Contact: Bruce Pollard
22 Dalmore Drive
Scoresby, VIC 3179, Australia
Phone: +613 8756 8000
Web address: <http://www.alsglobal.com>
General Email: melbourne@alsglobal.com



ALS is a world leader in the provision of analytical laboratory testing, sampling, asset reliability and integrity services to the global water industry via two business units: ALS Water and ALS Industrial. ALS Water provides sampling and laboratory solutions to all sectors of the water industry from catchment/surface, treatment, waste, desalination, biosolids and drinking water including: Chemical, Microbiological, Pathogenic, Biological and Radiological Analysis. ALS Industrial offers end to end asset management solutions to constructors, manufacturers and assets owners to assist in achieving compliance/specification and maximising asset life and performance through Reliability, Integrity, Mechanical and Materials Engineering, Condition Monitoring and Inspection.

510
AMSTERDAM INTERNATIONAL WATER WEEK
Contact: Annemieke van Zuylen
Bezuidenhoutseweg 2
Den Haag, ZH 2594 AV, Netherlands
Phone: +3170 3043700
Web address: <http://www.internationalwaterweek.com/>
General Email: info@iwwamsterdam.com



Make the connection: come to the Amsterdam International Water Week, 30 October - 3 November 2017! The Amsterdam International Water Week (AIWW) is the platform for new alliances and fresh ideas: connecting industry, science, business, policy and technology. The event crosses borders between water and sanitation, deltatechnology, food, agriculture, finance and governance. Thus bringing together a unique mix of professionals conducive to the transition to a circular economy and resilient cities. The AIWW offers an inspiring combination of events: the AIWW conference, the Aquatech, excursions, the Sarphati Sanitation Awards, an extensive young water professionals programme and inspiring social events.

708
AQUAFLANDERS
Contact: Marc Buysse
Desguinlei 250
Antwerp, 2018, Belgium
Phone: +32 32 92 91 90
Web address: <http://www.aquaflanders.be>
General Email: info@aquaflanders.be

AquaFlanders gathers all Flemish drinking water companies and the water sanitation sector. The organization encourages cooperation between members and gives advices to their members in legislative and operational matters (quantity, quality, climate change, sustainability, improvement of asset management, ...). AquaFlanders delivers also services of common interest to their members, such as benchmarking, the organization of the inspection of sanitary installation and sewerage system in the premises, the distribution of potable water in emergency situations, tariff structure, ... AquaFlanders informs stakeholders concerning the positions of their members in the water business.

214
AQUATEC MAXCON PTY LTD
Contact: Greg Johnson
119 Toongarra Road
Leichhardt, QLD 4305, Australia
Phone: 0738137100
Web address: <http://www.aquatecmaxcon.com.au>
General Email: enquiry@aquatecmaxcon.com.au



Aquatec Maxcon is Australia's leading provider of water and wastewater technology and equipment. It was established in Ipswich, Queensland, in 1970 where it's Head Office and factory are located. It also has offices in Sydney, Melbourne, Adelaide, Townsville, Chinchilla, Thailand (Rayong Province) as well as Indonesia (Jakarta). It is now the only broad based water company in Australia and provides a complete range of in-house services.

510
AQUATECH GLOBAL
Contact: Thijs Jagtenberg
Europaplein
Amsterdam, NH 1070 MS, Netherlands
Phone: +31618845293
Web address: <http://www.aquatechtrade.com>
General Email: t.jagtenberg@rai.nl

ABOUT THE AQUATECH BRAND
• Platform for professionals in the world of water technology
• Inspiring events in Amsterdam, China and Mexico
• Overview of products and services of the world's leading companies
• Latest news on process, drinking & waste water
• AquatechTV with talkshows and interviews

Exhibitor Profiles

701
AQUAVEO
Contact: Alan Zundel
3210 N Canyon Rd Ste 300
Provo, UT 84604, United States
Phone: 01 801 691 5528
Web address: <http://www.aquaveo.com>
General Email: info@aquaveo.com



Aquaveo is a water resources engineering consulting firm that's been developing state of the art environmental modeling software since 1991. Aquaveo products include the Groundwater Modeling System (GMS), the Surface-water Modeling System (SMS), the Watershed Modeling System (WMS), and the Arc Hydro Groundwater Toolkit for ESRI's ArcGIS. Aquaveo products are used by thousands of consulting firms, universities, and government agencies in more than 100 countries. Aquaveo provides support and consulting services in the fields of water resources engineering, hydraulics, and hydrologic engineering.

408
ARCADIS
Contact: Lauren Cavender
Gustav Mahlerplein 97-103 Arcadis Symphony
Amsterdam, NH 1082, Netherlands
Phone: +31 (0) 20 2011 011
Web address: <http://www.arcadis.com>
General Email: water@arcadis.com

Arcadis is the leading global Design & Consultancy firm for natural and built assets. Applying our deep market sector insights and collective design, consultancy, engineering, project and management services we work in partnership with our clients to deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. We are 27,000 people active in over 70 countries that generate €3.4 billion in revenues. We support UN-Habitat with knowledge and expertise to improve the quality of life in rapidly growing cities around the world. Arcadis. Improving quality of life.

610
ARKON FLOW SYSTEMS, S.R.O.
Contact: Sarka David Ticha
Novackova 11
Brno, 61400, Czech Republic
Phone: +420543214822
Web address: <http://www.arkon.co.uk>
General Email: office@arkon.co.uk



Arkon is a manufacturer of electromagnetic flowmeters, offering a wide range of products for flow control and measurement, including ultrasonic level and open channel flowmeters and flow indicators. The products are incorporated with smart customizable communication modules such as GPRS, SMS, TCP/IP, BLUETOOTH, USB, RS232, RS485 Our products are used in over 20 countries, with applications such as Water Treatment & Distribution, Waste Water Management, Irrigation, Mining & Chemical Industry as well as projects where efficiency and accuracy coupled with smart technology matters the most.

124
ARMATEC ENVIRONMENTAL LTD
Contact: Shane Pope
Suite A, 11 Enterprise St Birkenhead
Auckland, NZ 0628, New Zealand
Phone: +64211399279
Web address: <http://www.armatec.co.nz>
General Email: enquiries@armatec.co.nz



Designers, manufacturers and suppliers of world-class industrial fibreglass (FRP/GRP) products and odour pollution & corrosion control solutions. We provide cost effective and innovative solutions to the most difficult of challenges. We provide full service complimentary pre-assessment, supply & installation, warranties, follow up inspections and repairs and professional assistance. Our unique combination of strong, trusted solutions & leading edge technologies, international networks & in-house design, pilot plant testing, our team of skilled,



GEA Separation Technology



Keeps you up and running

The WaterMaster decanter centrifuges from GEA - for all your sludge dewatering and thickening needs. The CF generation machines maximise your cake solids and separation efficiency with minimal environmental and maintenance effort. Combined with our GEA IO control technology, we keep you up and running.

Phone: 03 8877 9999 | Email: sales.au@gea.com

gea.com

GEA-RC-ET-FO08

Exhibitor Profiles

935

ASIAN WATER MAGAZINE

Contact: Ridhuan Zahri
Section 16, Phileo Damansara
Petaling Jaya, 47350, Malaysia
Phone: 603 7960 1148
Web address: <http://www.shpmedia.com> <http://www.asianwater.com.my>
General Email: ridhuan@shpmedia.com / ridhuanzahri@gmail.com

Asian Water is an unbeatable source of the very information that Asia's water professionals are keen to read about. It covers the spectrum of information from regional news to country focuses, technology updates, product information, case studies, market trends and coverage of exhibitions and conferences. Regular features on special products such as pumps, valves, pipes, water treatment equipment, software and others make sure that advertisers and readers get maximum benefit. Understanding both the publishing and the water industries, Asian Water delivers news, data, and analysis to enable you to make well-informed decisions. Thousands of key decision makers rely on these articles to keep them on the leading edge of critical industry developments.

212

AUSTRALIAN TRADE AND INVESTMENT COMMISSION (AUSTRADE)

Contact: Leigh Wilcott
Level 3, 60 Collins St
Melbourne, VIC 3000, Australia
Phone: +61 3 9648 3111
Web address: <http://www.austrade.gov.au>
General Email: info@austrade.gov.au

The Australian Trade and Investment Commission (Austrade) contributes to Australia's economic prosperity by helping Australian businesses, education institutions, tourism operators, governments and citizens:

- develop international markets and promote international education
- win foreign direct investment
- strengthen Australia's tourism industry
- seek consular and passport services.

Austrade delivers market information and insight, promote Australian capabilities, develop policy, making connections through an extensive global network of contacts, leveraging the badge of government offshore and providing quality advice and services. Austrade's role is to advance Australia's international trade and education, investment, and tourism interests by providing information, advice and services." For eligible Australian enterprises please contact Austrade for our services and global water opportunities: Email water@austrade.gov.au or phone 13 28 78.

305

AUSTRALIAN UAV PTY LTD

Contact: James Rennie
118 Bay Rd
Sandringham, VIC 3191, Australia
Phone: 1300 738 521
Web address: www.auav.com.au
General Email: contact@auav.com.au

Australian UAV was established in 2013 to provide high quality unmanned survey, inspection and mapping services throughout the Asia Pacific region. With eight office locations and headquartered in Victoria the company now services clients throughout Australia and overseas. Now, with considerable demonstrated experience in the water sector, the company is striving to revolutionise data capture and asset management by reducing costs and increasing safety. In a growing industry Australian UAV is leading the field in innovation, delivery and customer support.

325

AUSTRALIAN WATER ASSOCIATION

Contact: Shona Gawel
Level 6, 655 Pacific Highway
St Leonards, NSW 2065, Australia
Phone: +61 2 9436 0055
Web address: <https://www.awa.asn.au/>
General Email: info@awa.asn.au

The Australian Water Association is Australia's peak national water organisation, delivering information, expertise and collaboration for sustainable water management. Membership is made up of professionals and practitioners working in utilities, science and research, energy and resources, manufacturing and agriculture; and includes both the water sector (government owned water utilities, water departments and policy experts) and the private sector (privately owned water utilities, contractors, consultants, and suppliers). We have an active branch network across all Australian States and Territories and maintain extensive international links, including with the International Water Association.

210

AUSTRALIAN WATER PARTNERSHIP

Contact: Prof. Gary Jones
UC Innovation Centre (Bldg 22), University Drive Sth
Canberra, ACT 2601, Australia
Phone: +612 6201 5167
Web address: www.waterpartnership.org.au
General Email: contact@waterpartnership.org.au

Australia – water partners for development is a cooperative represented by the Department of Foreign Affairs and Trade, the Department of Agriculture and Water Resources, the Bureau of Meteorology, the Murray-Darling Basin Authority, the Commonwealth Science and Industrial Research Organisation, and the Australian Water Partnership (representing 83 organisations from the Australian public and private water sector). Our core development goal is to support sustainable and equitable management of water resources in the Asia-Pacific, and to provide a gateway to Australian expertise and technology to improve water security, livelihoods and economic well-being throughout the region. Our exhibition will highlight the work and achievements of government departments involved in water policy-making, planning and operations. It will showcase underpinning information, tools and services developed by key knowledge providers, which provide a reliable picture of Australia's water resources and evidence to inform policies and strategies for effective water resource management. For more information, visit www.waterpartnership.org.au/ event/wvwc

119

AUSTRALIAN WATER QUALITY CENTRE

Contact: Lorraine Bulbeck
250 Victoria Square
Adelaide, SA 5000, Australia
Phone: 1300653366
Web address: <http://www.awqc.com.au>
General Email: awqc@sawater.com.au

The AWQC provides high quality analytical services, leading edge research and professional advice for a range of water quality issues.

216F

AUSTRALIAN WATER RECYCLING CENTRE OF EXCELLENCE

Contact: Don Begbie
Level 15, 340 Adelaide Street
Brisbane, Qld 4000, Australia
Phone: +61 409 125 296
Web address: <http://www.australianwaterrecycling.com.au>
General Email: don.begbie@australianwaterrecycling.com.au

The Australian Water Recycling Centre of Excellence is a national research organisation aiming to enhance the efficiency, expansion and acceptance of water recycling in Australia through industry, government and research partnerships. The Centre has invested in a portfolio of industry-relevant research projects across the full water recycling spectrum, developed practical solutions to secure Australia's future water supply, and built awareness and understanding in the community about this precious resource. The Centre worked with key stakeholders to maximise benefits of urban water research nationally. The Centre was funded through the Commonwealth Government's National Urban Water and Desalination Plan.

505

AVK HOLDING

Contact: Michael Ramlau-Hansen
Sondergarde 33
Galten, 8464, Denmark
Phone: +45 8754 2100
Web address: <http://www.avkvalves.com>
General Email: sales@avk.dk

The AVK Group is among the world leaders within production of valves, hydrants and accessories for water and gas distribution network, waste water treatment and fire protection. The AVK Group profits from years of manufacturing experience combined with an in-depth knowledge of market needs around the world. The AVK Group is privately owned and employs approximately 3,300 people in more than 77 international companies, that all think globally, but act with individualized designs and system solutions for the local markets. The global network and the local commitment permits close cooperation with our customers ensuring a high level of service.

405

BEIJING SCINOR WATER TECHNOLOGY CO., LTD.

Contact: Fan Li
F8, Xueyuan Internation Tower, 1 Zhichun Road Haidian District
Beijing, 100083, China
Phone: +86 1851 0291 058
Web address: <http://www.scinorwater.com/>
General Email: fan.li@scinorwater.com

SCINOR is an integrated corporation based in china. Covering the full spectrum of water treatment including membrane R&D and sales, EPC projects and system optimization/operations. Our market experience includes industrial water treatment and reuse, municipal water supply, advanced sewage treatment and reuse, brackish water and seawater desalination, and zero liquid discharge.

510

BERSON UV

Contact: Paul Buijs
De Huufkes 23
Nuenen, 5674 TL, Netherlands
Phone: +31 40 290 7777
Web address: <http://www.bersonuv.com>
General Email: sales@bersonuv.com

Berson UV (Aquionics in the US) is a globally operating designer and manufacturer of UV systems for disinfection and oxidation for drinking water, waste water and re-use. Our systems hold international validations (DVGW, USEPA, NWRI, JWRC). We have a global network of sales and service partners that serve our customers locally.

505

BIC ELECTRIC

Contact: Lucja Kalstein
Springbankevej 14
Give, 7323, Denmark
Phone: +4521772510
Web address: <http://www.bic-electric.com>
General Email: mail@bic-electric.com

BIC Electric is an international technical services provider within mechanical and electrical installation and commissioning of industrial automation systems. Our staff is flexible and we can mobilize teams for our client's needs anywhere in the world at a competitive rate. Regardless of location, we comply with all local labor market regulations, safety requirements, and registrations as well as minimum salary rates. BIC Electric are certified according to the quality, environmental and occupational health and safety standards:
- ISO 9001
- ISO 14001
- OHSAS 18001
We employ
- Electricians
- Mechanics
- Smiths
- Welders
- Electrical engineers

Exhibitor Profiles

120

BIOACTION PTY LTD

Contact: Geoff Crook
12 Mildon Road
Tuggerah, NSW 2259, Australia
Phone: +612 4353 4822
Web address: <http://www.bioaction.com.au>
General Email: enquiries@bioaction.com.au

Bioaction designs and manufactures air and liquid phase odour control systems for the water and wastewater industries as well as manufacturing and food production industries. Technologies that are used include Biological and Biotrickling filters, activated carbon filters, catalytic iron oxidising filters, chemical dosing systems and others. Bioaction consult to the utility, municipal and industrial markets regarding many types of air filtration requirements including EPA compliance issues and requirements for development applications. Bioaction manufacture in GRP, HDPE and Stainless Steel to suit the specific requirements of the task and do so to international standards.

417

BIOPROCESS CONTROL SWEDEN AB

Contact: Jing Liu
Scheelevägen 22
Lund, Skåne 223 63, Sweden
Phone: +4646163951
Web address: <http://www.bioprocesscontrol.com>
General Email: info@bioprocesscontrol.com

Bioprocess Control is a technology and market leader in the area of advanced instrumentation and control technologies for research and commercial applications in the biogas industry. The company was founded in 2006, and brings to market more than 15 years of industry leading research in the area of instrumentation, control and automation of anaerobic digestion processes. Today Bioprocess Control has product exports to more than 50 countries. Bioprocess Control's product portfolio offers both the academic and industrial actors not only from the biogas industry but also from the Anammox field exciting products for gas flow measurement for bacterial activity determination.

201B

BRISBANE CITY

Contact: Natural Environment and Sustainability Branch,
Brisbane City Council
Level 7, 266 George St.
Brisbane, 4000, Australia
Phone: +617 3403 8888
Web address: <https://www.brisbane.qld.gov.au/>
General Email: news-contact@brisbane.qld.gov.au

Brisbane is home to more than one million people and is renowned for its riverside location, distinctive subtropical climate and friendly relaxed lifestyle – all of which attract businesses, workers and tourists from across the world. Brisbane City Council aims to:

- enhance the quality of life for the people of Brisbane
- build vibrant communities
- improve the quality and value of services to support the sustainable economic growth
- improve the city's infrastructure to protect and enhance the natural and built environment.

Today, Brisbane City Council is the largest local government in Australia, both in population and budget.

501

BUREAU OF SEWERAGE TOKYO METROPOLITAN GOVERNMENT

Contact: Yasuhiro Yoshioka
2-8-1 Nishishinjuku, Shinjuku
Tokyo, 163-8001, Japan
Phone: +81-3-5320-6641
Web address: <http://www.gesui.metro.tokyo.jp/english/english.htm>
General Email: S4000008@section.metro.tokyo.jp

Responsible for basic functions of the sewer system, i.e. sewage treatment, flood control through removal of rainwater, quality maintenance of public waters. In addition, based on the Management Plan 2016, the following initiatives are promoted:

- Implementation of reconstruction of facilities, flood control, earthquake measures and other policies that help the residents of Tokyo feel safe and secure
- Combined sewer system improvement, advanced treatment, global warming measures, and other measures that contribute to the realization of a city with a good water environment and low environmental impact
- Stable provision of best services at minimum cost

501

BUREAU OF WATERWORKS TOKYO METROPOLITAN GOVERNMENT

Contact: Eriko Tsujikawa
8-1, Nishi-Shinjuku 2-chome
Tokyo, 163-8001, Japan
Phone: +81-3-5320-6336
Web address: <http://www.waterprofessionals.metro.tokyo.jp/index.html>
General Email: international_affairs@waterworks.metro.tokyo.jp

Tokyo Waterworks supplies water to about 13 million Tokyo citizens and its scale and quality of operations are one of the greatest in the world. Our advantages are as below;

- 1 World's lowest leakage rate (About 3%)
- 2 Pursuit of safety and security -Drinking water directly from tap
- 3 daily stable supply -Around the clock control
- 4 Long -term perspective management -Financial basis for stable management

We ensure a stable supply of clean water and support residents of Tokyo and all urban functions. Besides we cooperate with overseas utilities through these advantages.

924

BÜRKERT FLUID CONTROL SYSTEMS

Contact: Andreas Ulspurger
Christian-Bürkert-Str. 13-17
Ingelfingen, Baden-Württemberg 74653, Germany
Phone: +49 7940 10 0
Web address: <http://www.burkert.com>
General Email: info@burkert.com

Bürkert is one of the world's leading manufacturers of process measuring and control systems for fluids in a wide range of industries and applications. With a portfolio of more than 30,000 products, Bürkert is the only supplier to offer all fluid control system components. In five Systemhaus locations as well as four research centres, Bürkert continuously develops customised solutions and innovative products. One of these is the Online Analysis System type 8905. The innovative analysis device is intended for use in waterworks and is specifically designed for the continuous monitoring and storage of the most important water parameters.

128

CALIX

Contact: Audrey Barucchi
9 Bridge Street
Pymble, NSW 2073, Australia
Phone: 0406683018
Web address: <http://www.calix.com.au>
General Email: info@calix.com.au

Creating new materials, solving global challenges. Calix is a multi-award-winning Australia technology company that is developing new processes and materials to solve global challenges. Calix is using these minerals, which are safe and environmentally friendly, to improve waste water treatment and phosphate removal and help protect sewer assets from corrosion. ROTECTA-Mag™ is a concentrated, controlled viscosity, stabilised suspension of magnesium hydroxide liquid (MHL), providing an enduring high pH surface coating for concrete sewer infrastructure, and preventing corrosion of man holes, wet wells, parts of STPs and large diameter sewer pipes.

432

CANADIAN NATIONAL COMMITTEE

Contact: Robert Haller
1010 Polytek Street Unit 11
Ottawa, K0E1T0, Canada
Phone: 6137470524
Web address: <http://www.cwnw.ca>

Toronto in 2022
The Canadian National Committee would like to be your host for the World Water Congress & Exhibition. We propose Toronto, Ontario Canada as the site for the Congress in 2022 and we think we have a lot to offer! Toronto is also a world leader in water research and innovation and Toronto is a vibrant, world-class city with direct flights from almost anywhere. We have the conference facilities and hotels to host the IWA in one of the safest cities in the world. We thank you for the consideration to host the water world in Toronto in 2022.

218

CARDNO

Contact: Sharyn Bow
Level 11, Green Square North Tower, 515 St Paul's Terrace
Fortitude Valley, QLD 4006, Australia
Phone: +61733699822
Web address: <http://www.cardno.com.au>
General Email: cardnoasiapacific@cardno.com

Cardno is a professional infrastructure and environmental services firm, recognised for its comprehensive skills in all aspects of water engineering and water cycle management. Cardno's staff are passionate, trustworthy partners who work with clients and stakeholders to deliver social and environmentally responsible solutions using world class scientific, engineering, economics and management practices. From our beginnings here in Brisbane in 1945, Cardno has grown to work across Australia and in over 90 locations across the globe assisting utilities, governments, contractors and private operators to effectively plan, design and manage water resources and water infrastructure for the benefit of local communities.

229

CHALLENGER VALVES & I

Contact: Ben Dixon
3 Glenn St
Shepparton, VIC 3630, Australia
Phone: 03 5822 1533
Web address:
General Email: sales@challengervalves.com.au

Challenger Valves is a leading manufacturer, supplier and distributor of valving and actuation, providing products and solutions to water, power, mining, irrigation and general industries. We stock a wide range of products in various materials including ductile iron, stainless steel, brass and PVC to handle a wide range of industrial applications. Challenger Valves are now the authorised representatives for Cla-Val automatic Control Valves and for HKC Automation products including a world-leading range of pressure reducing, pressure sustaining and relief, altitude and tank filling valves, and pneumatic and electric actuation products.

319

CITYSMART

Contact: Troy McGrath
5/79 Adelaide St
Brisbane, 4000, Australia
Phone: +61 7 3007 7000
Web address: <http://www.citysmart.com.au>
General Email: troy.mcgrath@citysmart.com.au

CitySmart is a social enterprise collaborating with community, industry and government to drive sustainability outcomes for cities and regions. We help all levels of government and industry with their sustainability policies and strategies, and we specialise in digital customer engagement on low interest topics like energy, water and waste to influence behaviour change.

Our successful approach demonstrates that sustainability can provide significant economic opportunities while reducing our impact on the environment. CitySmart's four core functions are: the design and delivery of behaviour change programs, the delivery of commercial (business focused) projects, corporate partnerships, and community events.

305

CLEAN TEQ LIMITED

Contact: Peter Voigt
12/21 Howleys Road
Notting Hill, VIC 3168, Australia
Phone: +61 3 9797 6703
Web address: www.cleanteq.com
General email: pvoigt@cleanteq.com

Clean TeQ's unique Continuous Ionic Filtration and Exchange (CIF®) technology provides the basis for sustainable solutions for water and wastewater treatment and resource recovery. Designed to maximise water recovery, minimise by-product volume and extract value, the technology has many applications as a standalone process or in combination with membrane technology in applications where membranes struggle to operate cost effectively. CIF® technology treats "difficult waters" i.e. containing suspended solids, scaling and fouling components such as calcium, magnesium and carbonate, COD, organics, sulphate, metals, ammonia, nitrate, phosphate and oxyanions.

Exhibitor Profiles

903

COLETANCHE AXTER

Contact: Rob McIlwraith
Level 13, 50 Cavill Avenue
Gold Coast, QLD 4217, Australia
Phone: +61 7 476 724
Web address: <http://www.coletanche.com>
General Email: info@axter.com.au

AXTER is a leading European manufacturer of bituminous geomembrane. AXTER designs, manufactures and sells the geomembrane COLETANCHE issued from the combination of non-woven geotextile reinforcement and a bituminous waterproof binder providing resistance to tearing and mechanical impact as well as very good dimensional stability. As an industrial partner to engineers and consultants in Europe and all over the world, AXTER offers a high quality, effective service. AXTER has exported its products for more than thirty years and 40% of its commercial activity comes from sales to over 50 countries in all continents.

305

COMPLYSURE INTERNATIONAL PTY LTD

Contact: Stephen Jenkins
30 Kees Road
Lara, Victoria 3212, Australia
Phone: 1300 784 478 +61 3 5282 3773
Web address: www.complysure.com.au
General email: sjenkins@complysure.com.au or info@envirorisk.com.au

ComplySure is a cloud based 'app' that simplifies water industry compliance task management. The platform has been developed by Australian based potable and recycled water scientists who are also lead environmental auditors. Accordingly ComplySure intuitively functions to facilitate 'proof of compliance' for both internal and third party requirements. ComplySure is particularly suited to safety, health and

environment professionals, risk managers, quality and facilities personnel, whose responsibility is to regularly monitor and report on compliance. Information is securely accessed over the web by authorised people only. The simple to use design will save you time, expense and effort against the current paper based compliance task assessment processes.

505

CONFEDERATION OF DANISH INDUSTRY

Contact: Jens Holst-Nielsen
H.C. Andersens Boulevard 18
Copenhagen, 1787, Denmark
Phone: +45 20 60 69 86
Web address: <http://www.di.dk>
General Email: di@di.dk

Confederation of Danish Industry (DI) is a private organisation funded, owned and managed entirely by 10,000 companies within manufacturing, trade and service industry.

DI's aim is to ensure the best possible conditions for its members to conduct business, inside Denmark as well as globally. DI's main tasks include policy advocacy at national and international level, membership services including collective bargaining and a strong set of international services.

A significant share of DI's member companies are specialized within the field of water technology. It would be our pleasure to connect you to some of them.

216A

COOPERATIVE RESEARCH CENTRE FOR WATER SENSITIVE CITIES

Contact: Fiona Chandler
Level 1, 8 Scenic Boulevard, Monash University
Clayton, VIC 3800, Australia
Phone: +61 (03) 9902 4985
Web address: <http://www.watersensitivecities.org.au>
General Email: admin@crwcsc.org.au

The Cooperative Research Centre for Water Sensitive Cities is an Australian-based centre that brings together many disciplines, and world-renowned experts, to revolutionise urban water management in Australia and overseas.

It was established to change the way cities are designed, built and managed by valuing the contribution water makes to economic development, quality of life, and ecosystems of which cities are a part.

We work with more than 80 partners across Australia and the world, including seven national and international universities and research organisations to generate knowledge, and on-ground solutions required to transform cities into liveable, resilient, sustainable, and productive places.

709

DAGUA TECHNOLOGIES INC.

Contact: Robert Kalinowicz
730 - 1010 Ste Catherine St. W.
Montreal, Quebec H3B5L1, Canada
Phone: 514-969-5531
Web address: <http://www.dagua.com>
General Email: rkalinowicz@dagua.com

Dagua is a Canadian potable water technology company. Dagua's treatment technology is an innovative, patented treatment process utilizing a combination of ozonation and ultrafiltration membrane processes for effective, chemical-free water purification and disinfection. Drinking water is produced from groundwater or polluted surface waters according to stringent quality standards, with a reject water stream that can be reintroduced to the environment without additional treatment.

The technology is scalable with designs for portable systems to treat as little as 100m³/d up to full municipal systems of 500,000 m³/d.

Exhibitor Profiles

505

DANISH WATER FORUM

Contact: Lisbeth Flindt Jørgensen
Agern Allé 5
Hørsholm, 2970, Denmark
Phone: +45 9133 3620
Web address: <http://www.danishwaterforum.dk>
General Email: dwf@danishwaterforum.dk

Danish Water Forum is a network of Danish water organisations aimed at highlighting expertise and knowledge, and facilitating concerted actions. The competences and high standards of its members make Danish Water Forum an excellent entry point to the Danish water sector within virtually all aspects of water industry, technology, science and management. Danish Water Forum represents contractors and manufacturers, water companies and consultants, research institutions, governmental authorities, and NGOs. This unique blend provides integrated knowledge about all aspects of the entire water sector, including issues relating to environment, agriculture, and health.

505

DANISH WATER TECHNOLOGY GROUP

Contact: Ilse Korsvang
Lysbrohøjen 24
Silkeborg, DK-8600, Denmark
Phone: +45 5089 4488
Web address: <http://www.dk-water.com>
General Email: ilse.korsvang@dk-export.dk

DWTG gathers Danish suppliers from all facets of the industry, be it ground water, drinking water, process water, wastewater, urban water issues etc. DWTG is part of Danish Export Association, representing more than 560+ Danish companies. DWTG is owned by its 65+ members, who supply components, equipment, systems and services to public and private actors in the water sector.

Water technology is one of Denmark's key competencies. Already in the 1970's, Denmark had the world's first environmental Ministry, which imposed strict environmental legislation. This has given Danish suppliers an edge when it comes to innovation, sustainability and holistic, energy solutions.

708

DE WATERGROEP

Contact: Boudewijn Van De Steene
Vooruitgangstraat 189
Brussels, 1030, Belgium
Phone: +32 22 38 94 11
Web address: <http://www.dewatergroep.be>
General Email: info@dewatergroep.be

De Watergroep is the largest water company in Flanders (Belgium). We are an autonomous Flemish water company offering products and services for the complete water chain. We deliver drinking water to 3 million customers in 175 towns via a network of 32,500 kilometres of pipelines. Our total water production amounted to 126 million m³ of water in 2015. In addition, we apply a sustainable recycling approach for an economically and ecologically sound management of all links in the water chain: rainwater, ground and surface water, drinking water, process water and wastewater. We make water with a custom-made service. Today, for tomorrow's generation.

510

DELTAES, PART OF THE NETHERLANDS-AUSTRALIA COALITION ON CLIMATE EXTREMES

Contact: Simone van Schijndel
Boussinesqweg 1
Delft, ZH 2629 HD, Netherlands
Phone: +31628953543
Web address: <http://www.deltares.nl>
General Email: info@deltares.nl

Deltaes is an independent institute for applied research in the field of water and subsurface. Throughout the world, we work on smart solutions, innovations and applications for people, environment and society. Our main focus is on deltas, coastal regions and river basins. Managing these densely populated and vulnerable areas is complex, which is why we work closely with governments, businesses, other research institutes and universities at home and abroad. We believe in openness and transparency, as is evident from the free availability of our software and models. Deltaes is based in the Netherlands.

305

DEPARTMENT OF ENVIRONMENT, LAND, WATER AND PLANNING

Contact: Suzanne Knight
8 Nicholson Street
East Melbourne, VIC 3002, Australia
Phone: +61 3 9637 9453
Web address: <http://www.delwp.vic.gov.au>
General Email: delwp.vic.gov.au/about-us/contact-us

The Victorian Government's Department of Environment, Land, Water and Planning creates liveable, inclusive and sustainable communities that support jobs and growth in Victoria, Australia. We recognise the link between the built and natural environment in the quality of our lives, and work to accommodate population growth while maintaining world class liveability and protecting our heritage for future generations.

514

DETECTION SERVICES

Contact: Steve Simmons
15 / 276 New Line Rd
Dural, NSW 2158, Australia
Phone: +61 431 893 273
Web address: <http://www.detectionservices.com.au>
General Email: steve@detectionservices.com.au

Detection Services specialises in water industry related services employing over 75 staff across 9 offices. Specialising pipeline condition assessment, Non-Revenue Water, leak detection, trunk main leak detection, mains flushing, biofilm analysis, pipe inspections, MFL pipe scanning, valve management, pressure management, transient monitoring, condition monitoring, pressure and flow logging, NDT testing and ROV Reservoir inspections. Proprietary Technologies: p-CAT™ g-CAT™ v-CAT™ a-CAT™ iSCAN® smart-CAT™ inSIGHT™

305

EARTH SYSTEMS

Contact: Nigel Murphy
14 Church Street
Hawthorn 3122, Australia
Phone: +61 3 9810 7500
Web address: www.earthsystems.com.au
General email: enviro@earthsystems.com.au

Earth Systems is a multidisciplinary environmental and social science and engineering firm which develops and implements innovative and effective environment, water and sustainability solutions throughout the world. Established in 1993, we have successfully completed over 500 major projects in Australia, Asia, Africa, South America, North America and the Pacific. Earth Systems provides high quality services and solutions in the areas of environmental and social impact assessment, water management and treatment, ecology, energy efficiency, carbon accounting, community consultation and development. Our research and development capabilities help to ensure that we are leaders in finding new and more sustainable solutions to complex environmental problems.

510

EBC FOUNDATION (EUROPEAN BENCHMARKING COOPERATION)

Contact: Peter Dane
Koninginnegracht 19
The Hague, ZH 2514 AB, Netherlands
Phone: +31702057830
Web address: <http://www.waterbenchmark.org>
General Email: info@waterbenchmark.org

EBC Foundation (European Benchmarking Cooperation) offers a benchmarking- and improvement programme for water- and wastewater utilities. The Foundation is governed by stakeholders from the water sector (DANVA, DWP, EurEau, Norsk Vann, Vewin). Since 2007, EBC organises annual benchmarking exercises for utilities in Western Europe and beyond. In close collaboration with national water utility associations, EBC also facilitates national- and regional benchmarking programmes like in the Danube region. EBC welcomes visitors at its meeting point in the Dutch country pavilion at the IWA World Water Exhibition.

901

EDS - EUROPEAN DESALINATION SOCIETY

Via Alvaro del Portillo 21
Rome, 00128, Italy
Phone: +39 348 88 48 406
Web address: <http://www.edsoc.com>
General Email: balabanmiriam@gmail.com

EDS is a Europe-wide organization for individual and corporate members including universities, companies, research institutes, government agencies and all concerned with and interested in desalination and membrane technologies for water. It is a society uniting all interested in promoting desalination, water reuse and water technology. All processes are covered and the wide range of roles and activities involved in the desalination field are included: research, applications, consulting, contracting, operation and maintenance, manufacturing, marketing, economics, legislation. Members are welcome from other regions outside Europe.

510

EIJKELKAMP SOIL & WATER

Contact: Barry Leuwerman
Nijverheidsstraat 30
Giesbeek, Gelderland 6987 EM, Netherlands
Phone: +31 313880200
Web address: <http://www.eijkelkamp.com>
General Email: info@eijkelkamp.com

Eijkelkamp Soil & Water makes a difference worldwide by developing, producing and delivering solutions for soil and water projects.

We are worldwide involved in projects within the themes Land Degradation, Food Safety, Urbanisation, Pollution, Land Development and Natural Resources.

The Eijkelkamp Smart Sensing concept places you at the centre. Based on your needs, we provide the implementation and functionality for an online environment that enables you to manage your soil and water data. It enables you to effectively and efficiently monitor, visualise and manage quantitative and qualitative data regarding groundwater, surface water, process water, precipitation, flow volume, soil moisture, etc.

510

ELIQUO WATER & ENERGY BV

Contact: Marjolijn de Jong
Anthonie Fokkerstraat 21
Barneveld, Gelderland 3772 MP, Netherlands
Phone: +31 342 744100
Web address: <http://www.eliquo-we.com>
General Email: info@eliquo-we.com

ELIQUO WATER & ENERGY BV is specialized in the design and installation of multi-technology processes for energy self-sufficient treatment of sewage whilst realising maximum recovery of valuable nutrients.

- Focus on integrated sludge-energy-nutrients solutions.
- Internationally active in selected countries/regions such as Netherlands, UK, Australia, Denmark and Vietnam.
- Turn-key contracting & technology packages, EPC contracts.

932

ELSEVIER

Contact: Melanie Thomson
Langford Lane, Kidlington
OXFORD, OXFORD OX51GB, United Kingdom
Phone: +44 1865 843827
Web address: <http://www.elsevier.com>
General Email: m.thomson@elsevier.com

Elsevier is proud to partner with the IWA on the highest impact water resources journal* Water Research, as well as our recently launched journals:
•Sustainability of Water Quality and Ecology
•Water Resources and Economics
•Water Resources and Industry
•Water Resources and Rural Development

Elsevier journals publish 25% of citeable articles and receive 43% of the total citations in the water resources category, with 6 journals ranked in the top 10*. Visit us at booth #932 to find out more about how we strive to support our journal authors, reviewers and editors.

*Thomson Reuters 2015 Science Citation Report®, Water Resources category

QWi
WATER IS OUR CONCERN

GWI is the market-leading publication for developers, suppliers, financiers, Governments, utilities and municipalities seeking information and analysis on water projects with an element of private sector participation.

GWI is a magazine that not only provides reliable information that is relevant to my business every month, but is one that also encourages the industry to confront some of the hard issues through thought-provoking analysis.

PADDY PADMANATHAN, ACWA POWER

To subscribe, or receive a Free Trial, contact Giorgio Cadiz:
gc@globalwaterintel.com +44 (0) 1865 204 208

www.globalwaterintel.com @WaterIntel

Exhibitor Profiles

812

EMEFCY

Contact: Ronen Shechtern
7 Ha'eshel st,
Caesarea Industrial Park
P.O. Box 3171, 30889
Israel
Phone: +972-4-6277555
Web address: <http://www.emefcy.com>
General Email: info@emefcy.com

Emefcy was founded in 2007. The systems developed by Emefcy produce electricity directly from the treatment of different types of wastewater. This conversion is made possible by use of microbial fuel cell (MFC) technology. Emefcy's Electrogenic Bioreactor (EBR) revolutionizes the economics of wastewater treatment by generating power instead of consuming power, utilizing electrogenic bacteria to produce electricity from wastewater while treating the wastewater. Conventional wastewater treatment uses 2% of the global power (80,000 MW and 57,000,000 ton per year of CO₂), amounting to \$40B/year. Rather than using energy to treat wastewater, Emefcy harvests renewable energy directly from the wastewater and feeds it to the grid.

9088

EMPRESA PÚBLICA DE ÁGUAS, EPAL-E.P.

Contact: Serafim Suco Xabanda
Rua Frieddrich Engels, number 3
Luanda, 1387, Angola
Phone: +24 22 233 5001
Web address: <http://www.epal.gv.ao>
General Email: Carlot.paihama@epal.gv.ao

EPAL-E.P. is a public interest company, born in 2001, endowed with legal personality and autonomy of administrative, financial and patrimonial management, which has about 1800 employees. The social object of EPAL-E.P. consists of carrying out studies, projects and maintenance of collection, production, supply, distribution and sale of drinking water. EPAL's management team guides its decisions and policies to a public management increasingly efficient and effective, aiming at protecting public interest and improving the management practices at the service of the State and Angolan Citizens. Provide a service always of the highest quality, for the benefit of our customers; provide the public service of water supply, promote the development of national capacities and competences in the field of water supply.

9086

ENAGIC KANGEN WATER NIGERIA

Contact: Akwamkam Mashang Emmanuel
Pox box 4699 Garki Abuja
FCT Abuja Abuja, Nigeria
Phone: +2349035323608
Web address: <http://www.kangenwaternigeria.com>
General Email: kangenw4real@gmail.com

The Kangen Alkaline ionized electrolyzing system is a licensed Medical Device in Japan used in more than 200 Hospitals and Clinics for the past 40 years. It has A gold Seal certification from WQA in the America. It produces five types of electrolysis ionized alkaline ranging from 2.5 Ph Strong Acid Electrolyzed Oxidizing) which kills germs on contact up to 11.5PH strong Kangen Alkaline water, which emulsifies grease and oil.

Kangen Water Ionizers renowned for their high quality Alkaline drinking water ranging from 8.5 Ph to 9.5ph to help balance dietary Ph consumption, and which is high in minerals and antioxidant. Water is life but quality water is health. Not all water is created equal. Let's make sure every drop of water we drink is pure and healthy. If you want to change your water, kindly contact me Marshal on +2348059313069/9097649399

705

ENVIROSUITE

Contact: Alex Cheal
1/146 Arthur St,
North Sydney, NSW 2060, Australia
Phone: +61 2 9870 0900
Web address: <http://www.envirosuite.com>
General Email: enquiries@envirosuite.com

EnviroSuite is an integrated, on-line system for displaying and analysing real-time, historical and predictive environmental data. It connects to existing or bespoke

monitoring systems, and has embedded models and analytics that allow complex functions to be done simply and routinely. EnviroSuite is a cloud-based SaaS system with high data security that improves efficiency and saves money.

620

EVERYTHINGABOUTWATER

Contact: Kaushtubh Asthana
A1/152 IGNOU Road, Neb Sarai
New Delhi, 110068, India
Phone: +919650059996
Web address: <http://www.eawater.com>
General Email: enquiry@eawater.com

EverythingAboutWater is a leading monthly print & e-magazine (www.eawater.com/eMagazine) on global water sector. It reaches 29,081 active, influential, and engaged readers, who have the discretionary budgets to acquire the products and services that cater to their industrial demands. EverythingAboutWater consistently provides new ways to connect the water industry with end-user industries. EA Water Pvt Ltd is India's only knowledge and marketing solutions provider in the area of water and wastewater management. For over a decade, our verticals: Publishing, Training and Events have been instrumental in taking initiatives directed towards awareness on most critical water related issues.

101

eWATER SOLUTIONS

Contact: Robert Carr
UC Innovation Centre (Bldg 22), University Drive South
Bruce, ACT 2617, Australia
Phone: +61 2 6201 5168
Web address: <http://www.ewater.org.au>
General Email: contact@ewater.org.au

eWater Solutions is the developer and custodian of Source – Australia's national hydrological modelling platform for rivers, catchments and urban bulk water systems – and MUSIC – the national standard for modelling water sensitive urban design systems. Backed by our team of software developers and application specialists, eWater Solutions provides capacity building, customisation and technical support to Australian and International water management organisations.

920

EWU ENERGIE-WASSER-UMWELT GMBH

Contact: Wolfgang Goerk
Rotwandweg 5A
Taufkirchen, 82024, Germany
Phone: +49 89 6242 2360
Web address: <http://www.ewu-gmbh.com>
General Email: info@ewu-gmbh.com

EWU Energie-Wasser-Umwelt GmbH is specialized in the supply of equipment for environmental protection systems. We have realized more than 100 projects in the field of:

- Waste Water Treatment
 - Water Recycling
 - Sludge Treatment
 - Investment in environmental projects
- Our headquarter is located in Germany, with branch offices in the P.R. of China, USA and Singapore.

227

EXBYTE/CSIRO

Contact: Fang Chen
Level 5, 13 Garden Street
Eveleigh, NSW 2015, Australia
Phone: +61294905601
Web address: <http://www.exbyte.io>
General Email: Fang.Chen@data61.csiro.au

Exbyte is a research and development team in the Machine Learning Research Group at Data61@CSIRO (formerly NICTA) – one of the largest digital research teams in the world. The Exbyte team is focused on providing data driven solutions for smart prediction, risk evaluation and performance optimization, designed to preserve and extend the service life of long-term infrastructure assets. ExByte's unique combination of factor analysis, anomaly detection, failure prediction and decision support algorithms are run across the data to identify opportunities for improvement and to recommend commercially viable adjustment to maintenance plans.

501

FEDERATION OF JAPAN WATER INDUSTRIES, INC.

Contact: Yuto Niwa
4-8-9 Kudan-Minami
Chiyoda-ku, Tokyo 102-0074, Japan
Phone: +81332642307
Web address: <http://www.suidanren.or.jp/>
General Email: kokusai@jwwa.or.jp

Since its foundation in 1966, the Federation of Japan Water Industries, Inc., has been contributed continuous development of waterworks enterprise as the sole representative organ of waterworks, industrial water supply and sewerage industries at national level.

708

FLANDERS KNOWLEDGE CENTER WATER (VLAKWA)/EMPOWERED BY VITO

Contact: Stéphanie De Man
Graaf Karel de Goedelaan 34
Kortrijk, West-Flanders 8500, Belgium
Phone: (+32) 56-24 12 61
Web address: <http://www.vlakwa.be>
General 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.
Vlakwa is an independent division within VITO, a leading European independent research and technology organisation in the areas of cleantech and sustainable development and elaborating solutions.

708

FLEMISH INSTITUTE FOR TECHNOLOGICAL RESEARCH (VITO)

Contact: Genné Inge
Boeretang 200
Antwerp, 2400 Mol, Belgium
Phone: +32 14 33 55 11
Web address: <http://www.vito.be>
General Email: vito@vito.be

VITO, vision on technology
VITO is a leading European independent research and technology organisation in the areas of cleantech and sustainable development, elaborating solutions for the large societal challenges of today. VITO provides innovative and high-quality solutions, whereby large and small companies can gain a competitive advantage, and advises industry and governments on determining their policy for the future. VITO has 772 highly-qualified employees who work on international projects all around the world. VITO's headquarters are located in Mol, Belgium, and the company has a subsidiary in China. The total turnover of VITO amounted to about 147 million euros in 2015. VITO's research agenda tackles the major societal challenges we are facing today. VITO focuses on five different research programmes: sustainable chemistry, energy, health, materials management and land use.

618

FLOVAC VACUUM SEWERAGE SYSTEMS PTY LTD

Contact: John Radinoff
1/43-51 College Street
Sydney, NSW Gladesville, Australia
Phone: 02 9817 7035
Web address: <http://www.flovac.com>
General Email: info@flovac.com

Flovac is the worlds largest designer, supplier and operator of vacuum sewer systems in the world. Operating in 30 countries. Flovac vacuum systems are seen as the best alternative to traditional gravity sewers in areas that are too difficult to sewer in a conventional way. Vacuum sewers are low cost and easy to maintain and have many environmental benefits including low energy use and leak tight. Flovac's engineering group will always suggest the best solution for your project whether it is a septic tank replacement project or a new residential development.

IWA
World Water Congress
2016

9th - 14th October
BOOTH 924

Type 8905 – Online Analysis System

We set new standards in size and function.

bürkert
FLUID CONTROL SYSTEMS

Two new sensor cubes now enable measurement of the spectral absorption coefficient (SAC) at 254 nm and of the iron content by means of flow injection analysis (FIA).

The Type 8905 Online Analysis System, with a modular design for easy implementation, features freely selectable, ultra-compact sensor cubes for the reliable measurement, storage and transmission of all relevant water parameters, in addition to a large 7" touchscreen for the convenient display of the results.

left: The new SAC sensor cube features a fully integrated spectrometer.

centre: In the FIA sensor cube a reagent is added to the water sample. The course of the colour change provides information on the iron content of the water.



Want to know more? Just call: +49 (0) 7940 100

www.burkert.com

Exhibitor Profiles

422

FUTUREENVIRO
Contact: Esperanza Rico Linares
Zorral, 1C, Bajío C
Phone: +34 914723230
Web address: www.futureenergyweb.com
General Email: info@futureenergyweb.com
FuturENVIRO is highly focused on the reader and advertiser with an innovative, vibrant design providing up to date information, a unique bilingual Spanish/English format and a highly effective international distribution. Dealing with all environmental topics from waste and water management, pollution control, contaminated soils to smart cities and CSR issues, FuturENVIRO publishes 10 issues per year, 5 dedicated exclusively to water and 5 to waste plus a fortnightly newsletter offering all the up to date news. With offices in Spain and Mexico, FuturENVIRO is able to offer a true international distribution in a unique bilingual format.

422

FUTURE WATER 2016
Contact: Executive Media P/L
430 Williams Street
West Melbourne, VIC 3003, Australia
Phone: +61 3 9274 4200
Web address: http://www.futurewater.com.au
General Email: media@executivemedia.com.au

Future Water: The Australian Water Management Yearbook is an essential guide for professionals working in the water industry, as well as those in related industries. Australia – one of the world's driest and hottest continents – faces major and unique challenges when it comes to managing water, our most precious resource. Future Water addresses and explores these challenges in each edition. Future Water presents insight into a range of water management issues, while taking a holistic approach to editorial, presenting the latest news, trends, major projects and solutions in all the key areas, such as pumping, irrigation, technology and innovation.

810

GEA WESTFALIA SEPARATOR AUSTRALIA PTY LTD
Contact: Grace Del Grande
47 Northgate Drive
Thomastown, VIC 3074, Australia
Phone: 03 88779999
Web address: http://www.gea.com
General Email: sales.au@gea.com

GEA is the world leading German manufacturer of liquid separation technology, with over 2,000 areas of application worldwide. For the environmental market, GEA offers decanter centrifuges for dewatering and thickening of municipal and industrial sludges. GEA is the market leader and has subsidiaries in over 50 countries, with each subsidiary offering full sales, service and spare parts support, as well as trial machines to test proof performance for full scale operation. GEA's new innovative waterMaster CF series has been developed to improve machine performance and uptime for our customers – to keep you up and running!

812

GEOINTERACTIVE PTY LTD
Contact: Mr. Robert Lee
IAccelerate Centre (239), Level 2
Innovation Campus, University of Wollongong
Squires Way, North Wollongong
NSW2500 Australia
Phone: +61 (0) 401 355 406
Web address: http://www.geointeractive.com.au
General E-mail: info@geointeractive.com.au

Hazardous underground infrastructure needs to be physically inspected each year to prevent any critical failures occurring and include main waste water pipes, underground pump stations and manhole chambers. To do this specialist teams put themselves at risk to visually inspect the conditions at that given time. These areas are often difficult to get to and lack GPS making feature detection subjective. GeoInteractive are developing ways to remotely inspect and record a full comprehensive view of these underground assets as a full photo-realistic 3D record removing the need to expose workers to dangerous areas. The innovative approach is efficient,

objective, safe and cost effective compared to traditional inspections. Features can be accurately geo-located allowing for monitoring over time and added to asset management systems. Our Rapid 3D Photomapping is suitable for any empty or partially emptied large confined area and includes waste and storm water pipes; pump stations, manhole chambers and reservoirs that have been emptied.

923

GEORG SCHÜNEMANN GMBH
Contact: Dörthe Nowak
Buntentorsdeich, 1
Bremen, Germany
Phone: +49 (0) 421 55 909 0
Web address: http://www.sab-bremen.de
General Email: info@sab-bremen.de

Schünemann has been active successfully for more than 75 years with technical competence and experience in the areas of special valves, filters and filtration systems. Our products have high quality requirements and they are partially used under extreme conditions. The development, production and testing of our products are performed exclusively on our premises. This makes us independent from third parties and able to react quickly at any time with technically challenging system solutions customized to the individual requirements of our customers. With our wide range of products, we can offer a solution to our customers for almost every problem.

918

GLOBAL WATER INTELLIGENCE
Contact: Max Borchardt
Media Analytics Ltd. Suite C, Kingsmead House, Oxpens Road
Oxford, OX1, United Kingdom
Phone: +44 1865 204208
Web address: http://www.globalwaterintel.com
General Email: orders@globalwaterintel.com

Global Water Intelligence publishes newsletters and reports providing analysis and strategic data on the international water market. Its flagship publication, the monthly industry journal Global Water Intelligence (GWI), has established itself as the market-leading publication for developers, suppliers, financiers, governments, utilities and municipalities seeking information and analysis on water projects with an element of private sector participation. If you want to find out more about GWI products visit www.globalwaterintel.com. You can sign-up for a free trial of Global Water Intelligence, Water Desalination Report (www.waterdesalreport.com) or DesalData (www.desaldata.com) and read executive summaries of our latest reports.

230

GRENOF WATER TECHNOLOGIES
Contact: Jason Brooks
71 Eagle Street
Brisbane, QLD 4001, Australia
Phone: +61 7 3121 3014
Web address: http://www.grenof.com
General Email: admin@grenof.com

Grenof Water Technologies is a Solutions based company providing:
- Solutions for water and waste water
- Water and waste water treatment chemicals
- Odour and Corrosion control
- Disinfection of water mains and equipment using environmentally friendly cutting edge technology
- Water quality improvement services and equipment using the latest proven technology
- Operations and Maintenance for civil, mechanical electrical and plant operations.
- Monitoring equipment and software for water, waste water and planned maintenance planning.
- Manufacturing, installation and management of Dosing facilities.
- Optimization planning, data analysis, reporting and consulting.

215A

GRIFFITH UNIVERSITY
Contact: Nadine Painter
Australian Rivers Institute, Griffith University
Level 4, Sir Samuel Griffith Centre (N78), 170 Kessels Road
Nathan, QLD 4111, Australia
Phone: +61 434 171 636
Web address: https://www.rivers.edu.au/
General Email: n.painter@griffith.edu.au

Griffith University was created to be a different kind of university—challenging conventions, responding to trends and pioneering solutions. Ranking in the top five per cent of universities worldwide, its future-focused degrees are developed in consultation with industry, based on cutting-edge research, and taught by Australia's most awarded teachers.

419

GROUNDWATER ASSESSMENT PLATFORM
Contact: Joel Podgorski
Überlandstrasse 133
Dübendorf, Zurich 8600, Switzerland
Phone: +41587655760
Web address: http://www.gapmaps.org
General Email: admin@gapmaps.org

The Groundwater Assessment Platform (GAP) is a free-to-use online platform (www.gapmaps.org) dedicated to the problem of naturally occurring, geogenic groundwater contamination, in particular that of arsenic and fluoride. Long term consumption of water containing high levels of these contaminants can lead to skin lesions, dental and skeletal problems or cancer. GAP contains two main sections: GAP Maps where users can display existing statistical models and relevant input variables as well as develop their own models, and GAP Wiki, which allows users to read and share information on all aspects of geogenic groundwater contamination.

123

GUTERMANN
Contact: Julian Wilkinson
38 Ricketty Street
Mascot, NSW 2020, Australia
Phone: +61424166602
Web address: http://en.gutermann-water.com
General Email: au@gutermann-water.com

GUTERMANN is a global technology leader and innovator in intelligent water loss technologies and leak detection technology. We are a 3rd generation family enterprise with headquarters in Baar-Switzerland, and offices throughout the globe. GUTERMANN has been specialising in the design, manufacturing and distribution of all acoustic leak detection equipment for 60 years. With constant focus on innovation, we have often been at the forefront of new product developments, always pushing the boundaries of water leak management technology. With commitment to product quality, GUTERMANN has become a synonym for precision, quality, reliability, functionality and user-friendliness. Products include electronic listening sticks, ground microphones, correlators, leak noise loggers.

323

HCP SOFTWARE
Contact: Chris Vigus
PO Box 1707
Midland DC, 6936, Australia
Phone: +618 9274 2274
Web address: http://www.hcp.net.au
General Email: info@hcp.net.au

Specialist engineering services and software to analyse the real-time, transient response, hydraulic operation and distributed quality, of pressurized pipe systems carrying Newtonian fluids. WATSYS and WATHAM are our software products. Our experience ranges from single pipelines, process plant pipe loops, to whole city drinking water systems. Our focus can be sub-second transients, through to months of system operation. Our strength is providing hydraulic expertise to utilities and project teams (system design, peer review, removing design flaws, educating novice engineers to be skilled practitioners). Engineering services are provided through our parent company JCLEM CONSULTING Pty Ltd.

Exhibitor Profiles

310 E

HEBEI CREATE INSTRUMENTATION TECHNOLOGIES CO., LTD.
Contact: Angela Yan
A.1st.Floor, No.2 Building, No.368 North Xinshi Road
Shijiazhuang, Hebei Province 050091, China
Phone: +86 311 8383 1058
Web address: http://www.createc.cn
General Email: kedayiqi@createc.cn
Hebei Create Instrumentation Technologies Co., Ltd. is a professional developer and manufacturer of electrochemical analysis instruments and transmitters. It specializes in the fields of water purification inline monitoring, process water integration management system, environmental protection and industry wastewater treatment process management systems. The flagship products are industrial online conductivity/resistivity, pH/ORP, Reverse Osmosis Controller, digital flow meter, free chlorine system, DO controller and all kinds of sensors, which are widely used in water/wastewater treatment plant, desalination plant, reverse osmosis system, pure/ultrapure water systems etc.

505

HEXA-COVER A/S
Contact: Søren Madsen
Vilhelmsborgvej 5
Thisted, 7700, Denmark
Phone: +4529337972
Web address: http://www.hexa-cover.com
General Email: info@hexa-cover.dk

Hexa-Cover A/S is a Danish company founded in 2004, the manufacturer of the Hexa-Cover® Floating Cover. We have a dedicated team, including highly skilled engineers and technicians able to provide in-depth analysis and services to support our proven and solid Hexa-Cover® Floating Cover solution. Hexa-Cover® Floating Cover is used on almost any kind of liquid and on almost any kind of lagoon, pond, reservoir, tank etc. Hexa-Cover® Floating Cover is the ideal solution for controlling such things as emission, evaporation, organic growth, odor, UV-effect and heat loss. Further, Hexa-Cover® Floating Cover deters unwanted waterfowls from landing on covered waters.

606

HITACHI ZOSEN CORPORATION
Contact: Kana Ishikawa
15 th Floor, Omori Bellport D-Wing, 26-3, Minamioi
6-Chome
Shinagawa-Ku, Tokyo 140-0013, Japan
Phone: 81-3-6404-0843
Web address: http://www.hitachizosen.co.jp
General Email: kana_i@hitachizosen.co.jp

Hitachi Zosen Corporation is a global leading engineering company in the field of water treatment as well as desalination including water&wastewater treatment system and desalination plant from large-scale to small-scale. We have built a number of plants and systems to provide safe and reliable water solutions to our clients across the globe. We will introduce a new Hi-Speed Seabed Infiltration System called HiSIS to treat seawater for SWRO plants and our high rate filtration system named KEMARI to remove turbidity in top water .

510

HOLLAND WATER CHALLENGE
Contact: Gregor van Essen
Olympia 1A, Arena Business Park
Hilversum, NH 1213 NS, Netherlands
Phone: +31(0)208946405
Web address: http://www.hollandwaterchallenge.com
General Email: info@hollandwaterchallenge.nl

The Holland Water Challenge is a competition that invites the next generation water leaders to take an active role in developing innovative and sustainable solutions to real-life delta and water problems. In a unique way, the Holland Water Challenge connects young talent with experts from private sector, academia and government and inspires them to discover their personal passion for water. In Australia, the Holland Water Challenge is one of the driving forces behind the knowledge exchange partnership on climate extremes between Australia and the Netherlands since 2012.

804

HOMA PUMP TECHNOLOGY AUSTRALIA
Contact: Frank Mascadri
Unit 1, 10 Tapnor Crescent
Brendale, QLD 4500, Australia
Phone: +61 7 3205 2246
Web address: http://www.homa.com.au
General Email: sales@homa.com.au

For over 50 years, HOMA submersible pumps have been serving the needs of municipal and industrial wastewater customers throughout the world. HOMA submersible pumps provide superior hydraulic coverage with reliability and efficiency assured in permanent or portable installations, with Wet Pit or Dry Pit applications, from 2.7 cubic metres per hour to over 4,000 cubic metres per hour and with 0.37kW to 490kW. HOMA submersible pumps can be provided in standard configurations from our extensive inventories, or in special designs or metallurgies to meet your specific applications. HOMA stands behind every product with a generous warranty, extensive spare parts inventory.

812

HYDRO-DIS
Contact: Mr. Mark Carey GAICD
3/3/35 Jacobsen Cres,
Holden Hill SA 5088, Australia
Phone: +61 1300 794 987
Web Address: http://www.hydro-dis.com.au
General Email: info@hydro-dis.com.au

The Hydro-dis® system is a unique water disinfection technique that uses the electrocatalytic break down of water to instantly destroy waterborne micro-organisms including micro-flora, while simultaneously converting chloride ions into chlorine leaving a measured residual disinfection in the treated water. This gives a secondary disinfection ensuring sustained microbiological control. The Hydro-dis® system replaces traditional disinfection techniques with a cost effective, environmentally friendly, modular and portable system. It can be applied to applications ranging from Potable (drinking water) through to wastewater (sewage) and any application in between. The Hydro-dis® technology significant advantages over traditional methods in rural and remote sites as it removes the need to transport and store hazardous chemicals around the country. Specialist applications include the control of biofilms & algal blinding of bore columns, disinfection of water storage's and ornamental water bodies.

The world is ready for Hydrorock®



HYDROROCK®
the green label in water management



The sustainable solution against flooding and dehydration of soil.

Visit us in the Australian Precinct: Standnumber 311

www.hydrorock.com.au

Exhibitor Profiles

510

HYDROLOGIC

Contact: Leanne Reichard
Stadsring 57
Amersfoort, UT 3811 HN, Netherlands
Phone: +31 33 4753535
Web address: <http://www.hydrolog.com.au>
General Email: info@hydrologic.nl

From excessive rainfall and floods to extreme drought, Australia is a land of contrasting environments. Easy access to real-time information is essential in reducing impacts and risks before and during flood and rain events. HydroNET is a web-based decision support system empowering Australian water professionals. Smart web-applications transfer weather and water data into valuable tools which enable water professionals to make informed decisions for the analysis and sustainable management of Australian water resources. HydroNET has been developed by the Dutch company HydroLogic. WaterTechnology is the official distributor of HydroNET in Australia.

305

HYDRONUMERICS PTY LTD

Contact: Chris O'Neill
1/272 Lygon St
Carlton, VIC 3053, Australia
Phone: +61 (3) 9347 8080
Email: info@hydr numerics.com.au
Address: 1/272 Lygon St, Carlton, Victoria, 3053, Australia
Web address: www.hydr numerics.com.au

HydroNumerics deliver innovative engineering services that support proactive management of water resources to local and international clients. We have expertise in:

- Proactive Water Management - analysing water resources to better understand environmental and operational performance and delivering strategies, hardware and software that support proactive management.
- Hydrodynamic and Water Quality Modelling - using the Centre for Water Research suite of numerical models to simulate the hydrodynamics and water quality of lakes, reservoirs, estuaries, and coastal seas.
- Decision Support Systems - integrating sensor networks, data analysis and numerical models to deliver real-time decision support.
- Assessing Environmental and Operational Change - combining our scientific, numerical modelling and decision support skills to quantify the effects of environmental and operational change on the health of water resources.
- Software - developing, maintaining, distributing and supporting numerical models and customised decision support systems.

311

HYDROROCK PTY LTD

Contact: Anita Weerheim
PO Box 956
Tewantin, QLD 4565, Australia
Phone: +61 487 430 845
Web address: <http://www.hydrorock.com.au>
General Email: info@hydrorock.com.au

Hydrorock Australia, part of Hydrorock International, is focused on sustainable water management and dedicated to the development, production and sales of innovative solutions in the field of rain- and surface water.

Hydrorock products cover a wide range of solutions for separating rainwater, water drainage, buffering, infiltration and irrigation by using stone wool as basis material.

- Solutions and features:
- preventing flooding
 - separation and infiltration of rainwater
 - prevention of dehydration of soil
 - contributing to the quantity of groundwater
 - sustainable (100% natural materials)
 - resistant against erosion (plant/tree roots)
 - light and strong
 - easy, simple and effective

801

IDA - INTERNATIONAL DESALINATION ASSOCIATION

94 Central Street, Suite 200
Topsfield, MA 01983, United States
Phone: +1 978 887 0410
Web address: <http://idadesal.org>
General email: exhibits@idadesal.org

IDA is committed to development and promotion of the appropriate use of desalination and desalination technology globally in water supply, water reuse, water pollution control, water purification, water treatment and other water sciences and technology. IDA carries out this mission by encouraging research, promoting and

exchanging communication, disseminating information, and supporting education in the field of desalination and water sciences. A non-profit association, IDA is associated with the United Nations as part of a growing international network of non-governmental organizations (NGOs).

305

INSTITUTE FOR SUSTAINABILITY AND INNOVATION, VICTORIA UNIVERSITY

Contact: Prof Stephen Gray
Hoppers Lane
Werribee, VIC 3030, Australia
Phone: +61 3 9919 8248
Web address: <https://www.vu.edu.au/institute-for-sustainability-and-innovation-isi>
General email: isi@vu.edu.au

Victoria University operates an applied water research program through its Institute for Sustainability and Innovation that aims to undertake research aligned to industry needs and to support water businesses. This program incorporates water treatment, water resource management, social and behavioural aspects of water use, ecology, applied informatics and economics. An industry advisory board offers direction to the program as well as a means for research translation, and more than 70% of their projects involve an industry partner. Key research themes include membrane technologies, climate change impacts on yields, integrated water management, wetland rehabilitation, and community acceptance of potable recycled water.

2166

INSTITUTE FOR SUSTAINABLE FUTURES, UTS

Contact: Stuart White
235 Jones Street
Ultimo, NSW 2007, Australia
Phone: +61 2 9514 4950
Web address: <http://www.uts.edu.au/research-and-teaching/our-research/institute-sustainable-futures>
General Email: isf@uts.edu.au

The Institute for Sustainable Futures is a university research institute that creates change towards sustainable futures by conducting independent project based research for Australian and international clients. We draw on a range of methods and tools from different disciplines, creating practical solutions to real world problems. Our research spans ten broad research areas. We have been involved in several large groundbreaking water research projects for utilities, regulators and other stakeholders across Australia and internationally that have addressed complex societal problems and the challenges of creating change towards a sustainable future.

301

INTERNATIONAL WATER ASSOCIATION

Contact: Global Operations Office
New Babylon, Anna van Buerenplein 48, 11th Floor
The Hague, 2595 DA, The Netherlands
Web address: <http://www.iwa-network.org>
General Email: water@iwahq.org

Hosting a series of presentation, events, book launches and social activities, the IWA stand is the place to meet, greet and network. Join us in the exhibition hall and connect with the water professionals network.

104

INVISIBLE STRUCTURES PTY LTD

Contact: Jack Droemer
185 Great Ocean Road
Anglesea, VIC 3230, Australia
Phone: +613 5263 1997
Web address: <http://www.invisiblestructures.com.au>
General Email: info@invisiblestructures.com.au

Manufacturer and turnkey installer of large scale (multi ML) Rainstore3 Advantage underground water storage systems for stormwater harvest and reuse for Government, major developers and industrial clients since 2002.

Specifically engineered unique design flexibility delivers maximum site volume. Effective fine sediment removal by intrinsic flushing system for optimum long term functionality. Water tight integrity of constructed tank is tested and proven prior to back fill. NATA tested structural capability accommodates any legal road vehicle with a x2 safety factor and is immediately trafficable. Invisible Structures achieves benchmark construction by utilizing industry professionals with exemplary workmanship to benefit the project, community and environment.

112

IOTA SERVICES PTY LTD

Contact: Lucy Milkeraitis
101 Wells Street
Frankston, VIC 3199, Australia
Phone: 03 9552 3769
Web address: <http://www.iota.net.au>
General Email: lucy.milkeraitis@iota.net.au

Intelligent engineering solutions for water and sewerage networks. Owned by South East Water, an industry leader in smart technology

425

IRRIGATION AUSTRALIA LTD

Contact: Bryan Ward
Unit 12, 56 Church Ave
Mascot, NSW, Australia
Phone: 1300 949 891
Web address: <http://www.irrigation.org.au>
General Email: info@irrigation.org.au

Irrigation Australia Limited (IAL) is the Australian irrigation industry's peak professional association. IAL is the only national body that has membership across the entire value chain of urban and agricultural irrigation - irrigators and irrigation managers, consultants, designers and installers through to educational institutions, government, manufacturers and retailers.

IAL is a registered RTO and focuses on training and professional development through various courses in areas such as retail skills, auditing and maintenance, pump operation and hydraulics, and via their certification programme.

For more information go to IAL's website, www.irrigation.org.au or phone 1300 949 891.

812

ISLE UTILITIES

Contact: Annelies Schenk
Phone: +31 6 48 78 22 95
Web address: <http://www.isleutilities.com>
General Email: annelies.schenk@isleutilities.com

Isle Utilities (Isle) is extremely passionate about emerging technologies and we built our business around supporting the acceleration of emerging technologies for water and sanitation in the market place. We have been practicing this through the running of Technology Approval Group (TAG) meetings and organizing Innovation pavilions & forums at Global Events

704

ITRON INC.

Contact: Lucile Montant
9 Rue Ampere
Macon, Macon 71000, France
Phone: +33 (0) 3 85 29 39 00
Web address: <http://www.itron.com>
General Email: webinquiry@itron.com

Itron is a world-leading technology and services company dedicated to the resourceful use of energy and water. Our water efficiency solutions include complete non-revenue water reduction programs (pressure management, meters replacement programs, AMI and AMR solutions, cloud-based data management & analytics). With our global experience, technology and expertise, Itron has been able to help customers around the world better manage their energy and water resources. Together, we can create a more resourceful world.

501

JAPAN WATER WORKS ASSOCIATION

Contact: Yuto Niwa
4-8-9 Kudan-Minami
Chiyoda-ku, Tokyo 102-0074, Japan
Phone: +81-3-3264-2307
Web address: <http://www.jwwa.or.jp>
General Email: jnc@jwwa.co.jp

Japan Water Works Association (JWWA), a Public Interest Incorporated Association, 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. JWWA also provides various services such as inspection and certification of water related products and support water utilities. Those activities are quite essential for people's daily life as well as social and economic activities in Japan.

We are pursuing harmony between water, nature and people.



RESEARCH FIELDS

WATER AND WASTEWATER TREATMENT

- Smart water micro-grid technology
- Multi-purpose water treatment package
- Development of advanced water treatment process

WATER AND WASTEWATER INFRASTRUCTURE MANAGEMENT/TREATMENT

- Odor control technology in sewer systems
- Asset management for water and wastewater infrastructure
- BIM/GIS based interactive operation technology

PLANTS AND RENEWABLE ENERGY

- Development of modular technology for LNG plants
- MD/PRO based hybrid desalination technology
- Development of self-sufficient renewable energy

URBAN WATER MANAGEMENT

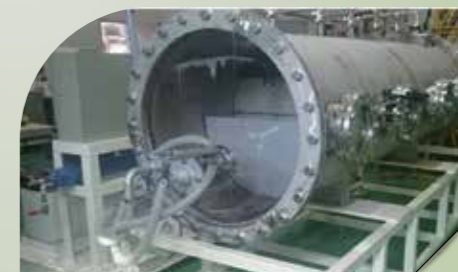
- Low impact development with green infrastructure
- Nonpoint source control
- Stormwater management

AQUATIC ECOSYSTEM

- Micro-algae removal technology
- Ecological restoration technology
- River and estuarine circulation model
- Emerging contaminants control

OTHERS

- Organic waste resources management
- Indoor air quality control
- Noise reduction technology



CONTACT US :

Environmental and Plant Engineering Research Institute

Korea Institute of Civil Engineering and Building Technology,
(Daehwa-Dong) 283, Goyangdae-Ro, Ilsanseo-Gu, Goyang-Si,
Gyeonggi-Do, 10223, Republic of Korea

www.kict.re.kr

Exhibitor Profiles

812

JOHN HOLLAND
Contact: Mal Shepherd
380 St. Kilda Road
Melbourne, 3004, Australia
Phone: +61 3 8698 9400
Web address: <http://johnholland.com.au>
General Email: external.affairs@jhg.com.au

John Holland is at the forefront of Australia's infrastructure, building and rail markets. Operating across Australia, New Zealand and South East Asia, they have been transforming city skylines, connecting regional centres and providing vital infrastructure for more than six decades.

John Holland participates in every link in the project lifecycle from originating, financing, designing, engineering, manufacturing and constructing to support the most complex of developments, and the ongoing ownership, operation and maintenance of these facilities. Their expertise extends across all facets of water and wastewater, from treatment to pipelines, pumping and irrigation systems, dams and water storage.

505

KAMSTRUP
Contact: Mikael Hansen
Industivej 28
Stilling, 8660, Denmark
Phone: +45 89 93 10 00
Web address: <http://www.kamstrup.com>
General Email: info@kamstrup.dk

Kamstrup is a world-leading supplier of energy and water metering solutions. Our solutions support primarily utilities, but also applied in properties with individual metering. For 70 years, we have delivered reliable, cost-effective ways to measure and manage energy and water consumption worldwide.

Today, Kamstrup is the largest manufacturer of ultrasonic meters in the world. Innovation has always been our driving force. We have evidence that keeping research & development, production and administration situated under one roof at our headquarters in Denmark enhances the quality and reduces delivery time.

107

KINGSPAN ENVIRONMENTAL PTY LTD
Contact: Nick Szkutenko
93 Magnesium Drive
Crestmead, QLD 4132, Australia
Phone: 1300736562
Web address: <http://www.kingspan.com>
General Email: commercial@tankworks.com.au

Kingspan Water have been manufacturing steel water storage tanks since 1934. Our Rural and Commercial tanks have capacities up to 542,000 litres.

This range is specifically designed for the Rural, Industrial, Fire, Energy, Mining, Agriculture, Dairy & Commercial sectors.

Every tank is assembled by our highly experienced and accredited Commercial installation team. Materials and colours are available in BlueScope Galvanised® Steel or any Colorbond® Steel. Kingspan Water only uses Australian made steel. For more information about the range, contact our Commercial Manager on 0447 180 914 or email: commercial@tankworks.com.au or visit: www.tankworks.com.au

808

KOREA INSTITUTE OF CIVIL ENGINEERING AND BUILDING TECHNOLOGY
Contact: Seogku Kim
238, Goyangdae-Ro, Ilsanseo-Gu,
Goyang, Gyeonggi 10223, South Korea
Phone: +82-31-910-0300
Web address: <http://www.kict.re.kr>
General Email: sgkim@kict.re.kr

Korea Institute of Civil Engineering and Building Technology (KICT) is a top-notch think-tank that works on construction policies and techniques for comfortable and safe land environments as well as develops technology to improve public safety and quality of life.

KICT pushes the boundaries of value creation as it creates a research ecosystem for convergence and collaboration.

Each KICT institute has been established and based on specialized expertise to promote 'Future Flagship R&D' as well as establish 'Big Engineering R&D' to lead the

construction industry in Korea. KICT is a trusted partner with convergence and cooperation through constant R&D and innovation.

702

KOREA WATER PARTNERSHIP
Contact: Shim Yuseop
244 Daerim-ro, Yeongdeungpo-gu, 5th floor
Seoul, South Korea
Phone: +82 2 2039 6782
Web address: <http://www.kwp.or.kr>
General Email: kwp@kwp.or.kr

Korea Water Partnership (KWP) is a registered not-for-profit corporation founded in April 2015 aimed to provide a network platform for water professionals in private and public sectors in order to promote water industry. Korea Water market is highly regulated industrial sector compared to general manufacturing and service industry. In rapidly changing regulatory environment, water industry needs a new platform to network local as well as global stakeholder. KWP is a bridge between private and public stakeholder. KWP is creating a new network with international organizations to strengthen international cooperation and to improve the status of the Korean water industry.

708

KPMG GLOBAL ASSET MANAGEMENT COMPETENCE CENTER
Contact: Daniël Pairon
Bourgetlaan 40
Brussels, 1130, Belgium
Phone: +32 38 21 19 41
Web address: <http://www.kpmg.com>
General Email: dpairon1@kpmg.com

The KPMG Global (physical) Asset Management Competence Center is offering end-to-end solutions for organisations which are dealing with asset management questions in a broad sense. Our methodologies are innovative and serve worldwide as models. We are staffed with experienced specialists of business advisors, engineers, tax experts and auditors providing pragmatic advice and hands-on assistance managing physical assets.

We create added value for our clients enabling:
- integration of financial and technical/operational insights;
- long-term strategic business direction;
- risk-based performance and prioritization of maintenance and investments;
- integration of asset management systems and whole life cycle processes;
- improved management of the physical assets.

812

KRIETER WATER & ENVIRONMENT SDN BHD
Contact: Mr. Adam Hashim
Hartamas 2, A15-02
No.2 Jalan – Duta Hartamas
Sri Hartamas
50480 Kuala Lumpur, Malaysia
Phone: +603 62111582
Web address: <http://www.krieter.com.my>
General Email: info@krieter.com.my

501

KUBOTA CORPORATION
Contact: Osamu Kume
1-3, Kyobashi 2-Chome, Chuo-ku
Tokyo, 104-8307, Japan
Phone: +81-3-3245-3228
Web address: <http://www.kubota-global.net/>
General Email: kbt_g.iwa@kubota.com

Kubota Corporation(TSE:6326) is one of Japan's leading manufacturers of a comprehensive range of machinery and other industrial and consumer products. Since 1890, Kubota Corporation has offered various products including farm equipment, engines, construction machinery, electronic equipped machinery, pipe-related products, environment-related products, and social infrastructure-related products to contribute to improve human lives and society. With broad product lineup and its unique comprehensive strength, Kubota Corporation presents in more than 110 countries and strives to solve the worldwide problems related to food, water and the environment, which are indispensable for human beings. Please visit <http://www.kubota-global.net/index.html> for the latest news and more information.

510 / 812

LG SONIC
Contact: Anne Gierveld
Radonstraat 10
Zoetermeer, ZH 2718 TA, Netherlands
Phone: +31707709030
Web address: <http://www.lgsonic.com>
General Email: info@lgsonic.com

Since 1999, LG Sonic has been a leading international manufacturer of ultrasonic algae control and biofouling prevention systems. Our latest innovation, the MPC-Buoy, is a floating, solar powered, platform that combines continuous online water quality monitoring, web-based software, and ultrasonic technology to effectively control harmful algal blooms in large water surfaces. The MPC-Buoy eliminates up to 90% of the exiting algae and prevents the growth of new algae. Furthermore, the MPC-Buoy allows to reduce TSS, BOD and chemical consumption. At this moment, the system is installed in lakes and water reservoirs in, among other countries, the USA, Malaysia, and Poland.

505

LINAK AUSTRALIA PTY LTD
Contact: Peter Ebnwaldner
82-84 Abbott Rd
Hallam, VIC 3803, Australia
Phone: +613 8796 9777
Web address: <http://www.linak.com.au>
General Email: sales@linak.com.au

LINAK Australia, a division of global automation solutions producer LINAK. LINAK develop and manufacture over 7,000 different products for actuator systems including actuators, lifting columns, control boxes, controls and associated accessories. Recognised globally for their dedication to high quality, innovative and technically advanced automation solutions, over 80% of LINAK products are classified as custom solutions. Built for the harshest conditions including extreme temperatures, dust and vibration, LINAK actuators are a proven alternative to hydraulic power movement and operate with stroke lengths of up to 1m and forces of up to 1 tonne.

812

LIQUID INTEGRITY SYSTEMS PTY LTD
Contact: Kelly Keates
39 Raglan Ave, Edwardstown
South Australia, Australia 5039
Phone: +61 8 83710020
Web address: <http://liquidintegritysystems.com.au>
General Email: kjkeates@zonge.com.au

Liquid Integrity Systems (LIS) provides a solution to detect leaks in large liquid storage facilities such as lagoons, or dams, reducing risk and improving community assurance by preventing contamination to the environment. Modern fluid storage facilities are often lined with a synthetic geo-membrane to prevent contamination of the environment; these geo-membrane liners often develop leaks that can result in unwanted contamination. LIS monitoring systems measure the current flow across the liner at safe voltages and the potential field within the fluid to determine whether leaks exist in the liner, providing information to allow leak location to be determined. The technology is applicable to any new or existing, lined, liquid or solid waste facility. LIS monitoring can be a cost effective means of ensuring new or older lined facilities meet modern environmental requirements. They may be permanently installed and require no additional utilities, automatically assessing liner integrity. Warnings and results are sent to the client in a format that can be easily interpreted, and can be integrated into client control systems.

310 C

LONGKOU CHENGFENG ZHIYUAN TECHNOLOGY CO., LTD.
Contact: Yonghui Zhao
Dongjiang Hi-Tech Industrial Park
Longkou, Shandong 265718, China
Phone: +86 0535-8661789
Web address: <http://www.lk-chengfeng.com>
General Email: chengfeng_valve@163.com

Longkou Chengfeng Zhiyuan Technology Co.,Ltd. is a company which devotes itself to research and sales in multiport valves and complete equipments for water treatment system.

Exhibitor Profiles

127

LONZA WATER TREATMENT
Contact: Chris Smith
Level 1, 12-24 Easey Street, Collingwood
Melbourne, VIC 3066, Australia
Phone: +61 3 9417 2428
Web address: <http://www.lonzawatertreatment.com.au>
General Email: ordersaustralia.water@lonza.com

Lonza Water Treatment products are sold worldwide for the sanitation and treatment of drinking water, microbial control in industrial applications in cooling and power generation, commercial pool and spa water, food sanitation and surface water. Our calcium hypochlorite dosing systems prepare and deliver a consistently accurate liquid chlorine solution for effective disinfection. Our well-known brands: Applied Biochemists® HTH® CCH® Constant Chlor® DryTec® Frexus® Pulsar® We're committed to adding value to our products through service and support and meet evolving community water standards with innovative solutions. At Lonza, our spirit of innovation is matched only by our desire to support the communities we serve.

115

MARIC FLOW CONTROL AUSTRALIA
Contact: Graeme Anderson
15 Old Norton Summit Rd
Magill, 5072, Australia
Phone: +61884312281
Web address: <http://www.maric.com>
General Email: graeme@maric.com.au

Maric are the inventors, manufacturers and global suppliers of the Maric constant flow valves. These pre-set tamperproof valves are ideal for fixing a flow rate where pressures are either fluctuating or unknown. Their use by water authorities enables them to better understand water demand patterns better, which in turn enables them to supply more customers from existing infrastructure, thus maximizing revenue. They also have many applications in; pump protection, water treatment, and mining.

126

MCBERNS INNOVATIVE SOLUTIONS
Contact: Noel Southern
11 Tectonic Crescent
Kunda Park, QLD 4556, Australia
Phone: +61 7 5445 1646
Web address: <http://www.mcbarns.com>
General Email: mail@mcbarns.com

McBarns Innovative Solutions is a leading Australian designer and manufacturer of 4-side Void Protection Safety Access Covers, Odour Filtration Units and the AutoWellWasher™. Trading since 1991, we provide Product Design, Consultancy and Fabrication; Odour Management and Monitoring Services; Installation and Asset Maintenance Services as well as Project Management for wastewater sector providers in Water Utilities, Construction, Mining and Industrial. Using sound industry knowledge and understanding, we incorporate advanced design methodology and techniques to create the best solutions for odour management and improved worker safety. Our innovative design approach, reliability and customer service ensures industry best practice products and results.

109

MEMCOR® AN EVOQUA BRAND
Contact: Bruce Biltoft
15 Blackman Crescent
South Windsor, NSW 2756, Australia
Phone: +61387206597
Web address: <http://www.evoqua.com>
General Email: info.au@evoqua.com

MEMCOR® products represent 30 years of innovation in membrane technologies for municipal and industrial applications. We generate safe water for communities across the world as a global leader in drinking water treatment, RO pre-treatment, wastewater reuse and industrial process water. Our facility in Windsor, New South Wales is the only Australian based manufacturer of UF/MF membranes for high quality water treatment. MEMCOR® an Evoqua brand supplied high profile projects:
• Perth and Adelaide desalination plants
• Gippsland Water Factory
• Bendigo AQUA 2000 Project

812

MEMFREE
Contact: Dr Vivian Robinson
Address: 186 Canterbury Road (PO Box 100)
Canterbury, NSW, 2193
Australia
Phone: +61 2 9718 1444
Web address: <http://www.memfree.com.au>
General Email: viv@memfree.com.au

MemFree are automated, industrial scale electrolysis based water treatment systems that clean polluted water to better than nano filter level, without using membranes or chemicals, pH adjust excluded. Their three controls can be set for 99% removal of a wider pollutant array at higher loadings, lower operating costs and less waste than any other system. TREAT liberates emulsified FOGs and captures chemicals. CLEAN removes the captured chemicals and suspended solids. FLOW RATE is set for 99% removal, typically in one hour. Higher removal rates possible. Suited for potable water and STP, industrial, petrochemical, mining applications to reuse or discharge standards.

812

METAFLUSH PTY LTD
Contact: Mr. A. J. (Tony) Lake
Box 535
Highfields QLD 4352, Australia
Phone: +61 7 4696 9236
Web address: <http://www.lakeline@westnet.com.au>

Virtually all toilet cisterns contain valves that either directly control the flushing process, or are necessary to prime and/or control a siphonic system which empties the cistern and flushes the toilet. Valves can malfunction or leak and therefore need constant monitoring for correct operation if water wastage is to be avoided. To improve the performance of the toilet flushing process have been centered on refining existing flush valve design and reducing the total volume of water used when flushing, instead of examining alternative, simpler and more robust options for achieving controlled flushing. MetaFLUSH® is a radical new design of a valveless toilet flushing system that is simple, robust, is logical to operate, has dual flush capability, is easy to maintain, and cannot leak.

Visit us at IWA stand 514

www.detectionservices.com.au

Exhibitor Profiles

501 METAWATER CO., LTD.

Contact: Takashi Yuasa
JR Kanda Manseibashi Bldg, 1-25, Kanda-sudacho, Chiyoda-ku
Tokyo, 101-0041, Japan
Phone: +81-3-6853-7317
Web address: <http://www.metawater.co.jp/eng/>
General Email: yuasa-takashi@metawater.co.jp

METAWATER Co., Ltd. is a total water solution and service provider. We have been engaged in the installation and service works of mechanical and electrical equipment in drinking water, wastewater, and environment protection business market in and outside Japan. Our aim is to provide any clients with the best solution in order to create an achievable water & resource circulation. The wide range of service of METAWATER such as EPC works, O&M services, privatization business, and integrated management services, is contributing to realize more sustainable social infrastructures. We will further accelerate privatization business in Japan and international business.

416 MICRODYN-NADIR (XIAMEN) CO., LTD.

Contact: Lingling Cai
No.66 Jinting North Road, Xinglin Jimei
Xiamen, Fujian 361022, China
Phone: +86-592-6775500
Web address: <http://www.microdyn-nadir.cn>
General Email: infocina@microdyn-nadir.cn

With production locations in Germany, China and Singapore as well as offices in the USA and South-America, MICRODYN-NADIR is a leading, independent producer of micro-, ultra- and nanofiltration membranes and modules.

For almost 50 years, MICRODYN-NADIR has been applying its products in various industrial and municipal applications, e.g. in the field of water and wastewater treatment as well as in many process-integrated applications. The product's outstandingly sharp cut-offs and reproducibility allow for a high application variety, among others in the chemical and food industry.

501 MINISTRY OF HEALTH, LABOUR AND WELFARE (MHLW), JAPAN

Contact: Ryutaro Kaneko
1-2-2 Kasumigaseki, Chiyoda-ku
Tokyo, 100-8916, Japan
Phone: +81-3-3595-2368
Web address: http://www.mhlw.go.jp/stf/seisakunitsuite/bunya/kenkou_iryuu/kenkou/suido/index.html
General Email: suidougijutsu@mhlw.go.jp

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

501 MINISTRY OF LAND, INFRASTRUCTURE, TRANSPORT AND TOURISM / JAPAN SEWAGE WORKS ASSOCIATION CONTACT: YUKA OKABE

Uchikanda Suisui Bldg, 2-10-12 Uchikanda
Chiyoda-ku, Tokyo 102-0074, Japan
Phone: +81-3-6206-8746
Web address: <http://www.jswa.jp/en/jswa-en/>
General Email: kokusai@ngsk.or.jp

Our booth is operated by MLIT and JSWA. At our booth, you can learn management of wastewater in Japan.

-WHO WE ARE-
Ministry of Land, Infrastructure, Transport and Tourism is a national government in charge of wastewater system. Japan Sewage Works Association, JSWA is not for profit organization supported by 1,500 public utilities and 1,000 private companies for the interest of public wastewater utilities.

2160 MONASH SUSTAINABILITY INSTITUTE

Contact: Rob Skinner
8 Scenic Boulevard
Monash University, VIC 3800, Australia
Phone: +61 3 9905 0124
Web address: www.monash.edu/sustainability/
General Email: enquiries@msi.monash.edu

Monash is taking transformative steps to shift the world onto a sustainable and resilient path. Our focus isn't just the environment - it's people and economics too. Monash works with industry, government and community to find solutions to real-world problems. Examples include: devising strategies to reduce carbon emissions, and designing communication programs to encourage energy efficient behaviour; devising new filtration systems to collect urban stormwater for re-use, and finding innovative answers for communities without adequate sanitation; running training to drive environmental change in the workplace, and finding ways for developing countries to leapfrog dirty technologies and go straight to clean.

930 MOTT MACDONALD NEW ZEALAND

Contact: Steve Couper
Level 1, 23 Union Street
Auckland, Central Auckland 1010, New Zealand
Phone: +64 (0)9 375 2400
Web address: <http://www.mottmac.com>
General Email: steve.couper@mottmac.co.nz

Mott MacDonald is a global engineering, management and development consultancy adding value for public and private clients on agenda-setting, next-generation projects worldwide. We use ingenuity to save our customers money and time, reduce risks, increase efficiency, maximise sustainable outcomes and advance best practice.

Exhibitor Profiles

We do this through innovative thinking and by drawing on the immense talent and energy of our people – designers, engineers, project and programme managers, management consultants, environmentalists, planners, economists, business strategists, infrastructure finance advisors, public private partnership experts, cost consultants, low carbon specialists, technology experts, safety advisors, health and education specialists, development policy advisors and more.

131 MOVUS

Contact: Brad Parsons
Building 1015, 80/120 Meiers Road
Indooroopilly, QLD 4068, Australia
Phone: +614 1619 7849
Web address: <http://www.movus.com.au>
General Email: brad.parsons@movus.com.au

MOVUS is developing "FitMachine" - an innovative sensor solution for monitoring equipment health of industrial rotating machinery, in the same way that a "FitBit" helps individuals to monitor their personal fitness. FitMachine combines multiple capabilities into a simple, self-install sensor at a highly affordable price point. FitMachine uses machine learning and artificial intelligence algorithms to predict machine failures and reduce maintenance budgets by up to 50%.

510 MTD INTERNATIONAL BV

Contact: Hans Verhoeven
Clara Zetkinweg 4
Tilburg, Noord-Brabant 5032 ML, Netherlands
Phone: +31 88 77 55 000
Web address: <http://www.mtd.net>
General Email: info@mtd.net

MTD is the worldwide market leader in turn-key solutions for temporary drinking water and waste water infrastructures, water treatment and plumbing services for all your on- and offshore projects. MTD offers the complete water supply chain, from a drinking water production unit including service and maintenance till a waste water purification unit for re-using water. MTD supplies their rental friendly products and services at more than 1000 projects per year.

908D NAIROBI CITY WATER & SEWERAGE COMPANY

Contact: James Karanja
P.O. Box 30656
Kampala Road off Enterprise Road, Industrial Area
Nairobi, 00100, Kenya
Phone: +254703080000
Web address: <http://www.nairobicwater.co.ke>
General Email: info@nairobicwater.co.ke

Nairobi City Water and Sewerage Company has a jurisdiction divided into seven administrative regions with a mandate to provide water and sewerage services in a financially sustainable manner. The City has a population of 3.8million projected to grow to 4.5 million by 2019. NCWSC has been leveraging on technology to improve performance by adopting e-billing, digitizing customer location, improved meter reading through use of Mobile Field Assistance application resulting in increased revenue. A key achievement is the reduction of non-revenue water losses from 45% to 36% in the last three years resulting to increased access to water.

310 A NANFANG ZHONGJIN ENVIRONMENT CO., LTD.

Contact: Jason Wu
Renhe Town, Yuhang District
Hangzhou, Zhejiang 311107, China
Phone: +86 13588305880
Web address: <http://www.cnppump.com>
General Email: jason@nanfang-pump.com

CNP is a professional manufacturer which develops, manufactures, sells stainless steel multistage centrifugal pumps. The company is always devoted to innovation and management after founded more than 20 years. The company embarked on the road of a virtuous cycle

and operating in scale. The company has professional pump design and developing technicians. And formed a manufacture management, quality management and marketing management system. The pumps is applied to industrial and mining enterprises, municipal water supply, farm irrigation, petrochemical engineering, domestic water and fire water supply of high buildings, industrial water treatment, water purification, pharmaceutical industry, boiler, air-conditioning system, etc.

906 NATIONAL WATER AND SEWERAGE CORPORATION, UGANDA

Contact: Rose Kaggwa
Plot 39, Jinja Road, P.O. Box 7053
Kampala, Uganda
Phone: +256 313 315 111
Web address: <http://www.nwsc.co.ug>
General Email: rose.kaggwa@nwsc.co.ug

National Water and Sewerage Corporation, Uganda is a public utility that is 100% owned by government of Uganda providing water and sewerage services in urban centers across the country on a commercial and financially viable basis. As at July 2016, the Corporation operated within 165 urban centers with the number of towns envisaged to grow as the corporation continues to pursue increased geographical expansion. Vision "To be the Leading Customer Centered Water Utility in the World". Corporate Mission "To sustainably and equitably provide cost effective quality water and sewerage services to the delight of all stakeholders while conserving the environment".

510 NETHERLANDS-AUSTRALIA COALITION ON CLIMATE EXTREMES

Contact: Gregor van Essen
Olympia 1A, Arena Business Park
Hilversum, NH 1213 NS, Netherlands
Phone: +31(0)208946405
Web address: <http://www.nwp.nl>
General Email: info@nwp.nl

Partners: Deltares, HydroLogic, Holland Water Challenge, Van Oord, Royal HaskoningDHV, UNESCO-IHE, Fugro, NWP. The devastating Queensland floods of 2011 sparked an alliance to take-on climate extremes between two countries that have enjoyed strong relationships for hundreds of years: Australia and the Netherlands. Both countries have a long history dealing with natural disaster; Australia being more occupied with disaster preparedness and recovery and the Netherlands with disaster prevention. As they have come to understand: neither approach is and will be sufficient. New solutions and approaches are needed resulting in a thriving knowledge exchange partnership that has been underway for several years.

510 NETHERLANDS WATER PARTNERSHIP

Contact: Sandra Borst
Bezuidenhoutseweg 2
Den Haag, ZH 2594 AV, Netherlands
Phone: +31 70 3043700
Web address: <http://www.nwp.nl/> www.dutchwatersector.com
General Email: info@nwp.nl

NWP is your gateway to the Dutch Water Sector. Companies, NGOs, Knowledge Institutes and Government have joined forces in this public-private partnership. From water purification to spatial planning, from governance to land reclamation, from small scale solutions to mega structures, the partnership has the expertise. Our members (200) work together to offer sustainable, multifunctional water solutions for people, planet and profit worldwide. NWP acts as a centre of information on water expertise, policy developments and market opportunities. NWP also initiates, coordinates and executes projects for its members and organizes trade missions, exhibitions and conferences. Let's work together!

324 ONTOTO PTY LTD

Contact: Joshua Ludwick
193 Lackey Road
Moss Vale, NSW 2577, Australia
Phone: +61491113273
Web address: <http://www.ontoto.com.au>
General Email: info@ontoto.com.au

Ontoto is a small team of can do people who design, manufacture and support our products right here in Australia. Our company is in response to the call for operational simplicity and affordable ground water monitoring technology. We are specialists in remote telemetry data logging and international leaders in low-power technology. Our products are field tested and backed with a 5-year warranty. The importance of ground water is underestimated by the majority. A lack of monitoring is leaving us uninformed and ignorant to the changes happening under our feet. Remote telemetry reporting shows you depletion versus recharge; from your office.

430 PALL CORPORATION

Contact: Morten Schnoor
6 Chivers Road
Somersby, NSW 2250, Australia
Phone: +61 2 4340 8900
Web address: <http://www.pall.com/water>

Pall Corporation is a filtration, separation and purification leader, providing service and solutions to meet critical fluid and water treatment objectives. Our products and services are specifically designed and optimised to meet the customers' objectives and to be environmentally compliant to external regulatory controls. Pall Corporation has several thousand water treatment plants around the world that use membrane filtration technology. In Australia alone Pall has more than a 100 membrane system installations. Pall's Containerised Aria Fast solutions also help municipal and industrial customers address critical water quality, scarcity, and demand issues.

905 PARKSON CORPORATION

Contact: Mike Jakob
1401 W. Cypress Creek Road
Ft. Lauderdale, FL 33309, United States
Phone: +1 954-974-6610
Web address: <http://www.parkson.com>
General Email: technology@parkson.com

Parkson is a supplier of equipment and solutions for potable water, process water, and industrial and municipal wastewater applications. Parkson designs, engineers and assembles products that provide customers with advanced screening, biological, filtration, biosolids and disinfection solutions. We also have a highly trained field service team capable of completely rebuilding aging equipment or retrofitting equipment to include the latest technological advancements. Founded in 1960 and headquartered in Fort Lauderdale, Florida, Parkson is an industry leader in the USA with a global installation base. Additional branches are located in Dubai, Montreal, Chicago, and Kansas City.

512 POTEN ENVIRONMENT GROUP

Contact: Yingxin Zhang
No. 60 Xizhimen North Street
Beijing, 100082, China
Phone: +86 10 8229 3399 +86 186 1170 0474
Web address: <http://www.poten.cn/>
General Email: overseas@poten.cn

Poten Environment Group is a pioneer and leading provider in water and environmental protection services in China and all around the world. Poten designs, builds and operates state of the art innovative water and wastewater treatment infrastructures, soil remediation and restoration, as well as developing cutting edge water and environment monitoring and testing systems. Poten commits to create innovative solutions for a better environment." Linked-in: http://www.linkedin.com/company/poten-environment-group-co.-ltd.?trk=top_nav_home

A World of Water Education & Engagement Products

water360.com.au/engage

Come and explore the Water360 stall at the Knowledge & Research Pavilion

Water360
Education & Engagement

In a world of vast information
there is void of vital knowledge
for the water industry executives.



WaterBiz

fills this gap



Publication for Management & Business
within the Greater water industry
www.intwater.com Tel:972-36959352

Exhibitor Profiles

116 PROCHEM / AVFI
Contact: Peter Winter
63 Radley Street, Virginia
Brisbane, QLD 4014, Australia
Phone: +61 732652711
Web address: <http://www.prochem.com.au>
General Email: pwinter@prochem.com.au

Prochem/AVFI offer a full range of Stainless Steel Piping Products and AVFI range of Water Valves.

922 PUBLIC UTILITIES REGULATORY COMMISSION (PURC)
Contact: Deborah Bonney
No. 53 African Liberation Circle, Ridge Roundabout
Accra, CT 3095 Cantonments, Ghana
Phone: +233 3022 44181-3
Web address: <http://www.purc.com.gh>
General Email: info@purc.com.gh

The Public Utilities Regulatory Commission(PURC) was set up as a multi-sectoral regulator by Government of Ghana in October,1997 under the Public Utilities Regulatory Act,1997 (Act 538) as part of the utility sector reform process to regulate the provision of utility services in the electricity and water sectors. By virtue of the Energy Commission Act, 1997 (Act 541) PURC also has regulatory responsibility over charges for supply transportation and distribution of natural gas services. Under Section 4 of Act 538, PURC is an independent body and is not subject to the control of any authority in the performance of its functions.

412 PURE TECHNOLOGIES
Contact: Hugh Chapman
7/2-12 Pymont Bridge Rd
Pymont, NSW 2009, Australia
Phone: +612 9518 5422
Web address: <https://www.puretechltd.com/>
General Email: hugh.chapman@puretechltd.com

Pure Technologies is a world leader in the development and application of innovative technologies for inspection, monitoring and management of large diameter water and wastewater pressure pipelines. Pure's expertise and technologies are being used around the world to help utility operators mitigate pipeline deterioration and maximize capital budgets for rehabilitation and replacement programs.

201 A QUEENSLAND GOVERNMENT
Contact: Executive Director, Water Policy
PO Box 15216
Brisbane City East, QLD 4002, Australia
Phone: 13QGOV
Web address: <https://www.business.qld.gov.au/industry/water>

Advancing Queensland – State-wide Innovation with Global Impact
Water is fundamental to the wellbeing of Queenslanders, the State's economic development and the protection of its rich natural values. Queensland government is at the forefront of innovative and pioneering policy and programs including: world leading basin management approaches that balance competing uses, a system of tradeable water entitlements, long-term planning for water security to deal with floods and droughts, diverse water services infrastructure and community water conservation and engagement programs. A key focus is managing the rivers flowing to the Great Barrier Reef to protect this natural asset. These outcomes are underpinned by collaborative contemporary science and science-to-practice partnerships.

201 C QUEENSLAND URBAN UTILITIES
Contact: Mel Anderson
Level 2, 15 Green Square Close
Fortitude Valley, Brisbane QLD 4006, Australia
Phone: +61 407 797 130
Web address: <http://www.urbanutilities.com.au>
General Email: Melissa.anderson@urbanutilities.com.au

Queensland Urban Utilities is one of the largest water distributor-retailers in Australia, supplying drinking water, recycled water and sewerage services to a population of more than 1.4 million in South East Queensland. At Queensland Urban Utilities, we have a customer-centric philosophy and a strong innovative culture. Our innovations, which include converting waste to energy, are delivering millions of dollars of operational savings,

safer work practices and better customer service. In 2015 we were named in BRW's Top 10 Most Innovative Companies List - the first time a water and sewerage provider has received the prestigious ranking.

505 RAMBOLL
Contact: Christian Nyerup Nielsen
Hannemanns Allé 53
Copenhagen, 2300, Denmark
Phone: +45 5161 1000
Web address: <http://www.ramboll.dk>
General Email: info@ramboll.com

Ramboll is a leading engineering, design and consultancy company founded in Denmark in 1945. With almost 300 offices in 35 countries we emphasise local insights combined with a global knowledge-base. Within water we build on a strong Nordic tradition of managing water resources which we combine with a solid experience from the US on assisting private and industrial companies. We can handle all project phases and our main service areas include Water Resources, Water & Wastewater Treatment, Water Infrastructure and Climate Adaptation & Flood-Risk Management.

812 REDEYE
Contact: Gavin Tye
126 Margaret St, Brisbane City
QLD 4000, Australia
Phone: +61 1300 236 673
Web address: <http://www.redeye.co>
General Email: corporate@redeye.co

Utilities worldwide struggle with engineering drawing management, exposing them to significant safety and financial risk. RedEyeDMS is the first purpose built cloud and mobile engineering drawing management solution, making it easy for people who work with engineering data to upload, find, and link relevant documents, photos and drawings together so they can work with the right information on any device with a single click. Changes in the field can be captured in real time and users can typically find any drawing in under a minute. RedEyeDMS becomes an asset owner's Single Source of Truth (SSOT) for engineering data, eliminating the inefficiency associated with people working off the wrong drawings and enabling effective, auditable collaboration between internal staff and external contractors. The simple to use mobile and web interfaces requires no training. As a SaaS solution there is no software to install or maintain. RedEyeDMS is suitable for utilities ranging from 1,000s to 1,000,000s of drawings. RedEye in configurable to the specific requirements of each utility, as determined during a scoping study. RedEye works with an organisation's existing change management processes during the transition phase.

117 ROYCE WATER TECHNOLOGIES PTY LTD
Contact: Rod Wellings
Unit 4, 30 Raubers Road
Banyo, QLD 4014, Australia
Phone: +61 428571234
Web address: <http://www.roycewater.com.au>
General Email: contact@roycewater.com.au

Royce Water Technologies is Australia's most trusted supplier of equipment for water and wastewater treatment and analysis. We supply dissolved oxygen sensors, Ametek Jofra temperature calibrators, pressure calibrators, online process analysers and sensors for water, effluent and wastewater monitoring. We distribute the leading brands in Australia for water and wastewater management - WTW (A Xylem brand), Crystal Engineering, Ametek Calibration, Chemsan® analysers, Royce Technologies, B&C Electronics, LTH Electronics and other leading brands.

305 RUBICON WATER
Contact: Tony Oakes
1 Cato Street
Hawthorn East, VIC 3123, Australia
Phone: +61 3 9832 3000
Web address: www.rubiconwater.com
General email: enquiry@rubiconwater.com

Rubicon Water is totally dedicated to improving large-scale gravity-fed irrigation systems and offers a completed integrated system from the dam to the crop. Our software, smart automated water control gates, flow meters and radio technology integrate to automate open channel and gravity pipeline distribution systems. Since 1995 we have produced over 20,000 control gates and flow meters sold in more than 10 countries.

Farmers get the water their crops need at the right time, enabling more efficient and productive use of water. And because water is moved using gravity, solar-power and software, our solutions are environmentally sustainable.

710 S::CAN MESSTECHNIK GMBH
Contact: Robert Wurm
Brigittagasse 22-24
Vienna, 1200, Austria
Phone: +43 1 219 73 93 0
Web address: <http://www.s-can.at>
General Email: office@s-can.at

s::can is the only firm in the world that has given its heart and soul to online water quality measurement. Since our foundation in 1999, nothing else has come out of our development department; nothing else has come out of our production sites. Today, our product range covers absolutely state-of-the-art measuring instruments for each individual parameter for typical applications in the areas of drinking water, waste water, environmental monitoring, and industrial applications. Whether it is a simple pH sensor or a complex spectral probe, s::can measuring instruments are intelligent and mutually compatible in s::can systems and with third-party systems.

228 SALT WATER
Contact: Darren Szczepanski
L7, 275 Alfred St
North Sydney, NSW 2060, Australia
Phone: +61420991315
Web address: <http://www.saltwatersolutions.com.au>
General Email: info@saltwatersolutions.com.au

Salt Water is the process design and simulation software developer behind the AqMB platform. AqMB Designer™ is an online, collaborative application for process design and deliverable output. In use by global consultancies and OEM's, it has been used to complete an actual design in 70 minutes where the traditional method for the same plant took 5 days. Integrated into Designer™ is SupplierLink™, a portal that connects suppliers with designers when they are ready to specify. Prophet™ is a forecasting and optimisation software securely interfacing one-way with SCADA to enable treatment plants to trend changing conditions and predict performance in advance.

305 SALTFREE DESALINATION
Contact: Brian Schulz
PO BOX 8041 Biralee Park
Wodonga, VIC 3690, Australia
Phone: +61 410 579 651
Email: sales@saltfree.com.au
Website: www.saltfree.com.au

Saltfree Desalination manufacture custom built reverse osmosis filtration units for domestic and commercial applications. Units for brackish water can process up to 10,000 ppm or saline water up to 35,000 ppm, producing 12,000- to 500,000 litres per day depending on water quality. Our products are suitable for domestic uses (including gardens, showers, and evaporative air conditioners) and commercial markets (including car washes, vineyards, hydroponic farms and cattle stations).

429 SCALENE ENERGY WATER
Contact: Jay Prabhakaran
2931 Moggill Rd, Pinjarra Hills
Brisbane, QLD 4069, Australia
Phone: +61 414 410 374
Web address: <http://www.scaleneenergywater.com>
General Email: info@scalene.org

Scalene-Energy-Water-Corporation-Limited (SEWCL) was established in 2010 as the commercial wing of Scalene-Energy-Research-Institute (SERI). SERI was established in 2002 with the aim of bringing energy self-sufficiency and sustainable growth. Many years of research has finally culminated in commercialising Aquatron™ and FPSTAR, Aquaria®, Serigas® Sparse and BioScada Technologies. SEWCL capabilities include feasibility study • sizing • design • supply of equipment • installation/erection • testing • training • operation and maintenance. SEWCL has provided turn-key solutions in different parts of the world. SEWCL aims to help proactively reduce your carbon footprint, while harnessing the immense potential of abundantly available bio resources in an eco-friendly and economical method.

Exhibitor Profiles

908F

SENEGALAISE DES EAUX (SDE)

Contact: Ndiaya Diop
Route du Front de Terre
Dakar, Afrique BP 224, Senegal
Phone: +221338393703
Web address: <http://www.sde.sn>
General Email: eau@sde.sn

History
Created in 1995, Sénégalaise Des Eaux is a private water company in charge of production and distribution for the main urban areas in Sénégal. SDE has an affermage contract with the State of Senegal.

Mission
SDE is in charge of:
- Production and distribution of drinking water in urban area nationwide,
- Invoicing of the water consumption and the collection of the costs,
- Repairs and maintenance of the water installations in Sénégal
- Customer management and communication

201 C

SEQWATER

Contact: Liz Kearins
117 Brisbane Street
Ipswich, QLD 4305, Australia
Phone: +61 418 294 662
Web address: <http://www.seqwater.com.au>
General Email: liz.kearins@seqwater.com.au

Seqwater provides safe, secure and reliable bulk drinking water to Brisbane and South East Queensland. We also provide flood mitigation services, and supply irrigation water to 1,200 farmers, as well as manage recreation facilities at 20 lakes.

We operate in a climate of extremes, with a diverse asset base including dams and weirs, conventional water treatment plants, a desalination plant and the largest recycled water scheme of its kind in the Southern Hemisphere.

We're looking for great people to join us in providing this most essential service in one of the most beautiful parts of Australia. Visit seqwater.com.au.

614

SFI AUSTRALIA

Contact: Jeremy Lewis
500 Dowling Street
Wendouree 3355, Australia
Phone: 1800734000
Web address: <http://www.sfivalvemax.com.au>
General Email: jeremy@sfiast.com.au

SFI Australia is a supplier of specialised valve maintenance equipment, hydraulic tools, automatic flushing systems to the Utilities Industry. Valvemax - Specialist supplier of valve maintenance equipment in Australia. This is high-quality and reliable equipment designed to carry out maintenance tasks to ensure water systems are operating at their highest performance levels. Civilmax Supply of the Stanley hydraulic tools range which include power packs, breakers, post pullers ground post driver, pole tamper, spike puller & driver, earth auger, chainsaws, portable water pump, concrete saws, grinders, impact wrenches, hammer drills etc

806

SINGER VALVE INC.

Contact: Mark Gimson
12850 87 Avenue
Surrey, BC V3W 3H9, Canada
Phone: +1 604-594-5404
Web address: <http://www.singervalve.com>
General Email: singer@singervalve.com

Singer Valve manufactures innovative control valve solutions for the water industry. Whether you are looking to control high pressure drops, or need built in safety back-ups for applications where failure is not an option, we have them all. We also specialize in electronic control applications - customized to your specific needs. Some of our innovative products include:

- Single rolling diaphragm technology offering superior low flow stability
- Patented hydraulically controlled flow modulation valve
- Custom engineered anti-cavitation cages
- Pressure reducing valve with integral, secondary back-up system
- Specialty pilots and options that solve the most difficult applications

908 E

SOCIETE MALIENNE DE GESTION DE L'EAU POTABLE-SA - SOMAGEP

Contact:
Rue 41, Djicoroni Troukabougou
Bamako, République du Mali
Phone: +223 20 23 75 91 / 20 22 40 30
Web address: <http://www.somagep.ml>
General Email: somagep@somagep.ml

SOMAGEP SA is a state-owned company with a board, created August 5, 2010. The capital of the company is detained, up to 100% by the state of Mali. SOMAGEP SA has the mission, as a Public utility, to operate the water service across the country as a whole, by
- collecting and processing rough water,
- processing and distributing potable water
- ensuring the control of water quality
- billing and managing customer relationship
- expanding water connections for individuals
- rehabilitating and renewing distribution networks
- maintaining all the production and distribution system and units.

908C

SOCECI

Contact: EBAH Basile
Avenue Christiani, Treichville 1
ABIDJAN, Southern +225, Cote d'Ivoire
Phone: 21 23 30 03
Web address: <http://www.sodeci.ci>
General Email: sodeci@sodeci.ci

Company profile /products and services: First private drinking water company of public service in AFRICA, certified ISO 9001.

SOCECI deal with two contracts:

1. Management of supplying drinking water throughout the country
 2. Management of providing sanitation services
- SOCECI is in charge of:
888 towns supplied, 12 million people served; 664 wells; 83 drinking water treatment plants; 13 000 Km of network; 209 million m3 produced.

Vision: Take the lead in Africa for the management of drinking water and sanitation services.

Mission: Producing and supplying drinking water; Servicing and supporting plants and facilities; Operate and maintain wastewater treatment plants and other equipment; Hydraulic study, works design and achievement.

Exhibitor Profiles

111

SOUTH AUSTRALIAN WATER INDUSTRY

Contact: David Evans
SA Water House, 250 Victoria Square
Adelaide, SA 5000, Australia
Phone: +61 8 7424 2466
Web address: <http://www.waterindustry.com.au>
General Email: getconnected@waterindustry.com.au

Water and how it is managed continues to be a critical factor underpinning South Australia's economy, environment and lifestyle. With a range of water resources, each with their own challenges, South Australia has developed a range of capabilities to manage them for economic, social and environmental purposes. South Australia's water capabilities evolved over many decades in response to key priorities and emerging issues. These competencies are spread across government, industry, research and educational institutions, ensuring a multifaceted approach to water, including internationally competitive goods and services, strategic policy, legislative frameworks and robust scientific analysis.

510

SPRINGER NATURE

Contact: Fritz Schmuhl
Van Godewijkstraat 30
Dordrecht, ZH 3311 GX, Netherlands
Phone: +31786576281
Web address: <http://www.springer.com>
General Email: fritz.schmuhl@springer.com

With more than 2,900 journals and 200,000 books, Springer Nature is a leading global scientific, technical and medical publisher, providing researchers in academia, scientific institutions and corporate R&D departments with quality content via innovative information products and services. Our interdisciplinary Water program comprises journals, books, book series and major reference works, thereby offering scientific and professional water communities throughout the world superior specialist information on all aspects of water-related research.

Find out more at: www.springer.com/water

505

STATE OF GREEN

Contact: Finn Mortensen
Vesterbrogade 1E
Copenhagen, 1620, Denmark
Phone: +45 72 100 179
Web address: <http://www.stateofgreen.com>
General Email: info@stateofgreen.com

State of Green is a not-for-profit, public-private partnership tasked with branding Denmark and the green solutions of Danish business and industry. Showcasing efficient and sustainable water solutions, Denmark will host the IWA World Water Congress and Exhibition in 2020. We are therefore interested in meeting commercial and political decision makers who are looking for water solutions of the future. We are equally interested in talking to media representatives (journalists, commentators, bloggers) in order to present the Danish case. Our platform www.stateofgreen.com is a one-point-entry for decision-makers looking for solutions within energy, environment, climate and water.

712

STEEL MAINS PTY LTD

Contact: Rodney Glocer
PO Box 191, 125-175 Patullo Lane
Melbourne, VIC 3062, Australia
Phone: +61 392173170
Web address: <http://www.steelmain.com>
General Email: customerservice@steelmain.com

Steel Mains is Australia's leading manufacturer and supplier of complete steel pipeline systems for the transportation of water and wastewater, offering a total solutions approach on its customers. The company provides leading pipe jointing technology with its renowned Ball & Socket welded joint, Sintajoint Rubber Ring Joint (RRJ) and Sintalock welded Rubber Ring Joint Systems. Steel Mains is experienced with water pipeline supply into the Middle East, Singapore and Oceania having supplied some major projects e.g. Pal Tech Abu Dhabi with 150km x 813mm OD Steel Pipe.

410

SUEZ

Contact: Emma Jefferson
Level 3, 3 Rider Boulevard
Rhodes, NSW 2138, Australia
Phone: +61 2 8775 5681
Web address: <http://www.suez.com.au>
General Email: emma.jefferson@suez.com

Water, waste-based secondary materials and energy are essential for the vitality of human activities. We provide expert water optimization services in water networks, engineering, equipment, operation and maintenance. We pioneer advanced solutions through waste water recycling and seawater desalination. We ensure waste collection and disposal and promote waste recovery to generate renewable waste based energy and secondary raw materials. We offer innovative solutions in consulting for the sustainable urban development.

518

SUMITOMO ELECTRIC INDUSTRIES, LTD.

Contact: Koji Matsunaga
4-5-33 Kitahama
Chuo-ku, Osaka
Japan
Phone: +81 6 6220 4337
Web address: <http://global-sei.com/>
General Email: poreflon-sales@info.sei.co.jp

Under the Sumitomo Spirit and the Sumitomo Electric Group Corporate Principles, which have guided us at the Sumitomo Electric Group for 400 years. In 2003, Sumitomo Electric commercialized polytetrafluoroethylene resin (PTFE) water treatment membrane modules for microfiltration (MF), and started sales of Poreflon™ Module and we are currently proposing not only Poreflon™ Module but also water treatment system for water supply, sewage and industrial wastewater.

501

SWING CORPORATION

Contact: Toru Tomioka
7-18 Konan 1-chome, Minato-ku
Tokyo, 108-8470, Japan
Phone: +81-3-6830-9075
Web address: <http://www.swing-w.com/en>
General Email: tomioka.toru@swing-w.com

Established in Japan as Ebara Corporation in 1920 and providing services in over 50 countries, Swing Corporation is a leading water solutions provider headquartered in Tokyo. We design, build, operate and maintain water and waste water treatment plants for municipal and industrial customers using the best of Japan's water and environmental technologies. Swing Corporation applies decades of experience in the operation of over 300 water treatment facilities while simultaneously building an international multidisciplinary water business to meet local and global needs, delivering water solutions in Indonesia, China, Vietnam, Malaysia and other countries.

501

TAISEI KIKO CO., LTD.

Contact: Tadahiro Yamada
Umeda Kita-ku 1-1-3-2700
Osaka, 5300001, Japan
Phone: +81-6-6344-7784
Web address: www.aiseikiko.com
General Email: overseas@aiseikiko.com

Since its foundation in 1941, TAISEI KIKO has been a pioneer in the field of water, sewage, and gas pipeline maintenance, by constantly striving to meet the needs of the industry.

310 D

TAIZHOU G-GOOD ADHESIVES CO., LTD.

Contact: Henry Chi
SHINIU, YANJIANG TOWN
LINHAI, ZHEJIANG 317022, China
Phone: +86-576-8416 2725
Web address: <http://en.g-good.com.cn>
General Email: henry@g-good.com.cn

G-Good Adhesives, established in 2005, is a product-oriented enterprise with advanced R&D power. In 2009, a 12000 m2 factory site was built including steel can manufacturing facilities. Now a 37725 m2 new site is under construction, and will be ready in 2017. Currently G-Good supplies NSF listing plastic pipe cements, industrial adhesives and structural adhesives to Europe, America, Middle East & Asia countries, and offers seamless technical & customer service. We welcome the global distribution & OEM business cooperation

931

TAYLOR AND FRANCIS

Contact: Joshua Pitt
Suite 2, Level 2, 11 Queens Road
Melbourne, VIC 3004, Australia
Phone: +61 (03) 8842 2416
Web address: <http://www.tandfonline.com>
General Email: support@tandfonline.com

Taylor & Francis partners with researchers, scholarly societies, universities and libraries worldwide to bring knowledge to life. Our content spans all areas of Humanities, Social Sciences, Behavioral Sciences, Science, Technology and Medicine, and we are one of the world's leading publishers of scholarly journals, and books.

Our network of offices has grown to include representatives in Oxford, New York, Philadelphia, Boston, Melbourne, Singapore, Beijing, Stockholm, and Johannesburg. This has enabled T&F staff to provide local expertise and support to our editors, societies and authors, as well as tailored, efficient customer service to our library colleagues in institutions around the world.

305

THE AUSSIE BLADDA TANK

Contact: Andrew Prigmore
2 Andrew Street
Mooroolbark, VIC 3138, Australia
Phone: +61 431 722 989
Email: andrew@aussiebladda.com.au
Website: www.aussiebladda.com.au

Manufactured from UV stabilised reinforced polypropylene, the Aussie Bladda Tank is a flexible tank for potable water. The tank is unique as it is compact to transport, can be tailored to fit into difficult spaces and requires no framework. Tanks can be rolled up when not in use and moved to a new location. Originally designed to collect rain water and store it in confined areas such as under a house or decking without comprising valuable space in the backyard, the Bladda has been adapted over time and is sought out by the building industry, architects and the general public looking for flexible water storage solutions.

315

THE CHOOSE TAP COALITION

Contact: Tarnya McKenzie
Lucknow Street
Mitcham, 3132, Australia
Phone: +61 3 9872 1526
Web address: <http://choosetap.com.au>
General Email: choosetap@yv.com.au

Choose Tap is the first fully integrated, community-based program of its type in the world and is designed to cause a shift in the way people, especially youth, relate to tap water. It is a multi-utility engagement program, addressing situational factors by making drinking tap water more accessible and convenient, developing awareness and involvement through multi-channel communications and activations and challenging attitudinal and values based issues around drinking tap water. Visit the Choose Tap Delegate Lounge to find out more about this program and the Choose Tap coalition partners spreading the good word on tap water across the country and beyond. Learn how you can become a Choose Tap Partner and don't forget to use the Choose Tap refill station to quench your World Water thirst.



NATIONAL WATER AND SEWERAGE CORPORATION (NWSC) – UGANDA

Continuous Improvement for sustainable and equitable service delivery

NWSC is an autonomous public utility, 100% owned by Government that is mandated to provide water and sewerage services in the major urban centers in Uganda.

Our service foot print in terms of number of towns with NWSC services has increased from 12 in 1998 to 27 in 2010 and 171 in 2016

Our vision is "To be the leading customer centered water utility in the world" and,

Our Mission: To sustainably and equitably provide cost effective, quality water and sewerage services to the delight of all stakeholders, while conserving the environment

Through our External Services Unit (ESU), we promote south-south as well as North-South Corporation and

partnership to create synergies within utility providers and ultimately improve service delivery within the region and other parts of the world.

The ESU has partnered with several utilities in Ethiopia, India, Kenya, Tanzania, Zambia, Mozambique, Nigeria, Rwanda, South Sudan, Pakistan, Sierra-Leone, Netherlands, Ghana, Bangladesh, Trinidad and Tobago and Uganda amongst others. This is made possible by the existence of a well balanced and motivated professional workforce.

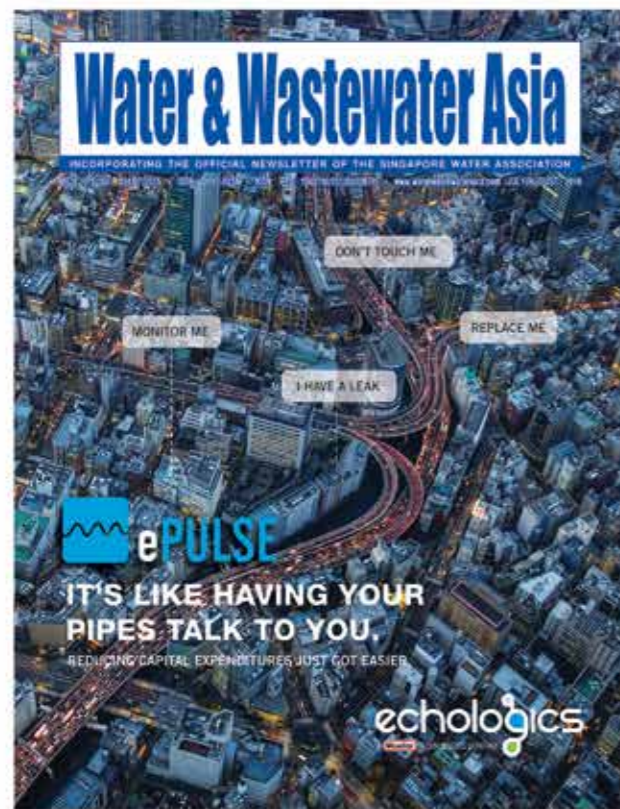
We boost of a state of the art International Resource centre located in Kampala through which it provides capacity development for our staff and partners and also a venue for international events.



Plot 39, Jinja Road P.O. Box 7053
Kampala, Uganda
Tel: (+) 256 313 315000 /111
Website: www.nwsc.co.ug,
Email: info@nwsc.co.ug,
www.facebook.com/waterug
& @nwscug

Quench Your Thirst for Knowledge with Water & Wastewater Asia!

Water is essential for life, but the world will face mounting difficulties in securing sufficient clean water as a multitude of challenges present themselves in various ways. To combat this, technologies evolve and tremendous business opportunities are expected to be generated. Hence, it has become extremely important to stay abreast of key industry happenings within the rapidly growing market. WWA works to reflect the industry and quench your thirst for knowledge and information, thus serving as your gateway to the dynamic market.



Water & Wastewater group of magazines is also available in Chinese. *Water & Wastewater China (WWC)* caters to the Chinese market. It is the ideal platform for commercial water-related specifiers and innovative water & wastewater management service and product vendors to reach out to a targeted audience in China. If you have been looking to penetrate the Chinese market, WWC is perfect for you.

Water & Wastewater Asia

Water & Wastewater Asia is a publication of **Pablo Publishing Pte Ltd**
Block 988, Toa Payoh North #07-04, Singapore 319002
Tel: (65) 6369 9119 • Fax: (65) 6369 9919 • Email: williampang@pabloasia.com
www.waterwastewaterasia.com



Exhibitor Profiles

501 THE JAPAN INSTITUTE OF WASTEWATER ENGINEERING AND TECHNOLOGY
Contact: Noriaki Fujii
3-1, Suido-cho, Shinjuku-ku
Tokyo, 162-0811, Japan
Phone: +81-3-5228-6511
Web address: <http://www.jiwet.or.jp/en>
General Email: jiwet@jiwet.or.jp

The Japan Institute of Wastewater Engineering and Technology (JIWET) is a public interest incorporated foundation established in September, 1992. Since its establishment, while accumulating knowledge and experience from the academic world, private sector and public sector, JIWET has carried out investigation, research, development and evaluation activities to solve numerous issues concerning sewerage services and striven to disseminate the results of those activities in society. Many of our achievements thus made have been utilized nationwide and increased the public interest.

2158 THE UNIVERSITY OF QUEENSLAND
Contact: Eva Abal
Sustainable Water Program – Global Change Institute
Building 20, Staff House Rd
St. Lucia, QLD 4072, Australia
Phone: +617 3443 3100
Web address: <https://www.gci.uq.edu.au/>
General Email: e.abal@uq.edu.au

The University of Queensland (UQ) is one of Australia's leading research and teaching institutions. We strive for excellence through the creation, preservation, transfer and application of knowledge. For more than a century, we have educated and worked with outstanding people to deliver knowledge leadership for a better world. The University of Queensland ranks in the top 50 as measured by the QS World University Rankings and the Performance Ranking of Scientific Papers for World Universities. The University also ranks 52 in the US News Best Global Universities Rankings, 60 in the Times Higher Education World University Rankings and 77 in the Academic Ranking of World Universities.

114 THE WATER AND CARBON GROUP
Contact: Jim Hunter
Level 4 127 Creek Street
Brisbane, QLD 4000, Australia
Phone: +61 7321 19997
Web address: <http://waterandcarbon.com.au>
General Email: enquiry@waterandcarbon.com.au

The Water and Carbon Group is a unique contractor that specialises in the design building and operation of low energy wastewater treatment and ecological infrastructure solutions.

We operate throughout Australia and service a range of clients across different industry sectors including government, utilities, councils, developers, and industry. Our team comprises process engineers and ecological engineering specialists, which gives us the ability to approach solutions from an integrated engineering and ecological perspective. We draw on a diverse range of process tools allowing us to deliver projects that are not only innovative, but achieve the lowest whole-of-life cost, with minimal energy demand.

501 TOKYO METROPOLITAN GOVERNMENT REPRESENTED BY TOKYO CONVENTION & VISITORS BUREAU
Contact: Elena Bychenkova-Maliouguina
Nissin Bldg. 6F, 346-6 Yamabukicho, Shinjuku-ku
Tokyo, 162-0801, Japan
Phone: +81-3-5579-2684
Web address: <http://www.businesseventstokyo.org>
General Email: businessevents@tcvb.or.jp

It is a great pleasure to invite you all to Tokyo for the IWA World Water Congress & Exhibition in 2018. Tokyo represents a vital crossroad where over 400 years of history and tradition meet innovation. The City offers a rich diversity of attractions, from art performances to shopping to the world-renowned Japanese cuisine. Tokyo is also known for its safety, cleanliness and hospitality. The natural friendliness and the willingness to help tourists of the Japanese people will surely make your stay in Tokyo comfortable.

501 TOKYO METROPOLITAN SEWERAGE SERVICE CORPORATION
Contact: Seiko Hayashida
2-6-2 Otemachi, Chiyoda-ku
Tokyo, 100-0004, Japan
Phone: +81-3-3241-0869
Web address: <http://www.tgs-sw.co.jp/>
General Email: seiko-hayashida@tgs-sw.co.jp

Tokyo Metropolitan Sewerage Service Corporation (TGS:Tokyo Gesuidou Service) was established in 1984 by applying the funds and technologies of the Tokyo Metropolitan Government and private companies into practical use. Since TGS was established, we have been a group of professional sewerage engineers in fields such as civil engineering, electricity, machinery, and water quality, and are recognized as a reliable contractor for maintenance of sewerage facilities. Now TGS has become an indispensable partner of Bureau of Sewerage, Tokyo Metropolitan government. We are also actively working in concert with the Tokyo Metropolitan Government to improve the world's water environment.

501 TSS TOKYO WATER CO., LTD.
Contact: Naoyuki Yonekawa
6-14-1, Nishi-Shinjuku, Shinjuku-ku
Tokyo, 160-0023, Japan
Phone: +81-3-5320-9423
Web address: <http://www.tssk.jp/eng/>
General Email: yonekawa-naoyuki@tssk.jp

TSS Tokyo Water Co., Ltd. (TSS) is partner of the Bureau of Waterworks Tokyo Metropolitan Government. TSS has carried out projects utilizing mainly Non-Revenue Water reduction technology around the world, with the focus on South East Asia. (Malaysia, Myanmar, etc.) Our original TS Leak Checker, portable and compact with a sensor integrated, is designed to enable leak detection in 2 seconds at the minimum and has greatly boosted the efficiency of leak detection. We have excellent reputation among domestic and international water sectors.

505 UNISENSE A/S
Contact: Kirsten Habicht
Tueager 1
Aarhus, 8200, Denmark
Phone: +45 894 495 00
Web address: <http://www.unisense.com>
General Email: sales@unisense.com

The Microsensor Company! Measure O₂, H₂S, N₂O, pH, H₂ and more on a micrometer scale. Unisense supplies advanced sensor technologies for biofilm, corrosion and other research applications. Key sensor technologies include N₂O, H₂S, pH and Oxygen. Unisense was established in 1998 and has a long track-record including more than 1500 peer-reviewed publications using our technology. We provide high-performance microsensors and complete measuring systems for a full range of applications in environmental research. Unisense co-exhibit with our daughter company Unisense Environment who is bringing N₂O and H₂S sensors to the wastewater and industrial market.

505 UNISENSE ENVIRONMENT A/S
Contact: Ebbe Kruse Vestergaard
Tueager 1
Aarhus N, 8200, Denmark
Phone: +45 8944 9500
Web address: <http://www.unisense-environment.com>
General Email: sales@unisense.com

Unisense Environment was established in 2013 as a spin-off from Unisense A/S - the world leading manufacturer of microsensors for environmental research. Unisense Environment brings sensors traditionally used for research into industrial applications. Unisense Environment supplies a new advanced N₂O sensor which could reduce the climate impact of wastewater treatment dramatically. The N₂O Wastewater System is the world's first sensor system for measuring N₂O directly in the treatment processes and estimating the atmospheric emission. Furthermore, Unisense Environment is developing a novel sensor for liquid phase measurement of hydrogen sulphide in sewer networks.

201 C UNITYWATER
Contact: Alice Champion
Level 2, 6-10 Maud Street
Maroochydore, QLD 4558, Australia
Phone: +61 418 679 450
Web address: <http://www.unitywater.com>
General Email: alice.champion@unitywater.com

Unitywater provides high quality, safe and reliable sewage collection and treatment services and clean drinking water to Moreton Bay, Sunshine Coast and Noosa communities in South-East Queensland. We manage more than 300,000 customer accounts and operate \$3.2 billion of essential service infrastructure for more than 765,000 people – that's 16.3% of Queensland's population. We work 24 hours a day, seven days a week to provide a constant service for our customers who are at the heart of everything we do. All of our activities meet strict environmental guidelines and we are passionate about preserving our environment for generations to come.

312 UNSW GLOBAL WATER INSTITUTE
Contact: Nick Schofield
UNSW, Valentines Annex (H22)
Kensington, NSW 2052, Australia
Phone: +61 2 9385 5097
Web address: <http://www.globalwaterinstitute.unsw.edu.au>
General Email: gwi@unsw.edu.au

The Global Water Institute embodies multidisciplinary water research, education, innovation and problem solving. With over 400 specialists, we offer the following key capabilities:
Water/wastewater management: treatment, recycling, membranes, trace organics, physicochemical processes, odorous/gaseous emissions, cyanobacteria, risk assessment.
Water resource management: groundwater, hydroclimatology, flood management, climate change/variability.
Coastal and estuarine management: civil/eco-engineering, hydraulics, sediments.
Aquatic ecosystems/biodiversity: river/wetland management, biomonitoring, conservation practice, marine bio-innovation.
Public health and social science: health services, environmental humanities.
Policy and sustainability: water governance, planning, institutional capacity, sustainability assessment.
Industry specialisations: aquaculture, fisheries, agriculture, mining, coal seam gas, water utilities.
Education: world leading PhD and international student programs.

812 UVS TRENCHLESS
Contact: name
Street name, number
City, zip code. Country
Phone:
Web address:
General Email:

UVS Trenchless Technology, (a BlueZone Group company), develops, supplies and services reliable equipment used for condition assessment of pipeline networks and water resources. UVS is home to the innovative SewerSerpent™ that uses Extra-low Voltage (<50Vac) electricity to quickly and accurately locate leaks in sewer pipelines. SewerSerpent™ can be used to locate leaks that are the source of exfiltration and inflow/infiltration problems in sewer networks and can locate leaks that CCTV cameras cannot detect by visual inspection alone. UVS application engineering develops innovative solutions for customer needs including specialised systems for long-range pipeline inspection.

Exhibitor Profiles

505

VCS DENMARK

Contact: Henrik Werchmeister
Vandværksvej 7
Odense, 5000, Denmark
Phone: +45 631 323 33
Web address: <http://www.vcsdenmark.com>
General Email: info@vandcenter.dk

VCS Denmark is the third largest water and wastewater utility in Denmark. We operate 6 waterworks, 14 wastewater treatment plants and 3400 km of water and wastewater pipeline network.

VCS Denmark is known as a frontrunner in the Danish water and wastewater sector. We have supplied the city of Odense with clean drinking water since 1853, and as a company, we embody more than 150 years of experience in water supply and wastewater management. Today we are a modern water and wastewater utility with 185 employees, all highly skilled professionals within their field.

121

VERMEER EQUIPMENT HOLDINGS PTY LTD

Contact: Ken Smith
15 Fulcrum Street
Mount Ommaney, Brisbane, Australia
Phone: 1300 837 6337
Web address: <http://www.vermeer.com.au>
General Email: sales@vermeer.com.au

Vermeer Australia is part of the worldwide dealer network of Vermeer Corporation, a manufacturer based in Pella, Iowa, comprising over 3,000 people in 60 nations. We deliver real impact on our customer's productivity and profit through the provision of high-quality construction, environmental and surface mining equipment and the support of a nationwide network of factory trained and certified dealerships.

Our Australian dealer network spans the entire east coast, with our localised sales, parts and service teams offering an unmatched level of customer support.

510

VEWIN

Contact: Dieneke Krijbolder
Bezuidenhoutseweg 12
Den Haag, ZH 2594 AV, Netherlands
Phone: +31703490850
Web address: <http://www.vewin.nl>
General Email: info@vewin.nl

Vewin is the association of drinking water companies in The Netherlands. Vewin represents the common interests of its member utilities in national and international politics and institutions. Ten drinking water companies provide water of outstanding quality for almost 17 million inhabitants and 8 million connections. Their unique selling point is the absence of chlorination, due to a long-standing focus on water quality from source to tap. Dutch drinking water is for 60% produced out of ground water and for 40% out of surface water. Besides on water quality, the sector focusses on providing sustainable and efficient services to the customer.

305

VICTORIAN GOVERNMENT – DEPARTMENT OF ECONOMIC DEVELOPMENT, JOBS, TRANSPORT AND RESOURCES

Contact: Elise Coughlin
121 Exhibition Street
Melbourne, VIC 3000, Australia
Phone: 13 22 15
Web address: www.business.vic.gov.au
General email: trade@ecodev.vic.gov.au

The Department of Economic Development, Jobs, Transport and Resources (DEDJTR) is the Victorian Government's lead agency for creating the conditions to sustainably develop the Victorian economy and grow employment. Our role is to increase jobs, investment, exports and opportunities; stimulate innovation, competitiveness, and confidence; and support sustainability.

Trade Victoria, which sits within DEDJTR, has primary responsibility for supporting Victorian exporters, strengthening linkages with international businesses, providing high level international market intelligence, improving access to overseas markets and increasing the capabilities of Victorian businesses to compete internationally.

305

VICTORIAN GOVERNMENT - DEPARTMENT OF ENVIRONMENT, LAND, WATER AND PLANNING

Contact: Suzanne Knight
8 Nicholson Street
East Melbourne, VIC 3002, Australia
Phone: +61 3 9637 9453
Web address: <http://www.delwp.vic.gov.au>
General Email: <http://www.delwp.vic.gov.au/about-us/contact-us>

The Department of Environment, Land, Water and Planning (DELWP) creates liveable, inclusive and sustainable communities that support jobs and growth in Victoria. We recognise the link between the built and natural environment in the quality of our lives, and work to accommodate population growth while maintaining world class liveability and protecting our heritage for future generations. The Water and Catchments Group of DELWP manages Victoria's water resources in partnership with a network of government agencies and water authorities. We manage groundwater, catchments and waterways, infrastructure, water saving and re-use projects, flood management, governance and water legislation. Our expertise ranges from river hydrology and environmental science to water engineering, planning and specialist industry technologies.

313

VINIDEX

Contact: Ian Paterson
224 Musgrave Road
Coopers Plains, QLD 4108, Australia
Phone: +61407622552
Web address: <http://www.vinidex.com.au>
General Email: ipaterson@vinidex.com.au

Vinidex is Australia's leading supplier of PVC, PP and PP piping systems for the transportation of water and sewage.

Since humble beginnings in 1960, Vinidex has built an enviable reputation based on quality, service, innovation and performance, and employs over 600 staff across Australia. In 2014 Vinidex became part of the Aliaxis Group, a global leader in the manufacture of plastics pipes and fittings. Aliaxis operates in over 40 countries, has more than 100 manufacturing and commercial entities and employs 15,700 people.

With state-of-the-art facilities around Australia, Vinidex will continue to lead the industry in the delivery of pipeline systems.

310 B

VONTRON MEMBRANE TECHNOLOGY CO., LTD.

Contact: Ailsa Zhou
T1-1108 Xihuan Plaza, No. 1 Xizhimenwai Street
Beijing, 100044, China
Phone: +86-10-58301837
Web address: <http://www.vontron.com>
General Email: zhoual@vontron.com

Vontron Membrane Technology Co., Ltd. is specialized in R&D, manufacture and technical service of RO and NF membrane elements. Owing the core technology and capability for fabrication of membrane sheet, Vontron is the biggest professional manufacturer of compound RO membranes in China, and is the provider of system design and applied service with powerful technical support. Vontron will be, as always, carrying out the corporate spirit of "Surmounting ourselves and pursuing endlessly", bringing forth the new products from the old ones, and devoting ourselves to the establishment of elite products for the enviro-tech era.

216E

WATER360

Contact: Don Alcock
P.O. Box 10907, Queen Street
Brisbane, QLD 4000, Australia
Phone: +61 7 3028 7652
Web address: [d.alcock@watersecure.com.au](http://www.water360.com.au)
General Email: <http://www.water360.com.au>

Water360 is a new international water education and engagement toolkit managed by Australian Water Secure Innovations Ltd (WaterSecure Innovations), a not-for-profit company formed with support by the Australian water industry. Water360 products are based on extensive R&D to help drive innovation and efficiency for the water industry, in Australia and internationally. Water360 products help water utilities and organisations with their community education and customer engagement programs. A range of videos, animations, guides and interactive maps can be used and adapted for websites, displays, e-learning, workshops, forums, and social media.

Water360 has been developed with support by the Australian government, and the water industry in Australia and the United States. Products are widely applicable to the international water community. Used individually or together, they help enhance industry focus on integrating the full water cycle into urban water supply management. Commencing in 2016, WaterSecure Innovations is also focused on WaterVal – streamlined water treatment technology validation
<http://www.watersecure.com.au/engage>

510

WATER ALLIANCE

Contact: Juliette Douglas
PO box 7560, Agora 4
Leeuwarden, Friesland 8934 CJ, Netherlands
Phone: +31 58 2849044
Web address: <http://www.wateralliance.nl>
General Email: j.douglas@wateralliance.nl

The water Alliance is a unique partnership of public and private companies, government agencies and knowledge institutes involved in the watertechnology industry in The Netherlands. The Water Alliance is partner in business at the WaterCampus in the Netherlands. The WaterCampus is the meeting point of the European Water technology sector. The WaterCampus offers a unique research infrastructure and is a meeting point for scientists and companies from all over Europe.

814

WATER ENVIRONMENT FEDERATION (WEF)

Contact: Laila Sukkariyyah
601 Wythe Street
Alexandria, Virginia 22314, United States
Phone: +1-703-684-2400
Web address: <http://www.wef.org>
General Email: inquiry@wef.org

The Water Environment Federation (WEF) is a not-for-profit technical and educational organization of 33,000 individual members and 75 affiliated Member Associations (MAs) representing water quality professionals around the world. Since 1928, WEF and its members have protected public health and the environment. As a global water sector leader, our mission is to connect water professionals; enrich the expertise of water professionals; increase the awareness of the impact and value of water; and provide a platform for water sector innovation.

Exhibitor Profiles

216G

WATER RESEARCH AUSTRALIA

Contact: Angela Gackle
L3, 250 Victoria Square

Adelaide, SA 5000, Australia
Phone: +61 8 410 585 038
Web address: <http://www.waterra.com.au>
General Email: angela.gackle@waterra.com.au

Water Research Australia Limited (WaterRA) is a highly-effective not-for-profit company, established and supported by members to initiate and manage collaborative research. Our research scope encompasses a wide range of water management issues in urban, regional and remote water. Research is vital for the water industry to underpin decision-making processes with evidence-based science. WaterRA delivers significant benefits to the water industry, the research community and regulatory bodies by:

- Facilitating networking between industry, researchers and regulators
- Advocating for safe water on the national agenda
- Funding and managing research
- Encouraging knowledge sharing
- Developing future industry professionals

102

WATER SERVICES ASSOCIATION OF AUSTRALIA (WSAA)

Contact: Adam Lowell
Level 8, Suite 802, 401 Docklands Drive
Docklands, VIC 3008, Australia
Phone: +61 3 8605 7666
Web address: <http://www.wsaa.asn.au>
General Email: info@wsaa.asn.au

The Water Services Association of Australia (WSAA) is the peak industry body representing the urban water industry and represents over 65 public and privately owned water or water related organisations. Our members provide water and sewerage services to over 20 million customers in Australia and New Zealand and many of Australia's largest industrial and commercial enterprises. Based around our vision of 'customer driven, enriching life', WSAA facilitates collaboration, knowledge sharing, networking and cooperation within the urban water industry. We are proud of the collegiate attitude of our members which has led to industry-wide approaches to national water issues.

422

WATERBIZ

Contact: Amir Cohen
PO Box 21349
Tel Aviv, 61212, Israel
Phone: +97236959352
Web address: <http://www.intwater.com>
General Email: amircoen@inter.net.il

A globally circulated magazine, provides a complete coverage of the water resource management and water resource maintenance.

The international stage for global news, professional articles, analysis, stories of the hottest issues of the water sector.

A professional source, overlapping, accurate and current source for Israeli companies and Israeli developments in the water technology sector.

Distributed to thousands of subscribers worldwide: corporations, governments, municipalities, companies, distributors and agents in the water resource management and maintenance as well as at the most professional and important exhibitions of the water sector worldwide. Emphasizes the advantages of quality, research, and development of Israeli brands.

815

WATERGROUP

Contact: Matthew Searles
15/33 Ryde Road
Pymble, NSW 2073, Australia
Phone: +61294998795
Web address: <http://www.watergroup.com.au>
General Email: water@watergroup.com.au

WaterGroup is Australia's leader when it comes to saving water – and money! Consulting. Water Loss Management. Turn-Key Delivery. Performance Contracting. Smart Metering. From critical pipeline monitoring and total network management to smart metering and active leak detection, we have access to the best equipment available. Our industry knowledge and practical experience allows us to help you select and implement the correct solution for your needs. WaterGroup is proud to be the distributor of quality German made SebaKMT products (a member of the Megger Group).

513

WATERSHARE

Contact: Theo van den Hoven
PO Box 1072
Nieuwegein, UT 3430 BB, Netherlands
Phone: +31650685167
Web address: <http://www.watershare.eu>
General Email: info@watershare.eu

Watershare is an international network that brings together knowledge and expertise in the form of Communities of Practice, within which knowledge institutions from all over the world carry out projects jointly and exchange tools in the field of the public water sector. The user-friendly expert tools, which the members develop themselves, find applications in a variety of areas, such as water management, water treatment and transport, water quality and health, and sustainability. Through the wide application of models and methods within Watershare, the collaborating knowledge institutions are able to better serve their end-users. KWR is the founding father of Watershare.

216B

WETT RESEARCH CENTRE, RMIT UNIVERSITY

Contact: Veeriah Jegatheesan
124 La Trobe Street
Melbourne, VIC 3000, Australia
Phone: +613 9925 0810
Web address: <https://www.rmit.edu.au/research/research-institutes-centres-and-groups/research-centres/wett-research-centre>
General Email: wett.researchcentre@rmit.edu.au

Researchers in the Water: Effective Technologies and Tools (WETT) Centre at RMIT University work with government, industry and the community to provide a secure, sustainable supply of safe, clean water with minimal impact on the environment. WETT researchers provide a unique multidisciplinary approach to solving problems and assisting practitioners to develop and implement sustainable water management practices. Our research covers three key areas: Water and wastewater treatment, Water resources and management, Biosolids management and bioenergy generation, and includes improving process efficiency, development of new monitoring methods, resource reclamation, and utilisation of renewable energy. Tailored training programs can also be provided.

401 / 812

XYLEM INC.

Contact: name
Street name, number
City, zip code, Country
Phone:
Web address: <http://www.xylem.com/>
General Email:

Xylem. Derived from classical Greek, our name refers to the supporting tissues that help transport water and nutrients from a plant's roots to its leaves.

To the people of Xylem, our name stands for our promise to live our values while solving our customers' most challenging water problems, and to set industry standards for fluid technology applications and water solutions.

Xylem comprises five growth centers – Transport, Treatment, Dewatering, Analytics and Applied Water Systems. These businesses are interconnected, anticipating and reflecting evolving needs and sharing their applications expertise to cover every stage of the water cycle.

501

YOKOHAMA WATERWORKS BUREAU

Contact: Ryoko Enari
23 Yamashita-cho, Naka-ku
Yokohama, Kanagawa 231-0023, Japan
Phone: +81-45-663-0161
Web address: <http://translate-en.city.yokohama.lg.jp/suidou/>
General Email: su-kokusaijgyo@city.yokohama.jp

The City of Yokohama, second largest city in Japan has been nominated by the World Bank as one of the first six global best practice Eco2 Cities which balance ecological sustainable development and economic urban growth.

Japan's modern waterworks and sewerage systems originated in Yokohama in 1887 and now the City of Yokohama 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, making use of advanced technology of private sector and knowhow of public sector in planning, construction, operation & maintenance, and management.

Lined area for notes.



Queensland – Statewide Innovation with Global Impact

Water is fundamental to the wellbeing of Queenslanders, the State’s economic development and the protection of its rich natural values. The Queensland Government is at the forefront of innovative and pioneering policy and programs including: world leading basin management approaches that balance competing uses, a system of tradeable water entitlements, long-term planning for water security to deal with floods and droughts, diverse water services infrastructure and community water conservation and engagement programs. A key focus is managing the rivers flowing to the Great Barrier Reef to protect this natural asset. These outcomes are underpinned by collaborative contemporary science and science-to-practice partnerships.

www.qld.gov.au



Australia

water partners for development

Australia – water partners for development – brings together Australian public and private sector organisations to share its experience in the sustainable and equitable management of water resources internationally. Our exhibition and speaking program highlights Australia’s achievements in water policymaking, weather and water information and forecasting, water resource assessment, and river basin planning and operations. It showcases the science, tools and services that deliver a reliable picture of Australia’s water resources to inform the development of policies and strategies for effective water resource management.

Visit our gateway to Australian expertise and technology and discuss ways to improve water security and manage water to sustain livelihoods and economic well-being in your country.

www.waterpartnership.org.au/event/wwce | Join the conversation #DroughtAction

© Photo by Dave Kan | Sunshine Coast, Queensland, Australia



Australian Government
Department of Foreign Affairs and Trade
Department of Agriculture and Water Resources
Bureau of Meteorology

Principal Sponsor

