



SINGAPORE INTERNATIONAL WATER WEEK

ONLINE



18 – 19 November 2020



9:00am – 6:30pm SGT (GMT +8)

SIWW Online Webinar Programme

SIWW Online's Speaker Line-up of Water Leaders and Experts



18 November 2020, Wednesday

Re-imagining Water Utilities in a Digital World

9.15am – 10.45am

Co-organised with

Jacobs

xylem
Let's Solve Water

COVID-19 has accelerated the adoption of digital transformation globally. How can water utilities transform?

Get a glimpse into how water utilities can leverage digital technologies across the water cycle and delivery chain to achieve energy optimisation, operational efficiency and cost certainty.

Witness also the launch of the "Digitalising Water – Sharing Singapore's Experience" publication by PUB, Singapore's National Water Agency and International Water Association in this webinar.

Water Reuse - Future Trends and Applications

11.00am – 12.00pm

Co-organised with

PUB SINGAPORE WATER ACADEMY

This webinar introduces recent developments in water reuse strategies and technologies, and discusses viable alternatives to Reverse Osmosis (RO)-based potable reuse technologies. Several water reuse case studies from around the world will be presented, including Singapore's approach to water reuse through its NEWater initiative.

This webinar is a preview of the Singapore Water Management (SgWM) Series on Water Reuse in June 2021.

Exhibitor Showcase – Bringing You the Latest Solutions on Display

12.15pm – 2.45pm

This exhibitor showcase will feature the latest products and innovations brought to you by our participating exhibitors at SIWW Online. Solutions that are presented at this showcase will be exhibited for the first time in Asia-Pacific in 2020!

Don't miss this great opportunity to hear from our exhibitors, before visiting our virtual show floor for more in-depth business discussion and product discovery.

Ceramic Membranes – The Future of Water Treatment Technology

3.00pm – 4.30pm

Co-organised with

nanostone water

PWNT
WATER TECHNOLOGY

Ceramic membrane-based water treatment technologies have gained traction in recent years due to its high performance- with a longer lifespan, ability to resist fouling, capability to treat water of variable quality, and more.

Hear from industry and utility experts and learn about successful case studies on the applications of ceramic membrane technology in municipal and industrial water treatment and how they represent the future of water purification technology.

Building Water Resilience – Adaptation and Mitigation in the Age of Climate Change

5.00pm – 6.30pm

In today's changing climate, ensuring water security is critical as the global demand for clean water increases. Compounded by the current pandemic, are cities, utilities and industries allocating sufficient resources to address the impact of climate change on water systems?

Gain insights on climate-related risks on urban water infrastructure and financing investments in light of climate uncertainties.

This webinar will also celebrate the launch of the *Festschrift* in honour of Prof Asit K. Biswas.

19 November 2020, Thursday

Innovative Financing with Multilateral Development Banks

9.30am – 11.00am

Co-organised with

ADB

THE WORLD BANK
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Globally, the infrastructure gap is forecast to reach \$15 trillion by 2040, with much of this investment required in developing Asia. Effects of climate change and the COVID-19 has exacerbated the need for governments to pursue sustainable, climate-adjusted approaches for long-term economic growth.

Learn about innovative financing instruments and case studies on successful applications of innovative financing in water infrastructure investments.

Game-changers in Water Innovation

11.30am – 1.00pm

Co-organised with

IMAGINE H₂O ASIA

The water sector continues to face increasing pressures, with existing systems being stressed and the need to increase the sector's resilience and sustainability.

Hear from successful technopreneurs and witness game-changing technologies in water reuse, water-energy nexus, network management, flood control and more. Understand how the diverse range of solutions can help you achieve more secure, resilient and sustainable water and wastewater systems.

Enhancing Water Resilience Through Innovation in The Philippines

1.30pm – 2.30pm

Co-organised with

FUTUREWATER ASIA 

The Philippines water sector continues to face significant challenges, such as ageing water infrastructure, unsafe water sources, poor sanitation coverage – yet at the same time, opportunities are abound. Despite its growing economy, many still lack access to improved water sources and sanitation.

Learn about the Philippines' innovative projects and solutions adopted by progressive water districts to increase water resiliency, efficiency and efficacy.

Advancing Innovations through Partnerships: The Singapore Experience

3.00pm – 4.30pm

Co-organised with

SWA SINGAPORE WATER ASSOCIATION

PUB SINGAPORE WATER EXCHANGE

Singapore has turned its water scarcity from a vulnerability to a strength. However, challenges such as rising water demand, increasing energy and sludge footprints remain.

Get perspectives on Singapore's innovation landscape and how one of its initiatives, the Singapore Water Exchange (SgWX) – an ecosystem of water companies in the value chain connects stakeholders, facilitate collaborations and co-create solutions.

Industrial Water Solutions: Reducing Industry Water Footprint Through Innovation and Corporate Stewardship

5.00pm – 6.30pm

Co-organised with

SUEZ

Today, corporations face pressure from the government and the public to reduce water consumption and meet stringent requirements for discharge of trade effluent. Against a backdrop of scarce resources and climate change, how can businesses optimise and secure water resources required?

Listen to experts from different industries on the best practices to reduce risks and reliance on water, through water stewardship and innovative technologies.



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Re-imagining Water Utilities in a Digital World

18 November 2020, Wednesday | 9.15am – 10.45am SGT (GMT +8)

Co-organised with

Jacobs

xylem
Let's Solve Water

About this webinar

The COVID-19 crisis has accelerated the adoption of digital transformation globally, including in the water sector. With the multitude of digital solutions now available in the market, how would water utilities transform themselves? From digital planning and design to construction, operation and maintenance, this webinar will provide a glimpse into how water utilities can leverage digital technologies across the water cycle and delivery chain to achieve energy optimisation, operational efficiency and cost certainty. This webinar will also witness the launch of the “Digitalising Water – Sharing Singapore’s Experience” publication by PUB, Singapore’s National Water Agency and International Water Association.

Why you should attend

Understand how digital transformation will reframe the water industry

Hear from industry leaders on how digital solutions and tools have been applied to achieve resilience, efficiency and sustainability

Learn about the potential challenges faced when implementing digital solutions and how to overcome them

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Programme

9.15am	Welcome Remarks by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
9.20am	Launch of “Digitalising Water – Sharing Singapore’s Experience” Publication <ul style="list-style-type: none">• Prof Vlado Babovic, Professor, National University of Singapore• Harry Seah, Deputy Chief Executive (Operations), PUB, Singapore’s National Water Agency
9.40am	Maintaining and Connecting a Digital Thread through the Entire Asset Lifecycle Raja Kadiyala, Vice President and Senior Technology Fellow, Global Digital Director, Jacobs Drawing on global case studies, learn how digital artifacts can be generated early on during planning and design to garner value and benefits that span the downstream portions of the water asset lifecycle – from construction, operations to maintenance to better inform the next design iteration.
9.50am	The Turning Point in Digital Transformation Albert H. Cho, Vice President and Chief Strategy and Digital Officer, Xylem Ignoring the advantages of digitisation is now a risky strategy. By adopting digital technologies to optimise their core systems and processes, utilities can build greater operational and financial resilience and better position themselves to meet the needs of their communities, now and into the future.
10.00am	Panel Discussion Panelists <ul style="list-style-type: none">• Barbara Wilson, Information Services Officer, Denver Metro Wastewater Reclamation District• Dr Ting Lu, Business Practice Leader – Digital Solutions, Clean Water Services• Junwei Jin, Deputy Director, Shenzhen Water Group• Raja Kadiyala, Vice President and Senior Technology Fellow, Global Digital Director, Jacobs• Albert H. Cho, Vice President and Chief Strategy and Digital Officer, Xylem Moderator <ul style="list-style-type: none">• Vinod Singh, Director (Asia and India), Jacobs
10.40am	Closing by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week

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Speakers



HARRY SEAH

Deputy Chief Executive (Operations)
PUB, Singapore's National Water Agency

Harry Seah, appointed as Deputy Chief Executive (Operations), provides strategic oversight to the entire water systems operations of PUB to ensure total integration and effective management, so that PUB remains operationally efficient to serve the water needs of Singapore. Formerly PUB's Chief Engineering & Technology Officer, and Assistant Chief Executive, he oversaw the agency's R&D projects to achieve its goal of a smart water management system.



PROF VLADAN BABOVIC

Professor
National University of Singapore

Vladan is a leading scientist in the field of hydroinformatics where he has been spearheading research in artificial intelligence, machine learning and computer modeling of hydraulics and hydrological phenomena from 1990s. In more recent years, his work on flexibility and real options pertaining to decision-making under deep uncertainties in water- and climate-related domains is gaining wider recognition.

In addition to being a leading researcher and educator, Vladan is a scientist entrepreneur who was instrumental in securing funding and subsequently lead establishment and managed growth of research institutes such as the Singapore Delft Water Alliance (SDWA) and NUSDeltares, for both of which he served as the founding Director. Under his leadership SDWA and NUSDeltares were recognised in March 2014 by prestigious Winsemius Awards.



RAJA KADIYALA

Vice President and Senior Technology Fellow
Global Digital Director
Jacobs

Dr. Kadiyala is a Vice President and Senior Technology Fellow at Jacobs. He is currently serving as the Global Market Director for Digital. In this role, he provides leadership, direction and oversight to services associated with Jacobs' Digital Delivery, Geospatial and Intelligent Systems solution areas. This includes Automated Design, Augmented and Virtual Reality, Geospatial Analytics and Integration, Geodesign, Digital Twins, Process Control Systems, Optimisation, Predictive Analytics, Information Modeling, Smart Metering, Artificial Intelligence, IoT and Smart Sensing, Physical Security, Cybersecurity and Emergency Preparedness solutions for public and private sector clients worldwide.

Over his 27-year career at Jacobs, Dr. Kadiyala has worked to plan and implement information and security system solutions across the globe. He has also focused on realtime sensing, machine learning, digital twins, control and analytics for operational optimisation. Many of his current efforts are centered on the development of advanced visualisation solutions to provide insight into the overwhelming amount of data generated daily.



ALBERT H. CHO

Vice President and Chief Strategy and Digital Officer
Xylem

Albert Cho is Vice President and Chief Strategy and Digital Officer at Xylem, a global water technology company with \$4.7B in annual revenue. In this role, he is responsible for the company's newest business, which focuses on intelligent infrastructure diagnostics and decision support services across water, wastewater and energy infrastructure.

Albert serves on the Board of Directors of the U.S. Water Alliance, the editorial advisory board of World Water, and on the U.S. Department of Commerce's Environment Technologies Trade Advisory Committee. He is also an Honorary Research Associate of the Smith School of Enterprise and the Environment at the University of Oxford, where he was a Rhodes Scholar.





BARBARA WILSON
Information Services Officer
Denver Metro Wastewater Reclamation District

Barbara Wilson is the Information Technology (IT) Officer for the Metro Wastewater Reclamation District in Denver, CO. She is responsible for information technology at the District which contains both enterprise business services. She leads current major initiatives in IT planning, wireless connectivity, cybersecurity and IT Service Management.

She previously served as the Senior IT Manager at the City of Fort Worth Water Department (2006-2013) and also held staff position with the City of Fort Worth Information Technology Department from 2003 to 2006.



DR TING LU
Business Practice Leader – Digital Solutions
Clean Water Services

Dr Ting Lu is the Business Practice Leader for Digital Solutions at Clean Water Services in Hillsboro, Oregon. Ting leads and directs innovation of digital solutions, oversees day to day IT implementations and the implementation of data management and IT and OT integration.

She is the Intelligent Water Focus Group Chair for the Water Research Foundation LIFT program and initiated the first international Intelligent Water Challenge to advance the adoption of smart systems into the water sector. Ting is also serving on the Utility Management Committee and the Integrated Planning Subcommittee at WEF.



JUNWEI JIN
Deputy Director
Shenzhen Water Group

Junwei Jin is the Deputy Director of Customer Service Centre of Shenzhen Water Group. With a vision for China's digital water development, he initiated the IWA Water Loss Specialist Group - China Region in 2017, which he co-chairs.

Junwei is responsible for Shenzhen Water Group's integrated smart water project which covers SCADA, water and wastewater network optimisation, water loss management and zoning, water quality monitoring and flooding management.



VINOD SINGH
Director (Asia and India)
Jacobs

Vinod has more than 25 years of experience in providing technical, managerial, project/programme delivery and business leadership in the water, wastewater and city infrastructure sectors in Asia Pacific, ASEAN, India and the Middle East.

As a Project Director, Vinod oversees the ongoing delivery of water digital projects, like the Water Automated Metering Infrastructure (AMI), Digital Transformation road map for use of AMI data, Digital Twin for Wastewater processes for Changi Water Reclamation Plant in Singapore and integrated data driven city planning and design in India, in addition to various complex and FOK (First of Kind) water projects in the Asia Pacific region.

About the Singapore International Water Week



The Singapore International Water Week (SIWW) is the global platform to share and co-create innovative water solutions. The biennial event gathers stakeholders from the global water industry to share best practices, showcase the latest technologies and tap business opportunities. SIWW is part of the strategic programme of the Singapore Government to grow the water industry and develop water technologies.

About Jacobs

Jacobs

At Jacobs, we're challenging today to reinvent tomorrow by solving the world's most critical problems, turning abstract ideas into realities that transform the world for good. With \$13 billion in revenue and a talent force of more than 55,000, we provide a full spectrum of professional services for the government and private sector.

About Xylem

xylem

Let's Solve Water

Xylem is a leading global water technology company committed to solving critical water and infrastructure challenges with technological innovation. Our more than 16,000 diverse employees delivered revenue of \$5.25 billion in 2019. We are creating a more sustainable world by enabling our customers to optimise water and resource management, and helping communities in more than 150 countries become water-secure.

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Water Reuse – Future Trends and Applications

18 November 2020, Wednesday | 11.00am – 12.00pm SGT (GMT +8)

Co-organised with



About this webinar

Water supply stress is becoming the reality in many developing as well as developed countries, exacerbated by population growth, pollution and climate change. To overcome the lack of clean water, there is increasing interest in water recycling as a solution to meet growing urban water needs. This webinar introduces recent developments in water reuse strategies and technologies, and discusses viable alternatives to Reverse Osmosis (RO)-based potable reuse technologies. Several water reuse case studies from around the world will be presented, including Singapore's approach to water reuse through its NEWater initiative.

This webinar is a preview of the Singapore Water Management (SgWM) Series on Water Reuse organised by PUB, Singapore's National Water Agency, in June 2021. The SgWM Series offers water professionals practitioner-based technical solutions in urban water sustainability and management. It is uniquely designed to combine the knowledge of internationally renowned experts together with PUB's experience as a water utility. Participants can look forward to engaging interactions with the experts, and take away new perspectives on how they can put in place better systems, policies and technical solutions to deliver good water management in their cities.

Why you should attend

Learn about the latest developments and technologies in wastewater treatment and water reuse, including strategies and best practices for implementation.

Find out how to participate in the Singapore Water Management Series

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Programme

11.00am	Welcome Remarks by Singapore International Water Week
11.05am	Water Reuse: Future Trends and Applications Prof Ian Law, Chief Executive, IBL Solutions and Adjunct Professor, University of Queensland A summary of the increasing international acceptance of potable reuse as a safe means of ensuring water security into the future: <ul style="list-style-type: none">• The roles of Source Control (Trade Waste Control) and the Wastewater Treatment Plant in any advanced water reuse application• Impacts of maximising RO recovery – how far can we go and what are the benefits of doing this?• Alternatives to the RO-based Advanced Water Treatment Plant – is there a viable one?• Recent trends in potable reuse technologies – increasing RO recovery, alternative Advanced Oxidation Processes (AOPs), ceramic membranes with and without pre-ozonation• Relevant case studies from around the world
11.35am	Facilitated Q&A Prof Ian Law, Chief Executive, IBL Solutions and Adjunct Professor, University of Queensland Dr Winson Lay, General Manager, Jurong Water Reclamation Plant, PUB, Singapore's National Water Agency
12.00pm	End of Webinar

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Speakers



PROF IAN LAW
Chief Executive, IBL Solutions
Adjunct Professor, University of Queensland

Ian has more than 40 years of experience in advanced treatment and reuse projects in Southern Africa, Southeast Asia and Australia. He is also involved in numerous Water Research Foundation Projects in the US that are all associated with advanced forms of reuse.



DR WINSON LAY
General Manager (Jurong Water Reclamation Plant)
PUB, Singapore's National Water Agency

Dr Winson Lay is currently General Manager of Jurong Water Reclamation Plant and Principal Specialist (Water Reclamation). Winson's interests include leveraging systems and technologies to achieve water sustainability. Winson is a registered Chartered Engineer with the Institution of Engineers, Singapore.

About the Singapore International Water Week



The Singapore International Water Week (SIWW) is the global platform to share and co-create innovative water solutions. The biennial event gathers stakeholders from the global water industry to share best practices, showcase the latest technologies and tap business opportunities. SIWW is part of the strategic programme of the Singapore Government to grow the water industry and develop water technologies.

About The Singapore Water Academy



The Singapore Water Academy is a practitioner-focused learning institute in urban water management. It leverages on PUB's experience in serving Singapore's water needs to provide a suite of programmes that enhance water management competencies.

The Academy brings PUB's experience into the classroom with its team of experienced practitioners. It also taps on PUB's network of international experts and the vibrant ecosystem of companies and research institutes in Singapore to share the latest advancements and practices in water management.

The Singapore Water Academy's (SgWA) Singapore Water Management Series offers water professionals practitioner-based technical solutions in urban water sustainability for senior utility or industry technical water practitioners. Leaders in their fields will bring best practices in different aspects of urban water management into the classroom, using Singapore as a case study.

Find out more at www.pub.gov.sg/sgwa.





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Ceramic Membranes – The Future of Water Treatment Technology

18 November 2020, Wednesday | 3.00pm – 4.30pm SGT (GMT +8)

Co-organised with



About this webinar

Ceramic membrane-based water treatment technologies have gained traction and prominence in recent years, and are increasingly applied globally in full-scale plants for water treatment and recycling. Years of extensive research & development, piloting and demonstration-scale testing have built the solid foundations upon which ceramic membrane technology is now viable and cost-effective.

The growing interest in ceramic membranes is due to its high performance, specifically with regards to longer lifespan, ability to resist fouling, capability to treat water of variable water quality, and minimal operation and maintenance requirements. It has proved to be more energy-efficient with a smaller land footprint, more cost-efficient with a longer lifespan, and more durable as compared to conventional polymeric membranes, with a significant reduction in water loss.

This webinar will examine best practices of ceramic membrane systems and how ceramic membranes represents the future of water purification technology. Successful case studies will be featured on the applications of ceramic membrane technology in both municipal and industrial water treatment.

Why you should attend

Hear from industry experts on the benefits of ceramic membrane as an advanced water treatment technology

Gain insights from real-life case studies on the applications of ceramic membrane in both municipal and industrial water treatment

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Programme

3.00pm	Welcome Remarks by Singapore International Water Week
3.05pm	<p>PART 1 – Global Applications of Ceramic Membranes</p> <p>An introduction to ceramic membranes and what benefits they bring Graeme Pearce, Principal, Membrane Consultancy Associates</p> <p>The unique position of Nanostone's module and global applications Gilbert Galjaard, Chief Process Engineer, Nanostone Water</p> <p>Industrial applications in China Carlo Patteri, Business Leader Industrial Water, Nanostone Water</p> <p>Special applications of ceramic membranes: desalination and ozone Jonathan Clement, Chief Technology Officer, Nanostone Water</p>
3.45pm	<p>PART 2 – Benefits of Ceramic Membrane Technology for Municipal Water Treatment: Successes Gained from Experience</p> <p>Benefits of CeraMac® for Municipal Water Treatment Jacob Fonteijne, Chief Operating Officer, PWNT</p> <p>Operational best practices for full-scale plants utilising CeraMac® Dr. Holly Shorney-Darby, Senior Project Manager, PWNT</p> <p>Robust Cleaning of Ceramic Membranes Dr. Bram Martijn, Head of Research & Development, PWNT</p> <p>Panel Discussion: A Conversation about Drivers and Experiences for Full-Scale Ceramic Installations Panellists</p> <ul style="list-style-type: none">• Puah Aik Num, Chief Specialist, Water Treatment, PUB, Singapore's National Water Agency• Chris Rockey, Head of Drinking Water Quality, South West Water <p>Moderator</p> <ul style="list-style-type: none">• Dr. Bram Martijn, Head of Research & Development, PWNT
4.25pm	Closing by Singapore International Water Week
4.30pm	End of Webinar

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Speakers



JONATHAN CLEMENT

Chief Technology Officer
Nanostone Water

Jonathan Clement currently is the Chief Technology Officer (CTO) of Nanostone Water working with global applications of Nanostone CM-151 ceramic module. Since 2004 he has focused on expanding and improving the application of ceramic membranes for drinking water treatment. Previously, Jonathan Clement was Chief Executive Officer of PWN Technologies, a subsidiary of PWN, the innovative water supply company of North Holland. At PWNT he led the application of two of the largest ceramic membrane plants in the world. One includes a 180 mld integrated ozone ceramic plant in Singapore.

He has been an IWA fellow since 2012. He was the founder of the Leading Edge Technology (LET) Conference and chaired the conference for six years, and is now the current chair of the LET. In 2013 he received a special award for outstanding leadership from the IWA. In 2018 he was listed at one of the top 25 global water leaders in the world.



GRAEME PEARCE

Principal
Membrane Consultancy Associates

Dr. Graeme K Pearce is an Oxford educated membrane technology specialist with more than 35 years' experience in the membrane industry. After working with BP, Kalsep and Hydranautics in various aspects of membrane R&D and system design, Graeme formed Membrane Consultancy Associates (MCA) in 2005. MCA works with a broad spectrum of users and providers of membrane technology on performance improvement, dispute resolution, and as an expert witness.

Graeme also works with new entrants and prospective investors. He is well known in the field of water and membranes through workshops, teaching, lectures and publications including his own book.



GILBERT GALJAARD

Chief Process Engineer
Nanostone Water

Gilbert Galjaard, as Chief Process Engineer, is responsible for process design and process development – he is the bridge between sales, application engineering and Research & Development. Gilbert joined Nanostone water Inc in 2018 with a background of more than 25 years in the field of drinking water technology including roles as, Chief Technology Officer for PWN Technologies and Research & Development director. His roles were from all the different angles within this industry having worked at utilities, technology providers, consultants, contractors, and research centers.

Gilbert is a recognised leader in the field of membrane technology and advanced water treatment processes with 8 patents, over 90 published papers and 3 Global Innovation awards, and has served on the boards of several scientific program and review committees. Gilbert holds BSc degrees in Process Technology and Chemical Engineering.



CARLO PATTERI

Business Leader Industrial Water
Nanostone Water

Carlo joined Nanostone in 2019 as Business Leader Industrial Water with responsibility to set up and implement the sales strategy for industrial segments and grow the industrial water and wastewater business worldwide. He brings almost twenty years' experience in water and energy projects.

He was previously Business Development Director for Veolia Water Technologies in South East Asia where he focused on water and wastewater applications for industrial markets. Before that he was Regional Manager APAC for Sofinter Group where he developed large projects for industrial steam generation across the region. He has a technical background holding a Master degree in Environmental Engineering and a Master in Business Administration.



JACOB FONTEIJN

Chief Operating Officer
PWNT

Jacob Fonteijn works as Chief Operating Officer for PWNT and is part of the company's Leadership Team. He acts as the CEO's second-in-command and works closely together with PWNT's mother company PWN. At PWNT he carries responsibility for all the company's operational activities.

He started his career at Shell in the UK, where he worked internationally for ten years. Jacob has more than 25 years of management experience and has a proven record of taking customer-centric companies to the next level. He is a seasoned executive with a strong track record in delivering hands-on international business development and business turn-arounds. Jacob drives culture and delivers strategy. He holds a Master degree in Chemical Engineering from Delft University (The Netherlands) and an MBA from Cornell University (USA).



DR. HOLLY SHORNEY-DARBY

Senior Project Manager
PWNT

Dr. Holly Shorney-Darby is primarily responsible for the pilot-scale evaluation of the suspended ion exchange and ceramic microfiltration trials for PWNT. In her nine years with the company, she has been involved in over 14 pilot studies, in Singapore, the United Kingdom, Australia, the Netherlands, and the USA.

She has over 20 years of experience as a consulting engineer prior to working at PWNT, where she also conducted pilot studies and regulatory risk assessments in the United States. Holly obtained her master's degree in environmental engineering from Virginia Tech and her PhD from the University of Kansas in Public Health Engineering.



**PUAH AIK NUM**

Chief Specialist (Water Treatment)
Technology Department
PUB, Singapore's National Water Agency

Mr Puah Aik Num is the Chief Specialist for Water Treatment at PUB, Singapore's National Water Agency. He provides leadership to drive PUB's R&D initiatives, identifying and commissioning novel research and other test-bedding projects with both local and international universities, research institutions and water industrial partners.

The goal is to ensure the successful implementation of the research outputs and translation into practical applications that would benefit and enhance PUB's operation. He was instrumental in the deployment of ceramic membrane technology in PUB's newly upgraded Choa Chu Kang Waterworks, Singapore's most advanced water treatment facility which houses the largest ceramic membrane treatment system in the world.

**DR. BRAM MARTIJN**

Team Manager Research & Development
PWNT

Dr. Bram Martijn is a water treatment technologist with 20 years of experience in the field of surface water treatment. He currently heads research at PWNT, with the main responsibility of enrolling the technological research programme of PWN Water Supply Company North-Holland. Bram holds a MSc in Civil Engineering from Delft University and a PhD in Toxicology from Wageningen University.

**CHRIS ROCKEY**

Head of Drinking Water Quality
South West Water

Chris Rockey is currently Head of Drinking Water Quality for South West Water (SWW), a major utility in the UK which has invested in a new state-of-the-art Mayflower Water Treatment Works which uses ceramic filtration technology. He manages a team of Water Quality Scientists, Laboratory Analysts and Water Regulation officers who have responsibility for ensuring the Company provides good safe drinking water that has the trust of customers.

Chris looks after all aspects of drinking water quality from source to tap focusing on developing and delivering a long-term water quality improvement strategy, exploiting research and innovation, technical process advice to operations, regulatory and operational monitoring and analysis, resolving customer complaints, and liaising with the Drinking Water Inspectorate (DWI), and Public health professionals. Chris began work for SWW in 1989, and has worked in various roles in operational water quality.

About the Singapore International Water Week

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About Nanostone Water

Nanostone Water advances ceramic membrane technology in a wide variety of water and wastewater treatment applications. Nanostone's approach to understanding clients' key water challenges, combined with patented technology, has enabled rapid growth in both municipal and industrial markets globally, delivering exceptional reliability and robust performance across various water treatment applications.

About PWNT

PWNT is wholly owned by Dutch water utility PWN, and is unique in its formation and mission to make the utility's more than 100 years of experience and innovations in water treatment available worldwide. Our extensive R&D programmes have led to the development of efficient and sustainable solutions in water treatment based on suspended ion exchange, ceramic membrane applications and advanced oxidation, applications that can be used for a wide variety of water sources. All our solutions offer lower life cycle costs, greater efficiency and much lower environmental impact.

For more information, please visit: www.pwnt.com





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Building Water Resilience: Adaptation and Mitigation in the Age of Climate Change

18 November 2020, Wednesday | 5.00pm to 6.30pm SGT (GMT +8)

About this webinar

In today's changing climate, ensuring water security is critical as the global demand for clean water increases. Compounded by the current pandemic, are cities, utilities and industries allocating sufficient resources to address the impact of climate change on water systems?

Listen to the perspectives of leading global authorities across sectors on what has and can be done to build climate resilience and ensure water sustainability. Through this webinar, participants will gain insights on climate-related risks on urban water infrastructure, and the strategies and actions that utility and industry leaders are putting in-place to ensure water security in the face of climate uncertainties.

This webinar is organised to celebrate the launch of the *Festschrift* in honour of Prof Asit K. Biswas.

Scan the QR Code to access the *Festschrift*



Why you should attend

Hear from global water and industry leaders on how urban water systems will be impacted by climate change, and the actions that are being taken to build climate resilience

Gain insights on how industries, utilities and corporations are prioritising climate-related risks and developing mitigating and adaptive strategies to ensure long-term water sustainability

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Programme

5.00pm	Welcome Remarks by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
5.02pm	Opening Remarks Dr Cecilia Tortajada, Senior Research Fellow, Institute of Water Policy, Singapore and Professor-designate, University of Glasgow, UK
5.10pm	The Reality of Climate Change and Its Impact on Water Prof Asit Biswas, Distinguished Visiting Professor, University of Glasgow, UK, and Director, Water Management International Pte Ltd, Singapore
5.20pm	Nestlé's Corporate Water Strategy over Time: A Backward- and Forward-Looking View Paul Bulcke, Chairman of the Board of Directors, Nestlé S.A
5.30pm	Singapore's Plans for Water Security Peter Joo Hee Ng, Chief Executive, PUB, Singapore's National Water Agency
5.40pm	Looking into the Future of Water Prof Claudia Pahl-Wostl, Professor for Resources Management, University of Osnabrück, Germany
5.50pm	Moderated panel discussion
6.25pm	Closing Remarks Dr Cecilia Tortajada, Senior Research Fellow, Institute of Water Policy, Singapore and Professor-designate, University of Glasgow, UK
6.30pm	End of Webinar

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Speakers



ASIT K. BISWAS

Distinguished Visiting Professor, University of Glasgow, UK
Director, Water Management International Pte Ltd, Singapore

Prof Asit K. Biswas is universally acknowledged as one of the world's leading authorities on water, environment and development-related issues. He has a very distinguished career as an academic; very senior public official in Canada; advisor and confidant to Presidents, Prime Ministers and Ministers in 19 countries, six Heads of United Nations Agencies, two Secretary-Generals of OECD, several Heads of bilateral aid agencies, and four CEOs or Chairmen of MNCs in Fortune 500 list. Named a "true global water hero" by *Impeller* magazine, Prof Biswas shares his thought-provoking insights on climate-related risks on water systems and financing investments to ensure water security in light of climate uncertainties.



PAUL BULCKE

Chairman of the Board of Directors
Nestlé S.A

Paul Bulcke has been Chairman of the Board of Directors of Nestlé S.A. since April 2017. He is Vice Chairman of L'Oréal (FR) and Board Member of Roche Holding Ltd. (CH). He is Chairman of the World Economic Forum's Community of Chairpersons (WEF), member of the European Roundtable for Industry (ERT), the Board of Trustees of Avenir Suisse and J.P. Morgan International Council as well as Co-Chairman of the 2030 Water Resources Group. Nestlé is a leader in tackling climate change, and has announced its ambition to achieve zero net greenhouse gas emissions by 2050. Nestlé's corporate water strategy has evolved with the need to address climate change and to respond to climate risks.



PETER JOO HEE NG

Chief Executive
PUB, Singapore's National Water Agency

Peter Joo Hee Ng currently leads PUB, Singapore's national water agency. In this role, he is responsible for the supply of potable water, the reclamation and treatment of used water, and the management of storm water in Singapore. PUB is also Singapore's coastal protection agency, tasked with safeguarding the island state against climate-change driven sea-level rise.



CLAUDIA PAHL-WOSTL

Professor for Resources Management
University of Osnabrück, Germany

Prof Claudia Pahl-Wostl is full professor for resources management at the Department of Geography and Director of the Institute of Environmental Systems Research at the University of Osnabrück, Germany. She is an internationally leading scholar on water governance and adaptive management of water resources, with research interests in adaptive, multi-level governance and management of water resources, social and societal learning and their role in sustainability transformations, and conceptual and methodological frameworks to analyse social-ecological systems.

As (co)author of numerous papers in peer-reviewed journals, policy briefs and popular reports on topics such as interdisciplinary and community-building work, she highlights best practices in adaptive water management to embrace and overcome the impacts of climate change on urban water systems.



CECILIA TORTAJADA

Senior Research Fellow, Institute of Water Policy, Singapore
Professor-designate, University of Glasgow, UK

Cecilia Tortajada is Senior Research Fellow, Institute of Water Policy, National University of Singapore, Singapore. The main focus of her work at present is urban water and wastewater management, future of the world's water in terms of food, energy and environmental governance and security through coordinated policies; impacts of global changes on water resources and the environment; and water reuse policies for potable use. She is a past President of the International Water Resources Association (2007-2009) and Editor-in-Chief of the International Journal of Water Resources Development.

About the Singapore International Water Week



The Singapore International Water Week (SIWW) is the global platform to share and co-create innovative water solutions. The biennial event gathers stakeholders from the global water industry to share best practices, showcase the latest technologies and tap business opportunities. SIWW is part of the strategic programme of the Singapore Government to grow the water industry and develop water technologies.

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SINGAPORE INTERNATIONAL WATER WEEK

ONLINE



18 – 19 November 2020



9:00am – 6:30pm SGT (GMT +8)

Innovative Financing with Multilateral Development Banks

19 November 2020, Thursday | 9.30am – 11.00am SGT (GMT +8)

Co-organised with



THE WORLD BANK
IBRD • IDA | WORLD BANK GROUP

About this webinar

Globally, the infrastructure gap is forecast to reach \$15 trillion by 2040, with much of this investment required in developing Asia. Effects of climate change and more recently, the COVID-19 pandemic, has further exacerbated the need for governments to pursue sustainable, climate-adjusted approaches to achieve long-term economic growth.

To catalyse water infrastructure investments in Asia, governments are increasingly encouraged to adopt green and innovative financing approaches to secure public and private sector investments dedicated to mitigate and adapt to climate change, the pandemic, and other potential financial and systemic shocks. This webinar will examine innovative and climate-resilient financing instruments, such as green bonds, green loan and sustainability-linked loan, to accelerate economic growth in a sustainable manner. It will also explore lessons from the current pandemic for finance and other coping strategies.

Why you should attend

Hear how the World Bank and Asian Development Bank are developing green finance strategies to catalyse investments needed to meet the water infrastructure gap

Learn about different innovative and green financing instruments

Learn about how the COVID-19 pandemic has affected the water sector and ongoing responses

Listen to case studies on the successful application of innovative financing in water infrastructure investments

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Programme

9.30am	Welcome Remarks by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
9.35am	Innovations in Delivery of Water and Sanitisation Services Sudipto Sarkar, Practice Manager, EAP region, Water Global Practice, World Bank Group Delivery of water and sanitation services in a sustainable manner is important as it supports economic development and ensures that health and environmental risks are addressed adequately. Discussions would focus on the experience of the World Bank in supporting countries towards the delivery of such water and sanitation services. In this context, the role of the private sector to bring innovations would also be presented.
9.45am	One ADB Approach to Water Finance Tom Panella, Chief of Water Sector Group, Asian Development Bank ADB will present the recent (i) Climate-Resilient and Smart Water Infrastructure Project in the PRC and (ii) Binh Duong Water Treatment Expansion Project in Vietnam. ADB's Private Sector Operations Department financed the transactions, however, the projects involved close collaboration with ADB's sovereign operations who had long-standing relationships with both clients. The projects demonstrate a One ADB approach to water sector finance.
9.55am	Panel Discussion Panelists <ul style="list-style-type: none">• Taqsem A. Khan, Managing Director and Chief Executive Officer, Dhaka Water Supply and Sewerage Authority• Hisaka Kimura, Head of ADB Infrastructure Finance in East Asia, Advisor to Private Sector Operations Department, Asian Development Bank• Perry Rivera, Chief Operating Officer, Manila Water Company• Jennifer J. Sara, Global Director, Water Global Practice, World Bank Group• Seth Tan, Executive Director Infrastructure Asia Moderator <ul style="list-style-type: none">• Sharad Somani, Partner & Head of Infrastructure, Asia-Pacific, KPMG
10.55am	Closing by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week

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Speakers



TAQSEM A. KHAN

Managing Director and Chief Executive Officer
Dhaka Water Supply and Sewerage Authority

Taqsem A. Khan has been the Managing Director and CEO of Dhaka Water Supply and Sewerage Authority (DWASA) since 2009. He is a Visionary Leader whose leadership and governance changes made dramatic reforms at DWASA and a success for the last 10 years. Has been effective at reducing non-revenue water and increasing revenue collections and converted an unreliable and underperforming organization into a profitable, environmentally friendly, sustainable, pro-people, and well-governed public sector water utility in South Asia. Taqsem is a frequent speaker on water supply and sewerage related issues at national and international media. He obtained his Master's in Mechanical Engineering from Moscow in 1981.



HISAKA KIMURA

Head of ADB Infrastructure Finance in East Asia
Advisor to Private Sector Operations Department
Asian Development Bank

Hisaka Kimura is the Head of Asian Development Banks infrastructure finance in East Asia, and Advisor to Private Sector Operations Department. She is responsible for promoting and financing PPP and private sector participation opportunities in infrastructure development. She has over 25 years of experience in the various countries, including East Asia, Russia, Central and Eastern Europe. She has financed extensively urban-rural environmental infrastructure, clean energy, energy efficiency, waste management, water supply, distribution and collection network development, municipal and industry wastewater treatment and reuse. She holds master degrees in Finance from London Business School and in Environmental Economics from Imperial College at University of London. She completed an executive program, Infrastructure in a Market Economy at Harvard Kennedy School.



TOM PANELLA

Chief of Water Sector Group
Asian Development Bank

Tom Panella is the Asian Development Bank's (ADB's) Chief of Water Sector Group and leads policy, knowledge management, and technical support to operations. He served as ADB Afghanistan Country Director from 2014-17 and joined ADB in 2003. He has led water operations in Central, South, and Southeast Asia including postings in Indonesia and Uzbekistan as head of operations. He worked at the World Bank from 2000 to 2002 as a Water Resources Management Specialist. He was the Southern California Regional Director for Tabors, Caramanis and Associates from 1989 to 1993 and served as the Convener of the California Urban Water Conservation Council in 1997.

He is a Member of the AGWA Strategic Advisory Council, GWP Technical Committee, Toilet Board Coalition Steering Committee, and Advisor to the HELP. He has an MPP and PhD in Public Policy and MSc from the Energy and Resources Group at the University of California, Berkeley.



PERRY RIVERA

Chief Operating Officer
Manila Water Company

Perry Rivera has been with Ayala Corporation, one of the Philippines' largest conglomerates, for 33 years where he held various appointments. He is currently a Managing Director seconded to Manila Water Company, Inc. (MWC) as Chief Operating Officer for New Business Operations. His expertise includes PPP with focus on BOT and Concession models, and also corporate strategy, public policy and regulation, and international business development.

Mr. Rivera concurrently serves as President and CEO of Manila Water Philippine Ventures (MWPV) and President and CEO of Manila Water Asia Pacific (MWAP). Mr. Rivera led MWC's expansion in other cities in the Philippines and Southeast Asia. He leads a leadership team which has oversight in 17 subsidiaries in the Philippines, Vietnam, Thailand and Indonesia with served population of over 7 million. He devotes considerable time developing new opportunities in the Region. He is an Independent Director of the Toilet Board Coalition (TBC), a Founding Member of The Academy of Regulatory Professionals, an Adjunct Professor at the Global Change Institute at University of Queensland, and a Board Member and Fellow of the International Water Association (IWA).





SUDIPTO SARKAR

Practice Manager
EAP Region, Water Global Practice
World Bank Group

Mr. Sudipto Sarkar is the World Bank's Water Practice Manager for the East Asia and the Pacific Region and is based in the World Bank's Singapore Office. He has more than thirty years of work experience on water infrastructure and services. His experience also covers other sectors such as urban, energy, environment, and private sector participation. He has been in the World Bank since 1993 and has extensive Bank operational experience having worked in three regions (Eastern Europe and Central Asia; South Asia; and East Asia and the Pacific).

Prior to joining the World Bank, he worked in the US private sector on water, environment, and infrastructure activities. His educational background is in civil engineering (undergraduate degree), environment (graduate degree), and business (graduate degree).



JENNIFER J. SARA

Global Director, Water Global Practice
World Bank Group

Jennifer Sara is the Global Director for the World Bank Group's Water Global Practice. Prior to taking on this position, Ms. Sara served for four years as Director, overseeing operational delivery in the Water Global Practice at the World Bank. She has over 30 years of experience working on global water issues, including overseas assignments for the World Bank as Sector Manager for Sustainable Development based in Hanoi, Vietnam (2010 - 2014); Sector Leader in Brazil (2006 - 2010); and Water and Sanitation Specialist in Bolivia (1990 - 1995).

Ms Sara leads the Practice's senior management team, which drives policy direction, oversees a portfolio of \$30 billion in water-related investments, conducts analytical work, and manages multi-donor trust funds and global partnerships. Ms Sara holds an MSc in Environmental Management from the University of London, Wye College, and a BSc in Environmental Engineering from Brown University. She is Governor of the World Water Council and serves on the International Council of the American Water Works Association as well as the International Advisory Committee of the World Wildlife Fund's Healthy Rivers for All Initiative.



SHARAD SOMANI

Partner & Head of Infrastructure, Asia Pacific
KPMG

Sharad is ASPAC Head of Infrastructure for KPMG.

Sharad has over 20 years of experience in infrastructure sector covering water, waste to energy, power, renewable energy, and transport sector with focus on Project structuring, financing and implementation. He focuses on entire life cycle of infrastructure projects from conceptualisation to actual implementation. His passion is to help source alternate forms of capital for infrastructure projects and leveraging technology for smarter infrastructure delivery.

Sharad has advised various government and private sector clients in the Asia Pacific, Middle East and Africa covering privatisation advisory, PPP structuring, transaction process management, contract structuring and arranging financing for Water & waste, power, transport and technology projects.



SETH TAN

Executive Director
Infrastructure Asia

Seth is the Executive Director of Infrastructure Asia, which is a project facilitation office under the Singapore government. Set up by Enterprise Singapore and the Monetary Authority of Singapore, the office aims to harness the network and collective capabilities of public sector agencies and private sector firms, and partner stakeholders across the region to meet Asia's infrastructure needs.

Prior to his role as head of the Infrastructure Asia office, he has helmed leadership roles in DBS Bank, BNP Paribas, Standard Bank, and Babcock & Brown, and was based overseas in China, Australia, Hong Kong. Over his 23 years involvement in the infrastructure sector, he has worked on various opportunities across various infrastructure sub-segments.



About the Singapore International Water Week



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About Asian Development Bank



ADB is committed to achieving a prosperous, inclusive, resilient, and sustainable Asia and the Pacific, while sustaining its efforts to eradicate extreme poverty. Established in 1966, it is owned by 68 members—49 from the region. Its main instruments for helping its developing member countries are policy dialogue, loans, equity investments, guarantees, grants, and technical assistance.

About World Bank



The World Bank consists of the International Bank for Reconstruction and Development (IBRD) and the International Development Association (IDA). It is a global development cooperative owned by 189 member countries. As the largest development bank in the world, it supports the World Bank Group's mission of ending poverty and promoting shared prosperity by providing credits and grants, loans, guarantees, risk management products, and advisory services to low and middle-income countries, as well as by coordinating responses to regional and global challenges.





SINGAPORE INTERNATIONAL WATER WEEK

ONLINE



18 – 19 November 2020



9:00am – 6:30pm SGT (GMT +8)

Game-Changers in Water Innovation

19 November 2020, Thursday | 11.30am – 1.00pm SGT (GMT +8)

Co-organised with

IMAGINE H_2O / ASIA

About this webinar

The water sector continues to face increasing pressures, with existing systems being stressed due to climate change exacerbated by recent global events. There is a need to increase the sector's resilience and sustainability, with innovation and technology being a key enabler to provide solutions to these challenges.

The Singapore International Water Week (SIWW) is partnering with Imagine H₂O Asia to feature 11 water tech startups reimagining a water-resilient future for Southeast Asia and the wider region. Hear from successful technopreneurs and witness game-changing technologies across a diverse range of deployment-ready solutions for industrial and municipal end-users.

Find out how these entrepreneurs can help you achieve more secure, resilient and sustainable water and wastewater systems.

Why you should attend

Learn about promising water solutions for your business or utility

Identify potential startup investment or partnership opportunities

Find out how you can further engage the water innovation community

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Programme

11.30am	Welcome Remarks by Singapore International Water Week
11.35am	Introduction of Imagine H2O Asia Nimesh Modak, Director, Imagine H2O Asia
11.43am	6 x Startup presentations Sensor & Diagnostics <ul style="list-style-type: none"> Patrick Kiely, Chief Executive Officer, SENTRY Leela Krishna, Co-founder and Chief Business Officer, SpaceAge Labs David Sarphie, Chief Executive Officer, AquAffirm Water & Wastewater Treatment Reuse <ul style="list-style-type: none"> Jun Ho Oh, Marketing Manager, Arun John Tracy, Vice-President of Sales & Marketing, Fluid Technology Solutions Antony Prince, Founder & Chief Executive Officer, Memsift
12.20pm	Imagine H2O Hub: A virtual networking platform for investors, customers, and startups in the water sector
12.25pm	5 x Startup presentations Smart Network Management <ul style="list-style-type: none"> Gokul Krishna Govindu, Founder, SmartTerra Asim Bhalariao, Founder and Nidhi Jain, Co-founder, Fluid Robotics Satellite Imagery & Analytics <ul style="list-style-type: none"> Prateep Basu, Co-founder & Chief Executive Officer, SatSure Drinking Water <ul style="list-style-type: none"> Bashir Ahmad, Chief Executive Officer, Liquinex Ivan Tang, Co-founder & Chief Technology Officer, Mempure
12.55pm	Closing Remarks by Imagine H2O Asia
1.00pm	End of Webinar



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Speakers



NIMESH MODAK

Director
ImagineH2O Asia

Nimesh directs Imagine H2O Asia, the organization's Singapore hub and Southeast Asia accelerator. Since 2015, Nimesh has served as a startup advisor for Imagine H2O portfolio companies and led the organization's global program development. Prior to Imagine H2O, Nimesh worked with international development consulting firm, Nathan Associates Inc. (Singapore & Washington, DC) and more recently worked in strategy and operational roles with Danone's Sustainable Development Team (New York) and WaterHealth International (Accra). Nimesh holds a MBA from the Wharton School at the University of Pennsylvania and a MPA from Harvard Kennedy School of Government.



DAVID SARPHE

Chief Executive Officer
AquaAffirm

Rapid, low-cost, easy-to-use enzyme strip-testing technology and digital monitoring platform for real-time detection and mapping of arsenic and fluoride contamination. Proprietary enzyme and biosensor validated through field testing in Bangladesh, and digital mapping platform validated through case studies conducted in Brazil.



JUN HO OH

Marketing Manager
Arun

Low energy, non-clogging microfiltration technology using lift force that requires smaller footprint and lower maintenance than competitors. Savings in management and operational costs by 85%, validated by 480m³/day pilot with additional deployments in the pipeline.



ASIM BHALERAO

Founder
Fluid Robotics

In-pipe robotic mapping and assessment tools to detect leaks, monitor wastewater networks and inform low-cost interventions to prevent pollution runoff. Mumbai pilot diverted 650+ MLD raw sewage from rivers, eliminated 6200+ hours of manual scavenging, and saved est. \$35M in municipal funds.



NIDHI JAIN

Co-founder
Fluid Robotics



JOHN TRACY

Vice-President of Sales & Marketing
Fluid Technology Solutions

Advanced osmosis technology (FO and OARO) to treat wastewater for ZLD and water reuse. 4 industrial projects to date, with 3 in China on mineral recovery, landfill leachate treatment, and ZLD.



BASHIR AHMAD

Chief Executive Officer
Liquinex

Compact suitcase water treatment system using ceramic UF and UV disinfection for mobile deployment, primarily in disaster zones or remote communities. 40 units sold to date, with 80% of those sold to disaster relief organisations.



IVAN TANG

Co-founder & Chief Technology Officer
Mempure

Easy-to-manufacture hollowfibre nanofiltration membrane made of positively charged materials for high flux drinking water production. Initial pilots in China and Southeast Asia demonstrate 99.99% removal of microbials, TSS, heavy metals and 85% hardness with high fouling and chlorine resistance.

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ANTONY PRINCE
Founder & Chief Executive Officer
Memsift

Low CAPEX/OPEX patented solutions for brine treatment and ZLD using hydrophobic hollowfibre membranes. Up to 50% OPEX savings from initial pilots with pharma and semiconductor industries.



LEELA KRISHNA
Co-founder and Chief Business Officer
SpaceAge Labs

Based in Singapore, SpaceAge Labs provides low-power, fast-to-deploy wireless technologies that enable cost-effective monitoring and maintenance of remote water assets.



PRATEEP BASU
Co-founder & Chief Executive Officer
SatSure

Decision intelligence start-up using satellite remote-sensing technology to monitor and deliver insights on agriculture risk, water, and infrastructure change. 100 million hectares monitored bi-weekly pan-India currently.



PATRICK KIELY
Chief Executive Officer
SENTRY

Bio-electrode sensor platform for real-time monitoring of biological activity and water quality for drinking water and wastewater treatment facilities. The SENTRY platform is unique in that it is a biofilm-based sensor, requiring only minimal maintenance and no routine cleaning. Key applications in early warning for toxicity events and aeration optimisation.



GOKUL KRISHNA GOVINDU
Founder
SmartTerra

AI-powered analytics platform predicts leaky pipes and incorrect meters to reduce real and apparent losses, including for utilities challenged by incomplete data and manual intermittent operations. This cloud-hosted SaaS platform can be instantly deployed and integrated with existing workflows. A recent pilot run with a major Indian city and SUEZ demonstrated a 3% improvement in annual revenue for the utility by identifying apparent losses.

About the Singapore International Water Week



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About Imagine H2O Asia



Imagine H2O Asia is the first accelerator exclusively focused on scaling water technology startups across Southeast Asia and the wider region. Since 2018, Imagine H2O Asia has provided the resources to develop and deploy 25 global startups from the organization's hub in Singapore. Participating entrepreneurs receive mentorship, industry visibility, pilot funding awards as well as access to a dedicated network of regional customers and investors. The program is led by Imagine H2O, the global water innovation accelerator and nonprofit organization, and supported by Enterprise Singapore, SUEZ, ADB Ventures, Kurita, PUB, and the Singapore Water Association.

Learn more at www.imagineh2o.org/asia.





SINGAPORE INTERNATIONAL WATER WEEK

ONLINE



18 – 19 November 2020



9:00am – 6:30pm SGT (GMT +8)

Enhancing Water Resilience Through Innovation in The Philippines

19 November 2020, Thursday | 1.30pm – 2.30pm SGT (GMT +8)

Co-organised with



About this webinar

Ageing water infrastructure, lack of clean water access, increasing water demand, poor sanitation coverage, inefficient operations and climate change impacts – the Philippines water sector continues to face significant challenges, yet at the same time, opportunities are abound. Despite its growing economy, many Filipinos still do not have access to improved water sources and sanitation. This webinar will feature successful case studies on innovative digital solutions adopted by progressive Philippines water utilities that led to increase water access and improved utility efficiency and efficacy. These case studies serve as shining examples for other water utilities in the world to emulate.

Why you should attend

Learn about the water challenges faced by water utilities in different water districts in the Philippines

Hear about how the water sector in the Philippines adopted digital solutions to improve operations

Opportunity to network with the Philippines water stakeholders at the B2B matchmaking session

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Programme

1.30pm	Welcome Remarks by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
1.32pm	Welcome Address Stella Gonzales, President, Philippine Association of Water Districts
1.35pm	Presentation by Eau et Vie Alexia Michels, Country Director, Eau et Vie Eau et Vie is a French NGO providing access to water to urban poor communities in the Philippines and Bangladesh, through a proper water network and individual metered connections. Eau et vie believes that working with urban poor communities in complex working conditions require innovative and smart solutions to secure the operations and offer a better service to the beneficiaries. In order to manage the water service of its users worldwide, Eau et Vie has developed its own water operation management software along with a smartphone application accessible to all operational staff. In addition, the comprehensive big data analysis integrated into the application allows the creation of weekly and monthly dashboards for reporting purposes.
1.45pm	Presentation by Maynilad Water Services Inc. Ronald Padua, Vice President and Head of Water Supply Operations, Maynilad Water Services Inc. Given the complexities of the many inter-related water facilities that Maynilad Water is managing, it is imperative for it to continuously innovate in a more efficient way. The presentation will share the journey in the establishment of Maynilad's 24/7 Central Control Room Facility. Mr. Padua will share how the control room integrates the company's operations from the dam to the customers' tap and how it has helped improve network efficiency and customer service. He will also touch on the interface platforms and share a snapshot on where Maynilad is heading with regards to integrated central control operations.
1.55pm	Presentation by Baliwag Water District Eloisa Ramos, Corporate Planning Department, Baliwag Water District Baliwag Water District (BWD) has 36,300 connections and is an ISO 9001:2015 certified water utility. BWD commits itself to deliver world-class service to its consumers. To expedite and to simplify consumers transactions and to improve internal business process, BWD turned to technology. At present, 90% of its business processes are digitised. The shift has reduced processing time and has improved staff productivity and significantly improved efficiency across the entire utility to the industry average of 1:120. Hence, the digitalisation program of BWD has significantly increased efficiency in operation.
2.05pm	Panel Discussion Panelists <ul style="list-style-type: none"> • Alexia Michels, Country Director, Eau et Vie • Ronald Padua, Vice President and Head of Water Supply Operations, Maynilad Water Services Inc. • Eloisa Ramos, Corporate Planning Department, Baliwag Water District Moderator <ul style="list-style-type: none"> • Ramon Alikpala, Chief Executive Officer, FutureWater Asia
2.28pm	Closing by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
2.30pm	End of Webinar

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Speakers



RAMON ALIKPALA

Chief Executive Officer
FutureWater Asia

Mr. Ramon Alikpala was formerly Chairman of the Philippine's Metropolitan Waterworks and Sewerage System, the water utility for 16 million residents of Mega Manila. Prior to that, he was Executive Director of the country's National Water Resources Board, the government agency responsible for the management of the country's water resources and was concurrently Chairman of the ASEAN Working Group on Water Resources Management.

Currently, Mr. Ramon Alikpala is CEO of FutureWater Asia, an advisory firm dedicated to assisting private companies engage in the water sector as well as advise cities in municipalities undertake public-private partnerships.



STELLA GONZALES

President
Philippine Association of Water Districts

Stella Gonzales joined the Metro Kidapawan Water District in 1981 and was appointed General Manager in 2003.

She became the Regional Director of the Water Environment Association of the Philippines in 2017, Chairman of the Mindanao Association of Water Districts in 2020 and was also elected President of the Philippine Association of Water Districts (PAWD) in February this year.



ALEXIA MICHELS

Country Director
Eau et Vie

With now almost 20 years of professional experience, Alexia started her career as an engineer in 2001 in a consulting company specialised in environmental studies and development projects in France and then Madagascar.

She then joined the SUEZ group in 2007, working on the development of water and sanitation infrastructures worldwide. She was involved in various international projects in Haiti, Jordan, India and Mexico.

In parallel, she has been volunteering since 2007 for the NGO Aquassistance, and developed WASH (Water Sanitation and Hygiene) projects in Benin, Togo, Burkina Faso, Niger, Vietnam and India.



RONALD PADUA

Vice President and Head of Water Supply Operations
Maynilad Water Services Inc

Engineer Ronaldo Padua has over 21 years of professional experience and technical expertise in the Water Industry and is currently Vice President and Head of the Maynilad Water Services Inc Water Supply Operations Division.

He is at the forefront of providing stable water supply to Maynilad's more than 1.45 million accounts across the West Zone of the Greater Manila Area, through the efficient management of the company's raw water sources, water treatment plants and water distribution of potable water for end-users. He also handles various challenges in Regulatory compliance with regards to Service Level Agreement, Water Quality and Technical Master Plan.



ELOISA RAMOS

Corporate Planning Department
Baliwag Water District

Eloisa Esteban-Ramos is the Officer in Charge of the Corporate Planning Department of Baliwag Water District, the water utility serving over 36,000 connections in the town of Baliwag, Bulacan in the Philippines.

Ms. Ramos is often tapped to train other water utilities on topics such as Business Planning, Water Safety Plans, Quality Management Systems and Data Privacy.

Ms. Ramos has a degree in Psychology and Sociology from the University of the Philippines and is currently completing her post graduate degree in Industrial Psychology.





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About FutureWater Asia



FUTUREWATER
ASIA

FutureWater Asia is the Philippine's only consulting firm dedicated to advising private companies navigate the country's water and sanitation sector. The firm also supports cities and municipalities engage private investments to achieve water and sanitation targets.

About Philippine Association of Water Districts



Philippine Association of Water Districts (PAWD) is the country's premier association in providing sustainable, affordable, and safe water and sanitation for all. With over 500 member water utilities, it is dedicated to the advocacy and promotion of policies, standards and programs to ensure effective and sustainable water district operations and collaboration in the country.





SINGAPORE INTERNATIONAL WATER WEEK

ONLINE



18 – 19 November 2020



9:00am – 6:30pm SGT (GMT +8)

Advancing Innovations through Partnerships: The Singapore Experience

19 November 2020, Thursday | 3.00pm – 4.30pm SGT (GMT +8)

Co-organised with



About this webinar

Singapore has turned its water scarcity from a vulnerability to a strength, with a vibrant and innovative water ecosystem underpinning efforts to ensure long-term water sustainability for this island city state. Despite making significant progress, challenges such as rising water demand and increasing energy and sludge footprints remain.

The Singapore water industry strives continuously to innovate and leverage new technologies to address Singapore's water challenges. Initiatives such as the Singapore Water Exchange, which is an ecosystem of different water companies in the value chain, help to connect stakeholders, facilitate collaborations and co-create solutions. This webinar, co-organised with the Singapore Water Association, will examine Singapore's efforts to develop its water and innovation landscape, and how partnerships across diverse stakeholders within the ecosystem are advancing innovations for water sustainability.

Why you should attend

Hear from different players in the Singapore water industry as they share about opportunities in Singapore and how Singapore serves as a gateway to the regional market

Gain insights on how Singapore creates the right environment for companies to grow and develop solutions to tackle water-related challenges

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Programme

3.00pm	Welcome Remarks by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
3.05pm	Welcome Address Chew Men Leong, President, Singapore Water Association
3.10pm	Singapore's Water Innovation Landscape Michael Toh, Director, Industry & Technology Collaboration Department, PUB, Singapore's National Water Agency
3.25pm	Innovation in the Global Perspective Dr Piers Clark, Chairman, Isle Utilities
3.35pm	Panel Discussion Panelist <ul style="list-style-type: none">• Scott Bryan, President, Imagine H2O• Dr Chiu Kuang Ping, Council Member, Singapore Water Association; Executive Director, AECOM Singapore• Foo Say Tun, Chief Executive Officer, ZWEEC Analytics• Leela Krishna, Co-founder and Chief Business Officer, SpaceAge Labs• Eric Stacey, Vice President and General Manager of Echologics, Mueller Water Products Moderator <ul style="list-style-type: none">• Dr Piers Clark, Chairman, Isle Utilities
4.15pm	Questions and Answers
4.25pm	Closing by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
4.30pm	End of Webinar

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Speakers



PIERS CLARK

Chairman
Isle Utilities

Piers is Chairman of the Isle Group. Isle is a technical, specialist water consultancy with offices in the UK, the Netherlands, Italy, Germany, the USA, Australia, Singapore and Abu Dhabi. Isle works with over 250 utilities around the world.

Piers was previously the Managing Director for the private equity fund Global Water Development Partners (GWDP), a Blackstone portfolio company. From 2010-2014 he was the Commercial Director at Thames Water, the largest of the UK water companies. Piers was responsible for all of Thames Water's non-regulated business activities. Piers also served as Interim Asset Management Director for Thames Water. Prior to joining Thames Water, Piers was Managing Director of Mouchel's Regulated Industries leading a team of 3,000 staff providing engineering consultancy and operational maintenance services in the water, energy, environment and rail sectors.

In 2006, Piers helped establish an innovative funding mechanism for technology companies, called TAG (Technology Approval Group). TAG bridges the gap between venture capital investors and the water company end-users and has resulted in over \$1bnmillion being invested in water-related cleantech companies in recent years.

Piers has a PhD in Civil Engineering.



SCOTT BRYAN

President
Imagine H2O

Scott provides overall operations oversight and strategic direction for Imagine H2O, the global water innovation accelerator. Since 2019, Scott has supported the organization's expansion into Southeast Asia with the launch of Imagine H2O Asia.

Prior to joining Imagine H2O, Scott developed sustainable and impact investment strategies for institutional and private clients at Royal Bank of Canada and Piper Jaffray. Scott initially joined Imagine H2O's volunteer team in 2008 through his involvement with the Full Circle Fund's Energy and Environment Circle.

Scott also serves on the advisory board of Vida Verde Nature Education in Half Moon Bay. He has a BA in Economics from the Colorado College.



CHEW MEN LEONG

President, Singapore Water Association

Chew Men Leong joined ST Engineering in Nov 2016 and assumed the role of Deputy President and President (Defence Business) of ST Engineering Marine Ltd. In his role, he oversees defence business and environmental engineering services for the company. He has also assumed the role of Chief Marketing Officer for ST Engineering from Jun 2017 and oversees marketing for the group.

Men Leong was a former civil servant, member of the Administrative Service and former Chief of Navy.



DR CHIU KUANG PING

Council Member, Singapore Water Association
Executive Director – AECOM Singapore

Dr Chiu has over 20 years' experience in water and wastewater treatment technologies, concept design, and project management. She obtained her PhD in Civil Engineering from Purdue University in the US and has project experiences in North America, Middle East and Asia Pacific. She is a certified PMP, a PE of California in the US and a certified LEED AP. She has 3 patents and more than 30 journal and conference papers.

Her experience of advanced water and wastewater treatment includes membrane, water reuse, desalination, UV, and disinfection. She is also involved in resource recovery and waste management projects that are critical components of circular economy loops.





FOO SAY TUN

Chief Executive Officer
ZWEEC Analytics

Say Tun is the CEO of ZWEEC Analytics Pte Ltd. A lawyer by training and having practiced law for nearly 20 years, Say Tun is also an independent director of several public listed companies in Singapore.



LEELA KRISHNA

Co-founder and Chief Business Officer
SpaceAge Labs

Mr Leela Krishna Sriramula is the Co-founder and Chief Business Officer at SpaceAge Labs, a IOT company reimagining operations and maintenance of distributed assets in the Water and Environment sector using sensors, low-power wireless devices and AI/ Machine learning. Before SpaceAge, he worked for 11+ years at PUB, National Water Agency of Singapore, and was involved in managing different aspects of water through different roles like construction project management, sewer network rehabilitation, water reclamation, leak detection of water supply network to reduce NRW and technology deployment. He is also a part-time trainer and conducts a 2-day executive master class course on Smart Water Management using IOT and AI/Machine learning.



ERIC STACEY

Vice President and General Manager of Echologics
Mueller Water Products

Eric Stacey is the Vice President and General Manager of Echologics, part of Mueller Water Products. Since joining Echologics in 2013, Eric served in several roles from Product Manager to Director of Operations and Financial Planning & Analysis. In this time, Eric has been focused on developing and executing on the company's multi-year strategic plan, including commercially launching and growing the fixed leak detection product lines.

Previously, Eric was a Senior Investment Analyst with XPV Water Partners, a water-focused venture capital firm. During this time, he gained extensive experience with financial modeling, due diligence, valuation, equity financing, and acquisitions. Additionally, Eric worked with the firm's portfolio companies on capital planning, strategy execution and financial reporting to their boards of directors.

Prior to venture investing, Eric spent 9 years with GE Power & Water in various positions of increasing responsibility in both sales and operations related to high-tech water treatment technologies.

Eric holds a Bachelor of Engineering from McMaster University, a Masters of Business Administration from The University of Toronto, and is a registered Professional Engineer.



MICHAEL TOH

Director, Industry & Technology Collaboration Department
PUB, Singapore's National Water Agency

Michael is currently Director of Industry & Technology Collaboration Department in PUB.

As part of PUB's Senior Management team, he leads the Department to foster collaborations with industry stakeholders to drive the deployment of technologies at municipal scale and support the growth of the industries to ensure PUB's continued access to these technologies.

Prior to this appointment, Michael was the Chief Information Officer (CIO) of PUB. Besides ensuring a reliable & secure ICT infrastructure throughout PUB so that efficient and effective services are provided, Michael was responsible for the development of SMART technologies across PUB; and the implementation of robust cybersecurity strategies and measures to safeguard PUB's operations.

Before that, he also served as the Director of Water Supply Network Department, which is responsible for the planning, development, operations and maintenance of the water supply network; as well as the management of water demand in Singapore.



About the Singapore International Water Week



The Singapore International Water Week (SIWW) is the global platform to share and co-create innovative water solutions. The biennial event gathers stakeholders from the global water industry to share best practices, showcase the latest technologies and tap business opportunities. SIWW is part of the strategic programme of the Singapore Government to grow the water industry and develop water technologies.

About Singapore Water Association



Having been a strategic partner for SIWW in the last decade, the Singapore Water Association (SWA) has worked closely with PUB to strengthen the presence of Singapore companies in the water industry globally.

SWA was formed in 2004 as a trade association to represent and promote the interests of Singapore companies in the local water sector. It plays a significant role in developing a vibrant and dynamic water cluster; and aspires to promote Singapore as the regional hub for all water-related services and technologies. It also provides a platform for collaboration and the exchange of ideas and knowledge and it serves as an important link for Singapore companies to the international water network by strengthening their presence in the global market. To date, we have 264 members from an initial 9-Founding members.

About Singapore Water Exchange



Singapore Water Exchange (SgWX) is a dedicated space to further the growth of the vibrant and dynamic water industry in Singapore. Launched in Jul 2018 at the Singapore International Water Week, SgWX is a specialised development designed to provide an integrated and conducive environment for water companies to operate and collaborate. It houses a vibrant ecosystem of water-related companies to accelerate water innovation and commercialization.





SINGAPORE INTERNATIONAL WATER WEEK

ONLINE



18 – 19 November 2020



9:00am – 6:30pm SGT (GMT +8)

Industrial Water Solutions – Reducing Industry Water Footprint Through Innovation and Corporate Stewardship

19 November 2020, Thursday | 5.00pm – 6.30pm SGT (GMT +8)

Co-organised with



About this webinar

Water is one of the most important resources used in significant quantities for many industrial operations in their processes or supply chain. While water is incredibly abundant, only 1% of the water on earth is easily accessible for use – this makes water a precious, finite resource and it is our responsibility to use it wisely. Today, corporations are faced with immense pressure from the government and the public to reduce water consumption and at the same time meet stringent requirements for discharge of trade effluent. Against a backdrop of scarce resources and climate change, how can they then preserve, optimise and secure water resources required for their operations?

This session invites different industries to share best practices on improving water resources management within the corporation through water stewardship and innovative technologies to reduce risks and reliance on water.

Why you should attend

With rising demand for scarce resources globally, learn about the different set of challenges faced by organisations around the world to secure water resources for their operations

Hear from leading corporations on how they successfully implement managerial and technological practices to ensure sustainable water resources management

Find out about existing and emerging innovation technologies that can help reduce water footprint

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Programme

5.00pm	Welcome Remarks by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
5.05pm	Water Reuse: Choice or Necessity? Gabriel Gabor Kicsi, Singapore Water Technology Centre Director, SUEZ Water Technologies & Solutions By 2025, an estimated two-thirds of the global population will live under water stress conditions. By 2050, the world will demand 55% more water and 70% more energy (Global Water Forum). Water resources, even in developed nations, are being threatened by climate change, drought and population growth; regulations around the world are pushing industry to find ways to preserve our water sources, and public perception is putting pressure on corporations to find more sustainable practices. Conservation is not enough and no other solution today (e.g. dew harvesting, water capture, desalination) can provide for a sustainable water future at the scale the world needs. Gabriel Kicsi discusses how water reuse can be the key to immediately and effectively reversing the global threat of water scarcity and creating a sustainable water future.
5.15pm	Working with Industries Today to Manage Tomorrow's Water Demand Dr Pang Chee Meng, Chief Engineering & Technology Officer, PUB, Singapore's National Water Agency Singapore's industrial water demand is expected to grow from the current 236 MGD, to about 560 MGD by year 2060. To mitigate the increased demand, PUB proactively engages Singapore's large industrial water users to reduce their water footprint. One way is to collaboratively demonstrate the technical and financial feasibility of innovative solutions in recycling water for process use. Such projects build the overall industry's confidence in adopting novel industrial water solutions, and also raise the industrial norms for water efficiencies.
5.25pm	Panel Discussion Panelist <ul style="list-style-type: none">• Sally Johnston, Senior Process Engineer and Water Subject Matter Expert, BHP Billiton• Gabriel Gabor Kicsi, Singapore Water Technology Centre Director, SUEZ Water Technologies & Solutions• Liew Yien Phin, Senior Vice President, Head of Water (Singapore & SEA), Sembcorp• Chris Ng, Product Supply Director, Procter & Gamble• Aaric Poo, Assistant Plant Manager, F&N Moderator <ul style="list-style-type: none">• Mahesh Rao, Director, Strategic Marketing & Key Accounts (Asia-Pacific), SUEZ Water Technologies & Solutions
6.28pm	Closing by Singapore International Water Week Ryan Yuen, Managing Director, Singapore International Water Week
6.30pm	End of Webinar

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Speakers



SALLY JOHNSTON

Senior Process Engineer and
Water Subject Matter Expert
BHP Billiton

Sally Johnston has over 30 years experience in the water and waste water treatment industry covering municipal and industrial industries. She has held various planning, design, construction and commissioning leadership positions in UK, Ireland, NZ, Australia.

She is a Chemical Engineering professional with an inherent interest in safety, standards development, environment sustainability and innovation. She is currently residing in Perth, Australia.



GABRIEL GABOR KICSI

Singapore Water Technology Centre Director
SUEZ Water Technologies & Solutions

Gabriel's 26+ years professional, membrane technology-based experience, within the Global Water and Wastewater Treatment Industry, has encompassed many phases of project life. In wastewater process development he was conducting high rate, high organic loading immersed Membrane Bioreactor (MBR) and anaerobic MBR bench and Pilot scale studies as well as wastewater RO studies. His Design and Construct experience in tendering, tendering management, contracting, process design, design management, procurement and commissioning was gained and utilised in North America, Europe, Middle East & Asia Pacific.



DR PANG CHEE MENG

Chief Engineering & Technology Officer
PUB, Singapore's National Water Agency

Dr. Pang Chee Meng is the Chief Engineering and Technology Officer of PUB, Singapore's National Water Agency. He leads PUB's Technology Department to administer its R&D program for the development and application of new water technologies. Prior to this, he was the Director of the Industry Development Department. He led a team to formulate and implement strategies to grow Singapore's water industry and facilitate the commercialisation of new water technologies. Chee Meng has experience in used water treatment and water-policy development and was actively involved in the development of water-related standards in Singapore and new ISO standards for water reuse.



LIEW YIEN PHIN

Senior Vice President,
Head of Water (Singapore & SEA)
Sembcorp

Ms Liew Yien Phin is Senior Vice President, Head of Water (Singapore and Southeast Asia) at Sembcorp Industries. She is responsible for the business development, project development and execution, as well as operation and maintenance of Sembcorp's water assets in Singapore and Southeast Asia. Prior to her current appointment, Yien Phin led Sembcorp's project development team and successfully executed projects in China, South America and Middle East.

Yien Phin has more than two decades of experience in the water industry. Before joining Sembcorp, Yien Phin spent twenty years in consultancy and EPC companies, namely Black & Veatch and Montgomery Watson where she led teams in business development, design, project development and execution as well as operation and maintenance of water projects in Southeast Asia, China, India and Australia.

Yien Phin holds a Bachelor of Civil Engineering degree from the University of Canterbury, New Zealand, and a Master of Business Administration from the University of Dubuque, USA.



**CHRIS NG**

Product Supply Director
Procter & Gamble

Chris currently leads the manufacturing site in Singapore for P&G. The site supplies critical intermediates to more than 10 other P&G plants in Asia. Prior to this, he led the organisation in Australia and Philippines to deliver breakthrough results for about seven years of his total P&G career.

He has over 17 years of experience in supply chain management in markets within Asia with proven track record of delivering supply chain driven value creation. His expertise lies in 'end to end' planning and Manufacturing Operations Excellence.

**AARIC POO**

Assistant Plant Manager
F&N

As the Assistant Plant Manager of F&N Foods Pte Ltd, Aaric leads the manufacturing, quality assurance and engineering department. He is the key person driving safety and sustainability in the company, and possesses more than 15 years' experience in food manufacturing industry.

**MAHESH RAO**

Director, Strategic Marketing & Key Accounts (Asia-Pacific)
SUEZ Water Technologies & Solutions

Mahesh Rao has over 30 years experience in the water treatment industry covering various industries. He has held various commercial and marketing leadership positions in Australia, Singapore, China, India and Malaysia. He is a Chemical Engineering professional with a keen interest in strategic business development, environmental sustainability and innovation. He is currently residing in Kuala Lumpur, Malaysia.

About the Singapore International Water Week

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About SUEZ Water Technologies & Solutions

SUEZ and its 89,000 employees strive to preserve our environment's natural capital: water, soil, and air. SUEZ provides innovative and resilient solutions in water management, waste recovery, site remediation and air treatment, optimizing municipalities' and industries' resource management through "smart" cities and improving their environmental and economic performance.

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