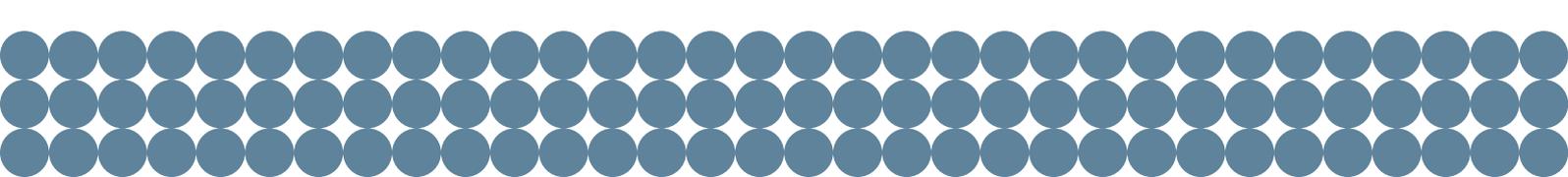


WATER CONVENTION ADVANCE PROGRAMME



REGISTRATION FOR WATER CONVENTION OPENS IN JANUARY 2014.
VISIT WWW.SIWW.COM.SG/WATER-CONVENTION FOR MORE INFORMATION.

WATER CONVENTION IS
JOINTLY ORGANISED BY:



SINGAPORE INTERNATIONAL WATER WEEK

Singapore International Water Week (SIWW) is the global platform to share and co-create innovative water solutions. Understand how sustainable water management is essential for liveable cities and shape the future of water and cities at SIWW 2014, the world's only integrated event on water and urban sustainability. Be part of a whole suite of activities focused on business, networking and innovative solutions.

In line with global water industry trends and opportunities, SIWW 2014 will feature discussions on five themes, namely Municipal Water, Industrial Water, Integrated City-Environment-Water, and Future of Water. The event's flagship programmes include the Lee Kuan Yew Water Prize, Water Leaders Summit, Water Convention, Business Forums, Water Expo, TechXchange and Industrial Water Solutions Forum.

PROGRAMME AT A GLANCE

Date	Morning	Late Morning	Afternoon	Late Afternoon	Evening	
Sunday 1 June	World Cities Summit City Showcase				Opening Ceremony & Welcome Reception Guest-of-Honour: Mr Lee Hsien Loong, Prime Minister of Singapore	
			WCS, SIWW & CESS Site Visits			
	World Cities Summit Mayors Forum (By Invitation Only)		10th Asia Pacific Infrastructure Ministers Meeting (By Invitation Only)			
			World Cities Summit Programme			
	Water Convention Hot Issues Workshops					
Monday 2 June	TechXchange (By Invitation Only)				Lee Kuan Yew Water Prize Award Ceremony & Banquet Guest-of-Honour: Dr Tony Tan, President of Singapore	
	Water Expo, World Cities Summit City Showcase & WasteMET Asia					
	In-Conversation	Opening Plenary	Lee Kuan Yew World City Prize Lecture & Singapore Water Lecture	Water Convention Poster Presentation		
				World Cities Summit Programme		
			CleanEnviro Summit Programme			
		United Nations Secretary-Generals' Advisory Board on Water and Sanitation 22nd Meeting (By Invitation Only)				
Tuesday 3 June	Water Expo, World Cities Summit City Showcase & WasteMET Asia				Networking Events by Partners & Sponsors	
	60 Minutes with Water Leaders	Water Leaders Roundtable	Water Leaders Dialogues	Water Leaders Summit Closing Session		
	Water Convention					
	World Cities Summit Programme					
	CleanEnviro Summit Programme					
Wednesday 4 June	United Nations Secretary-Generals' Advisory Board on Water and Sanitation 22nd Meeting (By Invitation Only)				Closing Dinner	
	Water Expo, World Cities Summit City Showcase & WasteMET Asia					
	China Forum and India Forum					
	Water Convention					
	Business Forums					
	Industrial Water Solutions Forum					
	World Cities Summit Site Visits					
	World Cities Summit Programme					
CleanEnviro Summit Programme						
Thursday 5 June	United Nations Secretary-Generals' Advisory Board on Water and Sanitation 22nd Meeting (By Invitation Only)					
	SIWW Site Visits					

WATER CONVENTION 2014

The Water Convention will provide a platform for water professionals to address contemporary challenges by sharing experiences, case studies, practical applications of technological solutions, and management strategies that will improve the efficiency and effectiveness of water and wastewater systems as well as examine issues related to municipal and industrial water sustainability and urban planning.

The Water Convention 2014 continues to sustain dialogue on a wide range of topics along five themes:

1. Delivering Water from Source to Tap
2. Effective and Efficient Wastewater Management
3. Water for Liveability and Resilience
4. Water Quality and Health
5. Water for Industries

Water for Industries is the latest addition to the Water Convention. It serves to highlight the importance of affecting change in the way water and wastewater is used and managed by the industrial sector, which has been identified as the second largest water consumer in the world. Industries worldwide have been forced to search for innovative solutions to improve water sustainability across the value chain. Though currently accounting for up to 25% of the world's water consumption, many industries have yet to implement sustainable water management practices within the sector. This aims to raise awareness and pool ideas to improve industrial water sustainability.

PROGRAMME COMMITTEE

Harry Seah	Chief Technology Officer, PUB (Singapore)
Darryl Day	Executive Director, Energy Policy, Department of Mines and Energy (Australia)
Adam Lovell	Executive Director, Water Services Association of Australia (Australia)
Alan Baird	Senior Water Supply and Sanitation Specialist, Asian Development Bank (Philippines)
Albert Janssen	Manager Water R&D, Global R&D Coordinator Water Handling, Shell (The Netherlands)
Andrew Shaw	Global Practice and Technology Leader in Sustainability and Wastewater, Black & Veatch (USA)
Anusuyah Bai S.K. Sivalingam	Head of Asset Management Unit, Indah Water Konsortium (Malaysia)
Chong Hou Chun	Director, Water Supply Network, PUB (Singapore)
D.V. Darshane	Director, Policy, Product & Technology, The Coca-Cola Company (USA)
Enrique Lopez Calva	Technical Director, Neysadurai Centre for Integrated Urban Solutions, CDM Smith (USA)
Glen Trickle	Head of R&D for Treatment Business Unit, Xylem (USA)
Jerry Liu Jianlin	Vice President, Water – Process and Technology, Sembcorp Industries Ltd (Singapore)
Johan Groen	Vice President, Head of Dewatering Business Line, Outotec Corporation (Finland)
Jonathan Clement	CEO, PWN Technologies (The Netherlands)
Marion Savill	Executive Director, Affordable Water (New Zealand)
Martin Wagner	Professor, Technical University of Darmstadt (Germany)
Ong Choon Nam	Director, NUS Environmental Research Institute, National University of Singapore (Singapore)
Pascal Dauthuille	Director, Projects, CIRSEE, Suez Environnement (France)
Paul Reiter	Strategy Advisor, International Water Association (Singapore)
Ramon Alikpala	Chairman, Metropolitan Waterworks and Sewerage System (Philippines)
Robert Bos	Senior Advisor, International Water Association
Robert Skinner	Professorial Fellow, Centre for Water Sensitive Cities, Monash University (Australia)
Tao Li	Director, IWA China Regional Office, International Water Association (China)
Tsui Wai	Deputy Director, Drainage Services Department (Hong Kong)

MESSAGE FROM THE EXECUTIVE DIRECTOR OF ENVIRONMENT & WATER INDUSTRY PROGRAMME OFFICE (EWI)



Chew Men Leong

Executive Director,
Environment and Water Industry
Programme Office &
Chief Executive, PUB Singapore

It is with great pleasure that I invite you to attend Singapore International Water Week (SIWW) 2014, which will be held from 1–5 June 2014 at the Sands Expo and Convention Centre, Marina Bay Sands in Singapore.

The global platform for the sharing and co-creation of innovative water solutions, SIWW attracts decision makers across the entire water value chain, allowing the global water industry to collaborate on new market opportunities. The highlights of SIWW include the Water Convention, Water Leaders Summit, Water Expo, Business Forums as well as the presentation of the Lee Kuan Yew Water Prize, a prestigious international award that acknowledges outstanding contributions towards solving the world's water issues.

In September last year, over 180 water leaders from 46 countries took part in the inaugural SIWW Water Utilities Leaders Forum (SWULF), a two-day forum that identified key challenges and solutions for water utilities. It was clear that there are issues for utilities to overcome, and that collaborations between multiple stakeholders such as the urban planners, agriculture, environment, energy and the manufacturing industries, will be required to meet these challenges. We will continue these conversations at SIWW 2014 with a larger audience of policymakers, industry leaders and researchers.

The fifth edition of SIWW in 2012 achieved a new record of more than 19,000 participants from 104 countries and regions. \$13.6 billion in total value of announcements on projects awarded, tenders, investments, and R&D MOUs were made at the event as well. This year, we look forward to meeting a diverse group of delegates to discuss water issues with an integrated Cities-Water-Environment approach. You can also expect to see a greater focus on industrial water solutions, the commercialisation of innovative technologies, as well as stronger youth engagement.

I would like to thank the Water Convention Programme Committee for their strong support of the event. Comprising key leaders from the global water industry, an exciting programme that will create thought-provoking water dialogues has been planned. In addition, I would like to express my appreciation to the International Water Association, our strategic partner for the last six years, who has worked with us to grow the Water Convention into an important platform that stimulates in-depth discussions on emerging water issues and provides networking opportunities for water professionals, industry leaders and practitioners. I am confident that together with the other flagship events at SIWW, the Water Convention 2014 will continue to provide a rewarding experience for everyone.

I look forward to seeing you in Singapore in June 2014.

MESSAGE FROM THE PRESIDENT OF THE INTERNATIONAL WATER ASSOCIATION (IWA)



Glen T. Daigger, Ph.D., P.E., BCEE, NAE

President,
International Water Association

As the Singapore International Water Week (SIWW) transitions to its biennial format in 2014, the International Water Association (IWA) is very pleased to continue its long-standing collaboration as a strategic partner and co-organiser, with PUB, of the Water Convention.

The Water Convention retains its highly successful format, but this year it extends its content to explicitly address industrial water issues. The programme includes the highly successful Sunday workshops; the Tuesday morning plenary; and parallel sessions on water and wastewater treatment, Cities of the Future, and public health. This format is supplemented this year with a Sunday workshop focused on industrial water issues, inclusion of industrial water issues in the Tuesday morning plenary, and an additional full parallel technical track specifically addressing industrial water topics. These additions provide content which will enrich the experience of those interested in both traditional and industrial topics. These topics, coupled with the Expo, will provide an extremely interesting programme for those interested primarily in industrial topics. The expanded programme will attract a wider range of professionals which will enrich the exchange of knowledge and experience for all.

Through the SIWW Water Convention, IWA in collaboration with PUB has successfully established a leading platform for showcasing and generating discussions on best practices and proven applications to solve water problems in the highly urbanised environments in Asia. This is extended in 2014 to include industrial water and to deliver a high quality programme in the 2014 Water Convention that will allow water sector experts and professionals to share knowledge, exchange experiences, and learn from one another to improve water and wastewater services delivery.

Those of you interested in urban and industrial water issues are kindly invited to attend and participate in the Water Convention at the 2014 SIWW. You will benefit from the knowledge and experience of others and contribute yours to the overall discussion.



MESSAGE FROM THE CO-CHAIRS OF THE WATER CONVENTION 2014 PROGRAMME COMMITTEE



Harry Seah
Chief Technology Officer,
PUB Singapore



Darryl Day
Executive Director,
Energy Policy,
Department of Mines and
Energy, Australia

In March 2012, the World Health Organisation reported that the Millennium Development Goal (MDG) of halving the proportion of people without sustainable access to safe drinking water had been met, in advance of the 2015 deadline. This was very encouraging news, but it also serves to remind us that there is still much work to be done, as there remains approximately 10% of the global population who do not have such access to safe water, and sanitation still lags far behind the targets.

It is heartening then that during the Water Convention 2014 Call for Papers, we received more than 500 papers from 58 countries on topics such as water and wastewater technology and operations, the creation and management of sustainable and liveable cities, and water quality and health. This overwhelming response shows that the world's water professionals are working hard on water solutions for a sustainable world and the Water Convention is fulfilling its goal as a leading platform to share and co-create innovation water solutions. We would also like to thank you for your continued support for the Water Convention.

With such a large number of high quality abstracts to choose from but a limited number of presentation slots available, the Programme Committee had a tough task of deciding on the final programme. This year is also the first in which we are introducing a new theme on "Water for Industries", to

reflect the growing importance of engaging the industries, who are the second largest water consumers in the world. We are confident that you will find the Water Convention 2014 programme an interesting and highly relevant one.

Besides the technical sessions, the Convention will feature a dedicated Poster Presentation Session, a popular event with delegates and presenters engaging in lively discussions. Another feature of the Water Convention which delegates can look forward to is the *Hot Issues Workshop* series. For 2014, we will explore a range of issues such as sustainable water solutions for industrial precincts, water resilient cities, mainstream deammonification, potable water reuse, and water supply for extreme events. Each of the workshops will feature panel discussions and promises to be an interesting platform for lively exchange of ideas and opinions between the panel of experts and delegates.

The Water Convention 2014 programme is shaping up to be an exciting one, with presentations that are highly relevant to our current water challenges. We hope you will take this opportunity to join us to share your experiences and contribute your know-how, so we can create liveable and sustainable cities collectively as a global water community. We look forward to welcoming you to the Singapore International Water Week's Water Convention in June 2014.



WATER CONVENTION 2014 PROGRAMME

SESSIONS	Theme 1: Delivering Water from Source to Tap		Theme 2: Effective and Efficient Wastewater Management		Theme 3: Water for Liveability and Resilience	Theme 4: Water Quality & Health	Theme 5: Water for Industries
	(A) Networks	(B) Treatment	(A) Treatment Processes & Energy Recovery	(B) Asset Management & Resource Recovery			
Sunday 1 June	Water Convention Hot Issues Workshops						
	Opening Ceremony and Welcome Reception						
Monday 2 June	In Conversation						
	Opening Plenary						
	Singapore Water Lecture						
	Water Convention Poster Presentation Session						
Tuesday 3 June	Water Convention Keynote Session						
	Asset Management and Optimisation	Membrane Innovations	Membrane Bioreactor Technologies	Sewerage Asset Management	Embedding Water Thinking in Urban Planning	Water Safety Plans	Technologies for Reuse, Recovery & Recycling
	Intelligent Water Network – Water Quality Monitoring	Membrane Application and Operations	Biofilm Technologies	Urban Drainage Management	Water for Liveability	Protecting Source Water Quality	Innovative Technologies – Food & Beverage Industry
	Intelligent Water Network – Sensor Technologies	Membranes in the Future	AB Process	Decentralised Water Technologies	Integrated Water Management for Resilience I	Monitoring & Tracking of Contaminants	Delivering Success in Operations
Wednesday 4 June	Operation and Maintenance of Innovative Decentralised Systems	Addressing Pathogens and Emerging Contaminants	Energy-Water -Waste Nexus 1	Reuse	Integrated Water Management for Resilience II	Contaminants of Emerging Concern – Detection Methods	Business Case of Water Sustainability
	Non-revenue Water	Water Reuse Advancements	Energy-Water -Waste Nexus 2	Resource Recovery	Integrated Water Management for Resilience III	Contaminants of Emerging Concern – Management & Treatment Technologies	Water Solutions for the Oil & Gas Industry
		Sustainable Treatment for Cities of the Future	Energy Savings in Wastewater Treatment Plants	Anaerobic Digestion	Getting All Stakeholders on Board – Engagement Strategies	Have We the Tools? Assessment, Management and Monitoring in WSPs	Innovative Technologies – Mining Industry
		Applying Leading Edge Technologies	Aerobic Granular Sludge	Biosolids	The Right Institutional and Governance Arrangements (Panel Discussion)	Future Issues	How is Industry Solving Their Future Water Challenges? (Panel Discussion)

Information accurate as of December 2013.

WATER CONVENTION 2014 HOT ISSUES WORKSHOPS

Five Water Convention Hot Issues workshops will be offered during Singapore International Water Week 2014, all taking place on Sunday, 1 June 2014. These workshops will run on a highly interactive, panel discussion-based format, providing

a focused platform to stimulate more open engagement between experts and delegates on 'hot' or emerging issues in Asia. This will serve as the perfect opener to the technical sessions on 3–4 June 2014.

WORKSHOP PROGRAMME

The details of the five workshops are as follows:

Date	Time	Workshop Topics
Sunday 1 June 2014	MORNING 0900 – 1200hrs	Workshop 1: Exploring New Treatment Paradigms for Potable Water Reuse
		Workshop 2a: Next Generation Biotechnologies for Wastewater Treatment – Nutrient Management
		Workshop 3: Adapting Cities for Flood Resilience
	AFTERNOON 1400 – 1700hrs	Workshop 2b: Next Generation Biotechnologies for Wastewater Treatment – Anaerobic Membrane Bioreactors
		Workshop 4: Water Supply for Extreme Events
		Workshop 5: Sustainable Water Solutions for Industrial Precincts

For more details regarding the content of the topics and the speakers, please see www.siww.com.sg

WORKSHOP SYNOPSIS

Workshop 1: Exploring New Treatment Paradigms for Potable Water Reuse

Many modern cities today face the issue of rapid population growth and migration, resulting in an unprecedented strain on regional water resources. Water recycling has been used in many cities as an alternative water resource and it has been incorporated into the long-term water supply plan for many utilities. Advanced water treatment technologies available today have enabled utilities to meet the stringent water quality standards for potable water reuse.

In most cases, potable water reuse has meant the inclusion of both reverse osmosis and advanced oxidation. The technology decision is driven by both technical (mainly contaminant removal) and public perception, where nearly complete removal of contaminants will help to improve public acceptance. With more alternative technologies available and more operating experience from existing facilities, alternative treatment which could be far less costly should be explored.

This workshop aims to promote discussions on the examining alternative treatment schemes to achieve both direct and indirect potable reuse.

Workshop 2: Next Generation Biotechnologies for Wastewater Treatment – Nutrient Management and Anaerobic Membrane Bioreactors

Global increases in water demand and decreases in both the quantity and quality of fresh water resources have served as major driving forces to develop sustainable use of water resources. One viable alternative is to explore non-traditional water sources through reclamation and reuse of wastewater.

The aim of this workshop, which is co-organised with the King Abdullah University of Science and Technology (KAUST), is to highlight emerging biotechnologies that can treat wastewater to a quality that is suitable for reuse while at the same time harvesting energy, recovering resources and minimising carbon footprint. This workshop brings together



distinguished researchers and industrial speakers to share their experiences and best practices for applying these technologies in a tropical climate.

The first half of the workshop will focus on the deammonification process for nutrient removal from wastewater streams, covering fundamental research and pilot and full-scale testing results. The second half will focus on the current and potential developments of anaerobic membrane bioreactors.

Workshop 3: Adapting Cities for Flood Resilience

Within the context of increasing urban density and a changing climate, it is anticipated that future cities will become more vulnerable to flood hazards. The traditional approach to flood mitigation is becoming less relevant due to increased flood vulnerabilities and less quantifiable risk profile. A re-examination of the traditional approach to adapting cities for flood resilience is necessary.

Flood resilience strategies may be different depending on whether a city is vulnerable to fluvial, pluvial or a combination of both flooding characteristics. Furthermore, these strategies will need to encompass the three distinct resilience phases associated with prevention/mitigation of the hazard, response during the occurrence of floods and recovery following floods. It is envisaged that urban planning, infrastructure design, institution arrangements and community participation are key elements of such a framework.

The workshop, which is co-organised with the Cooperative Research Centre for Water Sensitive Cities, Australia, is aimed at developing a common framework for adapting cities for flood resilience. The workshop programme will consist of a number of scene-setting plenary presentations by invited international specialists, in each case making references to case studies to illustrate potential key elements of a flood resilience framework. These presentations will be followed by a facilitated workshop discussion and development of the framework for adapting cities for flood resilience.

Workshop 4: Water Supply for Extreme Events

In recent years, many countries have faced extreme climate and weather events, and it is expected that these extreme events will become more frequent and intense in the future. These extreme events cause devastating infrastructural impact, leading to compromised water safety and security. The lack of access to safe drinking water not only poses a

major threat to public health, it would also severely impact a country's economic development. As this issue grows in importance, the water sector needs to identify best practices and explore new technologies to be ready for such extreme events.

This workshop creates a platform for water utilities, governments, and community partners to share potential solutions and develop strategies which could be implemented during these extreme events. The workshop will feature a series of case studies from both developed and developing countries that have experienced extreme events such as typhoons, earthquakes, hurricanes, and floods in recent years.

Through the sharing of experiences and lessons learnt, the workshop participants will have the opportunity to discuss on the preparedness, emergency response, and long-term resilience necessary to mitigate and adapt to the potential impacts of these events.

Workshop 5: Sustainable Water Solutions for Industrial Precincts

It is estimated that 22% of the current global water use comes from industries and this rapidly rising demand will soon surpass that of domestic water demand, making it pertinent to kick-start the conversation on sustainable water solutions for industries. However with the widely varying process solutions for different industries also resulting in varying process water and wastewater characteristics, there is no one-size-fits-all approach and policy makers and water utilities often face an uphill task when trying to implement an integrated industrial water cycle management system.

The discussions in this Workshop will be centred on developing opportunities for the development of sustainable water solutions for industrial precincts. The prevalence of industrial precincts or zones throughout Asia, with the synergistic clustering of businesses within each precinct, provides the common platform for discussion on industrial water solutions, a platform which is often lacking when bringing different industries together. It would serve as a good starting point which participants will be able relate to, especially in the context of the Singapore International Water Week.

This workshop will feature case studies from industrial precincts around Asia, with key stakeholders sharing the planning challenges and key drivers for developing sustainable water management plans. This would encourage the sharing of ideas and bring together adopters and providers of innovative technologies to discuss potential collaborations to move the industry closer towards sustainable water practices.

WHO SHOULD ATTEND

The workshops will be of interest to industry experts, academics, policy makers, and practitioners. The Hot Issues workshops are open to all Water Convention delegates.

Exhibitors and trade visitors may register to attend the workshop at a nominal fee of S\$150.



LIST OF ORAL PRESENTATIONS

THEME 1A: NETWORKS – DELIVERING WATER FROM SOURCE TO TAP

Department of Water Affairs (DWA): Water Services Asset Management Strategy: 'Getting Started'

Guideline on Developing an Asset Management Plan

M. Bannister, T. Rasikhanya. Department
of Water Affairs (South Africa)

Efficient Asset Management and Effective Facilities Maintenance (Replacing Aging Pipes and Improving into Earthquake Resistant Facilities)

S. Momiya, T. Konishi, H. Take.
Yokohama Waterworks Bureau (Japan)

Online Water Quality Monitoring in the Distribution Network

B. Graaf, F. Williamson, M. K. Koerkamp,
Jos-Willem Verhoef, J. Hoogterp,
E. Trietsch, W. V. Delft. Vitens N.V.
(Netherlands)

Full Scale Implementation of "Smart" Early Warning Systems for Real Time Monitoring of Contaminant Intrusion in the Distribution Networks

Z. D. Quang, F. Campan. Suez
Environnement (France)

A New Paradigm for Water Management

N. Kapoor. IBM (United States)

An Architectural Framework for the Smart Water Grid

A. Hauser, F. Roedler. TUV SUD
(Singapore)

Multilevel Sub-Zoning of Water Distribution Systems

L. Sela, A. Preis, M. Iqbal, M. Allen, A.
Whittle. MIT (United States)

Real-Time Monitoring Platform to Improve the Drinking Water Network Efficiency

A. Preis, M. Allen, M. Iqbal, R. Ellison,
B. Kompella, A. Whittle. Visenti
(Singapore)

Private Firms as Operators: Key to Sustainable Water Services Delivery in Rural and Periurban Areas

C. Tiwari. SNV Netherlands
Development Organisation (Kenya)

Counting the Lost Drops (SA's Study into Non-Revenue Water)

J. Bhagwan, R. Mckenzie, W. Wegelin.
Water Research Commission
(South Africa)

A Statistical Tool for Leakage Assessment and Detection on Partially AMR Equipped DMA

K. Claudio, C. Leclerc, Y. L. Gat, V.
Couallier, J. Saracco. Lyonnaise des
Eaux (France)

Are We Repairing the Right Leaks?

M. Tamir. TaKaDu (Israel)

THEME 1B: TREATMENT – DELIVERING WATER FROM SOURCE TO TAP

Commercialisation of Low-Energy Electrodialysis Technology for Seawater Desalination

K. H. Ng, M. Shaw, L. S. Liang, J.
Gifford. Siemens Pte Ltd (Singapore)

Low-Fouling RO Elements

H. Li, S. Lu, P. Yun, Z. Liu, C. Wang, J.
Huang, W. Peng. GE (China)

Pilot Study of Closed Circuit Desalination (CCD) Technology to Increase NEWater Recovery

H. Wang, X. Q. King, S. Lee, K. Chen,
J. Qin, H. Seah. Public Utilities Board
(Singapore)

Result for Two Years Demonstration of Energy Saving Seawater Desalination System

S. Aso, Y. Sekine, H. Takabatake,
J. Cheon, Y. Sugawara, T. Uemura,
T. Shinoda. Global Water Recycling and
Reuse Technology Research Association
(Japan)

Treatment and Beneficial Use of Desalination Concentrate: Development of Efficient Engineering Systems with Electrodialysis

P. Xu, T. Y. Cath, M. Reinhard, J. O.
Leckie, N. Khandan. New Mexico State
University (United States)

Water Quality Evaluation Method for RO Fouling Potential Using Quartz Crystal Microbalance

K. Nakano, Y. Sakigawa, K. Kitamura,
S. Yoshikawa. Yokohama Research
Laboratory, Hitachi, Ltd. (Japan)

Pilot Scale Ion Exchange and Ceramic Membrane Filtration of Surface Water

D. Metcalfe, C. Rockey, G. Galjaard,
H. Shorney-Darby. South West Water
(United Kingdom)

Aquaporin Z Embedded Membrane for Water Purification

W. Xie, Y. W. Tong. NUS Environmental
Research Institute (Singapore)

A Pilot-Scale Investigation of Ozonation and Advanced Oxidation Processes at Choa Chu Kang Waterworks

J. Wang, W. S. Ang, R. Xie, A. Ried.
Xylem Services GmbH (Germany)

Footnote:

The confirmed list of presentations is accurate as of January 2014. For an updated list of presentations, please visit www.siww.com.sg.

LIST OF ORAL PRESENTATIONS

Field Results Showing Effective Removal of Taste and Odour Causing Compounds Using UV-Oxidation

S. Bindner, M. Kuhns, A. Festger. Trojan Technologies (Canada)

Significant Reduction of Micropollutants in Municipal Waste Water with an Active-Coke-Bioreactor (ACFBB) Reinforced by a Following UV-Treatment

P. Karl, E. J. Martin, J. Turk, A. Boergers. AQUA-bioCarbon GmbH (Germany)

Demonstrating Potable Reuse Feasibility

M. Steirer. City of San Diego (United States)

The Gippsland Water Factory – Recent Australian Experience with Industrial and Urban Ecology

A. Hodgkins, G. Daigger, P. Skeels. CH2M HILL (Australia)

The Champagne Flush: A Sparkling New and Green Solution for the Biofouling Problem in Current Membrane Plants

B. Rietman, A. Kemperman, A. Reigersman, P. Wessels, W. V. D. Meer. Vitens NV (Netherlands)

Chlorine Dioxide Tolerance of Polyamide RO Membrane

C. Yang, M. Zhao, X. Zhao, H. Zhu, Q. Chu, Y. He. The Dow Chemical (China) Investment Company (China)

Improving the Performance of Polymeric and Ceramic UF Membrane Performances for the Treatment of Bio-Organic Challenging Seawater

L. Dramas, J.P. Croue. KAUST (Saudi Arabia)

UV AOP for Taste and Odour Removal – Comparing Low Pressure and Medium Pressure for a Full Scale Installation

J. Scheideler. Xylem Services GmbH (Germany)

Sea Water Reverse Osmosis – Energy Efficiency & Recovery

A. Evenden. Acciona Agua (Australia)

Malaysia's Largest River Bank Filtration (RBF) & Ultra-Filtration (UF) System for Municipal Drinking Water Production

C. M. Chew. Techkem Water Sdn. Bhd. (Malaysia)

THEME 2A: TREATMENT PROCESSES & ENERGY RECOVERY – EFFECTIVE AND EFFICIENT WASTEWATER MANAGEMENT

MBR with Enhanced Primary Treatment to Reduce Energy Consumption

J. Peeters, G. Vicevic, W. Syed. GE Water & Process Technologies (Canada)

Low Energy Consumption MBR + RO Process for Water Reclamation in Singapore

H. Suzuki, S. Hanada, H. Seah, T. Kitade, T. Uemura, M. Henmi. Toray Singapore Water Research Center (Singapore)

Membrane Biofouling Control by Encapsulated Quorum Quenching Bacteria in an External Submerged MBR

D. Jahangir. Water Environment – Membrane Technology Laboratory (Pakistan)

Demonstration Plant Testing of Industrial Used Water Treatment Process in Jurong Water Reclamation Plant for Water Reuse

O. Takase, T. Watanabe, M. Mitsumizo, T. Niwa, Y. Zhao, K. Kekre, L. Lin, G. Tao. Meidensha Corporation (Japan)

Sustainable Wastewater Treatment with the Innovative CFIC® Biofilm Reactor Process

J. G. Siljudalen, L. Marcolini, P. Stang, B. Rusten. Biowater Technology (Norway)

Membrane-Aerated Biofilm Reactor for Nitrogen Removal in Low Energy Treatment of Municipal Sewage

N. Adams, Y. Hong, J. Ireland, H. Koops, P. Cote. GE Water and Process Technologies (Canada)

Practical Experience with Full Scale Structured Sheet Media IFAS Systems for Nitrification

H. Li, J. Zhu, J. Flammig, J. Oconnell, M. Shrader, B. Rothermel, F. Kulick III. Brentwood Industries (United States)

Effects of Air/Liquid Ratio and Ammonia Load Rate on Nitrogen Removal in a BAF

W. Zhang, Y. Peng, Q. Liu, Y. Liu, S. Wang. Beijing University of Technology (China)

Activated Sludge Retention by Dynamic Filtration at Super-Critical Fluxes for Sustainable WWT

K. Roest, B. Daamen, L. Hartog, M. van Loosdrecht. KWR Watercycle Research Institute (Netherlands)

Energy Self-Sufficiency for WWTP in Warm Climate

M. Andersen, M. Choo-Kun, W. Wellym, Z. B. Zhang, D. Conteau, P. Dauthuille, N. Zainal Abidin. Suez Environnement (France)

Footnote:

The confirmed list of presentations is accurate as of January 2014. For an updated list of presentations, please visit www.siww.com.sg.

LIST OF ORAL PRESENTATIONS

Application of Magnetite for Enhanced Biosorption Primary Treatment

S. Pattanayak, H. Ding, R. Wikramanayake, A. Erdogan. Siemens Water Technologies (Singapore)

Towards Energy Neutrality in Used Water Treatment: Results and Findings of Recent WERF Research

A. Shaw, S. Tarallo, P. Kohl, R. Eschborn, L. Fillmore. Black & Veatch (United States)

Providing Affordable and Sustainable Wastewater Treatment through Optimal Technology Integration

D. Solley, S. Hu, C. Hertle, J. Keller. GHD Pty Ltd (Australia)

An Integrated Validation Plant Study Targeted towards Selecting Efficient Domestic Used Water Treatment Process for Future Water Reclamation Plant in Tuas

G. Tao, K. Kekre, Y. Lee, S. C. Chua, Y. L. Wah, Y. Abd Ghani, H. Seah. PUB (Singapore)

Case Study of Marquette-Lez-Lille WWTP – Application of IFAS and THP for a City of Future Solution

X. Zhao, M. Ji, M. Elliot, M. Gong, J. Li, J. Chauzy, X. Chen. Tianjin University / Veolia Water Solutions & Technologies Asia Municipal (China)

Influence of Wastewater Treatment on Sludge Production and Processing

W. Barber. AECOM (Australia)

Thermal Conversion of Sewage Sludge in Energy: The Optimal Route to a Sustainable Solution for the Sewage Sludge Problem?

W. Rulkens. Wageningen University (Netherlands)

Heating and Cooling Energy from Wastewater – New Income for Water Utilities

N. Meeten, N. Hunt, A. Steinherr, D. Foster. HUBER (Germany)

Managing Risks in Advanced Wastewater Treatment Plants

A. Hauser, K. Sathrugnan, F. Roedler. TUV SUD (Singapore)

The Role of Innovative Technologies in Achieving Energy Neutral Wastewater Treatment

J. Peeters, G. Vicevic, H. Koops. GE Water & Process Technologies (Canada)

Saving Energy by Optimisation of Air Distribution in Waste Water Treatment Plants

R. Binder. Binder Group AG (Germany)

Challenges in Variable Speed Wastewater Pumping

S. Abelin. Xylem Water Solution (Sweden)

Sensor-Based Control – The Way for Energy-Efficient Open Channel UV System Operation

M. Newberry. Wedeco (Germany)

Full-Scale Experiences with Aerobic Granular Biomass Technology for Treatment of Urban and Industrial Wastewater

A. Giesen, B. de Bruin, M. van Loosdrecht. Royal HaskoningDHV (Netherlands)

THEME 2B: ASSET MANAGEMENT & RESOURCE RECOVERY – EFFECTIVE AND EFFICIENT WASTEWATER MANAGEMENT

An Innovative Approach to Managing Sewage Quality in Metropolitan Melbourne

L. Harvey, W. Douglass. Melbourne Water (Australia)

O&M Strategies & Asset Management Tools to Improve Effectiveness & Efficiency in Sewerage Management

N. Dorai, M. D. Abd Kadir, A. H. Md Haniffa, B. G. Chua. Indah Water Konsortium (Malaysia)

Driving Performance, Optimising Value: Operational Excellence in the Water Sector

C. Graham, T. Povall. Arcadis (United Kingdom)

Urban Drainage Modelling in the UK – Current State of Play and Looking to the Future

J. Margetts, Neil Scarlett. CIWEM Urban Drainage Group (United Kingdom)

Reliable Wastewater Infiltration and Inflow Reduction – Providing New Certainties?

S. Carne, D. Roche, N. Moody. GHD Ltd (New Zealand)

New Tunnel System to Eliminate Sanitary Sewer Overflows and Control Combined Sewer Overflows in Hartford, Connecticut

V. Nasri, C. Haynes. AECOM (United States)

Centralised & Decentralised Sewerage Management Options – Past, Present & Future

N. Dorai. Indah Water Konsortium (Malaysia)

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Biocleaner: Revolutionising Waste Water Treatment

E. Kaw, A.M. Bautista. BioCleaner Inc (Philippines)

Green Buildings – Special Requirements for Wastewater Treatment with MBR Technology

T. Hackner, S. Meuler, F. Heindl, H. L. Ooi. HUBER SE (Germany)

School Based Sanitation (SBS) Cambodia: Multi-Stakeholder Involvement in Decision Making Processes

A. Campbell. BORDA (Cambodia)

Multiple Barrier Approach for Potable Reuse in Windhoek, Namibia

J. Lahnsteiner, P. du Pisani, J. Menge, J. Esterhuizen. VA Tech Wabag GmbH (Austria)

Alternative Water Reuse in Dry Coastal Areas: Reducing Energy Consumption and Costs of Desalination

V. A. Yangali Quintanilla, L. S. Olesen, J. R. Lorenzen, C. Rasmussen, E. K. Vestergaard. K. Keiding. Grundfos Holding A/S (Denmark)

Promotion of Wastewater Reclamation/Reuse in Taiwan

W. F. Yang. Water Resources Agency (Taiwan)

Waste Water Reuse as Environmentally Sound Technologies

K. Hatiyaldeniya. National Water Supply & Drainage Board (Sri Lanka)

Mitigation of Environmental Burden by Recovery of Resources from Wastewater: What Do We Know?

X. Wang, J. Liu. Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences (China)

Evaluation of Microalgae-Based Treatments for Removing Nitrogen and Phosphorus from WWTP Effluents

L. Lacoste, B. Barillon, F. Areas, M. Crest, A. Huyard, S. Martin Ruel, P. Dauthuille. Cirsee Suez Environnement (France)

Value-Added Bioplastics from Services of Wastewater Treatment

M. Hjort, M. Arcos-Hernandez, L. Montano-Herrera, O. Murugan, L. Quadri, S. Anterrieu, L. Karabegovic, P. Magnusson, P. Johansson, S. Bengtsson, F. Morgan-Sagastume, O. de Vegt, R. Welinga, B. Laycock, S. Pratt, P. Halley, P. Lant, A. Werker. Anoxkaldnes AB (Sweden)

Overcoming Barriers to Codigestion

D. Parry, L. Fillmore. CDM Smith (United States)

Enhanced Anaerobic Digestion and Production of Internal Carbon Source by Focused Pulse Treatment

A. Franchi, M. Kuhns. OpenCEL, A Division of Trojan Technologies (United States)

Experimental Study on Combination of Thermal Hydrolysis and Ultrasound for Pre-Treatment of Sludge for Enhancing Anaerobic Digestion

Z. Liao, X. Bi, C. Liu, X. Ran. Qingdao Technological University (China)

Integrated Sludge Management of Large WWTP

H. Sioen, L. Vriens. Waterleau Group NV (Belgium)

Dual-Conditioning of Sludge Using Chitosan and Metal Cations

S. W. Lau, S. D. Tang, H. M. Ang, T.K. Sen, H. B. Chua. Curtin University Sarawak (Malaysia)

Expoval – Subgroup 6: Solar-Based Sewage Sludge Drying First Results from Investigations with a Pilot Plant

R. Dellbrügge, K. Bauerfeld, N. Dichtl, A. Großer, S. Paris. Technische Universität Braunschweig (Germany)

Energy Recovery from Incineration – Recent WERF Research Findings and Profiles of Innovative Facilities

R. Eschborn, T. Goss, S. Tarallo, P. Kohl, L. Fillmore. AECOM (United States)

THEME 3: WATER FOR LIVEABILITY AND RESILIENCE

Innovative Top-Down and Bottom-Up City-Wide Implementation Strategies for Green Infrastructure

J. H. K. Quah, N. C. Tan, T. W. Lee, L. V. D. Tak, B. Marengo. CH2M HILL (Singapore)

Good Governance Platform and Business Case Approach – A Framework for Liveability

V. Chandra, J. Tetteroo, V. Rambisheswar. GHD (New Zealand)

Urban Water and Livability – Exploring Definitions and Frameworks

J. Ewert, R. Brown. Melbourne Water Corporation (Australia)

Mapping Heat Vulnerability in Australian Cities for Implementation of Water Sensitive Urban Design

N. Tapper, M. Loughnan. Monash University (Australia)

Climate Change Adaptation; Innovative Tools and Strategies in Delta City Rotterdam

P. Dircke, A. Molenaar. ARCADIS (Netherlands)

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Where to Now for Water Utilities? Planning to Meet Our Customers and Cities Future Needs

P. Dennis. SEQWater (Australia)

Future Proofing Cities: Resilience Planning for New York City's Water Infrastructure after Superstorm Sandy

A. Hosking, A. Cohn, T. Groninger, V. Rubino. CH2M HILL (United Kingdom)

Twenty-Five Years of Operational Experience Using GW Modeling to Evaluate Sustainable Use of Coastal Aquifers for Major Water Supplies

B. Harley, R. Fitzgerald, K. Masterson, H. Moe, M. Gamache. CDM Smith (United States)

Enriching Communities through Holistic Planning for Urban Water

C. DeLacy, J. McAllister, M. Blais, K. Hodge, J. Anstey, J. Bartle-Smith. Water Services Association of Australia (Australia)

Decentralised Water Treatment Systems – Tracking Results and Impact

R. Shah. Peer Water Exchange (India)

THEME 4: WATER QUALITY & HEALTH

Water Safety Plans – A Catalyst for Ensuring Safe Water to Consumers in The Philippines

N. Hassan, D. Siru, A. Jayaratne, B. Magtibay. World Health Organization (Philippines)

Methodology for Evaluation of Health Impacts from Water Safety Plan in Vietnam

N. Hassan, T. N. Ton, A. V. Tuan, D. Siru. World Health Organization (Philippines)

Protecting Taiwan's Source Water Quality Based on Local Community Participation – Water Resources Age

W. Yang. Water Resources Agency (Taiwan)

Emerging Contaminants in Water: A Challenge to Safe Drinking Water and the Safe Re-Use of Wastewater

J. Fawell. Cranfield University (United Kingdom)

The Role of Drinking Water Standards and Monitoring in Assuring Safe Drinking Water

J. Fawell. Cranfield University (United Kingdom)

Dynamics of Cyanophages in Kranji Reservoir

S. H. Te, B. H. Yeo, Y. H. K. Gin. National University of Singapore (Singapore)

Water Conservation in Karsts Ecosystem: Case Study in Gunung Kidul, Indonesia

A. Suyanto. Yogyakarta School of Environmental Engineering (Indonesia)

Will the Yangtze River Restore Water Quality in Lake Taihu?

K. Acharya, Y. Li. Desert Research Institute (United States)

Occurrence of Trace Organic Contaminants in Water: Review of Current Analytical Techniques

S. Snyder, T. Anumol. University of Arizona (United States)

Monitoring and Tracking Contaminant Sources in Catchments And Estuaries

P. Geary, M. Maswabi, C. Evans, C. Lee. The University of Newcastle (Australia)

Isolation of Factors Governing Groundwater Salinisation along the Coastal Aquifers of South India Using Geochemical Tracers and Resistivity Methods

S. Gopinath, K. Srinivasamoorthy, K. Saravanan, A. Faizalkhan, C. S. Suma. Pondicherry University (India)

Applicability of Bulk Organic Parameters as Surrogates to Monitor Removal of TORCs by GAC in Water

T. Anumol, S. Snyder. University of Arizona (United States)

Bromate Risk in Drinking Water: Modes of Action and Regulations

J. Cotruvo. Joseph Cotruvo & Associates LLC (United States)

Relationship between FRNA Coliphage Genotypes and Human Enteric Viruses in an Urban Freshwater Catchment

K. Gin, G. G. R. V. Vergara, S. Rezaeinejad, A. Sundaram. National University of Singapore (Singapore)

Evaluation of Laboratory Methods for the Analysis of Microcystins in Surface and Drinking Water

R. Shabnam, J. Li, C. Lo. Ryerson University (Canada)

The Effects of Emerging Contaminant Glucocorticoids on the Expression of Selected Genes in Zebrafish: Potential Biomarkers and Biological Impacts

Q. Chen, S. Snyder, C. N. Ong, H. K. Lee, S. H. Lam. National University of Singapore (Singapore)

Advanced and Natural Process Hybridisation: Multi-Barrier Risk Reduction in Drinking Water Treatment

G. Amy, S. Sudhakaran, S. K. Maeng, M. Yoon, A. Al-Hamadat. King Abdullah University of Science and Technology (KAUST) (Saudi Arabia)

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Microbial Risk Assessment to Set Health-Based Performance Targets to Improve Water Quality

A. Shea, J. Poon, S. Williamson. Western Water Authority (Australia)

Quantitative Microbial Risk Assessment of Salmonella and Enterococcus in Marina Reservoir and Catchments

S. G. Goh, H. Fang, S. Y. Chang, K. Y. H. Gin. National University of Singapore (Singapore)

Increasing the Utilisation of Defluoridation Technology: A Case Study of Nakuru Technology (Pellet).

N. Githugo, E. Mwenji. Nakuru Defluoridation Company (Kenya)

THEME 5: WATER FOR INDUSTRIES

RO-EDR Hybrid System for High Water Recoveries from MBR Filtrate

H. Rmanan, N. Moe, H. Y. Ng, J. Barber, St. Harrold, B. Narayanswamy. GE Betz Singapore Pte Ltd (Singapore)

Distillation of High Concentrated Salt Solution by Memsys Membrane Distillation Module

M. Wenzel, S. Büttner, W. Heinzl, S. Heinzl. Memsys Clearwater Pte Ltd (Singapore)

Recycling of Refinery Effluents – Two Case Studies in India

J. Lahnsteiner, P. Andrade, R. D. Mittal. VA Tech Wabag GmbH (Austria)

Innovative Approach for Reuse of Concentrate Brine in Textile Dyeing Zero Liquid Discharge Plants

S. Hussain Inayath. Tamilnadu Water Investment Co Ltd (India)

Assessing the Impacts of Water on Industry – The Case of Asia Pacific Breweries

C. Leusder. Imperial College (Germany)

Guidelines for Safe Water Reuse in Beverage Production and Food Processing

J. Cotruvo, S. Froggett. Joseph Cotruvo & Associates LLC (United States)

Aecomix System for Combined Treatment of Waste and Wastewater in the Food and Beverage Industry

W. Menkveld, A. Kluit. Nijhuis Water Technology BV (Netherlands)

EFB Juice/Palm Oil Wastewater Criticality & Efficient Handling

S. Rajan. WOG Group of Companies (Singapore)

Demonstration of Heat Integrated Water Allocation Network (HIWAN) and HACCP Approach at SRC

M. Andersen, S. Xu, H. H. Lau, G. Li, H. Eikaas, R. Dunn, C. Reddy. DHI Water & Environment (S) Pte Ltd (Singapore)

Conservation of Water by Reuse in a Steel Mill

S. S. Choo. NatSteel Holdings Pte Ltd (Singapore)

Water Stewardship: A Global Framework for Responsible Water Use

K. Langford, M. Spencer. University of Melbourne (Australia)

Six R's of Industrial Water Conservation Techniques and True Cost of Water

M. Andersen, H. H. Lau, S. Xu, G. Li, H. Eikaas. DHI Water & Environment (S) Pte Ltd (Singapore)

Water for Industry: Assessing Water Usage and Sustainability in the Automotive Industry

J. Polce, D. Owen. ARCADIS-US, Inc (United States)

Water-Related Business Risk Assessment in the Oil & Gas Industry

F. Niele, N. Thijssen, K. Brand, D. Varma, A. Mianzan, A. Janssen. Shell Projects & Technology (Netherlands)

Technical and Life-Cycle Considerations of Shale Oil/Gas Water Management – Global Experiences

S. Kommineni, S. Vlaski. ARCADIS-US (United States)

Demand in Water Treatment for Mining Industry

V. Frenkel, O. G. Gonzales. ARCADIS (United States)

Development of a Predictive Model to Determine the Temporal Variability in Mine Feed Water Quality

J. Nathoo, H. G. Eu, N. Hussain. NuWater South Africa & GrahamTek NuWater Singapore (South Africa)

Sulfate Removal from Mining Wastewater

I. Chua, R. Woodling, S. Kars, J. Ceklosky. Siemens Pte Ltd (Singapore)

Treatment of Mining Wastewaters for Cyanide and Toxic Metals Removal, Utilising Iron (6+) Ferrate (FeO₄²⁻)

D. Liang, T. D. Waite. Ferrate Water Treatment Pte Ltd (Singapore)

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S. Kaemmerer, U. Kanigowski, C. Bokermann. Xylem (Germany)

A Decision Support System Based on Optimisation for the South East Queensland Water Grid

R. Prasad, J. Fear, K. Shanmugasundaram. Arup (Australia)

A Dynamic Approach to Water, Energy and Food Security: Implications for Water Storage and the Nexus

J. Allouche, D. Gyawali, C. Middleton. Institute of Development Studies (United Kingdom)

A New Approach to Generate Runoff Using 2-Dimensional Topographic Meshes on a Hong Kong Catchment

K. Luk, G. Yung, F. Kan, E. Lau. AECOM Asia Co. Ltd (Hong Kong)

A New, Low Cost Spectrophotometer Probe for Multi-parameter In-pipe Online Water Quality Measurement

F. Edthofer, C. Walter, A. Weingartner. S::can Messtechnik GmbH (Austria)

A Novel Solution to Flushing Optimisation through Rapid Microbiological Field Testing

P. Whalen, D. Tracey. LuminUltra Technologies Ltd (Canada)

A Portable Lab-on-a-Chip Sensor based on Contactless Conductivity Detector for Water Analyses of Aquarium Ornamental Fish Tanks

J. Yuen, P. Hauser. IMRE (Singapore)

A Simple Method for Characterisation of NOMs in Dam Water

K. Moodley, D. Chetty, P. Sobantu, G. Gericke. Durban University of Technology (South Africa)

Accessibility to Water at Household Levels: A Case Study of Fitobaula Settlement in Zambia

E. Sachikumba. The University of Zambia (Zambia)

Achieving Positive Net Energy in a Nutrient Removal Facility: Optimising the EJBY MOLLE WWTP

J. Sandino, P. H. Nielsen, M. Leth, D. Whitlock, T. Johnson, T. Constantine, D. Houweling. CH2M HILL (United States)

Acoustophoretic Microfluidic Chip for Microbial Pre-Concentration and Fractionation in Drinking Water

L. Lei, P. Ohlsson, L. K. Chin, T. Laurell, A. Q. Liu. Nanyang Technological University (Singapore)

Advanced Aeration Controls on the Nitrification in Treating Wastewater with Low Alkalinity

W. Wellym, Z. Zhang, S. Vesuvanathan, M. Anderson, G. Kristensen, A. Lynggaard-Jensen, N. Zainal Abidin. DHI Water & Environment (S) Pte Ltd (Singapore)

Advanced Computational Fluid Dynamics in Industrial and Municipal Water Technologies Applications

R. Kandasamy, S. Abhishek, R. Woodling. Siemens Pte Ltd (Singapore)

Advanced Process Control for Nitrogen Removal in Sequential Batch Reactors

F. Honold, U. Franke. Xylem Analytics – WTW GmbH (Germany)

Aluminium Silicate Formation in Membrane Separation Processes: Facts vs. Myths

V. Abbas, M. Malki. American Water Chemicals (United States)

An Application on Reducing the Evaporation from an Open Water Surface

I. Akbayır. Istanbul Technical University (Turkey)

An Examination of the Presence, Formation, and Transformation of Volatile Halogenated Organic Species in Wastewater Extracts Using GC-ICPMS

S. Snyder, A. Durazo. University of Arizona (United States)

An Impacts of Anthropogenic Activities on Limestone Aquifer of Jaffna Peninsula, Sri Lanka (an Overview)

S. Arasalingam, M. Herath. International Water Management Institute (IWMI) (Sri Lanka)

An Inhibition Assay for Detection of Bisphenol Using Optiqua's MiniLab Biosensing System

K. Ma, T. Ekblad, M. K. Koerkamp, M. Diemeer, M.A.B. van Wijlen, A. Duarah, J. Q. Yue, L. F. Zhang. Optiqua Technologies Pte Ltd (Singapore)

Anti-Microbial RO Membranes Development Using Silver Particle as Biocide

Z. Liu. GE Global Research (China)

Application of LC-MS/MS for the Analysis of Free Amino Acids in Natural Waters

Z. T. How, F. Busetto, I. Kristiana, K. Linge, C. Joll, J. Charrois. Curtin Water Quality Research Centre (Curtin University) (Australia)

Application of UV and Ozone Processes for Ballast Water Treatment

J. W. Kang, E. Hong, Y. Jung, Y. Yoon, M. Kwon. Yonsei University (Republic of Korea)

Aquaporin Containing Membranes (ACM) for Fertiliser Drawn Forward Osmosis (FDFO)

K. Gerstandt, S. Braekevelt, J. Vogel, K. H. Nielsen, M. Perry, M. S. Larsen, J. S. Groth. Aquaporin A/S (Denmark)

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N. Naher, S. Sarkar. WaetrAid (Bangladesh)

Assessment of Variation and Removal Efficiency of Assimilable Organic Carbon (AOC) in Different Water Treatment Systems

P. Gao. PUB (Singapore)

Assetlogics – Logic in the Design and Implementation of a Condition Assessment Programme for Water Mains

P. Ferguson. Echologics (Australia)

B

Bentonite Clay for Non-ionic Surfactant Removal from Wastewater & Subsequent Use as Organobentonite

P. L. Ang, T. W. Maung, M. S. Qua. Ngee Ann Polytechnic (Singapore)

Best Practice Asset Management Plans Lead to Environmental Stewardship

J. Tetteroo, V. Chandra. GHD (New Zealand)

Better Water = More Oil

R. van 'T Oever. Pentair X-Flow (Netherlands)

Bioelectrochemical Systems: A Sustainable Technology for Nitrate-Polluted Groundwater Treatment

N. Pous, S. Puig, M. D. Balaguer, J. Colprim. University of Girona (Spain)

Bio-Filter, Economical Solution of Polluted Raw Water for Drinking Water Treatment

K. Trishanti, O. Walesa, E. Mauro. PT. PAM Lyonnaise Jaya (Indonesia)

Biosorptive Removal of Dyes from Water

S. F. Y. Li, M. Q. Ho. National University of Singapore (Singapore)

Blue Green Dream: Integrated Solutions For The Next Generations' Cities

C. Maksimovic, R. Bozovic. Imperial College London (United Kingdom)

Brewery Increases Treatment Capacity Using Magnetite Ballasted Treatment System – A Case Study

C. Applegate, R. Backman. Siemens Water Technologies LLC (United States)

Brewery Wastewater Treatment Plant: A Case Study

D. Powell. Siemens Pte Ltd (Singapore)

Bringing Wastewater Reclamation into the Urban Fabric

A. Bodnar. Organica Water, Inc (Hungary)

Building Sustainable Megacities – Water for Enhancing Urban Liveability

N. Dolman, J. Flikweert. Royal HaskoningDHV (Netherlands)

C

Canada's Premier Technology Showcase of Low-Pressure Membranes, UV Disinfection and UV AOP: The Lorne Park WTP Retrofit

M. Gravel, J. Hennings, B. Sahely, A. Farr. AECOM (Canada)

Case Studies of Improvement for Waste Water Reclamation RO System with New Slime Control Agent

T. Luchi, K. Matsumoto, Y. Matoba, Y. Kayamori, S. Hayato, R. Foo, C. H. Lin. Kurita Water Industries Ltd (Japan)

Case Study: Pipe Replacement – Is it a Solution to Control Leakages Losses?

S. Rajkumar, T. Heenkenda. National Water Supply & Drainage Board (Sri Lanka)

Catalytic Oxidation for TOC Removal from Industrial Wastewater

C. Gudipati, Y. He, P. C. Kalimuthu, R. Kandasamy, A. Andaya, R. Woodling. Siemens Private Limited (Singapore)

CFD Simulations of a BCR with a Submerged Hollow Fiber Membrane Module: Relevance to MBRs

L. Xia, A. L. Wing-Keung, A. G. Fane. Nanyang Technological University (Singapore)

Challenging Restructuration of Wastewater Disposal in the Emscher Region

U. Moshage. Dahlem Beratende Ingenieure GmbH & Co. Wasserwirtschaft KG (Germany)

Challenges in Planning Climate Resilient IWRM in Maldives

K. Pelpola, N. Razee. Ministry of Environment & Energy (Maldives)

Challenges in Potable Water of Isfahan, the Cultural Capital of Iran

E. Majd, Sayed K. Aghili, M. A. Torfeh. Esfahan Regional Water Board (Iran)

Characterisation of Reverse Osmosis (RO) Membranes during Chemical Cleaning Operation

S. Subbiah, G. Pugazhenthii, C. Das. ABB (India)

Characterisation Study of the Dissolved Organic Matter (DOM) in ABR (Advanced Bio-Reactor) Process Water

Y. Dong, M. Peng. GE Global Research (China)

Chemical Functionalisation of Nanofiltration Hollow Fiber Membranes for Water Treatment

T. S. Chung, S. P. Sun, F. Y. Li, Y. K. Ong. National University of Singapore (Singapore)

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Y. Peng. GE Global Research (China)

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J. McKelvey, A. Varas, J. Morgan. Black & Veatch Corporation (United States)

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R. M. Khalid, M. B. Mokhtar, F. Jalil. National University of Malaysia (Malaysia)

Climate Change and New Challenges Facing Water Industry

D. Dharmabalan. Coliban Water Corporation (Australia)

Climate Change Impacts on Water Resources – A Case Study on Supply of Drinking Water Demand

L. Peiris, S. Kasthuriarachchi. National Water Supply & Drainage Board (Sri Lanka)

Collaborative Water Resources Decision-Making through Participatory Modeling in the Rio Sonora Basin, Mexico

A. Mayer, K. E. Halvorsen, D. J. Kossak, E. Vivoni, A. R. Morua. Michigan Technological University (United States)

Commoditised Treated Effluents as Futures Contracts to Finance Water Security

V. Issumo. Prana Sustainable Water (Switzerland)

Comparison of Water Quality Monitoring Methods: What is the Best for Indicating Water Quality and Human Health Risk?

T. Lu, B. George, D. Wendell. Metropolitan Sewer District of Greater Cincinnati/Black& Veatch (United States)

Constraints of Efficient Domestic Water Supply in Sudanese Cities

A. B. E. S. El Tohami. Faculty of Environmental Sciences/Omdurman Ahlia (Sudan)

Constraints on Urban Water Management in Developing Nation: A Case Study of NCT Delhi, India

Y. Kaushik, A. Mukherjee. Central Ground Water Board, New Delhi (India)

Control Devices of Storm and River Waters Integrated in the Urban Landscape is Factor of Resilience

P. Christian. Composante Urbaine (France)

Control of Wastewater RO Organic Fouling through the Use of Higher Flux and Crossflow Velocity

H. Winters, A. Fane, M. Rzechowicz, H. Gay, J. Nathoo, H. Seah, M. Tan. Nanyang Technological University (Singapore)

Controlled Automated Flushing to Reduce NRW Loss & Improve Water Quality

M. Gimson. Singer Valve (Canada)

Cooling Tower Water

S. Banerjee. Consultant-Water and Waste Water Treatment (India)

Cost Effective Water, Energy, and Carbon Reductions through Embodied Resource Analysis

R. Roderick-Jones, M. Tang. Arup (United States)

Cost Sharing in Water Supply & Sanitation Infrastructure in Small Towns Project through Mobilising Local Resources

R. D. Sah. DWSS/SSTWSSSP (Nepal)

Cyanide Wastewater Pretreatment – Hydrogen Peroxide Oxidation

J. P. Arcangeli, M. Zhou, X. Qu, S.Y. Huang, Y. Xu. Shanghai Chemical Industry Park Sino-French Water Development Co., Ltd (China)

D

Danger of Anatin A(S) and Organophosphorus Pesticides for Aquatic Ecosystem Health

V. Tonkopii. Institute of Limnology, Rus. Acad.sci. (Russian Federation)

Deammonification of Dewatering Centrate in Changi-WRP

Y. Fukuzaki, Y. Kawakubo, B. Wett, Y. Cao. Meidensha Corporation (Japan)

Decentralised Yet Integrated Management of Water and Wastewater for Homes and Habitats

S. Samuel, M. L. Woon. Ecosoft Pte Ltd (Singapore)

Decision Support System Predicting Manganese Concentration in Water Reservoirs

E. Bertone, K. O'Halloran, R. Stewart, H. Zhang. Griffith University (Australia)

Decolourisation Properties of Wastewater by Fungal Laccase-Immobilised Membrane

N. Katagiri, Y. Ogi, E. Iritani. Nagoya University (Japan)

DehydriTM Twist, a Boosted Dewatering Workshop with a Piston Press – Performances on Drinking Water Sludge and Desalination Sludges

E. Judenne, J. M. Faccioli, P. Gislette. Degremont SAS (France)

Desalination in Egypt Between Present and Future (Future and Present Challenge in National Water Policy)

M. Abdallah. Sanitary and Environmental Engineering Institute (Egypt)

Design and Optimisation of UV Based Photo-Catalytic Reactor for Odour Abatement Using CFD

A. Sarkar, R. Kandasamy, R. Woodling. Siemens Pte Ltd (Global R&D Centre) (Singapore)

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T. Ekblad, K. Ma, M. Diemeer, M. K. Koerkamp, M. van Wijlen. Optiqua Technologies Pte. Ltd (Singapore)

Determination of Formate and Oxalate in Water by Suppressed Ion Chromatography

W. Zhang, S. Li, Z. Guo. PUB (Singapore)

Determination of Four PPCPs in Water Samples by On-line Solid-phase Extraction Combined with High Performance Liquid Chromatography-Tandem Mass Spectrometry in Positive Mode

J. Wu, Y. Yang, J. Yue, L. Zhang. PUB (Singapore)

Development of a Semantic Ontology for Interoperable Smart Water Systems

R. Searle. Aquamatix Limited (United Kingdom)

Development of CMP Wastewater Treatment and Reuse Process by Tubular Membrane and RO

H. Yu, H. Jung, J. Song, Y. Kim, S. Lee, Y.I. Kim, E. Bae. Institute of Environmental Technology (Republic of Korea)

Development of Filtration Technologies for Effective, Cost-Efficient and Robust Water Treatment

M. Grace, M. Healy, E. Clifford. NUI Galway (Ireland)

Development of Novel Superabsorbent Cryogels for Emergency Potable-Water Production

A. Fane, X. Hu, W. Krantz, S. L. Loo, T. T. Lim. School of Materials Science and Engineering, Nanyang Technological University (Singapore)

Development of UF Membrane Cleaning Process for Seawater Desalination Pre-Treatment

K. Shimamura, R. Hata, M. Hirai, T. Kanno, K. Sugimoto. Swing Corporation (Japan)

Digital Delta: Exploiting Big Data Exchange and Analytics to Enable a Smarter National Water Management System

M. Sullivan, D. M. Schiferli. IBM Corporation Limited (United States)

Direct Potable Reuse – A Framework for Implementation

K. Bell, J. Cotruvo, A. da Silva. CDM Smith (United States)

Direct UF Filtration on High Solids Feed, Producing Class A Water

R. van 'T Oever. Pentair X-Flow (Netherlands)

Discussion About the Potential of Rainwater Management and Storage in Residential Districts to Relieve Stress on Municipal Water Drainage in Combination With City Bylaws and Regulations

L. Liu, Z. Peng. Beijing Tideliion S&I Rainwater Harvesting Technology Company Ltd (China)

Disinfection of Cryptosporidium Oocysts in Water by Bromine and Chlorine

M. Sobsey, J. Kim, O. Simmons. University of North Carolina (United States)

Disinfection of Drinking Water with Copper and Zinc Ions and Oxide Nanoparticles

M. Sobsey, A. Komandur, A. Malone. University of North Carolina (United States)

Distribution of Antibiotic Resistance Genes in Urban Surface Water

Z. Zhou, X. Yi. National University of Singapore (Singapore)

Dow's New Generation Eco Elements Achieve Energy Saving in a Municipal Effluent Reuse Plant

H. Zhu, K. Majamaa, L. Liu, M. Zhao. The Dow Chemical (China) Company (China)

Drinking Water Disinfection with Medium Pressure UV Systems

P. Raichle, C. Bokermann, K. Meyer. Xylem Water Solutions (Germany)

Drinking Water Treatment for Oxidation of Sulfides and Disinfection without DPB Formation, Utilising Iron (6+) Ferrate (FeO₄²⁻)

D. Liang, T. D. Waite. Ferrate Water Treatment Pte Ltd (Singapore)

Durability and Fouling Study on Membranes Using 1812 Element Configuration

K. K. Kee, B. Chaudhari, K. H. Wee, R. Wu, T. Gopalan, J. Zhang, D. Xiao, S. Harrold. GE Power and Water (Singapore)

Dynamic Simulation for Operations Optimisation at Johor River Waterworks (JRWW)

J. Thorpe, M. H. Lim, B. Price, T. W. Lee, J. Hsieh. CH2M HILL (Singapore)

Dynamic Water Resource Management for a Regenerative New Orleans

N. Dolman, D. Apon. Royal HaskoningDHV (Netherlands)

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Eco-efficiency of Water Use in the Dairy Industry – A Case Study

P. Lindgaard-Jørgensen, G. H. Kristensen, H. Birch. DHI (Denmark)

Economic Analysis for a Leakage Control Programme

D. Sonwane. Tata Consulting Engineers Limited (India)

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H. Ramanan, V. Sridharan, L. M. Goh, S. Y. Goh, N. Moe, R. MacDonald, Z. Yong, B. Narayanswamy. GE Water & Process Technologies (Singapore)

Education for Transformation: from Disposal to Marketing of Wastewater in Uganda

F. Kakembo. Ndejje University (Uganda)

Effect of Chemicals Residues on Reuse of Sewage from Cooling Water

F. Liu, J. J. Lu, H. Y. Zhong, C. F. Liang, C.C. Zhao. China University of Petroleum (China)

Effect of Inoculum pH and Initial Substrate Concentration on Biohydrogen Production through Thermophilic Dark Fermentation from Synthetic Starch-Rich Wastewater

T. Setiadi, B. Andreas, K. Cahyari, I. S. Horvath. Institut Teknologi Bandung (Indonesia)

Effect of Temperature on the Anaerobic Digestion of AB Sludge

M. Choo-Kun, P. Dauthuille, D. Conteau, P. Camacho. Suez Environnement (France)

Effects of Influent Wastewater Composition on the A-Stage Performance in AB Process

Z. Zhang, W. Wellym, S. Vesuvanathan, M. Anderson, G. Holm-Kristensen, A. Lynggaard-Jensen, N. Zainal-Abidin. DHI Water & Environment (S) Pte Ltd (Singapore)

Efficacy of Chitosans as Coagulants on Removal of Turbidity, Bacteria and Virus for Household Water Treatment

A. Soros, L. Casanova, M. Sobsey. University of North Carolina-Chapel Hill (United States)

Efficiency and Environment: Evidence from Australia and a Framework for Urban Water Utilities

E. Sullivan. Rationale Ltd (New Zealand)

Efficient Control of Deammonification Cleargreen® Plants – First Development at Demonstration Scale in Australia

L. Lacoste, B. V. D. Akker, J. Krampe, A. Keegan, I. Mouilleron, I. Hyde, L. Graveleau. Cirsee Suez Environnement (France)

Embankment Regreening at Marina Reservoir for Improved Stormwater Runoff Quality and Air Temperature

C. Huttche, J. Obbard. Enviro Pro Green Innovations (S) Pte Ltd (Singapore)

Embedding Water in Urban Planning with an Interactive Model, Lesson from a Case Study in Amsterdam

J. Leskens, V. L. Elgard, T. Tutenel. Nelen & Schuurmans Consultants (Netherlands)

Empirical Analysis of Water Consumption for Cooling Towers in Electronics Manufacturing Facilities

W. S. Lin, W. Den. Industrial Technology Research Institute (Taiwan)

Energy Recovery from Municipal Wastewater

X. W. Zhang. Monash University (Australia)

Enhanced NOM Removal by Novel Hollow Fiber Nanofiltration Combined with Granular Activated Carbon Filters

A. Keucken, P. Ericsson, K. Persson, R. Dekker. VIVAB (Sweden)

Enhancement on Odour Management at SCISTW for the HATS Stage 2A, Hong Kong

H. Lee, S. Tsang, D. Pickles, F. Whyte, Z. Yuen, H. Chau. Arup (Hong Kong)

Enhancing Solid/Liquid Separations Efficiencies in a Ballasted Solids Contact Clarifier Using CFD

K. Prakash, R. Kandasamy, R. Wikramanayake. Siemens Water Technologies Ltd (Singapore)

Environmental Tax Policy and Incentives for Aquifer Protection

D. L. Jarvie. University of Lethbridge/ Monash University (Canada)

Evaluating Geomorphic and Temporal Factors in Regulating Nitrogen Availability in Streams in Southwestern Alaska

D. Devotta, J. Fraterrigo, P. Walsh, S. Lowe, R. Kelly, D. Schindler, T. Sands, F. S. Hu. University of Illinois at Urbana-Champaign (United States)

Evaluating the Antifouling Effects of Silver Nanoparticles Regenerated by TiO₂ on Forward Osmosis Membrane

L. Zou, A. Nguyen. University of South Australia (Australia)

Evolution on the Water-Oil Separation in Refineries and Improvement on the VOC Control

C. A. Allen. HMT (United Kingdom)

Experiences with Mechanical Pre-Treatment on Municipal Submerged Membrane Bioreactor (SMBR) Validation Plant

R. Conde, R. Wikramanayake, S. K. Venkatesan, K. Shanmugam, H. B. Ding. Siemens Pte Ltd (Singapore)

Experimental Study of Regeneration Process Using Memsys Module in LDAC System

K. Zhao, W. Heinzl, P. Manoharan, G. Lange, F. Bollen, N. Sarda, F. H. Choo, J. M. Kum, B. Li, S. Dubey. Memsys Clearwater Pte Ltd (Singapore)

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Field-Ready & Real-Time Detection of Microbiological Threats in Energy Applications

P. Whalen. LuminUltra Technologies Ltd (Canada)

Finally, an International Certification for Reverse Osmosis Plant Personnel!

D. Paul, L. Awerbuch. David H. Paul, Inc (United States)

Flood and Wastewater Management in an Irrigated Coastal Region – A Case Study from the Indus Basin Pakistan

Z. Habib. (Pakistan)

Flood Protection and Water Resiliency for Critical Facilities in the New York City Region

E. Westerhof, P. Dircke. ARCADIS U.S., Inc. (United States)

Flood Risk Management along Urban Roads

H. Nandalal. University of Peradeniya (Sri Lanka)

Fluorescent Transgenic Zebrafish as a Convenient Tool for Biomonitoring of Water Contamination

X. Zhang, Z. Gong. National University of Singapore (Singapore)

Forward Osmosis Softening of Seawater

A. Altaee, A. Mabrouk, K. Bourouni. University of West of Scotland (United Kingdom)

Fouling in Forward Osmosis Process

D. Hou, M. Zhang, Q. She, C. Tang, A. Childress. University of Southern California (United States)

Fresh Keeper, an Innovative Approach Against Increased Salinisation of Groundwater Wells

P. Ross, C. Merks, K. Raat, A. Oosterhof, R. Hoeijmakers. ARCADIS Nederland BV (Netherlands)

Full Automation Analysis of Halophenol Compounds by GC-MS Coupled with Headspace SPME and Acetylation Derivarisation

X. Qian, L. Zhang. PUB (Singapore)

Functional Metagenomic Analysis of the Antibiotic Resistome of Freshwater Systems

C. Ng, A. Low, X. C. Liu, J. Z. He, K. Gin. National University of Singapore (Singapore)

G

Greenhouse Gases Accounting and Establishing Water Footprint for a Water and Wastewater Utility Company in the Philippine Context

F. A. Arellano. Maynilad Water Services, Inc (Philippines)

Grey Water Reuse and Rainwater Harvesting in Hong Kong – Chances and Challenges

S. Shou, V. S. C. Mak. Black & Veatch Hong Kong Limited (Hong Kong)

Groundwater Management Strategies in Overexploited Tirumanimuttar Watershed, Tamil Nadu, India

N. Varadaraj, J. F Lawrence. Central Ground Water Board (India)

Groundwater Quality Assessment and Management Practices: A Case Study from Jhunjhunu Urban Agglomerate, Jhunjhunu District, Rajasthan, India

D. Sharma. Central Ground Water Board, Ministry of Water Resources (India)

Groundwater Quality in Pamba River Basin, Kerala – Characterisation & Options for Protection

N. Pullare. Central Ground Water Board (India)

Groundwater Replenishment: Optimising Performance of an Award-Winning System

W. Dunivin. Orange County Water District (OCWD) (United States)

Groundwater Vulnerability Assessment Using Multi-Techniques Hard Rock Aquifers Tamil Nadu, South India

K. Srinivasamoorthy, M. Vasanthavigar, S. Gopinath, S. Chidambaram. Pondicherry University (India)

H

Heat Energy Recovery from Sewers

F. Pamminger, D. Scott, L. Aye, M. Barrie. Yarra Valley Water (Australia)

Heterogeneous Photocatalysis Using Immobilised Nanostructured TiO₂ for Emerging Contaminant Elimination

M. Arnaldos, T. de la Torre, C. Rodríguez, C. Fernández-Rodríguez, J. M. D. Rodríguez, J. Malfeito. Acciona Agua (Spain)

Hierarchical Meso/Nanoporous TiO₂ Integrated Substrates for High Performance FO Membrane

H. Bai. Nanyang Technological University (Singapore)

High Crosslinked Membranes – Laboratory and Operational Results

J. Lipnizki, B. Adams, D. Lau, A. Sharpe. Lanxess Pte Ltd (Singapore)

High-Rate Ballasted Clarifier: An Efficient and Sustainable Process for Enhanced P Removal

R. Wikramanayake, R. Pepin, T. H. Yu. Siemens Water Technologies (Singapore)

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R. Kimball, M. Breitfuss. CDM Smith (United States)

Holistic Approach to Energy Recovery from Sludge and Biosolids

W. Barber. AECOM (Australia)

How Long Groundwater Can Be a Safe and Sustainable Source of Drinking Water for Small Urban Environ in Developing Nations? Case Study from Central Indian Craton

D. Tewari, A. Mukherjee. Ministry of Water Resources, Government of India (India)

How You Drive Your UV System is What Gets You Ahead

K. A. Barim, K. Meyer. Xylem Services GmbH (Germany)

Hybrid FRT Electrochemical Advanced Oxidation Processes – CDI Wastewater Treatment

R. Haddad. Free Radicals Technology (United Kingdom)

Hybrid Zero Valent Iron (hZVI) Treatment Innovation for Metals Removal in FGD Wastewater

C. Gudipati, F. Sassaman, R. Kandasamy, A. Sarkar, M. Wismer, R. Woodling. Siemens Private Limited (Singapore)

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M. G. Mostafa, S. M. H. Uddin, A. B. M. H. Haque. University of Rajshahi (Bangladesh)

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Y. Xiao. JDL Institute Goldilocks Group (Singapore)

Identification of Hydraulically Reversible and Irreversible Foulants in Hollow Fiber UF System

I. Baudin. Suez Environment (France)

Identifying and Measuring Defects in Sewerage Assets, Not Seen by Advanced Closed-Circuit Television Technologies

C. Hansen. Electro Scan Inc (United States)

Impact Assessment of Artificial Recharge to Groundwater – A Case Study in a Hardrock Terrain of India

S. Suresh, A. Subburaj, V. Elanchelian, K. A. Nambi, S. Sarangan, M. Sivakumar. Central Ground Water Board (India)

Implementation of Different Types of Sanitation Facilities in Low-Density Informal Settlements in North-Namibia: Capital Costs and Billing Systems

K. Muller, J. Felmeden, P. Cornel. Technische Universitat Darmstadt, Institute IWAR (Germany)

Implementation of Eventlab Sensor Network for Effective Online Water Quality Monitoring in the Pub Distribution Grid

C. K. Yong, C. L. Koh, M. K. Koerkamp, K. Ma, M. V. Wijlen. Optiqua Technologies Pte Ltd (Singapore)

Implementation of Online ICP-OES Water Quality Monitor for Desalination Brine Management

C. Wong, A. McElroy, B. Stuart, A. Taylor, A. Wilkie, D. Iddon, C. Staib. MWH (Australia)

Improved Asset & System Reliability by Improving the Workforce Planning, Scheduling & Execution

R. Bolton, D. Hand. Newport Consulting (Australia)

Improvement of Inundation Evaluation System to its Application to Real Time Inundation Prediction

T. Takahashi, Y. Hirayama, M. Takeda, N. Matsuo. Kajima Corporation (Japan)

Improvements in Sludge Level Measurement in Wastewater Treatment Plants

F. Honold, U. Franke. Xylem Analytics – WTW GmbH (Germany)

Increased Capacity and Optimisation of MBBR for COD Removal from Textile Wastewater

A. Din. Headworks International (United Arab Emirates)

Industrial Effluent Reuse with High Efficiency Biological Treatment and Membranes

A. Nguyen, Y. Ukai. Kuraray Asia Pacific (Singapore)

Innovations and Advancements in UV Technology at the Eastern Treatment Plant in Melbourne, Australia

S. Bindner, J. An, W. Lem. Trojan Technologies (Canada)

Innovations in Fluoride Removal Techniques for Water Production

J. Barbier, B. Adams, D. Lau, S. Neumann, K. Oke, M. Schroeder. Lanxess Private Limited (Singapore)

Innovative Green Approach for Water and Energy Resources Recovery from Industry Cooling Water System

B. Lai. Bechem Technologies Sdn Bhd (Malaysia)

Innovative Remote Pressure Sewer System Control to Overcome Challenges in Network Management

A. Blinman, A. Forster-Knight. South East Water Limited (Australia)

Innovative Stormwater Tank Control and Optimisation Software for Peak Flow Shifting

E. Mofardin, A. Blinman. South East Water Limited (Australia)

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H. Ding, R. Wikramanayake, M. Doyle, P. Gallagher, A. Erdogan. Siemens Water Technologies (Singapore)

Integrated Urban Water Management: Transitioning Towards Sustainable Urban Water Consumption

R. Brears. University of Canterbury (New Zealand)

Integrated Water Resources Management: New Water & Economic Evaluation Tools – Application to Spain

M. Aldaya, P. Martínez-Santos, R. Llamas. Water Observatory of the Botin Foundation and Complutense University of Madrid (Spain)

Intra-event Variability of Escherichia Coli in Stormwater Runoff from Different Land Use Sites in South Korea

A. Paule, C. H. Lee, S. A. Memon, H. G. Hul. Myongji University (Republic of Korea)

Introduction of a Novel Memsys Crystalliser

K. Zhao, W. Heinzl, S. Heinzl, G. Lange, F. Bollen, N. Sarda. Memsys Clearwater Pte Ltd (Singapore)

Investigation on Membrane Failure

A. Al Amoudi. SWDRI (Saudi Arabia)

Iris Domestica (L.) Goldblatt & Mabb. As a Nitrate Pollutant Phytoremediator in the Urban Tropics

B. L. Ong, X.T. C. Chen, J. Hu, W. K. Yau, G. S. Ong. National University of Singapore (Singapore)

K

Keythinker Foot Pedal Paves a Way to Tackle Water Crises

Y. Wang. Beijing Keythinker Technology Co. Ltd (China)

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Latex Rubber and Tyre Manufacturing Waste Water Treatment

I. Chua, R. Woodling. Siemens Pte Ltd (Singapore)

Laverton Recreation Reserve Stormwater Harvesting Project – Opportunities for Local Scale IWCM

M. Muthukaruppan, D. O'Keefe. City West Water (Australia)

Limits of Permeation for a One-Dimensional Ideal Forward Osmosis Membrane

L. Banchik, J. Lienhard V. MIT (United States)

Load Balancing Primary Lines

G. Carpio. Manila Water Company, Inc (Philippines)

Long Term Investment Planning for Sustainable Flood Risk Management

B. Harvey, I. Meadowcroft, J. Wicks, P. Neve. CH2M HILL (Malaysia)

Low Cost Biogenic Waste for Phosphate Capture from Aqueous System

R. O. A. Adelagun, N. A. Oladoja, A.O. Adesina, A. Ahmad. Federal University Wukari, Taraba State (Nigeria)

Low Pressure Hollow Fiber Softening Membranes for Brackish Water Applications

I. Chua, S. Zhao, C. Liu. Siemens Pte Ltd (Singapore)

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Management of Groundwater Natural Resources in Disaster Area to Ensure Environmental Sustainability

S. Nur Buana. Soegijapranata Catholic University (Indonesia)

Management of the Bhabhar-Terai Transboundary Aquifer System for Sustainable Groundwater Supply to Small Cities of Trans-Himalayan Areas of India – A Case Study

S. Shekhar, A. Mukherjee, A. Gupta. Central Ground Water Board (India)

Management of Water Resources for Irrigation and Drinking – A Case Study of Haryana (India)

R. Bansal, H. Singh, S. Singh. Haryana Government (India)

Managing Non-Revenue Water for Sustainable Utility Operations

B. Ramaley, A. Casey, W. Davis. CDM Smith (United States)

Managing Water Use in Scarce Environments: A Catalogue of Case Studies

T. Sagris, J. Abbott, Mark Tindale, M. Shouler. Ove Arup and Partners International Ltd (United Kingdom)

Managing the Health and Organoleptic Risks caused by Leaching from Plastic Materials: Epoxy Resins and PVC

A. Bruchet, Z. Doqang, S. Mendaza, B. Rabaud. Suez-Environnement-CIRSEE (France)

Managing Stormwater to Improve Resiliency and Livability in a Large Urban Housing Project

T. Schoettle, V. Roach, W. Harrouch. CDM Smith (United States)

Manila Water's Solution to Providing Cost-Effective Sewerage Service

R. Baffrey, C. Almario, A. Adis. Manila Water Company Inc (Philippines)

Market Demands and Establishment of Validation Procedures for High UV Dose Disinfection

K. Deguchi, E. Ishikawa, T. Fujii, S. Yamaguchi. Chiyoda Kohan Co., Ltd. (Japan)

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Membrane Desalination: How it Started and Where it's Heading to

V. Frenkel. ARCADIS (United States)

Membranes for Osmotic Power Generation

X. Li, S. Zhang, G. Han, F. J. Fu, T. S. Chung. National University of Singapore (Singapore)

Microfinance for Household Water and Sanitation: Lessons Learned in India

H. Arney, R. Thorsten, U. Shankar, PM Jose. Water.org (United States)

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J. W. Lim, J. Y. Wang. Nanyang Environment and Water Research Institute (Singapore)

Modelling and Optimisation of a Forward Osmosis Pre-Treatment for Brackish Water Desalination

F. Zaviska, L. Zou. University of South Australia (Australia)

Modelling of New-Generation Biomimetic RO Membranes: Exponential Increase of Water Flux

G. Goranovic, L. Yde, M. F. Gruber, M. Andersen, C. Helix-Nielsen, C. Tang, X. Chen. DHI-NTU Centre for Water Research and Education Hub (Singapore)

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R. Fullerton, R. Bibby. CH2M Beca Ltd (New Zealand)

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Monitoring of Iodine- and Gadolinium-Based Contrast Media in Water Treatment Facilities

A. K. Heng, J. Gandhi, P. Pfundstein, C. Martin, D. Flottmann. Metrohm Singapore (Singapore)

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L. M. Brand, A. Paz. LG Sound B.V. (Netherlands)

Monitoring Requirements to Avoid the Formation of Disinfectant By-Products (DBP)

M. Teo, R. Turner. Swan Analytical Singapore Pte Ltd (Singapore)

Multiphase Flow Modelling for Design and Optimisation of Stirred Mixing Tanks in Water Industry

A. Sarkar, R. Kandasamy, R. Woodling. Siemens Pte Ltd (Global R&D Centre) (Singapore)

Municipal Wastewater Treatment in Developing Countries: Comparable Alternative Anaerobic Cost-Effective Systems

W. Abdel-Halim, S. A. H. Halim, K. H. Rosenwinkel. Housing and Building National Research Center (HBRC) (Egypt)

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Natural Disasters Impact on the Water Cycle, Resources, Quality and Human Health in Bangladesh

M. S. Hossain, R. Saha. Institute of Water Modelling (IWM) (Bangladesh)

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S. Yoshikawa, K. Kitamura. Hitachi Ltd., Infrastructure Systems Company (Japan)

New Process to Utilise Desalination Brine and Municipal Waste Water Discharge

N. Moe, H. Ramanan, J. Barber, B. Narayanswamy. GE Power & Water (Singapore)

New Remineralisation Process Using Micronised Calcite

M. Poffet, N. Nelson, J. Kallenberg. Omya International AG (Switzerland)

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A. Hauser, K. Sathrugnan. TUV SUD (Singapore)

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A. Cao, S. Adachi, N. Matsunami, H. Kurisu, M. Yabashi. Hitachi Asia Ltd (Singapore)

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J. P. Arcangeli, H. Zhang, X. Qu. Shanghai Chemical Industry Park Sino-French Water Development Co., Ltd (China)

Not a Drop More Imported: City West Water's Integrated Water Cycle Management Strategy

M. Muthukaruppan, K. Fumberger, S. Torre, J. Chambers, S. Lloyd. City West Water (Australia)

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M. Dixon, D. K. Hak, C. J. Kurth. NanoH2O, Inc (United States)

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B. Li, L. Wang, H. Wang. Tianjin University (China)

Novel On-line Monitoring of Bacteriological Safety of Drinking and Cooling Water

H. Hoste, W. Delva, D. Laurier. AppliTek NV (Belgium)

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E. Cornelissen, D. Harmsen, B. Hofs, P. Sjoerdsma, I. Worm, J. Post. KWR Watercycle Research Institute (Netherlands)

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N. Sintawardani, T. Anggono, J. Triastuti, D. Nilawati. Research Center for Physics/Indonesian Institute of Sciences (Indonesia)

Obtaining Real-Time Kinetic Parameters on Ozone Decay from a Full-Scale Ozone Contactor Using the Axial Dispersion Reactor Model

D. Kim, I. Hee Yeo, I. Hyun. Dankook University (Republic of Korea)

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A. S. Stasinakis, K. Mazioti, A. G. Asimakopoulos, N. S. Thomaidis. University of the Aegean (Greece)

Oligonucleotide-Based Sensors for Heavy Metal Ions Detection in Water Monitoring

H. B. Teh, F. Yau, S. Li. National University of Singapore (Singapore)

Onsite Treatment of Ship Hulls' Drainage Waters by Means of an Innovative Compact Bioreactor

A. Capodaglio, A. G. Capodaglio, A. Callegari. University of Pavia (Italy)

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B. Mergelas. Water Technology Acceleration Project – WaterTAP (Canada)

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M. Z. Alam, A. Z. M. Shafi. International Islamic University Malaysia (Malaysia)

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G. Zoccolante. Siemens Water Technologies (United States)

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K. C. Perez, J. F. V. Geest, B. Versprille, J. Pereboom. Veolia Water Solutions & Technologies (Singapore)

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C. H. Kim, S. Lee, J. Lee, G. Jeong, H. Kim, H. Im. Woongjin Chemical Co. Ltd. (Republic of Korea)

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C. D. Piccolo, S. D. Lorenzi. Veolia Water Solutions & Technologies (Singapore)

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J. Wuijts, E. Van den Berg, E. Koetse, N. Wortel, M. Paardekooier. Waterboard (Hoogheemraadschap) Delfland (Netherlands)

Phosphate Removal Technology for Biofouling Prevention in RO Membranes

W. V. D. Ven, M. Paravidino, W. R. Hagen, M. C. M. V. Loosdrecht. BiAqua B.V. (Netherlands)

Pilot Plant Study of Memsys V-MEMD Module Using Waste Heat in the Power Plant

K. Zhao, W. Heinzl, Z. H. Ow, G. Lange, F. Bollen, N. Sarda. Memsys Clearwater Pte Ltd (Singapore)

Pilot Study of Pickling Liquid Treatment Using a Memsys Membrane Distillation System

S. Büttner, W. Heinzl, M. Wenzel, S. Heinzl, K. Zhao, P. Devidas. Memsys Clearwater Pte Ltd (Singapore)

Pilot Test of a UV Odour Control System at the Ulu Pandan Water Reclamation Plant, Singapore

R. Kandasamy, P. Rick, H. Lim, R. Woodling. Siemens Pte Ltd (Singapore)

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Pilot Testing of Automatic Fixed Correlating Sensors Leak Detection System

D. Solomon, Z. Efrat. Aquarius-Spectrum Ltd (Israel)

Plant Reliability Versus Energy Efficiency – Opportunity of Usage On-Line Data and Energy Monitor

H. Tippe. Endress+Hauser Messtechnik GmbH & Co KG (Germany)

Platform of On-Site Oxidant Generator for Water Treatment

Z. Xia, C. Sui, Y. Xu, X. Xie, X. Zhang, Z. Liu, Q. Huang. GE (China)

Point-of-Use Water Treatment in Rural Karst Region in Southern Java

K. Matthies, U. Obst. Karlsruhe Institute of Technology (Germany)

Polysaccharide Fouling in Forward Osmosis: Polysaccharide Adsorption and Accumulation on the Membrane

Z. Xie, L. Skillman, D. Li, G. Ho. Murdoch University (Australia)

Potential Applications of Pepper Mottle Virus as an Indicator of Enteric Virus Removal by Treatment Processes and Fate in the Environment

C. Gerba, M. Kitajima, W. Betancourt, K. Tuttle, A. Rachmadi, B. Iker, P. Pepper. University of Arizona (United States)

Practising Strategies of Achieving the Integrated Management of Water Resources as Perceived by Employees of the Ministry of Water Resources in Iraq

H. Abed. Ministry of Water Resources (Iraq)

Pretreatment of Power Plant Discharge for Seawater Reverse Osmosis (SWRO) Desalination

G. D. Kim, H. K. Roh. Doosan Hydro Technology (United States)

Privatisation of Domestic and Industrial Water Supply in Tamil Nadu, India – Lessons for Up-Scaling

P. Kuppannan, N. B. V. Palanichamy. International Water Management Institute (India)

Proactive Residual Chlorine Control in a Water Distribution System

D. Kim, I. Yeo, I. Hyun. Dankook University (Republic of Korea)

Process and Engineering Design Considerations for Semiconductor Wastewater Recycling

J. Lander, I. Wang, M. Chan. Duraflow, LLC (United States)

Procurement and Commissioning of the 2nd and Largest Seawater Desalination Facility in Singapore

S. V. Veerapaneni, M. Singaram, S. C. Tan, S. Saim, H. H. Ong, S. Venkataraman. Black & Veatch (United States)

Promoting Total Nitrogen Removal from Existing Aeration Basin using Entrapped Biomass Technology

C. F. Lin, H. L. Ruan, H. Chen. National Taiwan University (Taiwan)

Protecting Lives in Hong Kong: a Novel Approach to Flood Risk Assessment – River Flood Risk Study

K. Kwok, R. Roderick-Jones, S. Yan, F. Kan, E. Yuen, A. Fung. Ove Arup & Partners Hong Kong Ltd (Hong Kong)

Protozoan Classifications based on Biophysical Properties by Using On-Chip Immersion Refractometer

L. K. Chin, Y. Liu, L. Lei, S. Wee, T. C. Ayi, W. M. Ho, E. P. H. Yap, Y. Leprince-Wang, T. Bourouina. Nanyang Technological University (Singapore)

PTFE-made Microfiltration Membrane for Produced Water Treatment and Oil Refinery Application

K. Ida, T. Morita. Sumitomo Electric Industries Ltd (Japan)

PUB's Mobile Application: MyWaters

S. O. Fadzil. PUB, The National Water Agency (Singapore)

PumpWorX: A Proposed Pumping System Efficiency Index and System Classification Matrix – A Case Study

L. Reynolds. AquamatiX Ltd (United Kingdom)

Pursuit of Ultimate Energy Efficient Reverse Osmosis Membrane for Seawater Desalination

T. Sasaki, J. Okabe. Toray Industries, Inc (Japan)

Q

Quality Characteristics of Groundwater in Tsunami Affected Coastal Areas of Sirkali Region of Nagapattinam District, Tamil Nadu, India

R. Natarajamani. Annamalai University (India)

Quantitative Disease Risk Models for Wastewater Impacted Water During Floods

A. Erichsen, C. Joergensen, O. Mark, N. D. S. Domingo, G. Heinicke. DHI (Denmark)

Quest of Potable Groundwater in Arsenic Contaminated Geological Terrain and Role of Geogenic Control

A. Mukherjee, S. Shekhar, A. Gupta. Upper Yamuna River Board (India)

R

Radiological Monitoring of Boreholes in Abuja, North Central Nigeria

O. Maxwell. Universiti Teknologi Malaysia (Malaysia)

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R. Hoeijmakers, P. Ross. ARCADIS (Netherlands)

Rapid and Accurate Quantification of Antibiotic Biosynthetic Genes in Soil Microbial Community

T. H Le, G. Z. Zhou. National University of Singapore (Singapore)

Rapid and Sensitive Detection of Dibutyltin Dichloride in Water Samples

R. Hu, L. Zhang. PUB (Singapore)

Rapid and Sensitive Detection of Human Astrovirus in Water Samples by Loop-Mediated Isothermal Amplification with Hydroxynaphthol Blue Dye

X. Q. He, B. Y. Yang. Beijing Forestry University (China)

Rapid and Specific Detection of Bacterial Targets in Water Based on Isothermal Amplification Assay

W. L. Teng, A. M. Binte Anwar, S. Y. Chang, M. V-M Wong, T. T. Lim, M. Savill. PUB (Singapore)

Rapid Determination of Biological Activity in Drinking Water Using Second Generation ATP Test Kit

L. Yu, H. Zhang, P. Gao, C. H. Woo. PUB (Singapore)

Real-time Monitoring of Ozonation through On-line Estimation of Ct Value and AOC Formation

P. Ross, A. V. D. Helm, J. V. D. Broeke, L. Rietveld. Delft University of Technology (Netherlands)

Real-Time Optical Sensing Device for in Situ 3D Chemical Mapping

C. L. Ng, S. Senft-Grupp, H. Hemond. Singapore-MIT Alliance for Research and Technology Centre (Singapore)

Recommendations for Initial Non-Revenue Water Assessment

R. Liemberger. Miya Philippines (Philippines)

Reconciling the Expanding Water Needs of Cities and Agriculture in a World of 9 Billion

D. Percy. Faculty of Law, University of Alberta (Canada)

Reducing Risk in Desalination Plant Development through Lean Construction

J. Renner. Victaulic (United States)

Reducing SWRO Life Cycle Costs by Direct Coupling of UF and SWRO Systems

F. Knops. Pentair X-Flow (Netherlands)

Regulatory Audits of Water Safety Plans – a Practical Experience in Developing Strategies and Tools

P. Joshi, C. H. Chan, W. K. M. Ho, J. L. T. Tng. National Environment Agency (Singapore)

Removal of Cadmium by Activated Carbons Produced from Waste Rubber

V. Gupta, T. Saleh, A. Saadi. IIT Roorkee (India)

Removal of Heavy Metals by Using Cement Kiln Dust

M. Zayat, S. Elagroudy, S. E. Haggag. The American University in Cairo (Egypt)

Removal of Perfluorinated Compounds from Water Using Nanoscale Zero-Valent Iron

A. S. Stasinakis, O. S Arvaniti, H. R Andersen, Y. Hwang, N. S Thomaidis. University of the Aegean (Greece)

Removing Pharmaceuticals and Potent Compounds from Industrial Wastewater

M. DeMarco, E. Helmig, J. Rushing, P. Ross. ARCADIS (United States)

Removing Water Hyacinth on Lake Victoria as Strategy for Better Water Quality and Health Improvement

A. Namuli. MWODA (Mitukula Women's Development Association) (Uganda)

Renewable River Energies for Pollution Management in River Ganga at Varanasi

U. K. Choudhary, A. K. Singh, R. Jha. MMIT Varanasi (India)

Reverse Osmosis Membranes for Ethanol Enrichment

M. T. Nguyen, W. M. Samhaber. Hanoi University of Science and Technology (Vietnam)

Reversing Clogging in Imhoff Tank by Catalysed Hydrogen Peroxide Treatment

B. S. Lee. Indah Water Konsortium (Malaysia)

Riyadh Water Supply Programme – Success in Fast-Track Delivery

D. Jones, A. Al-Mansour. AECOM (Saudi Arabia)

Robust and High Performance Hollow Fiber Membranes for Pressure Retarded Osmosis Process

R. Wang, S. Chou, T. Fane. Nanyang Technological University (Singapore)

S

Saving Energy and Optimising Operations Using Real-Time Pump Scheduling

D. Thomas, S. Mishra, J. Little, W. Spittal, S. Jobson, B. Wan. AECOM (Canada)

Screening Large Areas for SUDS Using a GIS Approach for Multi-Purpose Improvements in Efficiencies

Z. Todorovic, N. Breton. Atkins (United Kingdom)

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A. Bruchet, N. Noyon, S. Besnault, M. J. Capdeville, C. Miege. Suez-Environnement, CIRSEE (France)

Seawater Desalination – Lesson from Euryhaline Fish

Q. Lin, S. H. Lam, Z. Li, Y. K. A. Ip, T. J. Lam, C. N. Ong, D. Yang. National University of Singapore (Singapore)

Security by Design for Water Facility

C. Liu, T. S. Lok. K&C Protective Technologies Pte Ltd (Singapore)

Semizentral Germany – Integrated Infrastructure Solutions for a More Resilient Future of Fast Growing Urban Regions

S. Bieker, P. Cornel. Technische Universität Darmstadt (Germany)

Sensors and Strategies for Safe and Secure Potable Water

I. Pepper, S. Sherchan, H. W. Yu, S. Snyder. The University of Arizona (United States)

Sensors for Fouling Control of RO Membranes

A. G. Fane, L. N. Sim, A. H. Taheri, J. Gu, S. T. V. Sim, T. H. Chong, A. Yeo, H. G. L. Coster, W. B. Krantz. Nanyang Technological University (Singapore)

Separation of Dispersed Oil Droplets from Oil-in-Water Emulsions in Crude Oil Refineries

A. Verma, S. Suresh, M. Joshi. General Electric India Technology Centre (India)

Silicon Carbide Membranes – Simply, Better

R. Huang, A. Soh, W. M. Lee. LiqTech Pte Ltd (Singapore)

Smart Materials for Oil-Water Separation

P. W. King. Abdullah University of Science and Technology (Saudi Arabia)

Smart Water Grid in Singapore – Energy Optimisation

A. Preis, K. Peng, E. Chin, K. C. Lai, J. Lau, K. H. Ong, M. Allen, M. Iqbal, A. J. Whittle. Visenti Pte Ltd (Singapore)

Smart Water Grid Technologies in Asia

M. V. Wijlen, A. Hauser, A. Cahn. Optiqua Technologies Pte Ltd (Singapore)

Smart Water Meter Project – Singapore Residential End Uses of Water Analysis

W. C. Wong, T. W. Kok, G. Kalyanaraman, E. Chin, K. S. Lee, Y. C. Lee, B. New. PUB (Singapore)

Soft Infrastructures for Flood Risk Management in Dar Es Salaam and Copenhagen

P. Mguni, M. B. Jensen, L. B. Herslund. University of Copenhagen (Denmark)

Sorption Characteristics of Sewage-Associated Microbial and Chemical Indicators onto Tropical Soil

F. Mahsa, N. H. Tran, J. Hu, S. L. Ong. National University of Singapore (Singapore)

Spatially-Averaged Diffusivities for Pollutant Transport in Vegetated Flows

J. Huang, V. P. Chua, X. Zhang. National University of Singapore (Singapore)

State-of-the-Art Technology in Flow Meter Verification

R. Weiss. Endress+Hauser Flowtec AG (Switzerland)

Strategic Directions for Water Utilities in the United States: Insights and Perspectives for Global Utilities

C. Wallis-Lage. Black & Veatch (United States)

Study Of Double Breakpoints During Chlorination Of River Yamuna Water, Delhi (India)

L. Kumar. Delhi Jal Board, Government Of NCT Delhi (India)

Study of Water Quality in a Tropical Pond in Singapore

U. Joshi. National University of Singapore (Singapore)

Study on the Relationship between the Treatment Ability of Sewage and the Biochemical Characteristics of Dominantly Growing Bacteria in Sewage Treatment Plant

B. S. Lee. Indah Water Konsortium Sdn Bhd (Malaysia)

Study on the Strategy for Promotion of Water Reuse in Taiwan

Y. P. Lee, H. L. Juan, S. J. Liu, W. F. Yu. Chung Yuan Christian University (Taiwan)

Suitable Technology for Recovery of Cleaning Agents from Bottle Washers Under Consideration of Local Conditions

L. Q. T. Nguyen, M. Engelhart, M. Wagner, P. Cornel, V. A. Nguyen. IWAR, Darmstadt Technical University (Germany)

Superior Performance of Immersed UF for RO Pre-Treatment on a Middle-East Tertiary Application

M. Blazeovski, K. Mende, B. Khader, J. Cadera, E. Schoepke, A. B. H. Hamida. GE Water and Process Technologies (Canada)

Surface Interaction Controlled Limiting Flux Phenomena for Colloidal Fouling

C. Tang. The University of Hong Kong (Hong Kong)

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H. Wu. University of Oxford (United Kingdom)

Sustainability Assessment of Centralised and Dual Water Distribution System

N. Y. Aydin, T. Schmitt. University of Kaiserslautern (Germany)

Sustainable Clean Water Access: Role of Union of Community Development Volunteers (UCDV)

J. Buganga. Makerere University (Uganda)

Sustainable Recreation – Finding the Right Balance

D. Gregory, J. Pruss, P. Dennis. Seqwater (Australia)

Sustainable Water Disinfection. A Novel Approach to PUB – Case Study of 60 MGD LSWW Project

V. Karunanithi, J. Chen, K. T. Teo, K. Gan. Black & Veatch (Singapore)

Sustainable Water Resources Management in Arid and Semiarid Regions of the World: A Case Study in Iran

N. T. Shirazi, G. Azizyan. International Campus of University of Sistan and Baluchestan (Iran)

Sustainable Water Supply to Port Blair Town, Andaman Island, & India, with Special Reference to Inter Island Transfer of Spring Water

A. Kar. Central Ground Water Board (India)

Sustainable Water Supply by Using Native Sources in Haveri Town: A Case Study from India

J. Divakaran, K. T. Perumal. CDM Smith India Private Limited (India)

SWRO Brine with Wastewater

B. Liberman. IDE Technologies (Israel)

Sydney Desalination Plant Mothballing – the Project, Challenges and Lessons Learnt

G. Ovens, S. Bahl, A. Lagny. Sydney Desalination Pty Ltd (Australia)

Synthetic Greywater Treatment Using Zero-Valent Iron-Based Fenton-Like System

S. N. Zhu, D. Tsang. Hong Kong Polytechnic University (Hong Kong)

System to Maintain Dissolved Oxygen Levels in Gowanus Canal, New York City

D. Clidence. ECO Oxygen Technologies, LLC (United States)

T

Tampa Bay Sea Water Desalination Facility Optimisation (First Years of Operation 2007-2013)

P. Miranda, A. Martorell, E. Palacios. Acciona Agua (Spain)

Technical Solution to Prevent Build-Up of Lime Deposit in the Lime and Carbon Dioxide Dosing System

K. A. Ong, O. K. Lim, P. C. Koh. PUB Singapore (Singapore)

Technological Advances in the Permanent Monitoring of Large Diameter Transmission Mains for Leakage and Transients

M. Bracken. Echologics (Canada)

Technology Developments in Forward Osmosis to Address Water Purification

J. Webley. Trevi Systems Inc. (United States)

The Application of Appropriate Technology for Water Distribution System Planning in Developing Areas

L. Geustyn, K. Kinsbergen, T. Rust. GLS Consulting (South Africa)

The Benefits of Enhanced and Accelerated Biological Monitoring Capabilities for Membrane Treatment

P. Whalen, D. Tracey. LuminUltra Technologies Ltd. (Canada)

The Causes and Solutions of the Secondary Water Supply Management Problem

S. Shu, X. Zheng. NERC (China)

The Challenge of Improving Urban Water Services: Evidence from Performance-Based Contracts in India

O. Jensen. Global Water Intelligence (Singapore)

The Effect of NOM Character on the Ozonation of Geosmin

J. Wun Kang, S. Kim, Y. Yoon, Y. Ahn, B. Hun Jeon. Yonsei University (Republic of Korea)

The Effects of Biomass and Temperature on Maximum Ammonia Oxidation Rate in Wastewater Treatment

S. Wang, Y. Zhang. Beijing University of Technology (China)

The Effects of Excess Activated Sludge Solubilisation Using Catalysed Hydrogen Peroxide

L. B. Sing. Indah Water Konsortium Sdn Bhd (Malaysia)

The Goldfields Water Supply, 100 Years+

C. Stone. Acciona Agua Australia Pty Ltd (Australia)

The Integrated Approach to Enflo-Daf™ Design for the 21st Century

T. Amato. Doosan Enpure Ltd (United Kingdom)

The Planning, Design, & Construction of Thames Water's Lee Tunnel Project, London

R. Sutherden, R. Mitchell. AECOM (United Kingdom)

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P. Yolles, D. Brent. WaterSmart Software (United States)

The Practice of Control Non-Point Source Pollution by Soil and Water Conservation Measures in Northeast, China

L. Meng, B. Yan. Songliao Water Resources Commission (China)

The Process Performance and Fate of Boron in a Multi-Stage Forward Osmosis Process for Integrated Water Management

Z. Li, R. V. Linares, M. Abu-Ghdaib, G. Amy. King Abdullah University of Science and Technology (Saudi Arabia)

The Regulation of Shenzhen River Stage IV Jointly by Shenzhen and Hong Kong

W. H. Luk, A. Kwok. Drainage Services Department (Hong Kong)

The Sustainability of Water Supply – Desalination and Alternatives in the Tropics: US Virgin Island

H. Minnigh, G. Ramirez, H. Mark, M. Diaz, A. Lewis. Gabriella and Paul Rosenbaum Fdn (Puerto Rico)

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J. Clere, C. Dupont. Veolia Water (France)

The Use of MBR Systems in Breweries and Beverage Industry – Maximum “Purity” of Even Wastewater

T. Hackner, S. Meuler, F. Heindl, H. L. Ooi. HUBER SE (Germany)

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G. Ozair, Y. A. A. Ayed, M. O. A. Feda. Power & Water Utility Company (Marafiq) for Jubail & Yanbu (Saudi Arabia)

To the Water Delivery Problems from Toktogul Reservoir to the River Syrdarya Lower Reaches and the Northern Small Aral Sea

Y. Popov. Ecotera Ltd. (Kazakhstan)

Towards Sustainable Municipal Water Services in South Africa: Harnessing Local Government Vulnerability Self-Assessment

G. Mackintosh, A. Wensley, F. Stevens. Emanti Management (South Africa)

Toxicity of Arsenite and Arsenate in the Denitrifying Bacteria

S. R. Panthi, T. Thompson. WHO Nepal (Nepal)

Trace Boron Analysis in NEWater and Other Water by Plasma-Based Spectrometric Methods

W. N. Yap, K. Y. Lim, Y. Liu, Z. Guo. PUB (Singapore)

Treatment of Artesian Well Water with High Manganese Concentration

A. Perfilev, A. Chirikov, A. Yudakov, Y. Badulin, V. Slesarenko, D. Chervonetskiy. Institute of Chemistry, Far-Eastern Branch of Russian Academy of Sciences (Russian Federation)

Treatment of Blue Algae Bloom Using a Mobilised Electrochemical AOP Pilot Platform in Lake/Reservoir

Y. Li. Haohan Tsinghuaer Technology Technology (Group) Co. Ltd. (China)

Treatment of Hospital Wastewater by MBR Followed by Ozone and GAC

U. Nielsen, C. H. Hauerberg, M. M. Klausen, J. Søholm, J. Tuerk. DHI (Denmark)

Treatment of Landfill Leachate with Membrane Technologies

F. Li. Rochem UF-Systeme GmbH (Germany)

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Underground Spaces – Practical Experience and Lessons Learnt on Benefits and Limits for a Sustainable Alternative to Aboveground Developments

C. Simmermacher. CH2M HILL (Singapore)

Urban Harvest: Quantification of Innovative Water Technologies & Concepts for Improved Water Cycles

I. Leusbrock, C. Agudelo, K. Keesman, G. Zeeman, H. Rijnaarts. Wageningen University (Netherlands)

Using Key Performance Indicators to Deliver a Successful Municipal Capital Improvement Programme

E. Adams, L. Ramirez, M. Palaviccini, R. Frias. CDM Smith (Puerto Rico)

Using the Smart Grid for Water to Future-Proof Our Utilities and Cities

G. Symmonds, T. Hill. Global Water Resources (United States)

Utilising a Water Smart Grid for Operational Benefit and System Resiliency

R. Kadiyala, C. Newberry. CH2M HILL (United States)

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C. Scurtu, C. Senstad, A. Nebelung, L. Hem. Oslo Water and Sewerage Works (Norway)

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S. Jeong, G. Naidu. University of Technology, Sydney (UTS) (Australia)

Victorian Desalination Plant: Successful Fast-Track Commissioning and Operational Start-Up of the World Largest SWRO

M. Sanz, P. Mazounie, V. Bonnelye. Degrémont (France)

Vision for the Australian Water Industry Till 2030

S. Wilson, A. Lovell. Water Services Association of Australia (Australia)

W

Waste-to-Value: Converting High Chlorine Wastewater to Usable Chemistry

T. Muilenberg. MIOX Corporation (United States)

Wastewater Pump Clog Resistance Cannot be Determined by Throughlet Size

S. Abelin, M. Karlen. Xylem Water Solution (Sweden)

Wastewater Reuse: Managing Salinity Issues in Agricultural Irrigation

N. Kathijotes. Cyprus University of Technology (Cyprus)

Wastewater Treatment and Recycle: an Overview of the Effluent Treatment/Water Recovery Plant for a Petrochemical Plant, India

K. P. Yagna, R. Harish. VA Tech Wabag Ltd (India)

Wastewater Treatment of Dairy Factory by Using Submerged Membrane Microfiltration Process

A. Alsaffar, A. Al-Sairafi, M. Salman. Kuwait Institute for Scientific Research (Kuwait)

Water Accessibility to Rural Communities in Kampong Cham and Banteay Meanchey Provinces of Cambodia

P. Kapoor, R. K. Gupta. WAPCOS Limited (India)

Water and Health Status in Tamil Nadu

N. Perumalsamy. Yadava College Madurai (India)

Water Conservation Concern in Yogyakarta Destination, Indonesia

A. Suyanto. Yogyakarta School of Environmental Engineering (Indonesia)

Water Conveyance by Tunnelling

D. Ifrim, D. Zoldy. AECOM (Canada)

Water Loss Component Analysis Used for Setting Economic Targets

M. Nicol, J. Thornton. Echologics (Singapore)

Water Quality Monitoring – Turning Data from Online Sensors into Information

F. Edthofer, A. Weingartner, J. V. D. Broeke, K. Thompson. S::can Messtechnik GmbH (Austria)

Water Quality Sensors Network Return of Experience

C. Lemoine, P. Wolfe, T. Fer. Veolia Water Solutions & Technologies (Singapore)

Water Quality Studies on Viruses and Bacteria in Ballast Water Using Metagenomics

Y. Kim, T. Aw, J. Rose. Michigan State University (United States)

Water Requirements, Supply, Consumption and Disposal for Dairy Industry

B. Fatima, F. E. A. Afridi. Government of Pakistan (Pakistan)

Water Safety Planning Cycle – Closing the Loop

J. Williamson, K. Macleod. Canterbury District Health Board (New Zealand)

Water Safety Plans

H. Singh. Fiji National University (Fiji)

Water Supply Optimisation through Integrated Water Resource Management Methods

G. Garcia, G. Bravo. Abeinsa Business Development (Spain)

Water/Wastewater/Stormwater Infrastructure Resilience – Key Learned Lessons from the Christchurch Earthquake Sequence

G. Macdonald, D. Hunt, D. Heiler, G. Offer. Beca Ltd (New Zealand)

Water: New Approach in the Challenges of Security Policy

S. Sandor. Embassy of Hungary in Singapore (Singapore)

Watering the Globe – MBBR/IFAS Provides Enhanced Removal Efficiency for Upgrading Decentralised STP

C. Rapheal. Headworks USA (United Arab Emirates)

Watershed and Sustainable Clean Water Access: Role of Union of Community Development Volunteers (UCDV)

J. Buganga. Peace and Conflict Programme (Uganda)

When the Well Is Dry, We Will Then Know the Worth of Water

K. Nicolle. Lincoln University (New Zealand)

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REGISTRATION INFORMATION

Please register online at www.siww.com.sg before 31 March 2014 to enjoy the early bird registration discount.

ACCOMMODATION

The list of official hotels for SIWW 2014 will be available at www.siww.com.sg. Reservations may be made online through the website.

CONTACT INFORMATION

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Detailed information is also available at www.siww.com.sg/water-convention.



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CONFERENCE FEE

	EARLY BIRD REGISTRATION (ENDS 31 MARCH 2014)	TICK	FULL RATES (FROM 1 APRIL 2014)	TICK
FULL CONFERENCE FEES				
Non-Member	\$1,440		\$1,600	
Members of Singapore and International Advisory Group and International Supporting Organisations	\$1,280		\$1,440	
Strategic Partners	\$1,120		\$1,280	
Oral and Poster Presenters	\$960		\$1,120	
Staff of Partner Institutions	\$800		\$800	
Delegates from Low Income Countries	\$640		\$800	
Onsite registration (after 26 May 2014)			\$1,600	
DAY PASS				
1 JUNE 2014 []			\$150	
3 JUNE 2014 []		4 JUNE 2014 []		
Non-Member	\$630		\$700	
Members of Singapore and International Advisory Group and International Supporting Organisations	\$560		\$630	
Strategic Partners	\$490		\$560	

- Strategic Partners refers to staff and members of SIWW Strategic Partners (IDA, IWA, LKY SPP, SWA, ADB, World Bank).
- Countries eligible for Low Income rate refers to countries classified in the Low-Middle and Low Income Countries as indicated on www.worldbank.org
- The registration fee for Water Convention Full Package includes entrance to the Water Convention sessions, Water Convention Hot Issues Workshops, Opening Ceremony & Welcome Reception, Closing Dinner, Lunches and Tea-breaks.
- The registration fee for Water Convention Day Pass on 3 and 4 June includes the entrance to the Water Convention sessions, Lunch and Tea-breaks.
- Day Pass Holders will need to make additional purchases for the various Networking Events.
- All Water Convention passes include entrance to Water Expo, World Cities Summit Expo and WasteMET Asia Expo.
- All delegates are to register on-site after 26 May 2014. Proof of Association Membership is required to enjoy preferred rates.
- Advance Registration preferred rates will only be applicable for registration and payment received before 31 March 2014.
- If you require an invitation letter for VISA application, please email us at waterconvention@siww.com.sg
- Registration fees must be settled in full prior to event commencement.
- There will be no refunds for cancellations but replacements will be allowed after payment.
- All prices are quoted in Singapore Dollars. Additional 7% Goods and Services Tax will be applicable for all Singapore delegates.

NETWORKING EVENTS

Admission to the Opening Ceremony & Welcome Reception and Closing Dinner is included for delegates who purchase the Water Convention Full Package. Please indicate your attendance. Additional admission ticket(s) can be purchased for accompanying guest(s).

	DATE	FEE	DELEGATE ATTENDANCE		ADDITIONAL TICKET(S)
			YES	NO	
Opening Ceremony & Welcome Reception	1 June 2014 (Evening)	\$150			
Lee Kuan Yew Prize Award Ceremony & Banquet	2 June 2014 (Evening)	\$500			
Closing Dinner	4 June 2014 (Evening)	\$150			

If you are interested to purchase a table for 10 persons, please contact the organiser at info@siww.com.sg

PERSONAL DETAILS OF DELEGATE

Title:	First Name:	Last Name:	
Job Title:	Organisation:		
NRIC/Passport Number:	Age: < 25 [] 25-35 [] > 35 []	Email:	
Address:	Country:	Postal Code:	
Contact Number:	(Office)	(Mobile)	(Fax)

NETWORKING EVENTS REGISTRATION INFO (ADDITIONAL TICKETS)

FULL NAME	ORGANISATION (IF ANY)
1.	
2.	

METHOD OF PAYMENT

All bank charges are to be borne by delegate.

I enclose a cheque / bank draft for SGD payable to "Experia Events Pte Ltd"

Please debit my Visa / Mastercard for the amount of SGD _____

Bank Transfer / Telegraphic transfer
 Beneficiary : Experia Events Pte Ltd
 Bank Name : United Overseas Bank Limited, Raffles Place Branch
 Bank Address : 80 Raffles Place, UOB Plaza 1, Singapore 048624
 Account No. : 301-301-618-4
 Swift code : UOVBSGSG Branch code: 7375 Branch code : 001

Card No. _____

Name on card: _____

Expiry Date (MM/YY): _____ Signature: _____

HOTEL ACCOMMODATION

The conference fee does not include hotel accommodation. Please make your bookings online via www.siww.com.sg to enjoy special rates.

REGISTRATION CONTACT

Singapore International Water Week Pte Ltd
 Tel: +65 6595 6147 Fax: +65 6542 8683 Email: waterconvention@siww.com.sg
 Website: www.siww.com.sg



INTERNATIONAL WATER ASSOCIATION (IWA)

The International Water Association is a global reference point and network of water professionals spanning research and practice, and covering all facets of the water cycle. Through its network of members, partners and experts in research, practice, regulation, industry, consulting and manufacturing, IWA is in a better position than any other organisation to create innovative, pragmatic and sustainable solution to current and future global water challenges.

The strength of IWA lies in the professional and geographic diversity of its members. This global mosaic of national, corporate and individual member communities allows multi-level collaboration, generating knowledge and expertise exchange on all aspects of the science, research, practice and management of water.



PUB, SINGAPORE'S NATIONAL WATER AGENCY

About PUB, the national water agency

PUB is a statutory board under the Ministry of the Environment and Water Resources. It is the national water agency that manages Singapore's water supply, water catchment and used water in an integrated way.

About PUB's tagline: Water for All: Conserve, Value, Enjoy

PUB has ensured a diversified and sustainable supply of water for Singapore with the Four National Taps (local catchment water, imported water, NEWater, desalinated water).

To provide water for all, PUB calls on all to play our part to conserve water, keep our water catchments and waterways clean and build a relationship with water so we can enjoy our water resources. If we all play our part, we can have enough water for all our needs – for industry, for living, for life.



LEE KUAN YEW WATER PRIZE SPONSOR:



FOUNDING SPONSORS:



STRATEGIC PARTNERS:



ORGANISED BY:

Singapore International Water Week Pte Ltd, a company set up by Singapore's Ministry of the Environment and Water Resources and PUB, Singapore's national water agency.



EVENT ORGANISER:

an **experia** event

ENDORSED BY:



HELD IN:



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