

Water Solutions for Liveable and Sustainable Cities

Sands Expo & Convention Centre, Marina Bay Sands

1 – 5 July 2012



WATER CONVENTION ADVANCE PROGRAMME



Water Convention is jointly organised by:



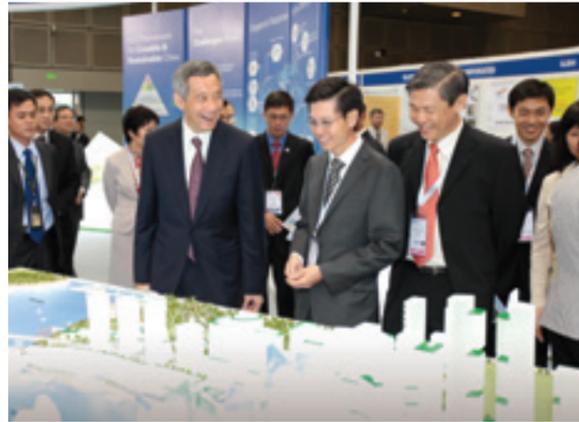
International
Water Association



Water for All: Conserve, Value, Enjoy

www.siww.com.sg

SINGAPORE INTERNATIONAL WATER WEEK



The Singapore International Water Week is the global platform that brings policymakers, industry leaders, experts and practitioners together to address challenges, showcase technologies, discover opportunities and celebrate achievements in the water world.

The event's flagship programmes are

- **Lee Kuan Yew Water Prize**
- **Water Leaders Summit**
- **Water Convention**
- **Water Expo**
- **Business Forums**

The theme for Singapore International Water Week 2012 is "Water Solutions for Liveable and Sustainable Cities".

WATER CONVENTION 2012

The United Nations projects that by 2050, urban and industrial water use will double while climate change and rapid urbanisation will place mounting pressures on urban systems. Beyond the basic provision of water supply and wastewater services, water management is crucial for cities to be liveable and sustainable.

The theme for Singapore International Water Week 2012 is "Water Solutions for Liveable and Sustainable Cities". In line with the overall theme, the Water Convention provides a platform for water professionals to share experiences, in particular case studies or practical applications that showcase technological solutions and/or management strategies which improve the efficiency and effectiveness of water and wastewater systems, as well as examine issues related to urban water planning and water quality and health.

In the face of global urbanisation and climate challenges, the theme "Water Solutions for Liveable and Sustainable Cities" reinforces the pressing need to integrate sustainable water management strategies into the urban planning process.

The four themes for Water Convention 2012 are:

1. **Delivering Water From Source To Tap**
2. **Effective and Efficient Wastewater Management**
3. **Cities of the Future**
4. **Water Quality and Health**

PROGRAMME AT A GLANCE

Programme @ A Glance					
Information accurate as of 27 Feb 2012					
DATE	MORNING	LATE MORNING	AFTERNOON	LATE AFTERNOON	EVENING
1 July Sun	Golf Classic		Networking Events		Opening Ceremony & Welcome Reception
	SIWW & WCS Onsite Visits				
	TechXchange Workshop				
	Water Convention Hot Issues Workshops				
	WCS Mayors Forum				
2 July Mon	In Conversation		Lee Kuan Yew World City Prize Lecture & Singapore Water Lecture	Water Convention	Lee Kuan Yew Prize Award Ceremony & Banquet
	Opening Plenary			Lee Kuan Yew World City Forum	
	CESS				
	Water Expo, WCS Expo, WasteMET Asia Expo				
	Co-located Events				
3 July Tues	Water Leaders Summit Roundtable & Workshops		Business Forums		Networking Events
			Industrial Water Solutions Forum		
	Water Convention				
	Water Expo, WCS Expo, WasteMET Asia Expo				
	WCS Plenary & Flagship Urban Solutions Tracks				
4 July Wed	CESS				Closing Dinner
	Water Convention				
	Business Forums				
	Water Expo, WCS Expo, WasteMET Asia Expo				
5 July Thu	WCS Onsite Visits		WasteMET Asia Onsite Visits		Networking Events
	SIWW Onsite Visits		Networking Events		
	Co-located Events				

PROGRAMME COMMITTEE

CHAIRPERSONS

1. Harry Seah, Director, Technology & Water Quality Office, PUB (Singapore)
2. Darryl Day, General Manager, Sustainability, Power & Water Corporation (Australia)

MEMBERS

3. Anand Chiplunkar, Principal Water Supply and Sanitation Specialist (PPP), Regional and Sustainable Development Department, Asian Development Bank (Philippines)
4. Chen Xiaohua, Engineering Director, Veolia Water Solutions & Technologies (China)
5. Chong Hou Chun, Director, Water Supply Network, PUB (Singapore)
6. Christoph Luethi, Senior Scientist, Water and Sanitation in Developing Countries (SANDEC), EAWAG (Switzerland)
7. Chua Bing Guan, Regional Manager (Southern), Indah Water Konsortium (Malaysia)
8. David Spector, Managing Director, CDM Smith Engineering (Singapore)
9. Francisco Arellano, Head, Environmental Management & Development, Maynilad Water Services, Inc. (Philippines)
10. Johan Groen, Chief Technology Officer, Xylem Inc. (United States)
11. John Langford, Director, Melbourne Water Research Centre, University of Melbourne (Australia)
12. Jonathan Clement, Director, Strategic Business Development, PWN Technologies (The Netherlands)
13. Josef Klinger, Executive Director, TZW (Germany)
14. Kala Vairavamoorthy, Professor and Director of School of Global Sustainability, University of South Florida (United States)
15. Marion Savill, Executive Director, Science Innovations (New Zealand)
16. Ong Choon Nam, Expert Panel Member, Guidelines for Drinking Water Quality, World Health Organisation
17. Pamela Kenel, Global Practice Technology Leader, Black & Veatch (United States)
18. Pascal Dauthuille, Director, Projects, CIRSEE Suez Environnement (France)
19. Robert Bos, Co-ordinator, Water, Sanitation, Hygiene and Health (WSH), World Health Organisation (Switzerland)
20. Robert Skinner, Professorial Fellow, Centre for Water Sensitive Cities, Monash University (Australia)
21. Shane Snyder, Professor, University of Arizona (United States)
22. Virgilio C. Rivera, Group Director, Corporate Strategy and Development Group, Manila Water Company Inc. (Philippines)
23. Yoji Matsui, Director, Training and International Department, Japan Water Works Association (Japan)

Legend	Singapore International Water Week (SIWW)	World Cities Summit (WCS)	CleanEnviro Summit Singapore (CESS)	Joint Events
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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

First and foremost, please accept my warmest invitation to attend Singapore International Water Week 2012.

The Singapore International Water Week (SIWW) is the global platform for water solutions. It brings policymakers, industry leaders, experts and practitioners together to address challenges, showcase technologies, discover opportunities, and celebrate achievements in the water world. With flagship programmes comprising the Water Leaders Summit, Water Convention, Water Expo, and Business Forums, the highlight of the Water Week is the Lee Kuan Yew Water Prize, a prestigious international water award to honour outstanding contributions towards addressing global water challenges.

The fourth edition of SIWW surged to a new high in 2011, with more than 13,500 participants from 99 countries and regions. This marks a growth in attendance figures of almost 60% since the inaugural event in 2008. The total value of announcements for projects awarded, tenders, investments and R&D MOUs reached S\$2.9 billion. The Water Convention alone saw more than 1,100 delegates from 64 countries, during which over 145 oral presentations and 160 poster presentations were made.

We are now gearing up for SIWW 2012, to be held from 1 to 5 July 2012 at Singapore's Marina Bay Sands. Themed "Water Solutions for Liveable and Sustainable Cities", the Singapore International Water Week 2012 will be organised in conjunction with the 3rd World Cities Summit and the inaugural CleanEnviro Summit Singapore, which aims to provide a strategic platform for waste management solutions and environmental technologies for the international marketplace.

In line with the theme for SIWW 2012, the Water Convention will look at the trends, and challenges facing Asia-Pacific and the Middle East, and global solutions addressing these issues. We have worked closely with the International Water Association for the last four years to grow the Water Convention into an important platform to stimulate in-depth discussions on emerging water issues and to provide networking opportunities for water professionals, industry leaders and practitioners. I am confident that the Water Convention 2012, together with the other flagship events at SIWW, will continue to provide a rewarding experience for all.

I would therefore like to extend a warm invitation for you to join us at the Singapore International Water Week 2012 and look forward to seeing you this July in Singapore.

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



GLEN DAIGGER

President
International Water Association

The International Water Association is delighted to continue its partnership with Singapore as a strategic partner of the Singapore International Water Week 2012, and co-organizer for the Water Convention.

Into its fifth year, the Water Convention has rapidly grown in stature and prominence as one of the leading water events for water practitioners in Asia to meet, share knowledge and exchange experiences to improve water and wastewater services delivery. This aptly comes at a time when many urban communities in the region are grappling with unprecedented water supply challenges exacerbated by unpredictable weather patterns and are in need of implementable, practical solutions.

As a global network for water professionals that harnesses the extensive knowledge of our diverse membership of experts to create innovative, pragmatic, and sustainable solutions to challenging global needs, IWA is proud to be working with PUB Singapore to develop the technical content for the Water Convention, and deliver a high quality programme to delegates.

We invite you all as leaders in your respective fields to join us at this event to contribute your ideas and share your experiences so as to enrich the discussions at the Water Convention in SIWW 2012.

MESSAGE FROM THE CO-CHAIRS OF THE WATER CONVENTION 2012 PROGRAMME COMMITTEE



Harry Seah
Director
Technology & Water
Quality Office
PUB Singapore



Darryl Day
General Manager,
Sustainability
Power & Water Corporation,
Australia

It is with great pleasure that we welcome you to Singapore International Water Week (SIWW) 2012. The over-arching theme of the Water Week is "Water Solutions for Liveable and Sustainable Cities". In line with this theme, the fifth Water Convention aims to bring together researchers, industry leaders and practitioners to create thought-provoking dialogue on balancing the growing demand for water resources and sustainable urban living.

During the Water Convention 2012 Call for Papers, we received more than 430 papers from over 40 countries on topics such as water and wastewater technology and operations, planning and management, and water quality and health. We would like to express our appreciation to you for your overwhelming response and continued support for the Water Convention. With 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. We are confident that you will find the Water Convention 2012 programme an interesting and highly relevant one.

As per the tradition of the Water Convention, a dedicated Poster Session will be set aside in the programme to provide prominent opportunities for delegates to engage the poster presenters in lively discussions. Another feature of the Water Convention, the Hot Issues Workshop series, will return this year after a successful debut in 2011. The 2012 Hot Issues Workshop will address a wide range of water-related issues such as integrated infrastructure planning for cities of the future, industrial water treatment and management, changing public mindsets on water reuse and water management for dengue control. Each of the workshops will feature panel discussions and promises to be an interesting platform for the lively exchange of ideas and opinions between the panel of experts and delegates.

We have an exciting programme lined up for the Water Convention 2012, and we hope you will take this opportunity 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 Water Convention in July 2012.

WATER CONVENTION 2012 PROGRAMME

Information accurate as of 27 Feb 2012

Date	Theme 1: Delivering Water from Source to Tap		Theme 2: Effective & Efficient Wastewater Management		Theme 3: Cities of the Future	Theme 4: Water Quality & Health
	1A: Water Treatment Technologies	1B: Catchment & Networks	2A: Operational Efficiency & Implementation	2B: Treatment Systems		
1 July Sun	Water Convention Hot Issues Workshops					
2 July Mon	Opening Plenary					
	In Conversation					
	5th Singapore Water Lecture					
	Water Convention Poster Session					
3 July Tue	Water Convention Keynote Presentations					
	Technologies for Emerging Countries	Alternative Water Sources	Energy Efficiency in Wastewater Treatment	Wastewater Collection Systems	The Role of Water in Planning for Resilient and Liveable Cities	Source Water Protection
	Membrane Technologies I: Fouling	Smart Water Grid: Urban Water Network of the Future	Operations Optimisations through Process Control	Decentralised Systems	Integrated Infrastructure Planning	Protecting Public Health in Extreme Events
	Membrane Technologies II: Application	Smart Grid Technology	Membrane-based Treatment	Phosphorus Recovery	Integrated Water Cycle Management: The Role of Groundwater in an Urbanising World	Contaminants of Emerging Concern
4 July Wed	Desalination I: Pre-treatment	Network Management: Non-Revenue Water Management	Implementing Solutions: Engaging the Public	Biosolids Management I	Adaptive Solutions for an Uncertain World	Monitoring Methods
	Desalination II: Low Energy Desalination	Technology for Non-Revenue Water Management	Water Reuse	Biosolids Management II	Nexus Between Cities & The Environment	Real-time Water Quality Monitoring
	Ultraviolet Technologies	Panel Discussion - Integrated Water & Wastewater Management: Opportunities		Industrial Wastewater Treatment I	Water-Energy-Waste Nexus	Panel Discussion - Future Challenge of Methods of Water Monitoring for Public Health
	Advanced Oxidation Processes	Panel Discussion - Integrated Water & Wastewater Management: How We Got It Done		Industrial Wastewater Treatment II	Institutional and Transitional Challenges for Cities of the Future	Panel Discussion - Post 2015 Targets / Monitoring

WATER CONVENTION 2012 HOT ISSUES WORKSHOPS

Five Water Convention Hot Issues workshops will be offered during Singapore International Water Week 2012, all taking place on Sunday, 1 July 2012. These workshops are intended to set the stage for in-depth discussions on “hot” topics of emerging importance from each Water Convention theme. Each of these 3-hour workshops are designed to be highly interactive, with panel discussions to facilitate two-way exchanges of ideas on “hot” or new and emerging issues in Asia.

WORKSHOP PROGRAMME

The details of the five workshops are as follows:

DATE	TIME	WORKSHOP TOPICS
1 July Sun	MORNING 0900 – 1200hrs	Workshop 1: Integrated Infrastructure Planning for Cities of the Future
		Workshop 2: Application of Technologies in Developing Countries
	AFTERNOON 1400 – 1700hrs	Workshop 3: Changing the Language of Water
		Workshop 4: Water Management for Dengue Control
		Workshop 5: Industrial Water Treatment and Management

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

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\$100.

LIST OF ORAL PRESENTATIONS

THEME 1A: WATER TREATMENT TECHNOLOGIES – DELIVERING WATER FROM SOURCE TO TAP

AquaporinZ (AqpZ)-Embedded Polymer Membranes for Nanofiltration

P. Zhong, P.H.H. Duong, T. Chung, K. Jeyaseelan, A. Armugam, Z.C. Chen, J. Yang, M.H. Hong. National University of Singapore (Singapore)

Closed-Loop Sea Water Desalination: A Review of Different Salinity-Gradient Driven Techniques for Simultaneous (Pre-) Dilution and Energy Recovery

A.R.D. Verliefde, J.W. Post, E.R. Cornelissen. KWR Watercycle Research Institute (Netherlands)

Cutting-Edge Innovations in UV Lamp Technology and Reactor Design

J. An, J. Muller, W. Lem, C. Sheculski. Trojan Technologies (Canada)

Decision Support System for Reverse Osmosis Based Desalination Plant

S. Subbaiah, S. Mekapati, G. Eng. ABB Pte. Ltd. (Singapore)

Demonstration of More Than 30% of Energy Saving by the Seawater Desalination System Combined with Wastewater Treatment System

J. Cheon, Y. Sekine, H. Takabatake, K. Noto, T. Uemura, S. Ueda. Global Water Recycling and Reuse Solution Technology Research Association (Japan)

ECORAY®, WEDECOs Green UV Disinfection at Mangere WWTP in New Zealand

K. Al Barim, A. Schmidt. Xylem Water Solutions Herford GmbH (Germany)

Experience on Implementation of UV Systems for Drinking Water Disinfection in Germany

J. Eggers, J. Klinger, B. Wricke. TZW: DVGW-Technologiezentrum Wasser (Germany)

Kristal®2000 PVDF Hollow Fiber UF Membrane in the Pretreatment of Seawater Desalination

Z.G. Peng, Z.X. Zhang, M. Pandurangan, K. Manimaran. Hyflux (Singapore)

Latest Developments in Ultrafiltration Operation Optimization and Module Design

V.G. Molina, G. Gilabert. Dow Water and Process Solutions (Spain)

Membrane Fouling and Novel Fouling Control Methods

C.Y. Tang, Y.N. Wang, Y.B. Gao, W.Y. Li, T.H. Chong, Y. Zhang, W.X. Pee, W.B. Krantz, A.G. Fane. Nanyang Technological University (Singapore)

Membrane Suppliers and End-Users: Bridging the Gap
K. Glucina, A. Brehant, A. Fabre, L. Guey, P. Gislette. Suez Environnement (France)

Morphology Controlled Dual-Layer Nanofiltration Hollow Fiber Membranes for Water Treatment

S.P. Sun, T.A. Hatton, S.Y. Chan, T.S. Chung. National University of Singapore (Singapore)

Nanotechnology for Drinking Water Treatment and Supply in South Africa

L. Petrik, M.D. Kwaadsteniet, E. Cloete, J. Burgess. Water Research Commission (South Africa)

Overview and Roadmap for Membrane Process Development in the Water Industry

A. Fane. University of New South Wales (Australia)

Ozone/H₂O₂ AOP Pilot Testing at Choa Chu Kang Waterworks

J.J. Wang, R.J. Xie, W.S. Ang, L.F. Zhang. Xylem Water Solutions Herford GmbH (Germany)

Performance Evaluation of Ceramic Membrane and Polyethylene Membrane for Water Reuse Applications

C.J. Wu, C.F. Lin, K.K. Ng, J.H. Lin. National Taiwan University (Taiwan)

Pilot Scale Results for Trials on Seawater UF in Singapore

H.H. Lau, S. Cao, R. Wikramanayake, S. Screeramachandran, R. Subburayan, P. Gallagher. Siemens Pte Ltd (Singapore)

Root-Channel Technology Applied in a Large Wetland to Treat Source Drinking Water with Micro-pollution

C.Q. Yin, W.D. Wang, R.B. Zhang, S.L. Su. Research Center for Eco-Environmental Sciences (China)

Simple Water Treatment System for Heavy Metals Removal with Usage of the Zero-Valent Iron - Pilot Test Results

K. Kowalski, E. G. Søgaard. Aalborg University (Denmark)

Study on Anti-fouling Approaches of a UF Ceramic Membrane in Filtration of Seawater

J. Xu, C.J. Gao, C.Y. Chang, Chia Nan University of Pharmacy and Science (Taiwan)

SWRO Pre-Treatment Design and Operation Using Enflo-DAFT™ Technology

T. Amato, K.S. Park, W.K. Yim, T. Kim. Enpure Ltd (United Kingdom)

The Benefits of UV/H₂O₂ Treatment: Experiences in the UK

C. Rockey. South West Water (United Kingdom)

FOOTNOTE:

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LIST OF ORAL PRESENTATIONS

THEME 1B: CATCHMENT & NETWORKS – DELIVERING WATER FROM SOURCE TO TAP

A Better Approach to Non-Revenue Water Loss
B. Hayes, G. Eng. ABB Pte. Ltd. (Singapore)

Acoustic Methods for Trunk Main Leak Detection and Condition Assessment
W. Cain, M. Bracken, J. Thornton, D. Johnston. Echologics (Canada)

A Development of Cost-Effective Design and Operation Model on Water Distribution Systems Using Ant Colony Optimization Algorithm
H. Choi, J. Koo. University of Seoul (Republic of Korea)

An Innovative Approach for Water Loss Management in a DMA -Combinations of Hydraulic Modelling, Field Observations, and Optimization Scheme
S.Y. Yang, Y.C. Huang. Environmental & Infrastructural Technologies, Inc. (Taiwan)

A Smart Water Grid for Decision Support and Anomaly Detection in Singapore
A.J. Whittle, A. Preis, M. Iqbal, M. Allen, Singapore-MIT Alliance for Research and Technology (Singapore)

Combined CCTV Inspection and Leak Detection Technology for In-Service Water Transmission Mains
B.Y. Jo, J. Boon. Pure Technologies Ltd (Canada)

Enhanced Asset Management using Intelligent Monitoring
P. Davis, E. Sullivan, A. Chapman, M. Anderson. AECOM (Australia)

Higher OPEX Enables CAPEX Savings - An Analysis of the Cost Effectiveness of the Maynilad NRW Management Project
R. Liemberger. Miya Asia (Philippines)

Implementation of an Innovative Sensor Technology for Effective Online Water Quality Monitoring in the Distribution Network
B. de Graaf, F. Williamson, J. Verhoef, R. Wuestman, W. van Delft, M.A.B. van Wijlen. Vitens (Netherlands)

Implementing Decentralised Wastewater Recycling in Urban Land Developments: Lessons Learnt from 3 Case Studies in Perth, Western Australia.
M. Anda, C. Evans, G.E. Ho. Murdoch University (Australia)

Manila Water's Suki Program: Win-Win-Win Supply Chain Program
G.V. Carpio, Manila Water Company, Inc. (Philippines)

The Evolution of a Total Water Management System in Hong Kong - An Integration of 50 Years of Experience in Seawater Toilet Flushing with a Triple Water Supply System, a SANI Process for Sewage Treatment and a Urine Phosphorus Recovery System with Seawater
G.H. Chen. The Hong Kong University of Science and Technology (Hong Kong)

Two Case Studies of Stormwater Harvesting: The Coburg and Kalkallo Projects, Victoria, Australia
J. McGrath. Dalton Consulting Engineers (Australia)

Water Network Monitoring: Using Smart Analytics and Online Meter Data for Automated Monitoring of Water Distribution Networks Worldwide
G. Horowitz. TaKaDu (Israel)

THEME 2A: OPERATIONAL EFFICIENCY & IMPLEMENTATION – EFFECTIVE & EFFICIENT WASTEWATER MANAGEMENT

Advancements in Using the Innovative and Sustainable Aerobic Granules Technology for Cost-Effective Treatment of Urban and Industrial Wastewater
A. Giesen, R. Niermans, B. de Bruin, H. van der Roest. DHV (Netherlands)

Application of a Global Approach for Control of Odour Nuisance in Urban Areas
V. Lazarova, A. Givelet, R. Kelly, P. Dauthuille. Suez Environment (France)

Building on Indirect Potable Reuse in Los Angeles
G. Wetterau, P. Liu, J. Thompson, T. Richardson. CDM Smith (United States)

Drivers for Large Scale Membrane Bioreactors and Tertiary UF for Municipal and Industrial Applications: Case Studies
R. Gerards, M. Tserashchuk, B. Verrecht, L. Vriens. Ruhr-University of Bochum (Germany)

Energy Neutral Wastewater Treatment Plants. Comparison of Alternative Deammonification Concepts
E. Giraldo, S. Murthy, C. Bott, B. Wett. American Water (United States)

Energy Savings Potential of New Aeration System: Full Scale Trials
A. Lazic, V. Larsson. Xylem (Sweden)

Excellent Performance of Full-Scale Step-Feed Nitrogen Removal Activated Sludge Process for Municipal Wastewater Treatment in Singapore
G. Ou, B. H. Kwok, Y. Zhang, Y. Cao. PUB (Singapore)

LIST OF ORAL PRESENTATIONS

Experience from Start-Up and Operation of Two ANITA™ Mox Plants
M. Le Noir, M. Christensson, E. Le Vaillant, R. Lemaire. Veolia Water Solutions & Technologies (Singapore)

Experiences with Rotating Ultrafiltration Membranes in MBR-Applications in Germany and Indonesia
T. Hackner, C. Haberkern, S. Meuler, F. Rahman. Huber SE (Germany)

Genius Loci Meets Sustainability
G. Hauber. Atelier Dreiseitl GMBH (Germany)

Operational Optimization for Wastewater Treatment Plants in Malaysia
B.G. Chua, S.F. Zainudin. Indah Water Konsortium (Malaysia)

Optimization and Management of Plants for Nutrient Removal, Water Reuse, Energy and GHG Emissions and Intelligent Asset Management using Real Time Asset Optimization and Artificial Intelligence Routines for Water and Wastewater Plants - Experiences from the Chesapeake Bay Region and Middle East
J. Kundamal, D. Sen, A. Lodhi, Vialytics and Aguaren (United States)

Safe and Sustainable Water for the Future through Recovery and Reuse of Beverage Process Water
D.V. Darshane, J. Gadson, C. Wojna, H. Chin, P. Bowen. The Coca-Cola Company (United States)

Stable Operation of MBR under High Permeate Flux
H.Y.E. Liu, B. Freeman, S. Sunano, M. Nozoe, C. Bartels, Y. Oda. Nitto Denko / Hydranautics (Singapore)

The Aeration Optimization of Sewage Treatment Plant
W.M. Huang, Y.Z. Wu, J.J. Yang. (China)

The Role of Expert Panels for Indirect Potable Reuse Projects
J. Mosher, J. Crook. National Water Research Institute (United States)

TMBR - New Concept for Large Scale Plant Upgrade for Water Reuse
T. Day, C. Kullmann, E. Costa, D. Schlemper. Koch Membrane Systems (Germany)

Towards a Lower Energy Consumption in MBRs
B. Barillon, S. Martin Ruel, C. Langlais, V. Lazarova, P. Dauthuille. Suez Environnement – CIRSEE (France)

Water Forever: Whatever the Weather Creating Public Trust and Acceptance in Western Australia
L. Macpherson, C. Ferrari. CH2M HILL (United States)

THEME 2B: EFFECTIVE & EFFICIENT WASTEWATER MANAGEMENT - TREATMENT SYSTEMS

A Comparative Study on Water Treatment System on Selected Multi-National and Local Beverage Companies in the Philippines
J. E.Tondo, Y. Aguilar. Philippine Normal University (Philippines)

A Cost-effective and Innovative Design of Effluent Tunnel and Disinfection System for the Harbour Area Treatment Scheme (HATS) Stage 2, Hong Kong SAR
H.H.W. Lee, D. Pickles, F. Whyte, E. Yuen, L. Ho, H. Chau. Arup (Hong Kong)

A Novel Compact Anaerobic Wastewater Treatment System for Dairy Wastewater
E. van Driel, A. Allan, N. Li. GHD (Australia)

Advances in Dewatering Enhance Opportunities for Bioenergy Production from Sludge
K.R. Tsang. CDM Smith (United States)

Assessment of Effectiveness and Efficiency of Sewerage Network Rehabilitation Works Using Infiltration, Inflow and Exfiltration (IIE) Study
Y.Y. Loh, K.P.S. Tow, L.G. Trans, O. Au-yeung, T.K. Yip, A. Wong. Scott Wilson Ltd (Hong Kong)

Biosolids - From Problems to Products
G. Xu. Harbin Institute of Technology (China)

Challenges and Considerations for Industrial Wastewater Treatment
W. J. Ng. Nanyang Technological University (Singapore)

Community-Based Wastewater Treatment Systems and Its Impact on the Local Environment: An Example from Indonesia
H. S. Lim, L.Y. Lee, S. E. Bramono. National University of Singapore (Singapore)

Composting Provides a Sustainable Solution to the Biosolids Issues in Shenyang, China
C.K. Hartinger, T. Niu, C.D. Duan, Z.Y. Wu, Y. Kwok. Black & Veatch (Hong Kong)

Effective Recovery of Nutrients on Municipal Wastewater Treatment Plants
V. Ivanov. Nanyang Technological University (Singapore)

Energy Recovery from Faeces and Kitchen Waste Co-Digestion in Decentralized, Source-Separation-Based Sanitation Concepts
R. Rajagopal, J.W. Lim, Y. Mao, I. Ho, M.H.S. Rainer, J. Wang. Nanyang Technological University (Singapore)

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Evaluation of Water Quality from Satellite Recycling Facilities: A Thirty-Eight Plant Study
J. Jacangelo, M.W. LeChevallier, J.A. Oppenheimer, Z. Bukhari, Z. Hirani. MWH (United States)

Phosphorus Independence through WASSTRIP™ Enhanced Phosphorus Recovery
P. Schauer, N. Cullen, R. Baur, A. Britton, R. Prasad, M. Kuzma. Clean Water Services (United States)

Global Phosphorus Balance and the Case for Phosphorus Recovery from Wastewaters
A. Umble. MWH Global (United States)

Influence of Changing Drivers on Realizing the Value of Sewage Sludge as a Resource
W.P.F. Barber. AECOM (Australia)

Lessons Learnt in Design, Operation and Inspection of Deep Tunnels Sewers
N.C. Tan, K.E. Ooi, N. Schultz, S. Hunt, S. Fradkin, T.W. Lee. CH2M HILL (Singapore)

Management of Greasy Waste from Eating Establishments in Singapore
S.R. Thyagarajan, H.B. Quek. PUB (Singapore)

Manila Water's Experience in the Provision of Sewerage Service in the East Zone of Metro Manila
R. Baffrey, Manila Water Company, Inc. (Philippines)

Molasses Distillery Wastewater Treatment
M.R. Joshi, N. Madhavan, A. Bhattacharyya, A. Lokare, P. Vijaysai. GE India Technology Centre Pte Ltd (India)

More Biogas Please! - Lessons from Around the Globe
C. Staib, C. Newbery, R. Ratcliff, J. Ord, A. Umble. MWH (Australia)

Optimisation of Wastewater Management on Industrial Park
S. Schlim, J.P. Arcangeli, S.M. Ruel, P. Dauthuille. Sino French Water Development Co.Ltd (China)

Performance Evaluation of a Pilot Scale Anaerobic Membrane Bioreactor (AnMBR) Treating Ethanol Thin Stillage
M. Otten, K. Dereli, D. Urban, B. Heffernan, J. Jordan, J. Ewing, G. Rosenberger, T. Dunaev. Veolia Water Solutions & Technologies (Singapore)

Recycling of Refinery and Petrochemical Effluents Employing Advanced Multi-Barrier Systems
J. Lahnsteiner, P. Andrade, R. Mittal. VA TECH WABAG GmbH (Austria)

Strategic Partnering for Pipeline Rehabilitation in Melbourne, Australia
D. Gamboa, S. Das. Insitu Envirotech (S.E.Asia) Pte Ltd (Singapore)

Two Case Studies on the Treatment of Industrial Wastewater in SA using a Hybrid Anaerobic/Aerobic Membrane Bioreactor: Paper Mill and Potato-maize Effluent
M. Sheldon, A. Schoeman, W. Edwards. Cape Peninsula University of Technology (South Africa)

Wastewater and Organic Waste to Bioenergy
D. Parry, S. Vandenburg, P. Evans, L. Fillmore. CDM Smith (United States)

Wet Air Oxidation of Wastewater Sludge: Feedback of Four Full-Scale Plants after Six Years Operation
J. Chauzy, M. Djafer, M. Dutang, L. Herremans. Veolia (France)

THEME 3: CITIES OF THE FUTURE

A Decentralised Water Master Plan for the City of Sydney: Developing the Baseline
M. Healey, S. Tyrrell, M. Retamal, B. Devi. GHD Pty Ltd (Australia)

Aquifer Based Water Security as Sustainable Solution for Cities of Eastern India: A Case Study
S. Shekhar, A. Mukherjee, S. K. Jain, S. Kunar. Central Ground Water Board (India)

Crossing Water, Carbon, and Energy Boundaries in the Middle East: Integrated Resource Planning for both Brownfield and Greenfield Cities
J. Witherspoon, J. Thorpe, J. Hsich, M.A. Anderson. CH2M HILL (United States)

District-Scale Water Management: Impacts on Infrastructure, Energy, Pollution and Greenhouse Gas Emissions
R.D. Myers, P. Grace, E.L. Calva, S. Zhang. CDM Smith Neysadurai Centre for Integrated Water Resources and Urban Planning (Singapore)

Flexible Decision Frameworks for Long-Term Water Resources Planning
M.K. Wong, R. de Neufville. Massachusetts Institute of Technology (United States)

Flood Alleviation in Urbanized Area - Kai Tak Nullah, Hong Kong
A. Chan, O. Au-Yeung, K.S. Tong, W.H. Cheung, R. Lai. Scott Wilson Ltd (Hong Kong)

LIST OF ORAL PRESENTATIONS

Flood Risk Appraisal and Management in Mega-Cities: A Case Study of Practice in the Pearl River Delta, China.
F. K. S. Chan, G. Mitchell, A. McDonald. University of Leeds (United Kingdom)

Improving the Sustainability of Alternative Water through Managed Aquifer Recharge
K. Burns, M. Muthukaruppan. City West Water Ltd (Australia)

Incorporating Climate Change Risk Assessment into Infrastructure Planning
R.E. Nelson, K. Freas. CH2M HILL (United States)

The Challenges in Implementing Regulatory Reforms in the Water Services Industry in Developing Countries – The Malaysian Experience
Y.H. Teo. SPAN, National Water Services Commission Malaysia (Malaysia)

WSP Community Water Planning
D. Day. Power & Water Corporation (Australia)

WSP Small Communities - Focus on Water Supplies, Source Water Protection
J. de France. World Health Organization (Switzerland)

THEME 4: WATER QUALITY & HEALTH

Application of Second Generation Cell Bioassays and Identification of "Unknown" Environmental Pollutants that Exhibit Glucocorticoid Activity in Wastewater
S. Snyder, B. Clarke, S. Merel, S. F. Aldred, N. Trinklein. University of Arizona (United States)

Assessing the Fate and Biodegradation of Cyanobacterial Metabolites in Australian Waters
T. Tang, D. Hoefel, T. Mosisch, L. Ho. SA Water Corporation (Australia)

Cloud Assisted Water Quality Management in Singapore
C. Liu, H.C.L. Chua, M. Li, B. He, Z. Xing, E. Hans. Nanyang Technological University (Singapore)

Development and Assessment of a Future Microbial Method for Singapore Source Water
S.Y. Chang, M.V. Wong, S.W.L. Teng, J. Bartram, M. Savill, M. Sobsey, G. Toranzos. PUB (Singapore)

Estimating Health Risks to Water Users: Marrying Hydrodynamic Models and Risk Models
G. McBride, D. Papps, C. Palliser, R. Stott, G. Macdonald, G. Jenner. NIWA, National Institute of Water and Atmospheric Research (Australia)

How Adequate are Water, Sanitation and Hygiene Services in Relation to Home Based Care Services for HIV/Aids Infected Individuals in Rural and Peri-Urban Communities in the Limpopo Province of South Africa?
N. Potgieter, C. Phiri. University of Venda (South Africa)

Leveraging Contaminant Warning Systems for Operational Benefits
R. Kadiyala, K. Thompson. CH2M HILL (United States)

Micro-Opto-Fluidic-System (MOFS) for Label-Free Detection of Waterborne Pathogens in Drinking Water
A.Q. Liu, L. Lei, W. Huang. Nanyang Technological University (Singapore)

Nitrate Contamination of Groundwater and Its Implications in the Limpopo Water Management Area
N. Netshindeulu, N. Motebe. Department of Water Affairs (South Africa)

Online Biomonitoring of Heavy Metals in Water Samples
J. Appels, C. Broers. microLAN BV (Netherlands)

The Influence of Biofilm Formation on the Removal of Organic Micropollutants during River Bank Filtration
C. Bertelkamp, J. Reungoat, S. Botton, E. Ghadiri, J.P. van der Hoek, A. Verliefde. Delft University of Technology (Netherlands)

The Smart Grid as a Public Health Protection Tool - Using Smart Grid Technologies for Monitoring Distribution Systems
G. Symmonds, T. Hill. Global Water Resources (United States)

The Step of Enhancing Customer to Know what Bangkok Water Treatment Plant do for Water Quality Management in the Flood Crisis 2011, the Metropolitan Waterworks Authority, Bangkok Thailand
N. Wongpat. Metropolitan Waterworks Authority (Thailand)

Water Quality and Public Health in Japan After the Tsunami
Y. Magara. Hokkaido University (Japan)

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LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

- A** 3Di Water Management: Connecting Advanced Computer Flood Models with Effective and Efficient Decision Making
G. Stelling, W. Schuurmans, J. Leskens. University of Delft (Netherlands)
- A Break-through Cleaning Technology for (Bio)fouling Control of Spiral Wound Membranes: Clean Operator
B. Rietman, W. van de Ven, A. Kemperman, A. Reigersman, P. Wessels, W. van der Meer. Vitens (Netherlands)
- A Case Study on R.O. Plant Tannery for Tannery Wastewater and its System Performance Study Performance Study by Neural Network
V. Nagarajan. SSN College of Engineering (India)
- A Case Study on the Treatability of Industrial Textile Wastewater in South Africa using a Combined MBR-NF/RO System for Re-use
D. De Jager, M. Sheldon, W. Edwards. Cape Peninsula University of Technology (South Africa)
- A New Generation of Low Pressure Membranes
F. Knops. Norit X-Flow (Netherlands)
- A Novel Approach to Electrocoagulation - Method and Benefits
D. Tito, J. D. Jones. Aquacure Ltd (United Kingdom)
- A Novel Membrane Distillation Pilot System for Desalination: Process and Operational Experience
J.A. Prince, T.S. Shanmugasundaram, G. Singh. Ngee Ann Polytechnic (Singapore)
- A Novel Water Softening Strategy using Modified Poly(Vinylidene Difluoride) Hollow Fiber Membranes for Brackish Water RO Reject Recycling
S. Zhao, R. Woodling, S. H. Chua. Siemens Pte Ltd (Singapore)
- A Study of Membrane Packing Density Impact on the Critical Flux of Submerged Membrane Bioreactors
R. D. Conde, L. Xiao, R. Wikramayanake. Siemens Pte Ltd (Singapore)
- A Successful Experience with Ultrafiltration Membrane for Drinking Water Treatment in Indonesia
B. Yang, K. Clarke, F. Kristianto. The Dow Chemical Company (China)
- Access to Water in Guwahati City, India: Analysing a Problem of 'Scarcity in Plenty'
P. Rai, A. Barua. Ohio University, Indian Institute of Technology Guwahati (India)
- Adapting to a Carbon Constrained Economy by using Low Energy, Fit-for-Purpose Water Recycling Systems
C. Hertle, J. Keller, J. Blackbeard, D. Wiskar, Y. Poussade, M. O'Donohue. GHD Pty Ltd (Australia)
- Addressing Safe Drinking Water Interventions in Kikoma Village in Sssembabule District using Traditional Pot Storage Instrument
N. H. Henry. Kitala Local Council II (Uganda)
- Adsorption of Arsenic (V) using Manganese Oxide (K-OMS-2) Nanowire as an Adsorbent
T. Zhang, D. D. Sun. Nanyang Technological University (Singapore)
- Adsorption of Hazardous Azo Dye Congo Red from Wastewater by Waste Material
S. Sikarwar, R. Jain. Jiwaji University (India)
- Advanced Condition Assessment Application for Sewers and Sewer Tunnels Efficiently Produces Reliable Condition and Risk Prioritization
R. L. Rowe, V. Kathula, C. C. Kennedy. CH2M HILL (United States)
- Advanced UV Mathematics: When 15 mj/cm² is better than 40 mj/cm² -Advancement in UV System Design in Secondary Treated Wastewater
M. Newberry, K. Meyer, D. Gilpin, J. Hood. Xylem Water Solutions Herford GmbH (United Kingdom)
- Advances in Humidification Dehumidification Desalination
P. N. Govindan, M. H. ElSharaqawy, S. K. Das, J. H. Lienhard V. MIT (United States)
- Advancing Urban Water Recycling to the Tipping Point
N. Meeten, P. Seabright. Huber (Germany)
- Alternative Procedures for Measuring Stabilized Oil-in-Seawater Emulsions Treated by Dissolved Air Flotation
M. Samuel, I. Zhu, B. Bates. ITT Water & Wastewater (United States)
- Alum and Natural Coagulant Sludge as Soil Conditioner: A Comparative Study
N. A. Khalil, R.T. Bachmann. Universiti Kuala Lumpur (Malaysia)
- Ammonia Removal from Waste Water using Membranes
F. Wiesler. Membrana (United States)
- An Analysis of Public and Private Water Risk in Small Towns in the Western Cape, South Africa
H. F. Baleta. University of Cape Town (South Africa)

LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

- An Analysis of Wastewater Reuse Potential in Beijing
H. Yang, K. Abbaspour. EAWAG (Switzerland)
- An Integrated Approach towards Clean Water & Sanitation: A Microfinance plus Initiative by ESAF India
B. S. Mathew, G. K. John. Evangelical Social Action Forum (India)
- An Overview of Calcium Carbonate Saturation Indices as a Criterion to Protect Desalinated Water Transmission Lines from Deterioration
G. Ozair. NOMAC, First National Operation & Maintenance Company Ltd (Saudi Arabia)
- Analysis of Microbial Community in Drinking Water Distribution Pipelines
D. Cheng, C. Ding, S. Zhao, J. He, P. Gao, C. M. Pang, R. Xie. National University of Singapore (Singapore)
- Application of a Process Based Hydrological Model for Simulating Stream Flow in an Agricultural Watershed in India
A. Singh, M. Imtiyaz, R. K. Isaac, D. M. Denis. Uttar Banga Krishi Viswavidyalaya (India)
- Application of CFD Simulation in Evaluating the Performance of Grease Traps
K. Liu, K. Y. Ng, S. K. Lui, K. W. Loke. Singapore Polytechnic (Singapore)
- Application of Integrated Water Resources Management through Computer Simulation of River Basin's Status - Case Study of River Rwizi
J. Atim. National Water and Sewerage Corporation (Uganda)
- Application of Low Grade Heat for Water Recycling in Industry
T. A.R. Hammer, M. Tackenberg. Siemens AG (Germany)
- Application of Ultrafiltration in Cooling Tower Blow Down Waste Water Reclaim for Boiler Makeup in Fossil Power Plant
B. Yang, F. Zhang, F. Zeng. The Dow Chemical Company (China)
- Application-Specific Capabilities of 2nd Generation ATP Monitoring In Water Quality Management
D. Tracey, P. Whalen, B. Travis. LuminUltra Technologies, Ltd (Canada)
- Aquaporin Z Embedded Membrane for Water Purification
W. Xie, Y. W. Tong. National University of Singapore (Singapore)
- Assessment of Design Runoff Curve Number for a Watershed
S. K. Mishra, A. K. Kansal, N. Aggarwal. Indian Institute of Technology Roorkee (India)
- Assessment of Drying Characteristics of Sewage Sludge Using Solar Energy
L. Zhao, D. Chen, J. Wang. Nanyang Technological University (Singapore)
- Assuring Energy Efficiency of WWTP by an Integrated and Balanced Approach
R. Bufler, M. Salazar, J. Seitter. Pöyry Environment GmbH (Germany)
- Attenuation of Organic Micropollutants of Emerging Concern during Aquifer Recharge and Recovery Coupled with Ozonation
M. Yoon, G. L. Amy. King Abdullah University of Science and Technology (Saudi Arabia)
- Awareness Raising and Educatory Activities for Effective Water Savings: A Case Study with Dual Flush Toilets
B. D. Özel, B. B. Baykal. ETH Zurich (Switzerland)
- B** Bacteria Communities in Interactive and Non-Interactive Fountains in Singapore
E. Koh, D. L. Ho, Y. K. Lee. National University of Singapore (Singapore)
- Basics of Ozone Generation and Application - State of the Art and Latest Developments
S. Baldig, H. Stapel, T. Pühmeier. Xylem Water Solutions Herford GmbH (Germany)
- Benefits of Intelligent Variable Speed Drives in Water and Wastewater Applications
S. K. Ehanto, G. Eng. ABB Pte. Ltd. (Singapore)
- Best Practices and Legal Policies in Water Management through Public Private Partnership in India
S. K. Kishore. Sri Venkateshwara University (India)
- Biofouling Challenges in SWRO: Understanding the Role of Microbial Activity in Biofilter Performance
N. Gayathri, S Jeong, T.V. Nguyen, S. Vigneswaran. University of Technology Sydney (Australia)
- Bio-Inspired Synthesis of Hierarchical Metal Oxide Structures and Their Application in Water Treatment
M. Ramakrishna, V. Suresh. National University of Singapore (Singapore)

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LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

Biologically Enhanced HRC System Solves Peak Wet Weather Flow Challenges
J. Sun. CDM Smith (United States)

Bringing Kallang River into Bishan Park
J. H. K. Quah, Q. H. He, T. W. Lee. CH2M HILL (Singapore)

Building the Water Sensitive City: a Vision on Water in the City of the Future by Implementing Water Sensitive Urban Design in the Dutch Context
N.J. Dolman, M.F. van de Watering. Royal Haskoning (Netherlands)

C Case Study of Treatment of Waste Water for 17-Ethinylestradiol and Microorganisms with UV and Photocatalysis in an On-Going Process of Introducing AOP Techniques in the Danish Water Sector
H. T. Madsen, E. Soegaard. Aalborg University (Denmark)

Caustic Stable Anion-Exchange Membranes for EDR Applications in Municipal and Industrial Wastewater Recovery: Piloting and Field Investigations
H. Ramanan, P. Praturi, N. Moe, R. J. MacDonald, L. M. Goh, C. Gudipati, J. Barber, B. Chaudhari. GE Betz Singapore Pte Ltd (Singapore)

Challenges in Developing Drinking Water Supply for the City of Jakarta
R. W. Rasmidan. PT PAM Lyonnaise Jaya (Indonesia)

Challenges of Uprating Tai Po Water Treatment Plant without Interruption to Operation and Reduction in Output
C. Venkataraman, L. Poon, E. Mok, F. Wong. Black & Veatch (Singapore)

Characterization of Anaerobic Digestion Return Liquor
T. Li, S. M. Ruel, C. G. Belinchón, S. Mehta, P. Dauthuille. Suez Environnement – CIRSEE (France)

Climate Change and the Water Sector - A Comparison of Impacts and Responses
W. Adams, P. Belz. MWH (Australia)

Column Study of Cr(VI) Removal by Cationic Hydrogel for In-Situ Remediation of Contaminated Groundwater and Soil
S. C. N. Tang, K. Yin, I. Lo. Hong Kong University of Science and Technology (Hong Kong)

Combined Membrane Solutions for Robust, Consistent Desalination
E. Hanson, J. Kizer, J. Cadera. GE Power & Water (United States)

Compact AOP System
S. Kunitomo, T. Tanaka. KITZ Corporation (Japan)

Comparison of Conventional and Membrane Pretreatment for SWRO Operation
R. R. Ferlita, X. Wang, R. Eck, J. Patamasank, H. K. Roh. Doosan Hydro Technology (United States)

Comparison of Various Advanced Oxidation Techniques for the Degradation of Pharmaceuticals
F. Spiess, E. F. Sanchis, A. Hauser. Siemens AG (Germany)

Conceptual Framework to Evolve an Enabling Environment towards Water Market Mechanism
N. Khanam, R. Narayanan. Anna University (India)

Conduit Hydropower Potential in the City of Tshwane Metropolitan Municipality's (South Africa) Water Distribution System
J. N. Bhagwan, M. van Dijk, S. J. van Vuuren, B. Barta. Water Research Commission (South Africa)

Construction, Installation, and Integration of a Membrane Distillation (Memstill) Demonstration Plant within a Petroleum Refinery
R. Sih, B. Kregersman, S. Puttemans, P. Nijskens, N. DeTournay, T. Mann, K. C. Yeo, T. Goh, V. Aspi, V. Goh, K. Koh, H. Seah. Keppel Seghers (Singapore)

Cost Effective Trace-Level Determination of Perfluorinated Compounds in Water by Ion Chromatography with Inline Matrix Elimination
A. K. Heng, J. Gandhi, N. H. Subramanian. Metrohm Regional Support Centre (Singapore)

Cost-Benefit Analysis of Onsite Water Supply Technologies: Case Study of Application in South East Asia Residential Developments
P. Grace, R. D. Myers, E. L. Calva, S. Zhang. CDM Smith Neysadurai Centre for Integrated Water Resources and Urban Planning (Singapore)

Cost-Effective Management of Sludge Generated from Industrial Wastewater
K. Banerjee, C. D. Blumenschein. Veolia Water Solution & Technologies (United States)

Cutting-Edge Innovations in UV Lamp Technology and Reactor Design
J. An, J. Muller, W. Lem, C. Sheculski. Trojan Technologies (Canada)

LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

D Degradation and Microbial Profiles in Single Stage and Two-Phase Sludge Digestion
Y. Maspolim, K. Xiao, C. Guo, B. Zhai, Y. Zhou, K. Yeo, T. Goh, W. J. Ng. Nanyang Technological University (Singapore)

Degradation of Propionic and Acetic Acids, and Microbial Profiles in Two-Phase Anaerobiosis
K. Xiao, Y. Maspolim, C. Guo, B. Zhai, Y. Zhou, W. J. Ng. Nanyang Technological University (Singapore)

Delivering a Sound Groundwater RO Design with Limited Source Water Quality Data - A Case Study
S. Sansom, K. Kinser, T. Curson. MWH Americas, Inc. (United States)

Delivering Water from Source to Tap
A. Fahrer. Future Pipe Group (United Arab Emirates)

Designing Dendritic Macromolecules for Water Treatment Applications: Status and Future Outlook
M. Polverari, A. Kakkar, T. van de Ven. Kemira Oyj (Finland)

Designing of Novel Poly(Vinyl Alcohol) Nanofibers for Nanoparticle Filtration from Water
N. Mahanta, S. Valiyaveetil. National University of Singapore (Singapore)

Desinfix™ 135 for Waste Water Treatment in Oil Refinery
K. Jansson, J. Sebastião de Sá, W. de Paula, R. P. Kramer. Kemira Oyj (Finland)

Detection of Reverse Osmosis Membrane Fouling Using Electrical Impedance Spectroscopy
L. N. Sim, Z. Wang, A. Yeo, T. H. Chong, A. G. Fane, H. G.L. Coster. Nanyang Technological University (Singapore)

Determination of Artificial Sweeteners in Water Samples by On-Line Solid-Phase Extraction Combined with High Performance Liquid Chromatography-Tandem Mass Spectrometry
J. Wu, L. Zhang. PUB (Singapore)

Determination of Phthalates in Bottled Water
K. G. Moodley, D. K. Chetty, S. R. Chetty, C. Marume. Durban University of Technology (South Africa)

Developing a New Fluorimetric Assay for On-Site Detection of Legionella Pneumophila in Water Samples
S. Courtois, T. Ouimet, A. Pinon, M. Vialette, Z. Do-Quang, M. Fournie-Zaluskie, H. Poras. Suez Environnement – CIRSEE (France)

Development and Evaluation of Nanosilver Coated Membrane Filter for Potable Water Treatment
A. Cleophas, V. L. Pillay. Durban University of Technology (South Africa)

Development and Investigation of Membrane Distillation Based Hybrid Desalination Technologies Using LNG Cold Energy
P. Wang, F. Edwie, M. M. Teoh, T. S. Chung. National University of Singapore (Singapore)

Development of a New Rapid Coliphage Detection Method for Water Quality Monitoring and Contaminant Source Tracking
Y. Yuen, M. Sobsey. University of North Carolina (United States)

Development of Fluorescence In-Situ Hybridization Probes for the Quantification of Archaea
M. S. B. Amir, M. J. Q. Auw, X. Yi, C. Wu, S. Nagarajan, S. Cao, Z. Zhou. National University of Singapore (Singapore)

Development of Novel Forward Osmosis Membranes for Water Reclamation and Desalination
R. Wang, C. Tang, A. G. Fane. Nanyang Technological University (Singapore)

Digital Imaging Techniques to Measure Floc Properties in the Pretreatment Stage of an RO Desalination Plant
M. Hesampour, I. Joensuu, A. Peternelj, E. Saari, M. Piironen, S. Kiljunen. Kemira Oyj (Finland)

Diminishing Groundwater and Technology's Challenges for the Future
G. Scott. Xylem R&CW Inc. (United States)

Direct and Indirect Photolysis of Antineoplastic Drugs in Surface Water Systems
W. N. Lee, A. Y. Lin. National Taiwan University (Taiwan)

Disinfection and Decontamination Using Novel Ag₃PO₄-Based Photocatalyst under Visible Light Irradiation
L. Liu, J. Liu, D. D. Sun. Nanyang Technological University (Singapore)

DNA Sequencing Based Microbial Identification for Singapore Drinking Water Supply
L. Yu, Y. Y. Du, S. W. Lam, C. H. Woo, H. B. Zhang. PUB (Singapore)

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LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

Dow 16-inch RO Pilot Operation in a Municipal Water Reuse Plant

H. Zhu, L. Liu, J. Johnson, M. Zhao. The Dow Chemical Company (China)

Driving Sustainability in Infrastructure Delivery

C. Truscott, R. Walters. Tenix (Australia)

Drought Crisis Management, Challenges and Solutions, Southern Cape, George, South Africa

H. L. Basson, J. D. van Eeden, L. C. Mooiman. George Municipality (South Africa)

Dynamic Shear Enhancement for Fouling Control in Hollow Fiber Membrane Filtration

A. W. Law, L. Xia, T. Li, F. Zamani, A. G. Fane. Nanyang Technological University (Singapore)

Dynamic Simulation for Optimized Design and Operations

J. N. Thorpe, B. W. Price. CH2M HILL (United States)

E Ecological Evaluation of the Regeneration of the Kallang River at Bishan Park, Singapore under the Active Beautiful, Clean Waters Programme

Y. Lin, R. F. Quek, H. L. Yoon, T. K. Fung, I. W. M. Kwan, H. Eikaas, E. Clews. National University of Singapore (Singapore)

Effect of Intermittent Air Scouring in Osmotic Membrane Bioreactor

J. Qin, K. A. Kekre, H. Oo, G. Tao, E. R. Cornelissen, C. J. Ruiken. PUB (Singapore)

Effective and Efficient Delivery of Wastewater Collection Systems - The Planning Led Program Alliance Approach

C. Truscott, P. Selmes, I. Cameron. Tenix (Australia)

Effective Micro-Pollutants Removal from Waste Water Combined with Automated Read-Out of Small Model Organisms

P. C. P. Sauvignat. Veolia Water (France)

Effects of Human Population Densities on Antimicrobial Resistance in an Urban Environment

C. Lin, X. Yi, X. Kong, J. L. Ong, X. Y. Chew, T. Wang, Z. Zhou. National University of Singapore (Singapore)

Efficiency of Cleaning Chemicals on UF Membrane Fouling

X. Wei, X. B. Zhou, H. C. Zeng. Hyflux Ltd (Singapore)

Energy and Carbon Footprint Assessment Tool for Desalination Plants

B. Naveen, M. Vasudeva, S. Senthilmurugan, G. Eng. ABB Pte Ltd (Singapore)

Energy Conservation Schemes for the Water/Waste Water Segment

B. Hayes, G. Eng. ABB Pte Ltd (Singapore)

Energy Efficient Pumping & Energy Recovery in Desalination

E. Hanson, W. Childs, M. d'Artenay. GE Power & Water (United States)

Energy Generation from Industrial Acidic / Alkaline Waste Effluents Using a Reverse Electrodialysis Device

K. H. Ng, R. Fu. Siemens Pte Ltd (Singapore)

Energy Recovery and Efficiency Improvements Enhance Wastewater Treatment Sustainability

J. W. Sun. CDM Smith (United States)

Energy Saving in a Star-Delta Starter

S. S. Thayyil, R. Woodling. Siemens Pte Ltd (Singapore)

Enhancement of Soil Aquifer Treatment to Improve the Quality of Recharge Water in the Llobregat River Delta Aquifer

M. Hernández, J. Tobella, C. Valhondo, M. Aceves, M. Kock-Schulmeyer, M. L. de Alda, V. Colomer, D. Barceló. CETAQUA (Spain)

Evaluating Communities of Future Using Sustainable Community Index - Case Study from Cincinnati, USA

A. S. Patwardhan, B. George, A. Tyagi. CH2M HILL (United States)

Evaluation of Polyaluminum Hydroxyl Chlorosulfate for Removal of Disinfection By-Products and their Precursors in Coagulation-Micro Filtration Process

K. Park, J. Kweon, S. Choi, Y. Kim. Konkuk University (Republic of Korea)

Evaluation of Tertiary Treatments for the Reduction of Refractory Micropollutants in Wastewater

S. Besnault, S. M. Ruel, S. Baig, B. Heiniger, M. Esperanza, H. Budzinski, K. Le Menach, C. Miège, M. Coquery. Suez Environnement - CIRSEE (France)

Expansion of the Largest Water Reclamation Plant in Singapore with a 60,000 m³/day Membrane Bioreactor

F. Chen, C. Wallis-Lage, S. Levesque, W. H. Yong, Y. Ghani. Black & Veatch (SEA) Pte Ltd (Singapore)

LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

Experiences and Best Practices in Operating Parallel Pumps with Different Pump Curves

Y. Lertruangsila, A. Pongsopa, G. Eng. ABB Pte Ltd (Singapore)

Experiences with Standardized Control Systems Improving Energy Efficiency on Activated Sludge Plants

M. Haeck, A. Thornton, N. Sunner. Hache Lange (Germany)

Expression Analysis and Cloning of Key Desalination Components in Gills and Gut of Tilapia Fish During Seawater Acclimation

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

Extreme Flood Events - Dealing with Water Treatment Plant Residuals

P. Donaghy. AECOM (Australia)

F Fabrication of Novel Poly (Amide-Imide) Hollow Fiber Membrane for CO₂ Facilitated Transport

S. Yi, L. Zhang, Y. Zhang, R. Wang. Nanyang Technological University (Singapore)

Fiber-Reinforced Cured-In-Place Pipe Solution for Sewer and Water Main (Pressure Pipes)

D. Gamboa, S. Das. Insitu Envirotech (S.E.Asia) Pte Ltd (Singapore)

Filterability Enhancement through Additives Dosing: Comparison between Common MBR Sludge and Bulk Sludge

Y. Li, H. Wang, L. Zhang, H. Eronen, S. Halttunen. Kemira Asia (China)

Floating Wetland Islands, Providing Ecosystem Services in Urban Environments

K. Hedge, T. Gattino. BlueWing Environmental Solutions & Technologies, LLC (United States)

Forward Osmosis (FO): A Comparative Assessment of Possible Water-Related Applications

G. Amy, V. Yangali, Z. Li, R. Valledares. KAUST, King Abdullah University of Science and Technology (Saudi Arabia)

Functional Dependence of Electrodialysis Reversal (EDR) Limiting Current: Results from Full Scale Pilot Study

N. Moe, J. Barber, M. Sharbatmaleki, C. Hanrahan. GE Water & Process Technologies (United States)

Functionalization of Electrospun TiO₂/SnO₂ Nanofibers with Innovative Structure and Chemical Properties for Concurrent Photocatalytic Organic Removal and H₂ Generation from Water

S. S. Lee, H. Bai, Z. Liu, D. D. Sun. Nanyang Technological University (Singapore)

Further Treatment of Ion Exchange Brine with Dynamic Vapor Recompression

E. Vaudevire, E. Koreman, G. Galjaard, R. Trommel, M. Visser. PWN Water Supply Company North-Holland (Netherlands)

G Global Methane Initiative: Wastewater Treatment and Methane Emission Reductions

C. Godlove, P. A. Brown. Tetra Tech EM Inc. (United States)

Groundwater Treatment Using Biological Iron and Manganese Removal

A. M. Shaban. National Research Center (Egypt)

H Healthy Drinking Water for Everyone

A. A. Kandi. PT Pam Lyonnaise Jaya (Indonesia)

Hi Hardness Electrodeionization

V. Pavlovic, J. Barber. GE Power and Water (Canada)

Hierarchical TiO₂/CdS "Spindle-Like" Composite with High Photodegradation and Antibacterial Capability under Visible Light Irradiation

P.K. P. Gao, J. Liu, T. Zhang, D. Sun, W. Ng. Nanyang Technological University (Singapore)

High Horsepower Low Speed Water Pump System Upgrade an Innovative Solution Using Proven Technology

W. C. Livoti. Baldor/ABB (United States)

High Performance in Tough Conditions: Petaflex MBR for Municipal Wastewater Reuse

D. Li, T. Zhou, C. C. Lin, J. Xiong, Z. Peng. Hyflux Pte Ltd (Singapore)

Highly Efficient Two Stage Immersed UF Plant Treating Variable Quality Surface Water

M. Blazeveski, D. Sammy, S. Hong. GE Infrastructure (Canada)

How to Make the Drinking Water Safe - Method for Arsenic Removal

K. Jansson, M. Martikainen, H. Beng. Kemira Oyj (Finland)

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LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

Hybrid Approach for Wastewater Treatment in Baked Food Industry: Case Studies
S. Abou - Elela, E. A. Taleb, M. N. Abdallah.
Housing and Building National Research Center (Egypt)

Hybrid Treatment Systems for Surface Waters
C. G. Matter, A. Gmuender. WABAG Water Technology Ltd (Switzerland)

I Impact of Enhanced Removal of Primary Solids on Effluent Quality in Municipal Wastewater Treatment Applications
A. Franchi, K. Stedman, P. Gikas. Technical University of Crete (Greece)

Impact of Membrane Bioreactor Operating Conditions on Fouling Behavior of Reverse Osmosis Membranes in a MBR-RO Process
T. Kitade, B. Wu, T. H. Chong, A. G. Fane, T. Uemura. Toray Singapore Water Research Center (Singapore)

Impact of Plug Flow Aeration on MBR Pilot Performance
A. H. Nguyen. Siemens Water Technologies (Australia)

Impact of Signal Shape Form on UV Lamp Efficiency and Aging
J.S. Kaemmerer, D. Riepe, B. Loesenbeck. Xylem Water Solutions Herford GmbH (Germany)

Impact of SWRO Product Remineralisation on the Corrosion Rate of Water Distribution Pipeline Materials
J. Liang, A. Deng, R. Xie, M. Gomez, J. Hu, J. Zhang, C. N. Ong, A. Adin. National University of Singapore (Singapore)

Implementation of a Membrane Water Treatment Plant for a Highly Impaired Source Water - Sugar Land's Experiences with Planning, Piloting, Design, and Alternative Delivery
Y. Sun, B. W. Nicholas, J. Li, S. Kommineni. CDM Smith (United States)

Industrial Water Saving and Pollution Reduction Potential Analysis for Water-Shortage Area in China: Taking Hai River - Yongding River Basin as Example
M. Starkl. BOKU, University of Natural Resources and Life Sciences (Austria)

Innovation, Multi-Utility Service Businesses and Sustainable Cities: Where Might be the Next Breakthrough?
R. V. Walker, M. B. Beck. University of Georgia (United States)

Innovative Education and Training for Community-Based Water Protection Units
F. Kakembo. Uganda Christian University (Uganda)

Innovative Strategies for Meeting Emerging Contaminant Requirements at an Indirect Potable Reuse Facility
C. Mysore, M. Drainville, A. Rudenko, R. Copithorn. GHD (United States)

In-Situ Landfill Leachate Control by Chemical Application
K. Jansson, F.L. Filho, M.M.D. Costa. Kemira Oyj (Finland)

Integrated Water Management Plan for Bangalore: Efficient Planning for Future Demands
A.S. Patwardhan, P.B. Ramamurthy, B.E. Narayana, P.N. Ravindra, A. Tyagi, U. Kelkar, A. Shukla. CH2M HILL (United States)

Integrated Water Resource Management for Improved Domestic Water Supply in the Cities of Sri Lanka
L. Stanley. Research Institution (Sri Lanka)

Integrated Water Resource Management in (IWRM) India: A Case Study of Delhi
A.Kumar. India Water Foundation (India)

Integrated Water Services Development Plan Guideline for Local Governments
S. Marais, M. Ramaleba, E. Nenzhelele. Department for Water Affairs (South Africa)

Integrated Wet Weather Planning Supports Urban Sustainability
P.P. Kenel, L.K. Lampe. Black & Veatch (United States)

Intensive Leak Detection to Reduce NRW
H. Salim. PALYJA (Indonesia)

Interception of Dry Weather Flow in Multi-Cell Box Culvert for Control of Water Pollution
T.O.G. Woo, Y.L.E. Wong, N.F.K. Lau, T.H.G. Chan. Black & Veatch Hong Kong Limited (Hong Kong)

Investigating the Role that Water Footprinting Can Have in the Urban Water Sector
K. Hyde, F. Schulting, E. Quek, J.B. Bayart. Global Water Research Coalition (Australia)

Isolation, Characterization and Dynamics of Indigenous Cyanobacteria and Cyanophages in a Singapore Reservoir
S.H. Te, B.H. Yeo, K.H.G. Yew. National University of Singapore (Singapore)

LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

K Key-Features in Operation of the 4-Stage Biological Nutrient Removal Process (Johannesburg Process)
S. Ngwenya. Johannesburg Water (South Africa)

Kinetic and Thermodynamic Studies of Arsenic Adsorption in Aqueous Media on HFO Prepared by a Novel Technique
R.V. Saraph. Ion Exchange (I) Ltd (India)

L Large Scale Membrane Pre-Treatment for Desalination - The Australian Experience
K. Sadasivam, H. Lazaredes. Siemens Ltd. (Australia)

Linking Wastewater Treatment to a Sustainable Path - A South African Approach
R. Scheepers. GIBB (South Africa)

Low Level Boron Removal from Ultrapure Water
D.Y. Arifin, R.K.C. Lim, H.K.W. Lim, R. Woodling. Siemens Water Technologies (Singapore)

M Mainstreaming Climate Concerns into IWRM - A Nepal Case Study
M. Hartman, G. Anderson, D. McKinney, J. Furlow. International Resources Group (United States)

Making of a Very High-Rate DAF Using a Novel, Stand-Alone Air Dissolving Pump to Remove Algae, TOC and Sand for Membrane Pre-Treatment
R. Wikramanayake, B. Ding, S. Sreeramachandran, H.H. Lau, K. Shanmugam, R. Knauft, P. Gallagher, S. Tragellis, I. MacLeod. Siemens Water Technologies (United States)

Managing Water Responsibly in the Process Industries
R.J. Terrell, G. Eng. ABB Pte Ltd (Singapore)

MBR vs. CAS: Capital and Operating Cost Evaluation
T. Young, M. Muftugil, J. Peeters. GHD, Inc (United States)

Mekong Hydropower Development: Implication for Climate Change Mitigation
S.Y. Li. National University of Singapore (Singapore)

Membrane Bioreactor (MBR) Performance for Reducing Energy Demand
T. Itonaga. Mitsubishi Rayon Engineering (Japan)

Membrane Distillation: Hollow Fiber Module Design and CFD Modeling
X. Yang, H. Yu, R. Wang, A.G. Fane, T. Chan, R. Wikramanayake, A. Groth. Nanyang Technological University (Singapore)

Methodology of Basin Integrated Wastewater Treatment System Planning Based on Water Quality Objective-A Case Study in Beijing Nanshahe River
H.T. Ma. Beijing Municipal Institute of City Planning and Design (China)

Microbial Conversion of Lignocellulosic Waste to Reducing Sugars
W. Qi, J.Y. Wang. Nanyang Technological University (Singapore)

Microbial Fuel Cell Broadband Sensor for In-Situ Monitoring of Wastewater Toxicity
A.C. Lee, L.K. Lee, S.J. Koenig, A. Hauser, L. Ng. Siemens Pte Ltd (Singapore)

Micro-Liquid Liquid Extraction for Dermination Triazine Pesticides in Water using Positive Chemical Ionization Coupled with Gas Chromatography Mass Spectrometry
X.Q. Qian, L.F. Zhang, R.K. Hu. PUB (Singapore)

Mobile Technology and the Public Will Stop Water Loss
R. Shah. Peer Water Exchange (India)

Modeling of Low Pressure Reverse Osmosis Based Desalination Process
E.T. Kok, H.T. Ng, H.C. Li, A. Yeo. Singapore Polytechnic (Singapore)

Multiple Channel Biosensor System for Newater Process
H.Y. Li, H.B. The, J.Y. Lin, M.H. Liu, H. Wu, T. Mann, K.C. Yeo, S. F.Y. Li, T. Goh. National University of Singapore (Singapore)

Multiple Configurations Offered When Combining Thermal Hydrolysis Process and Anaerobic Digestion of WWTP Sludge
J. Chauzy. Veolia Water (France)

N Near Real Time Monitoring of E. Coli in Water
F. Zibuschka, T. Lendenfeld, G. Lindner. mbOnline GmbH (Austria)

New and Improved Methods to Detect Adenoviruses in Water
M. Sobsey, R. Rodriguez, J.Y. Wu, G.P. Ko, K.J. Seo, M. Kim. University of North Carolina (United States)

New Approaches to Improve Green Technology: Photooxidation in Combination with Nanotechnologies - Principles, Developments and R&D Approaches of an Advanced Technology for Water and Air Treatment
F.N. Seitz, K. Pollmann, K. Mackenzie, S. Opiolka. IBL Umwelt- und Biotechnik GmbH (Germany)

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LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

New Generation PVDF Hollow Fibre Membrane for MBR Application
X.H. Yang, H.L. Ge, X.D. Wu, W.H. Song, J.P. Jiang.
Memstar Technology Ltd (Singapore)

New Method to Evaluate the Performance of Antiscalant for Retarding RO Scaling
M.M. Zhang, Y.N. Wang, J.H. Shan, C.Y. Tang, M. Hesampour, J. Salonen, K. Jansson, V. Mahendraker.
Nanyang Technological University (Singapore)

New PE Systems to Replace Flood Damaged Water Systems in Northern Pakistan
D. Walton, M. Niaz, A. Wedgner. Borouge Pte Ltd (Singapore)

New Sewage Treatment Works Using Membrane Bioreactor (MBR) Technology in Lamma Island, Hong Kong
O. Au-Yeung, K.M. Chau, N. Wong. Scott Wilson Ltd (Hong Kong)

New Strategy Planning Approach for Meeting Jakarta Metropolitan Water Demand and Management
F. Ali. Jakarta Water Supply Regulatory Body (Indonesia)

New Ultra Flexible Data Logger and Communication Hub for Meteorological and Hydrological Sensors
F. Honold, A. Tengberg. Xylem - WTW GmbH (Germany)

Newly Synthesized Cellulose Ester for Forward Osmosis Membrane Fabrication
R.C. Ong, J.C. Su, J.D. Wit, T.S. Chung. National University of Singapore (Singapore)

O Brother, Where Art Thou Carbon?
M. Lind, K. Brischke. Watercare Services Limited (New Zealand)

Oil-Water-Solid Separation Efficiencies of Circular Separator with Inclined Coalescence Plates: Comparison between Co-current and Cross Flow
L.H. Ngu, P.L. Law, K.K. Wong. Swinburne University of Technology, Sarawak (Malaysia)

On-Line and Real Time Monitoring of Contaminants in Chinese Water Systems
V.L. Gray, N. Randles, O. Puckering, B. Shajan, R. Flynn. Modern Water (United Kingdom)

Operation and Maintenance Experience in a Brackish Water Reverse Osmosis Plant in Bahrain (1984-2010): The Ras Abu Jarjur Operation and Maintenance
A.N. Al-Fardan. Electricity and Water Authority (Bahrain)

Operation and Optimization of New Beach-Well (BW)/NF/SWRO Hybrid System
A.R. Alreweli, M. Mahmoodur-Rahman, S.H. AlGhamdi, A.M. Farooque, A. Abanmy, L. M. Bakheet. Saline Water Desalination Research Institute (Saudi Arabia)

Operation of Flat Shape Ceramic Membrane Bioreactor in Singapore
A.Oishi, T. Niwa, H. Noguchi, H. Lie, K.A. Kekre, G.H. Tao. Meidensha Corporation (Japan)

Opticone - Independence of Inlet Flow Situation for UV Reactors at Low Head Loss
S. Kaemmerer, J. Anton, M. Rapaka. Xylem Water Solutions Herford GmbH (Germany)

Optimised Reactor Design for Ozone AOP's - Limitation of Bromate Formation and Economical Attractive
J. Scheideler, A. Wieland. Xylem Water Solutions Herford GmbH (Germany)

Optimization of Boiler Pre-Treatment Program using Condensate Modeling Platform
A.K.Tula, R.P. Kalakodimi, R.W. Kluck, R.M. Anthony, C. Rosa. General Electric (India)

Optimization of Carbamazepine removal in O₃/UV/H₂O₂ system using a Response Surface Methodology
K.D. Zoh, J.K. Im. Seoul National University (Republic of Korea)

Optimum Energy Consumption Mechanism for Cogeneration of Power and Water Using 25 MW Gas Turbine and Investment Comparison of this System with Combined Cycle Power Plant
B. Yazdani, M.N. Faraji. Mapna Group (Islamic Republic of Iran)

Organic Peracids for Advanced Wastewater Treatment
K. Jansson, T. Karpova, R. Gramstad, H. Heinonen-Tanski, C. Hohenthal. Kemira Oyj (Finland)

Oxidative Transformation of Cephalosporin Antibiotics by Manganese Dioxide
H.L. Wu, W.C. Chang, A.Y.C. Lin. National Taiwan University (Taiwan)

LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

Oxygen Mass Transfer in Biological Treatment System in the Presence of Non-Aqueous Phase Liquid
A. Chavan, Madhusudan. Siemens Corporate Research & Technologies (India)

P Performance Improvement and Economics Related to Low Differential Pressure (LD) RO Membrane in Membrane Replacement of Wastewater Reclamation Plant
H.Y.E. Liu, M. Nozoe, S. Sunano, J. Long, R. Franks, C. Bartels. Nitto Denko / Hydranautics (Singapore)

Pharmaceuticals in the Environment: Occurrence and Treatment Technologies
C.H.M. Hofman-Caris, W.G. Siegers, S. Botton, B.A. Wols, B. Hofs, A.H. Knol, E.R. Cornelissen. KWR Watercycle Research Institute (Netherlands)

Photocatalytic Oxidation of Cytostatic Drugs via UV/TiO₂ in the Aqueous Environment
H.H.H. Lin, A.Y.C. Lin. National Taiwan University (Taiwan)

Photodegradation of Cephalosporin Antibiotics in Aqueous Environment
X.H. Wang, A.Y.C. Lin. National Taiwan University (Taiwan)

Picture the Future Australia: Water 2030 and Beyond
I. Storie. Siemens Ltd (Australia)

Pilot Testing of a Flexible UV/H₂O₂ System for Microorganisms Disinfection and Contaminants Removal
X.N. Chu, Y. Xiao, J.Y. Hu, R.J. Xing, E. Quek, T. Pang, W.S. Ang, R.J. Xie, M.H. Lim. National University of Singapore, PUB (Singapore)

Pneumatic Control Loops Save Water and Energy with Fixed-bed Filters
M.P. Totten. Conservation International (Singapore)

Policy and Regulatory Innovations for Delivering Water at the Least Cost and Risk
S. Al-Zahrani, F.H. Choo, F.L. Tan. Nanyang Technological University (Singapore)

Portable Solar Desalination System using Membrane Distillation
S. Al-Zahrani, F.H. Choo, F.L. Tan. Nanyang Technological University (Singapore)

Possibilities to Use Large Volumes in a Collimated Beam Set-Up for UV and UV/H₂O₂ Processes
C.H.M. Hofman-Caris, D.J.H. Harmsen, B.A. Wols, E.F. Beerendonk, L. L.M. Keltjens. KWR Watercycle Research Institute (Netherlands)

Potential and Framework for Energy Demand Reduction at Municipal Waste Water Treatment Works in South Africa Through Harvesting of Biogas as a Renewable Energy
A.C.Vermeulen, A. Venter, EON Consulting (South Africa)

Potential and Research Needs for Natural Treatment Systems to Cope With Urban Water Challenges in India
M. Starkl. BOKU, University of Natural Resources and Life Sciences (Austria)

Potential Impacts of Slum Urbanisation on Channel Bank Storage in the Bang Pakong River, Thailand
K. Harriden. New Flows Research (Australia)

Prediction of Centrifugal Pump Head and Efficiency When Pumping Non-Newtonian Sludges
R. Haldenwang, J.J.N. Kalombo, B. Kabamba, V. Fester. Cape Peninsula University of Technology (South Africa)

Preparation of an Eco-friendly Coagulant by Moringa Oleifera for Arsenic Removal
K. K. Chit, J. Kweon, D. Kim. Konkuk University (Republic of Korea)

Preserving the Environment with a New, Eco-Friendly Desalination Unit
M.K. Bami, B. Liberman, M. Brusilovsky, M. Faigon, G. Greenberg. IDE Technologies (Israel)

Pressure Assisted Osmosis (PAO) to Enhance Forward Osmosis (FO) Performance
E.R. Cornelissen, D. J.H. Harmsen, B. Wols, K. Luttmiah, A.R.D. Verliedde, J.W. Post. KWR (Netherlands)

Protecting Our Water Resources: Issues for a Changing World
X.L. Wang, V. Horn. The Dow Chemical Company (United States)

Public Education and Engagement
A.A. Verulkar. J.D.C. Bytco IMSR, Nashik (India)

Public-Private Contracts for NRW Reduction in Asia: An Analysis of Contract Structures
O. Jensen. Global Water Intelligence (Singapore)

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LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

- Q** Q-SEP® Ultrafiltration as Pretreatment to Seawater Reverse Osmosis System
V. Jagannathan, S. Das. Aquatech International Corp (United States)
- R** Rapid Determination of Optimal Coagulant Dosage with a Streaming Current Detector
S. W. Nam, K.D. Zoh, W.K. Nam. Seoul National University (Republic of Korea)
- Rapid Identification of Water-borne Microorganisms by Fluorescence Spectroscopy
H.M. Fang, K.Y.H. Gin, B. Viswanath, M. Ghandehari, M. Petre. OptoTech (Australia)
- Recommendations for Initial Non-Revenue Water Assessment
R. Liemberger. Miya Asia (Philippines)
- Recovery of Process water from Metal Oxide Effluent - An Overview of the Effluent Treatment Plant at Travancore Titanium Products, Thiruvananthapuram, India
R. Harish, P.S. Rangarajan. VA Tech Wabag Ltd (India)
- Reduce Water Loss with Structural Lining: A Case Study
B. Cote. Sanexen Environmental Services (Canada)
- Rejection of Pharmaceuticals by Forward Osmosis Membranes: Influence of Membrane Material and Solution pH
X. Jin, J.H. Shan, C.Y.Y. Tang. Nanyang Technological University (Singapore)
- Removal Efficiency of Emerging Contaminants by Point-of-Use (POU) Devices: A New Concept with Major Implications for Water Management
T. Anumol, B. Clarke, S. Merel, S. Snyder. University of Arizona (United States)
- Removal of Antibiotics and Antibiotic Resistance from Secondary Effluents by Solar Fenton Oxidation at Pilot Scale
I. Michael, E. Hapeshi, C. Michael, A.R. Varela, C. Manaia, D.C. Fatta Kassinos. University of Cyprus (Cyprus)
- Removal of Pharmaceuticals by a Membrane Bioreactor for Water Reuse
T.T.T. Trinh, B. van der Akker, H.M. Coleman, R.M. Stuetz, P. Le-Clech, J.E. Drewes. University of New South Wales (Australia)
- Report on Implementation and Conclusion of Delivery Class about Wastewater System
S. Miyahara, K. Ikeda, K. Hasegawa. Kansei Company (Japan)
- Responding to Water Shortage in the Ballarat Water Supply System: A Case Study of Central Highlands Water
P. O'Donohue, J. Harman, D. Lynch. Central Highlands Water (Australia)
- Risk-Based Stormwater and Wet Weather Management – Factors Affecting Drainage and Wastewater Conveyance Design Criteria
L. D. van der Tak, T. Ajello, C. Salas, B. Marengo. CH2M HILL (United States)
- Robust and Reliable In-Situ Measurement of Chemical Oxygen Demand and Nitrate in Urban Wastewater Treatment Plants
F. Honold, R. Menzel, U. Franke. Xylem - WTW GmbH (Germany)
- S** Safe Drinking Water a Lifeline for Human Well-Being: Regional Issues and Practical Applications
V. R. Krishna. Tumkur University (India)
- Shift Your Thinking: Resource Plants are the Future!
C. Wallis-Lage, J. Barnard, C. deBarbadillo, S. Tarallo, P. Scanlan, A. Shaw. Black & Veatch (United States)
- Significance of Fittings Losses in Sludge Laminar Flow Design Systems
V. Fester, P. Slatter. Cape Peninsula University of Technology (South Africa)
- Simulation of Active Caps for Polycyclic Aromatic Hydrocarbons (PAH) Contaminated Sediments
K. Yin. Nanyang Technological University (Singapore)
- Simulation of Meander Bend Migration in Urban Area Using a Depth Averaged Mathematical Model
S. Murniningsih. University of Indonesia (Indonesia)
- Simultaneous Determination of Trace Perchlorate, Citrate and Phosphate in Water by Ion Chromatography
W. Zhang, Z. Guo, Y. Chen. PUB (Singapore)
- Socio-Economic Sustainability of Water Solutions
S. Somani, Y.K. Chin, S. Santhanam. KPMG (Singapore)
- Solutions for Water Systems Efficiency & Effectiveness
S. Siraj, H. Tippe. Endress+Hauser (SEA) Pte Ltd (Singapore)

LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

- Speciation of Antimony in Water and Sediment by HPLC-ICP-MS
W. N. Yap, Y. Liu, Z. Guo. PUB (Singapore)
- Statistical Analysis for Identification of Factors Affecting Surface and Groundwater Quality in Upper Bagmati River Basin, Nepal and Implications for Water
D. R. Pathak, A. Hiratsuka. Engineering Study & Research Centre (P) Ltd (Nepal)
- Status of Tanks In Cooum Sub-Basin and an IWRM Approach Towards Sustainable Rehabilitation of Tanks
S. Selvam, M. Muruganantham, M. Krishnaveni. Anna University (India)
- Study on an Estimation Model for the Chlorine Residuals Decrease in Distribution Reservoir
T. Yamaguchi, T. Inakazu, A. Koizumi, Y. Arai. Tokyo Metropolitan University (Japan)
- Submerged Membrane Ion-Exchange Hybrid System as a Tertiary Wastewater Treatment
S. Shanmuganathan, T. V. Nguyen, S. Vigneswaran, J. Kandasamy. University of Technology Sydney (Australia)
- Superior Water Flow Control Management that Mirrors Nature's Balance
F. Rosca, G. Huse. ITT Corporation (United States)
- SuperOxygenation, A Novel Way to Manage Dissolved Oxygen in Water Supplies
D. Clidence. ECO Oxygen Technologies, LLC (United States)
- Sustainability Reporting for the Water Industry
J. Cain, F. Baxter. Beca Pty Ltd (Australia)
- Sustainability Tools in Asset Management for the Water Industry
J. Cain, F. Baxter. Beca Pty Ltd (Australia)
- Sustainable and Green Evaluation (SaGE) - Decision Process and Tools for Development of Multi-Benefit Wastewater and Stormwater Water Projects
J. Siew, R. Raines, P. Grow, J. Uecker. RMC Water and Environment (United States)
- Sustainable Sanitation and Water Management - Linking up Sanitation and IWRM Capacity Building for Sustainable Sanitation and Water Management by Ecosan Services Foundation (ESF), India, and Seecon International GmbH, Switzerland
S. Satish, D. Panse, J. Heeb. Ecosan Services Foundation (India)
- Sustainable Treatment and Disposal of Municipal Waste through a Modified 2 Stage Process
K. K. Leong. Singapore Polytechnic (Singapore)
- Sustaining Peri-Urban Agriculture through Polyculture Systems - A Case Study in Peri-Urban Chennai, India
A. Jayadas, N.K. Ambujam, P. Nelliya. Anna University (India)
- T** Testing River Management Scenarios in a Growing City, Sydney, Australia
T. Church, T. McAlister, S. Blockwell. Sinclair Knight Merz (Australia)
- The 21st Century Water Utility: How to Boost Operational Performance of Water Utilities by Up to 20%?
O. Prigent, G. Gage, S. Helmcke. McKinsey & Company (Luxembourg)
- The Applications of MBR in Municipal and Industry Wastewater Treatment
Q. Wang, Z. Jiang, H. Lin, Y. Hong, W. Lan. Sinomem Technology Limited (Singapore)
- The Effect of Organic Material Origin on Biofilm Formation in Drinking Water Distribution System
M. Jang, J. Koo, C. Anne. University of Seoul (Republic of Korea)
- The Feasibility of Using Membrane Distillation for the Production of Water Utilizing Industrial Waste Heat in Qatar
M. Khraisheh, F. Benyahia, S. Adham. Qatar University (Qatar)
- The Impact of Land Cover Change on Stream Discharges and Water Resources in Luvuvhu River Catchment, Limpopo Province, South Africa
P. M. Kundu, R. L. Singo, I. F. Mathivha, J. O. Odiyo. University of Venda (South Africa)
- The Implications of Direct and Indirect Water Reuse on Iodinated THM Formation
D. Jones, S. Mancini, S. Snyder. University of Arizona (United States)
- The List of Lists - You Don't Find It If You Don't Look For It
A. Eaton, A. Haghani. MWH Americas, Inc. (United States)
- The Role of Computational Fluid Dynamics (CFD) in Water Treatment Technologies
D. Y. Arifin, K. Sivalingam, R. Woodling. Siemens Water Technologies (Singapore)

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LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

The Use of Bacteriophages as an Indicator for Human Enteric Viruses in the Assessment of Water Quality in Tropical Waters

S. Rezaeinejad, K.Y.H. Gin, N.R. Panda, M.D. Sobsey, H. W. Chee. National University of Singapore (Singapore)

Total Organic Carbon (TOC) - Influence of Particulate Matter in Analysis of Environmental Water Samples

F. Honold, J. Lane, W. Lipps, G. Engelhart. Xylem - WTW GmbH (Germany)

Towards Energy Self Sufficiency in Wastewater Treatment with Cogeneration

A. Davey. Aquatec Maxcon (Australia)

Towards the Development of a Sustainable Bioremediation Process for Acid Mine Drainage

P. Mambo. Rhodes University (South Africa)

Traditional Water Supply System in Oman (Aflaj)

L. N. K. Al- Battashi. Ministry of Regional Municipalities and Water Resources (Oman)

U Ultrasonic Time Domain Reflectometry: Acoustic Radar for Early Detection of Fouling in Reverse-Osmosis Systems

V. S.T. Sim, S.R. Suwarno, T.H. Chong, A. P.S. Yeo, W. B. Krantz, A.G. Fane. Nanyang Technological University (Singapore)

Ultraviolet (UV) Disinfection for Municipal Water Treatment: Cost-Effectively Safeguarding Public Health

J. An, J. Muller, W. Lem. Trojan Technologies (Canada)

Urban Drinking Water Quality Monitoring (Case: Ahmedabad Municipal Corporation)

D. M. Panchal. Govt. of Gujarat (India)

Urban Rural Nexus

R. Shah. Peer Water Exchange (India)

Urban Water Stewardship: Finding the Best Way Forward

A. Sym, M. Biedler. AWS, Alliance for Water Stewardship (Germany)

Use of Moving Bed Biofilm Reactor (MBBR) Process for Treatment of Polluted Yamuna River Water

U. G. Kelkar, S. Kumar, NJS Consultants Co. Ltd. (India)

Use of Zebrafish Embryo for Water Quality Assessment: An Integrated Genomic and Metabolomics Approach

T. Goh, S. Huang, S. H. Lam, C. N. Ong. Keppel Seghers (Singapore)

Used Water Network Management System

M. Samuel, S. R. Thyagarajan, A. Gupta. Nobel Systems Inc. (United States)

Using Spatial Sciences to Build Integrated Water Strategies

R. Young, D. O'Halloran, K. Williams, R. Brochie. GHD (Australia)

Using State Point Analysis and CFD Modeling to Improve the Performance of Double-Deck Secondary Settlement Tanks at the Changi Water Reclamation Plant

B. Ning, F. Bennett, A. Shaw, R. Chandran, G. Ou. Black & Veatch (Singapore)

Utilization and Management of Water Resources for Sustainable Farming: A Case Study of Piesanghoek Macadamia Croplands in Luvuvhu River Catchment, Limpopo Province, South Africa

I. F. Mathivha, P. M. Kundu, J. O. Odiyo. Univeristy of Venda (South Africa)

UV Disinfection for Treatment of Stormwater

J. An, J. Muller, W. Lem, B. Petri. Trojan Technologies (Canada)

V Validation of Energy Saving and Performance Improvement with Dow's New Generation Low Energy and Fouling Resistant RO Membrane in a Municipal Effluent Reuse Plant

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

Virus Inactivation in Sunlit Surface Waters with Different NOMs

S.L.R. Lausell, S.L. Rosado, L. Gutiérrez, O. Romero, J.P. Croue, T. Nguyen. University of Illinois at Urbana-Champaign (United States)

W WASH SMS: Facilitating Information Transparency and Community-Based Advocacy for Urban WASH Services in Indonesia through a Mobile Phone-to-Web System

M. Palaniappan, M. Hutchings. Pacific Institute (United States)

LIST OF POSTER PRESENTATIONS (IN ALPHABETICAL ORDER)

Wastewater Reuse as Alternative Irrigation Water Resources in Developing Countries- Technologies and Regulations

W.S. Abdel-Halim, D. Weichgrebe. Housing and Building Research (Egypt)

Wastewater Treatment Plant Process Optimization by Fully Integrated Automation, Control and Modeling Solutions

A. Hauser, H. Zhang, S. K. Pattanayak, J. Xiong. Siemens Pte Ltd (Singapore)

Water Diaries: A Tool to Change Household Water Use Behavior

K. Harriden. New Flows Research (Australia)

Water Pipes' Corrosion Inspection in Beitou Hot Spring Area

Y.M. Wang. Taipei City Government (Taiwan)

Water Storage in Oman (Dams)

H. S. A Al-Alawi. Ministry of Regional Municipalities and Water Resources (Oman)

Water Quality Monitoring in Real-Time: A Series of Case Studies Involving Advanced ATP Monitoring in Municipal Water Systems

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

Water Quality Standards or Carbon Reduction: Is There a balance?

H. F. Baleta. University of Cape Town (South Africa)

Water Quality Status of Rural Drinking Water Supply System in Central Development Region, Nepal

S. K. Shakya. ENPHO (Nepal)

Water Safety Plan for Small Water Supply System Managed by Community: Experience of Nepal

N. R. Khatri. WHO (Nepal)

Water-Energy Nexus Projects and Operations for New or Existing Buildings and Independent Entities. Impact on Urban Environment

P. Wind. PRODEGIA (France)

Watering the Globe - MBBR/IFAS Provides Enhanced Removal Efficiency for Upgrading WWTP

A.U. Din, G. Seidl. Halcrow (United Arab Emirates)

What Lies Beneath

A. Gibson, B. Triplow. AECOM (New Zealand)

FOOTNOTE:

The confirmed list of presentations is accurate as at 27 Feb 2012. For an updated list of presentations, please visit www.siww.com.sg.

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REGISTRATION INFORMATION

Please register online at www.siww.com.sg before 30 April 2012 to enjoy the advance registration discount. Online registration will be closed on 24 June 2012. All delegates are to register on-site after 25 June 2012.

ACCOMMODATION

The list of official hotels for SIWW 2012 will be available at www.siww.com.sg. Reservations may be made online directly from the website.

CONTACT INFORMATION

For any enquiries, please contact the Water Convention secretariat at:

MICHELLE CHEE

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Singapore Changi Airport Terminal 2
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Tel : +65 6595 6147

Fax : +65 6542 8683

Email : waterconvention@siww.com.sg

Detailed information is also available at www.siww.com.sg/waterconvention



WATER CONVENTION

REGISTRATION FORM

CONFERENCE FEE

	ADVANCE REGISTRATION (ENDS 30 APRIL 2012)	TICK	FULL RATES (FROM 1 MAY 2012)	TICK
FULL CONFERENCE FEES				
Non-Member	\$1,260		\$1,400	
Member of Other Partners, SAG & IAG	\$1,120		\$1,260	
Strategic Partners	\$980		\$1,120	
Selected Podium/Poster Presenters	\$840		\$980	
Delegates from Low Income Countries	\$560		\$700	
Onsite registration only (after 25 June 2012)			\$1,400	
DAY PASS				
1 JULY 2012 []			\$100	
3 JULY 2012 []		4 JULY 2012 []		
Non-Member	\$540		\$600	
Member of Other Partners, SAG & IAG	\$480		\$540	
Strategic Partners	\$420		\$480	

- Strategic Partners refers to staff and members of SIWW Strategic Partners (IDA, IWA, LKY SPP, SWA, ADB, World Bank)
- Other partner refers to staff and members of SIWW Supporting Organisations, Singapore and International Advisory Groups as listed on www.siww.com.sg
- 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 July 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 25 June 2012. Proof of Association Membership is required to enjoy preferred rates.
- Advance Registration preferred rates will only be applicable for registration and payment received before 30 April 2012.
- 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	
Golf Classic (Singapore Island Country Club) Handicap []	1 July 2012 (Morning)	\$350			
Opening Ceremony & Welcome Reception	1 July 2012 (Evening)	\$150			
Lee Kuan Yew Prize Award Ceremony & Banquet	2 July 2012 (Evening)	\$500			
Closing Dinner	4 July 2012 (Evening)	\$150			

10% discount applies for advance registration before 30 April 2012.

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

ONSITE VISITS

Four tours are conducted each day on 1 and 5 July from 9am to 1pm. Delegates are advised to choose only ONE tour per day as the tours are conducted concurrently. 10% discount applies for advance registration before 30 April 2012. Limited seats available on a first-come-first-served basis.

TICK	Tour 1	Tour 2	Tour 3	Tour 4
1 JULY - \$50 / TOUR				
5 JULY - \$50 / TOUR				

Tour 1: Marina Bay - Water Piazza in the City
(Marina Bay City Gallery, Marina Barrage, Gardens by the Bay)

Tour 2: Sustainable Urban Water Solutions
(Changi Water Reclamation Plant, SembCorp NEWater Plant, MINT's membrane integrity sensor)

Tour 3: Advancing with Membrane Technology
(Chestnut Waterworks, SingSpring Desalination Plant)

Tour 4: Bringing People Closer to Water
(MacRitchie Reservoir, Kallang River-Bishan Park, Alexandra Canal)

Please visit www.siww.com.sg for more details.

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 organization 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

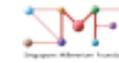
PUB is a statutory board under the Ministry of Environment and Water Resources. It is the national water agency, managing Singapore's water supply, water catchment and used water in an integrated way.

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 and 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 industry, for people, for life.

Lee Kuan Yew Water Prize Sponsor:



Founding Sponsors:



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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:



Endorsed By:



Held In:



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