

20-24 September 2021
Virtual Event

**CONFERENCE
DIALOGUES
WORKSHOPS
TECHNICAL TOURS**

Navigating The Future of Water in The New Norm

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Join us from 20-24 September, as MIWC 2021 journeys with you to explore how the water industry can navigate into the new norm, and turn challenges into opportunities. Delegates can anticipate a wide range of utility and industry-specific content, with a focus on water reforms in navigating the new norms in order to stay resilient and sustainable. This is your opportunity to network globally, discover the latest trends from the world's pre-eminent water experts and access first-class content from anywhere and anytime during the 5-day event.

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KEYNOTES



**YB Dato' Sri Tuan Ibrahim
bin Tuan Man**

*Minister of Environment and Water
Ministry of Environment and Water, Malaysia*

Keynote and Official Opening



**Dato' Seri Ir. Dr.
Zaini Ujang**

*Secretary General
Ministry of Environment and
Water, Malaysia*

Keynote



**Dato' Ir. Alice
Jawan Empaling**

*Permanent Secretary
Ministry of Utilities Sarawak,
Malaysia*

Keynote



**Dato' Ir. Nor
Hisham Bin
Mohd. Ghazali**

*Director General
Department of Irrigation and
Drainage,
Ministry of Environment and
Water, Malaysia*

Keynote



**Professor Dato'
Ir. Dr. A. Bakar
Jaafar**

*Chairman
Malaysian Green Technology
& Climate Change Centre
(MGTC), Malaysia*

Keynote



**Haji Wan Hassan
Bin Mohd Ramli**

*Chairman
Suruhanjaya Perkhidmatan
Air Negara (SPAN), Malaysia*

Keynote



**Dato' Hj. Ahmad
Faizal bin Abdul
Rahman**

*Chief Executive Officer
Suruhanjaya Perkhidmatan
Air Negara (SPAN), Malaysia*

Keynote



**Ir. Azman Mat
Jusoh**

*Director, Water Resources
and Climate Change
Research Centre*

*National Water Research
Institute of Malaysia
(NAHRIM)*

*Ministry of Environment and
WaterMalaysia*

Keynote

SPEAKERS PROFILE

Visit our website for the latest Speakers update.

CONFERENCE DAY 1



Dr. Ching Thoo a/l Kim

*Deputy Secretary-General
Ministry of Environment and Water (KASA), Malaysia*

Water Reforms under the New Norm | Monday - 20/9/2021 | Water sector reform in Malaysia: issues and challenges

Ching Thoo a/l Kim obtained BA (Hons) in Communications from Universiti Kebangsaan Malaysia in 1990 and MSc in Communication Technology from Universiti Putra Malaysia in 2002. In 2008, he pursued a PhD programme at Wageningen University, the Netherlands and graduated in 2012, where he did a research on the policy and performance of the Malaysia water sector reform.

He is currently holding post of Deputy Secretary-General in charge of the water sector at the Ministry Environment and Water (KASA) and a Commissioner with the Suruhanjaya Perkhidmatan Air Negara (SPAN). He was appointed as the Board of Director of Indah Water Konsortium (IWK) from 2016 – 2021. He was among the pioneer group who involved in the water reform exercise in Malaysia in 2006, which among others, initiated to address two fundamental challenges: operational inefficiency and ineffective governance and regulatory; and unsustainable financial model. The reform has been implemented through the corporatization of the state's water supply departments, effective regulatory oversight via the establishment of the sector regulator, the Suruhanjaya Perkhidmatan Air Negara, and sustainable financial model undertaken by the sector financier, the Pengurusan Aset Air Berhad.



Ir. Muhamad Sobri bin Zakaria

*Executive Director
Water & Sewerage Regulatory Department,
National Water Services Commission (SPAN), Malaysia*

Water Reforms under the New Norm | Monday - 20/9/2021 | Regulating Water Services Industry Through Planning Tools and Standards

Ir. Muhamad Sobri Bin Zakaria is the Executive Director of Water and Sewerage Regulatory Department in Suruhanjaya Perkhidmatan Air Negara. Ir. Muhamad Sobri Bin Zakaria holds a Degree in Civil Engineering from Universiti Teknologi Malaysia (UTM). He joined SPAN in 2008 as the Director of Southern Region Office actively managing operational compliances.

In 2010, he headed the Technical Standard and Compliance Division until 2013. Subsequently, he was promoted to Senior Director of Industry Audit Division until 2019 in charge of auditing the performance of water and sewerage operators. Thereafter, he was appointed to his current position as an Executive Director of Water and Sewerage Regulatory Department in 2019. He is currently actively looking into the core functions of the department to boost industry development and implementation of dynamic and relevant policies and strategies to drive long term sustainability in this industry.



Yahaya Saad

*Senior Deputy Director (Regulatory)
Engineering Services Division,
Ministry of Health, Malaysia*

Water Reforms under the New Norm | Monday - 20/9/2021 | Rural Water Supply and Environmental Sanitation

Yahaya Saad is a Senior Deputy Director (Regulatory) of Engineering Services Division for Ministry of Health Malaysia. He is responsible for policy setting, managing, coordinating and implementing various environmental engineering programs. Among the scope of programs includes the Drinking Water Quality Program, Rural Water Supply and Sanitation, Environmental Health Risks and also Waste and Hygiene in Malaysia. He holds Bachelor of Civil Engineering from University of Canterbury, Christchurch New Zealand. Yahaya is a Certified Project Management Associate with International Project Management Association (IPMA) and has more than 30 years of experience in civil engineering and public health.

Please note that the conference programme and speakers line-up are subject to changes.
Visit our website www.miwc.tech for the latest information.

CONFERENCE DAY 1



Chuchat Saitin

*Managing Director
AMATA Water Co. LTD. Thailand*

Water Reforms under the New Norm | Monday - 20/9/2021 | Water Security Management is Challenging Thailand Economic Growth

Chuchat Saitin is a civil engineer and graduated with Master of business administration (MBA.) He has a professional experience over 35 years in engineering and management of Dam construction project, industrial park construction project and water management for industrial park in Thailand, Vietnam and Myanmar. Beside, he is also a former Vice President of Amata Vietnam Joint stock company in Vietnam during year 2012 to 2015.

Presently, he is working as Managing Director of Amata Water Company Limited which is responsible for water management and water security of 2 industrial estate in Thailand, in Chonburi Province and Rayong province with more than 1200 factories and besides, he is also a director of Water and Environment Institute for Sustainability (WEIS) at the Federations of Thai Industries which has a role in water management and water security for industries in Thailand.



Ir Salmah Zakaria

*Chair of ASM Water Committee
Academy of Sciences Malaysia, Malaysia*

Water Reforms under the New Norm | Monday - 20/9/2021 | The water sector – A dynamic economic Sector

Ir Salmah Zakaria FASc, PhD, a Fellow of ASM and the current Chair of the ASM Water Committee, graduated with BE (Civil-UTM). She obtained her post graduate studies in Dip in Hydraulics (IHE, Delft), MSc (Land & Water Resources Management) and a PhD (Peat Water Management) both from Cranfield Institute of Technology, UK. A member of IEM and BEM, she served more than 6 years in UNESCAP, Bangkok (2015-2008) and more than 30 years in the Malaysian Civil service. Her last 3 positions were as the Director General of NAHRIM (2008-2005), Director of Corp Development DID (2005-2002) and Director of River Engineering DID (2002-1999).



Dato' Ir. Lim Chow Hock

*Past President
The Institution of Engineers, Malaysia*

Water Reforms under the New Norm | Monday - 20/9/2021 | Sustainable Water Management at River Basin Level

YBhg. Dato' Ir. Lim Chow Hock is currently the Past President of the Institution of Engineers, Malaysia (IEM). He holds a degree in Civil Engineering from the University of Malaya and a postgraduate certificate in Water Resources Engineering from the University of Birmingham. He is a Fellow of the Academy of Sciences Malaysia (ASM) and an Honorary Fellow of the Institution of Engineers Malaysia (IEM). YBhg. Dato' Ir. Lim retired from public service in 2014 after serving for 36 years with the Department of Irrigation and Drainage Malaysia (DID). He has extensive experience in the fields of irrigation, agricultural drainage, flood mitigation, urban stormwater management, dam engineering, river engineering, coastal zone management, hydrology, and sustainable water resources management and governance. From 2015-2019, Dato' Ir. Lim served as a Commissioner of SPAN, a national body which regulates the services related to potable water supply and sewerage. During the same period, he was also appointed as a Technical Advisor to the State Government of Penang on matter related to flooding and water resources management.

CONFERENCE DAY 1



Hafizah binti Hasan

Senior Principal Assistant Director
Engineering Services Division, Ministry of Health Malaysia.

Water Quality | Monday - 20/9/2021 | Drinking Water Safety Regulation in Transition: Case Studies from Malaysia and from England and Wales

Hafizah binti Hasan holds a MSc. (Eng.) in Civil Engineering from the University of Leeds, United Kingdom (UK). Trained as a Public Health Engineer herself, Hafizah has a broad understanding and experience in the field of drinking water quality surveillance since 2001, including the formation of the National Drinking Water Quality Surveillance Programme Manual and the review of the National Standard for Drinking Water Quality, as well as the drafting of the Drinking Water Quality Bill and the introduction of Water Safety Plans (WSPs) for urban water supplies. Hafizah is also one of the World Health Organization (WHO) WSP trained trainers, and by utilising the WSP methodology nationally developed with the WHO consultants, she coordinated a series of regional WSP workshops throughout the country in 2012 and 2013. After her return in 2018 for her PhD with Cranfield University in the UK specialising in drinking water quality governance and risk management, Hafizah is responsible for the water, sanitation and hygiene (WASH) activities for MOH Malaysia healthcare facilities. Hafizah is currently affiliated with the WHO International Network of Drinking-water Regulators (RegNet), the International Water Association (IWA) and the Malaysian Water Association (MWA).



Ahmad Selihin Che Said

Deputy Director
Sarawak Rural Water Supply Department, Malaysia

Water Quality | Monday - 20/9/2021 | Practical Approach in Water Treatment Process To Secure Treated Water Quality

Ahmad Selihin Che Said has been involved with water supply since 2008 as water supply engineer in JKR Sarikei Division after secondment service in CMS Road Sdn.Bhd (2005-2008). He started career in JKR since 1988 in Road & Civil Engineering Section, Investigation & Design Section and Road maintenance Section until 2005. In 2014 transferred to JKR Sarawak Head Office and attached at Hydraulic & Water Supply Branch until Jabatan Bekalan Air Luar Bandar Sarawak (JBALB) was formed in 2015. He was appointed as Ketua Penolong Pengarah (Operasi) then and since 2019 is holding the position of Timbalan Pengarah (Operasi). He has also served in Regiment 511 Askar Wataniah , 2nd Battalion (1996-2020) as Reserved Officer (Ranked: Major)



Ir. Azrul Raimee bin Ramli

Director of Regional Operation Division
Water & Sewerage Regulatory Department,
National Water Services Commission (SPAN), Malaysia

Water Quality | Monday - 20/9/2021 | Pollution Monitoring for Water Resources

Ir. Azrul Raimee Bin Ramli holds a Bachelor of Engineering in Civil & Structure from Universiti Kebangsaan Malaysia (UKM) B.Eng (Hons) in 2000. He is a professional engineer, registered with the Board of Engineers Malaysia (BEM), currently served as Director of Regional Operation Division at National Water Services Commission or SPAN and held various senior capacities prior to his current post since 2014. He is responsible to oversee the daily operation of SPAN regional and state offices all around Peninsular Malaysia. He also has spectrum of experience in the water industry covering both operational and technical where he started his career as Civil Engineer at Perbadanan Urus Air Selangor Berhad (PUAS) and then as Head of Operation and Maintenance at Petaling District Office of Syarikat Bekalan Air Selangor Sdn. Bhd. (SYABAS) from 2003 until 2007. He also served National Audit Department (JAN) from 2008 until 2013 as Deputy Director of Technical Auditor in Water Sector before joining SPAN.

CONFERENCE DAY 1



Inês Breda

*Product & Process Manager
Silhorko/Eurowater A/S Treasurer YWPK I
Emerging Water Leader IWA*

Water Quality | Monday - 20/9/2021 | Biofiltration from Groundwater Sources Without The Use of Chemicals

Product and Process Manager of Filtration technology at Silhorko-Eurowater. PhD, with over six years of experience in drinking water in both academic and industrial environments. Member of the International Water Association (IWA), sitting at the Emerging Water Leaders Steering Committee and at Young Water Professionals Denmark Interested in multivariate data analysis, applied research and transition of knowledge across different stakeholders. Awarded by Grundfos in 2019 for research contribution and dissemination skills. Driven by social engagement, aspiring to export Danish technology to emerging economies and being on the edge of innovation in the water sector.



Noor Haza Fazlin Hashim

*Research Officer
National Water Research Institute of Malaysia (NAHRIM),
Malaysia*

Water Quality | Monday - 20/9/2021 | Tracking The SARS-COV2 Via Our Sewerage System

Dr. Noor Haza Fazlin binti Hashim received her doctorate in Microbiology from Universiti Kebangsaan Malaysia (UKM) in 2014. She currently served as a research officer at Water Quality Laboratory, National Water Research Institute Malaysia (NAHRIM). She is an experienced environmental microbiologist where her work mainly focusing on microbial adaptation, antimicrobial resistance in water bodies, and enzyme technology. She is appointed as a member of the technical working group, National Antimicrobial Resistance Committee (2018-2021). Apart from that, Dr. Noor Haza Fazlin is an active member of Malaysia Society of Applied Biology where she has served as a deputy treasurer since 2020.



Ir. Dr. Zaki Zainudin

Water quality and modelling specialist

Water Quality | Monday - 20/9/2021 | Logic Algorithms in Water Quality Benchmarking: The Hybrid Water Quality Index

Ir. Dr. Zaki Zainudin is a renowned water quality and modeling specialist, having led and played key roles in hundreds of environmental studies for both private and government sectors. Zaki is a Professional Engineer with the Board of Engineers Malaysia (BEM), Chartered Engineer (CEng) with the Engineering Council, UK and Chartered Environmentalist (CEnv) with the Society for the Environment (SocEnv, UK). He is often a source of reference for various organizations on surface water quality management; such as being an expert panelist for the Department of Environment Malaysia (DOE, EIA, Water and Marine units) and is advisor to many prominent environmental and engineering firms. He has conducted various workshops and talks on water quality and modeling at both local and international venues. Zaki is also on the management committee of the International Water Association (IWA), Watershed and River Basin Management (W&RBM) Specialist Group.

CONFERENCE DAY 2



Professor D.A. Dragan Savić, FREng

*Chief Executive Officer
KWR Water Research Institute, The Netherlands*

Water 4.0 | Tuesday - 21/9/2021 | Digital water transformation: Lessons learned from the automotive and aviation industries

Professor Savić is Chief Executive Officer at KWR Water Research Institute based in the Netherlands, Professor of Hydroinformatics at the University of Exeter in the UK and Distinguished Professor at Universiti Kebangsaan Malaysia. He is an international expert in hydroinformatics and smart water systems with over 35 years of experience working in engineering, academia and research consultancy. His work has resulted in patentable innovation and spinout companies. In addition to innovation and leadership skills, he is known for believing in bridging science to practice in the wider water sector and utilities in general. Prof. Savić is an elected Fellow of the Royal Academy of Engineering and a Member of the European Academy of Sciences.



Nordiana Idris

*Head of Legal
Indah Water Konsortium Sdn Bhd, Malaysia*

Water 4.0 | Tuesday - 21/9/2021 | Navigating Policy and Legal Framework for Water 4.0 In Malaysia

Diana Idris is serving her third term as the Head of Legal at Indah Water Konsortium Sdn Bhd. Prior to her current role, she spent more than a decade in various senior in-house legal position in several industries engaging in concession, investment, construction, manufacturing and healthcare, both local and regional roles providing full legal services and support functions to function leaders. An arbitrator and a regular speaker at domestic and Asian legal conferences, she is dynamic and competent professional with in-depth experiences and knowledge in various legal affairs with positive attitude and able to offer practical solutions in the field of law.

Diana was one of the presiding judge at the e-Novice Arbitration Mooting Competition (e-Namco) 2019 and 2020, coaching the law undergraduates to utilise meticulous application of law and critical thinking for dispute resolution. Diana is also a key member for Task Force IR4.0 Water Sector set up under Academy Science Malaysia for Economic Planning Unit to undertake the Roadmap for the National Agenda on Water Sector Transformation 2040 (WST2040) Development Study.



Florian Braunbeck

*Business Development Digital
KSB Service GmbH, Germany*

Water 4.0 | Tuesday - 21/9/2021 | The Easiest Step into Water 4.0: Cloud-based Condition Monitoring for Pumpsy

Florian Braunbeck (*1995) studied business administration at the University of Bayreuth, Germany, specialising in innovation management. He then worked for a management consultancy in the field of innovation, through which he also came into contact with KSB. Florian has been working for KSB since 2018, first in the development department, which deals with digital transformation and thus with IoT and digital solutions, before moving to the business development department of the service department to help customers around the world digitise their plants.

CONFERENCE DAY 2



Shanmugavel Subramaniam

*Water Segment Leader | Schneider Electric Asia
Strategic Customers & Segment, Singapore*

Water 4.0 | Tuesday - 21/9/2021 | Digital Transformation for Sustainability & Resilience in Water Utilities via Unified Operation Centre

Mr. Shan has been with Schneider Electric for the past 20 years with experiences in automation business; technical, sales & management; working in Malaysia, France & Singapore. Further, he is involved in regional business development, strategic account management & currently leading the Water & Waste Water segment business in East Asia & Japan.

As the Water & Waste Water segment leader, Shan works with the countries' leaders defining their vision, strategy & ambition, supporting the sales & marketing activities in the water industry. He is also Schneider Electric's spokesperson for EcoStruxure™ (Digital/IoT platform) for Water & Waste Water and has been presenting the latest solutions & technology trends in the Water & Waste Water segment across various regional events.



Matthias Kremer

*Head of Market Segment Management of JUMO
Jumo GmbH, Germany*

Water 4.0 | Tuesday - 21/9/2021 | JUMO Digital Sensors in Water/Wastewater

Matthias Kremer has worked more than 27 years in the field of Digital & Analog Sensors and Systems for Liquid Analyzing in Water/WasteWater applications. Today he is Head of Market Segment Management of JUMO and in persona Industry Manager for Water&Wastewater. He is actively involved in committees of the important industry associations GWP, DWA and the ZVEI on the topic of water - digitalisation - sensors and systems.



Oliver Ziem

*Senior Project Engineer
Jumo GmbH, Germany*

Water 4.0 | Tuesday - 21/9/2021 | JUMO Automation Solution in Water/Wastewater application

Oliver ZIEM has worked for more than 30 years as an Project Manager and Engineer in the field of HVAC, Seawater Desalination, Process Water, Industrial Waste Water and Ultrapure Water applications for Chip- and Solarpanel production. Today he works as Senior Project Engineer in customer projects with the JUMO VariTRON Automation System and Cloud Solutions.



Jason Lee

*CEO and Head of Consulting
Avantedge Consulting Group, Malaysia*

Water 4.0 | Tuesday - 21/9/2021 | Building Blocks of Industry 4.0 in the Water Industry

Jason Lee is the CEO and Head of Consulting for Avantedge Consulting Group based in Malaysia and Thailand. He is both an engineer and lawyer by training. He has been a consultant for large and public listed companies on strategic business development, ESG/Sustainability management and reporting, and Industry 4.0 transformation road mapping and implementation. He has also been a trainer and speaker on various topics relating to utilities and infrastructure, Industry 4.0, ESG/ Sustainability etc. for organizations such as FMM, MyWA, IEM, MIDF, and other organizations in ASEAN. He is an active member of the Malaysian Water Association.

CONFERENCE DAY 2



Dr. Khairul Baqir AlKhair bin Khairul Amin

*Training & Research Coordinator,
The Malaysian Water Academy Sdn Bhd*

Capacity Development | Tuesday - 21/9/2021 | Malaysian Water Academy (MyWA) Roles in Enhancing Competency Development for Water Supply Industry

Dr. Khairul Baqir AlKhair bin Khairul Amin (K.B. AlKhair) graduated from Universiti Teknologi MARA with a Doctor of Philosophy (Science) and holds a Bachelor of Science in Biotechnology from California Polytechnic State University. His dissertation focusing on an integration of Microbial Fuel Cell System with Palm Oil Mill Effluent Wastewater Treatment Plant. He managed to publish three (3) journal articles under SCOPUS index and successfully published one (1) journal article under Q2 journal publication.

Prior to Malaysian Water Academy Sdn. Bhd. He is the Training and Research Coordinator that managing the training needs of Water Industry and providing an industrial competency training program. He ensures all the trainings that are offered is fit the requirements and needs for water industry under the Suruhanjaya Perkhidmatan Air Negara (SPAN) as the regulator.



Dr. Tanuja Ariyananda

*Chief Executive Officer
Lanka Rain Water Harvesting Forum (LRWHF),
Sri Lanka*

Capacity Development | Tuesday - 21/9/2021 | Capacity Building to Mainstream Rainwater Harvesting In Sri Lanka

Chief Executive Officer/Director of Lanka Rain Water Harvesting Forum (LRWHF) since its inception in 1996. LRWHF is a non-government no profit organisation working to promote Rain water Harvesting for domestic use in Sri Lanka.

Hydro biologist with a PhD in Environmental Science, from University of Kelaniya, Sri Lanka on M.Sc. in Aquatic Resource Management from King's College London, B.Sc (Honours) in Applied Biology from University of Wales, UK.

Member of the Ministerial Committee for Developing Policy and Strategy for Rain Water Harvesting in Sri Lanka 2005.

Past President (2008-20012), Secretary General Director Women's programme of International Rainwater Catchments Systems Association,

Author of several books on Rain water harvesting.

Published more than 25 research papers at national International Forums.



Dr. Addie Wong Wai Meng

*Director
Taliworks Technologies Sdn Bhd, Malaysia*

Capacity Development | Tuesday - 21/9/2021 | The Development of Capacity Building of Water Industry in Malaysia – Past, Present and Beyond.

Dr. Addie is a Director of Taliworks Technologies Sdn Bhd. He has a BSc from UKM, major and a MSc from Manchester University of UK. His PhD is in Drinking Water Treatment from UTM through Suez Environment (Degremont) technology transfer program to UTM. He has 30 years of working experience in water industry, where 3 years with Royal Society Scientist of UK, 13 years with Suez Water associated company and was a member of Suez Water Research Steering Board. He has been involved in capacity building since 1995 and provided SPAN Certified Training through MyWA in 2012 and 2013.

CONFERENCE DAY 2



Pawan Sachdeva

*Non Executive Director
Water Management International Pte, Ltd. Singapore*

**Capacity Development | Tuesday - 21/9/2021 |
Phnom Penh Water Story - Key lessons in capacity building**

Pawan Sachdeva has a unique blend of experience in public market investing as well as water-related public policy. He is extremely passionate about making positive contributions to urban water policy aimed at improved water security in Asia. Pawan has close to 27 years of work experience spanning across the public market investing, water-related public policy, and gas pipeline laying. Pawan has a B.Tech from Indian Institute of Technology, Kharagpur (India); an MBA from Indian Institute of Management, Bangalore (India) and an MPA from Lee Kuan Yew School of Public Policy, NUS (Singapore). Currently, he is Director of Aventus Capital Pte Ltd, Singapore, and Non-Executive Director of Water Management International Pte Ltd Singapore.



Dr. Renard Siew

*Climate Change Advisor
The Centre for Governance and Political Studies (Cent-GPS), Malaysia*

**Capacity Development | Tuesday - 21/9/2021 |
Water Management by the Private Sector**

Dr Renard Siew is the Board of Advisor to CENT-GPS where he is responsible for advancing the organisation's work in the field of climate change and sustainability. He is the Founder of Accelerating Climate Action and has served as Co-Chair of the Climate Change & Disaster Risk Management Working Committee and UNEP-FI's Collective Commitment on Climate Action. In 2020, he was appointed an SDG Champion–Climate Action by the World Economic Forum (WEF). He is a member of the WEF Expert Network Group, serves on the WEF Global Future Council, a Community Champion for Southeast Asia and a Global Lead for the Global Shapers Climate & Environment Steering Committee. He was accepted into the Forbes Fellowship Programme in 2018 and attended the inaugural UN Climate Action Summit in New York in 2019. Renard is part of the facilitation team at the Cambridge Institute of Sustainability Leadership (CISL). He has also lectured and been appointed Advisor for various universities.

Prior to this, he was involved in the implementation of the sustainability agenda for a number of public-listed corporations (Sime Darby, CIMB) and was a postdoctoral fellow & researcher at the Centre for Energy and Environmental Markets (CEEM) contributing thought leadership in: sustainability/integrated reporting, ESG integration, socially responsible investment (across different asset classes: equities, infrastructure and property/real estate), climate change and sustainable construction for the building/infrastructure sector. Renard is a graduate of Cambridge University and UNSW. In 2013, he was selected as one of 15 scholars to attend the PhD Academy at the Swiss Federal Institute of Technology (ETH). He has published in many international refereed journals. In 2014, he won a Highly Commended Paper award by the Emerald Literati Network and was inducted into the prestigious Global Young Academy as recognition of his research impact.

CONFERENCE DAY 3



Narendran Maniam

*Chief Executive Officer
Indah Water Konsortium Sdn Bhd, Malaysia*

**Alternative Financing | Wednesday - 22/9/2021 |
Water Reform: Alternative Financing for Water Reclamation Projects**

Narendran was appointed as the Chief Executive Officer Indah Water Konsortium Sdn Bhd (IWK) in August 2019. His role is to spearhead the company in undertaking the vital task of ensuring that Malaysians today and in the future to be able to enjoy a clean and healthy environment through a proper and well-maintained sewerage system. He has over 20 years of successful experience with combined professional experience in Strategic Planning, Business Development, Planning of Water and Wastewater Infrastructure and Operations of Water and Wastewater Services including project financing. Prior to IWK, Narendran was the CEO of Ranhill Water Technologies Sdn Bhd.



Kavita Sachwani

*Program Lead, Maharashtra
World Bank Group, Mumbai, India*

**Alternative Financing | Wednesday - 22/9/2021 |
Alternative Financing for the Water Sector**

Kavita Sachwani – a public policy and financial services professional, is a corporate crossover from the BFSI to the development sector with over two decades of experience spanning policy advocacy and program management in water resources management, public health, financial inclusion and financial services. She is currently part of the global leadership team of the 2030 Water Resources Group (2030 WRG) - a public private partnership platform hosted by the World Bank's Water Global Practice.

She leads and manages the Secretariat of the Maharashtra Water Multi-Stakeholder Platform of the 2030 WRG towards creating the wider political economy conditions and momentum for change in water reform. Her focus is on building multi-stakeholder platforms to mobilize the private sector, government, civil society, bilateral agencies and development banks to work collectively in accelerating progress towards ensuring water security, strengthening climate resilience, building a circular water economy, catalyzing disruptive technologies and alternative financing for the water sector and mainstreaming gender in agriculture. She has worked closely with several State Governments and the Union Government in projects for nation-building.

Kavita is a Chartered Accountant by qualification and has worked with the HDFC Group, Templeton Asset Management and CRISIL in the first half of her career. She is a travel enthusiast and has conceived and launched exhibitions aimed at uplifting rural women and differently-abled artisans in various states in India towards contributing to preserving India's fading art forms and sustainable livelihoods.

CONFERENCE DAY 3



Abdul Hadi Ali

*Chief Executive Officer
Pengurusan Aset Air Berhad, Malaysia*

Alternative Financing | Wednesday - 22/9/2021 | Future of Water in New Norm – Alternative Financing

Abdul Hadi joined PAAB in April 2010 as an Assistant General Manager, Treasury under Finance Division and later was promoted to Chief Corporate Officer in 2013. He was designated as Chief Treasurer after an internal reorganisation in May 2018 which saw Treasury function been assigned to him. He was appointed as Acting CEO in August 2018 and later officially as the CEO of PAAB effective from 19 March 2019.

Abdul Hadi has over 20 years of treasury management experience both in corporate and banking environment. In 1989, he started his career with PETRONAS in money market and foreign exchange desk and later moved to fixed income portfolio management. He made his foray into banking industry by joining Aseambankers Berhad, which is an investment banking arm of the Maybank Group in 1994 and he became the Chief Dealer and later promoted as the Head of Treasury in 1999. He moved to Hwang DBS Securities in 2002 to establish the private debt securities (PDS) trading desk and joined KAF Discount Berhad (later known as KAF Investment Bank), in 2003 as the GM, Head of Sales. In 2008, Abdul Hadi left Malaysia to join the Islamic Development Bank, a multilateral development bank based in Jeddah, Kingdom of Saudi Arabia as a Financial Market Specialist. His main responsibility was in the area of liquidity and institution's currency basket management (Islamic Dinar) and investments.

Abdul Hadi graduated from University of Missouri at Kansas City, USA with Masters in Business Administration (Finance) and Bachelor of Business Administration (Finance) from Loyola University, New Orleans in USA. He attended various advanced management programmes offered by world renowned institutions such as IMD and University of Cambridge UK.



Ahmad Feizal Sulaiman Khan

*Chief Business Officer
Malaysian Rating Corporation Berhad, Malaysia*

Alternative Financing | Wednesday - 22/9/2021 | MARC's Take on the Malaysian Water Industry

Ahmad Feizal is MARC's Chief Business Officer and leads the business division which includes business origination and development, and strategic communications. He is also CEO of MARC Learning Sdn Bhd (formerly known as MARC Training Sdn Bhd), the learning and development arm of the MARC Group.

With a career spanning more than 20 years and across four continents, Ahmad Feizal has accumulated a wealth of experience in various roles in corporate finance, capital markets, real estate and business management.

Ahmad Feizal is a Fellow Chartered Accountant of Ireland and holds a Bachelor of Science in Accounting and Financial Analysis from University of Warwick, UK.



Khairil Anwar bin Abdul Manap

*Senior Vice President, Business Banking Group II
Bank Pembangunan Malaysia Berhad, Malaysia*

Alternative Financing | Wednesday - 22/9/2021 | Alternative Financing

Mr. Khairil Anwar has over 30 years of experience in the banking industry and is currently serving 8 years in BPMB, focusing on infrastructure projects for the development of the Nation, in line with the mandated role of BPMB. He is presently spearheading one of the Business Banking department in the Bank. Prior to joining BPMB, Mr. Khairil Anwar held several managerial positions in local and foreign banks overseeing global banking departments and SME businesses with tremendous success. He holds a Bachelor of Law from Universiti Teknologi Mara.

CONFERENCE DAY 3



Professor Dr. Ashraf Md. Hashim

*Senior Researcher, CEO
ISRA Consulting Sdn Bhd, Malaysia*

Alternative Financing | Wednesday - 22/9/2021 | Financing Water Projects through Awqaf Sukuk: A Win-win Solution

Prof. Dr Ashraf bin Md Hashim is the Chief Executive Officer of ISRA International Consulting (ISRA Consulting). He is also a Senior Researcher at International Shariah Research Academy for Islamic Finance (ISRA) and a Professor at International Centre of Education in Islamic Finance (INCEIF).

Dr Ashraf currently sits on the Central Bank of Malaysia's Shariah Advisory Council (SAC BNM) as Deputy Chairman and the Securities Commission of Malaysia's Shariah Advisory Council (SAC SC). He is also, a member of Shari'ah Committee for International Islamic Liquidity Management Cooperation (IILM) and the Chairman of Shariah Committee of Bursa Malaysia (Malaysia Exchange House). In addition, he also serves as member of National Fatwa Council of Malaysia (Muzakarah Kebangsaan Hal Ehwal Agama Islam), a registered Shariah adviser of Securities Commission, advising a few REIT companies particularly in Singapore. He is also a member of Board of Directors for Tabung Haji (Pilgrimage Fund) and its Chairman of Shariah Board. He is actively involved in many consultations works related to Islamic finance in Malaysia and abroad, among others the Islamic Bank of Australia (Project), Noor Takaful Nigeria (Chairman of Advisory Council of Experts) and IMON International, Tajikistan. He was also the Chairman for Panel of Experts in Muamalat Matters under the Islamic Development Division, Prime Minister Department Malaysia and currently the member of the Panel of Shariah Experts of the same department.

Previously, he used to serve as Shariah Committee for Alliance Bank (2005-2007), Al-Rajhi Bank Malaysia (2007-2011), Takaful Malaysia (2005-2008), ACR Retakaful Malaysia & Bahrain (2008-2011) and Association of Islamic Banking Association Malaysia (AIBIM) (2009-2020). He had also served as a member for Islamic Financial Services Board (IFSB) Technical Committee on Retakaful. Dr Ashraf obtained his PhD (Islamic Law) from University of Birmingham, United Kingdom (1999). His Masters in Fiqh and Usul Fiqh from University of Jordan (1995) and his BA in Shariah from Islamic University in Medina, Saudi Arabia (1991). He is also a holder of Postgraduate Diploma in Shariah Law and Practice (DSLPP) from International Islamic University Malaysia (2000).



Sr Hj Nor Ifuan Md Nor

*Chief Executive Officer
Ranhill SAJ, Malaysia*

Non-Revenue Water | Wednesday - 22/9/2021 | Should We Reduce Our NRW?

CONFERENCE DAY 3



Muhammad Redha bin Md Hatta

*Head of Business Development
Ranhill Water Services Sdn Bhd, Malaysia*

Non-Revenue Water | Wednesday - 22/9/2021 | Critical NRW Operational Tool During These Pandemic Times

Mr Muhammad Redha graduated from Universiti Tenaga Nasional, Malaysia with a Bachelor of Mechanical Engineering. He started off as a Project Engineer in 2003 in Ranhill Engineers and Constructors managing all mechanical, electrical, instrumentation, SCADA and telemetry related works for SAJ Holdings CAPEX program. These includes Water Treatment Plants, Booster Pumping Plants and Raw Water Intakes. The CAPEX works was valued at USD300 Million.

In 2012, he was transferred to Ranhill Water Services (RWS) as the Project Manager for a Sewerage Pipe Rehabilitation Project in Kuala Lumpur City Center under the Greater Kuala Lumpur River of Life program. Under the project a total of 42km of sewer pipeline was rehabilitated within the Kuala Lumpur Golden Triangle Area using various method including Cured In Place Pipe, Slip Lining and Pipe Bursting. After 4 years in Kuala Lumpur, he has been assigned to business development for the company. Since its formation, RWS has completed more than USD250 Million value of NRW related contracts and have saved more than 650 Mld of treated water. In May, 2019 Mr Muhammad Redha was appointed to the post Head of Business Development of Ranhill Water Services. He have presented papers in several occasions on behalf of the company including Malaysia International Water Conference, Asia Water and Borneo Water events.



Mark Nicol

*International Sales Director
Mueller Water Products, Singapore*

Non-Revenue Water | Wednesday - 22/9/2021 | Can Proactive Network Health Assessments Help To Optimise Return On Investment?

Mark has 20 years of experience in the water industry, with a focus on hydraulic modelling, non-revenue water and pipeline asset management. Mark held several roles with Thames Water and Mouchel in the UK before relocating to Malaysia in 2007 to join Ranhill Water Services as Network Modelling Manager. He joined Mueller in 2011 to establish a regional office in Singapore and introduce the Echologics brand into the APAC region. Mark has a BSc in Geography and an MSc in Water Modelling and Management, both from the University of Reading. He also holds an Executive MBA from Henley Business School.



Stuart Hamilton

*Managing Director
Hydro Tec Ltd, United Kingdom*

Non-Revenue Water | Wednesday - 22/9/2021 | A simple 'Rule of Thumb' approach to ALC and Leak Noise Transfer over Distance in Plastic and Polyethylene Water Distribution Systems

Stuart is currently chair of the IWA water Loss Specialist Group and has been in position since 2018 and has just been voted in for another 4-year period taking this position until 2026. Stuart has written many papers and has also co-authored 4 books for the IWA and 1 for the AWWA with one released earlier this year in 2021 'Improving Water Supply Networks – Fit for Purpose Strategies and Technologies' and another in 2020 an updated version of the book 'Leakage Detection'. Stuart is a qualified civil engineer, chartered environmental engineer and chartered manager having studied at both Northampton and Huntingdon university in the UK. Stuart started working in the water industry in 1980 where he spent 14 years with Anglian water prior to leaving to set his own company delivering worldwide NRW projects and has worked within the NRW arena in over 40 countries. In 2018 Stuart joined Miya Water as the director of international business development and is now the Head of NRW Development.

CONFERENCE DAY 3



Paul Harris

*Head of Business Consulting
Isle Utilities, Australia*

Non-Revenue Water | Wednesday - 22/9/2021 | Approaches to Leakage Management – A Global Perspective

Paul has over forty (40) years of experience and is responsible for marketing, sales and delivery of business consulting engagements in Australia, New Zealand, Asia, Europe, North America and the Middle East. He has worked for nearly one hundred (100) water and energy utilities, and delivered strategic, regulatory, asset management, operations, customer service, technology and efficiency improvement for every major water utility in Australia. Paul was a Director and Water Practice Lead for Marchmont Hill Consulting (MHC). He was the Managing Director of UMS Group in Asia-Pacific, where he served as Global Asset Management Solution Leader and Global Performance Management Solution Leader.



Sufian Sidek

*General Manager
Wyeth Water Consultants, Malaysia*

Non-Revenue Water | Wednesday - 22/9/2021 | Holistic NRW Program in Customer Compound

Sufian graduated from the University of Science Malaysia in 2004 with a Bachelor degree in Civil Engineering. He started his carrier with Premier Ayer Bristol Water in 2004, working as an NRW Engineer on the Selangor State NRW project. He continue his carrier to Ranhill Water Services in 2005 where he spent more than 5 years as a Senior NRW Engineer working on the establishment and management of DMAs in Johor and Melaka States. He also involved in Hydraulic simulation project for Johor all mains model and design of DMAs in Kota Malang, Indonesia.

Besides that, he involved in Waterlinks program with USAID Ecoasia in Bac Ninh Water Authority, Vietnam and in Provisional Water Authority (PWA) Uthong, Thailand as a trainer for NRW awareness program. In 2010 Sufian joined i2O Water as a Technical Account Manager, and spent 6 years working on advanced pressure management consultancies, undertaking feasibility studies, installations and on-going maintenance works for few water company in Malaysia, Cambodia, Philippines, Singapore, China & Australia. Sufian had joined Wyeth Water Consultants and successfully manage a couples of NRW project all over Malaysia and continue to serve the company with the expertise and experience he had until today.

CONFERENCE DAY 4



Dr. Kalithasan Kailasam

*Water & Waste Management Specialist
Global Environment Centre (GEC), Malaysia*

Water Management Tools | Thursday - 23/9/2021 | Partnership through Natural Based Solution for River Care

Dr. Kalithasan Kailasam attained his PhD from National University of Malaysia in 2001 and joined Global Environment Centre in 2002. He is currently the Manager of the River Care Programme where he coordinates GEC's work on lake and river management, pollution control and environmental education programme. Dr. Kalithasan has over 20 years of working experience in river ecosystem management, particularly on stakeholder engagement and environmental education. He is pioneer on Civic Science and Community Participation in River Management in Malaysia. He has developed a number of key projects related to river basin, water, wetlands and solid waste management through innovative especially nature based approach, as well has vast experience in river basin management, river auditing exercise and community based flood preparedness in Malaysia. He has developed number of programme like RIVER Ranger, SMART Ranger, Flood Ranger and DRH2O. Currently he is project leader for River of Life Public Outreach Programme phase 5, WATER STEWARDSHIP programme, developing Upper Kinta Basin Management plant well empowering Orang Asli on sustainable resource and alternative livelihood initiative mainly in Upper Kinta Basin. He is recognized as a key expert in water resource and ecosystem management esp. community engagement and has been continuously appointed as advisor, trainer or panel in a wide variety of initiatives, committees and activities by varies government department, local authorities, private sectors and civil society. He has also developed guidelines, modules, handbook and published more than 50 technical reports, scientific papers



Ir. Nur Hareza Binti Redzuan

*Chief Assistant Director
Department of Irrigation and Drainage, Malaysia*

Water Management Tools | Thursday - 23/9/2021 | Water Resource Balance Study of National Water Balance Management System (Nawabs) for Sungai Melaka Basin

Ir Nur Hareza binti Redzuan is a Chief Assistant Director of Department Irrigation and Drainage Malaysia (DID) since 2006. She has a background in Civil Engineering and broad experience across the development/study and operation in water resource sectors. National Water Balance Management System (NAWABS) is a water resource model developed by DID Malaysia since 2016. In this system, she works closely with professionals in both the federal and state stakeholder to advance their digital workflows and help them realize the value of water resource their organizations and for their people.



Hj Zurin bin Salleh

*Chief Executive Officer
Ranhill Water Services Sdn. Bhd., Malaysia*

Water Management Tools | Thursday - 23/9/2021 | NRW Management Experience During Pandemic Times

Mr Hj Zurin graduated from Universiti Kebangsaan Malaysia with a Bachelor of Mechanical and Material Engineering and holds a Diploma in Management from Universiti Malaya. He has 30 years of experience as a professional in the water utility industry holding various key posts including planning, design, supervision of works, operations and maintenance of water supply system. He is also a certified Energy Manager with Suruhanjaya Tenaga (ST). Prior to Ranhill Water Services he was Ranhill SAJ's Head of Division (Operations) overseeing SAJ's complex daily operations including the Production Department, Distribution Department, Mechanical and Electrical Department and also NRW Control Department. In March 2021 he was appointed as the Chief Executive Officer of Ranhill Water Services Sdn Bhd. He was invited to present several papers previously during SAJ's Water Conferences and UTM International Webinar.

CONFERENCE DAY 4



Dr. Afifa Safira A Gani

*Asset Manager
Indah Water Konsortium Sdn Bhd,
Malaysia*

Water Management Tools | Thursday - 23/9/2021 | Indah Geoportal – GIS for IWK’s Customers

I have more than 15 years of experience in water and wastewater management, which 13 years of it in sewerage management. Currently, I am the Head of Asset Management Unit in Planning and Engineering Department at Indah Water Konsortium Sdn Bhd (IWK). I have graduated with a Bachelor of Technology in Environment from Universiti Sains Malaysia (USM) in 2003 before earning my Master of Science in Environmental Engineering in 2005 from Universiti Putra Malaysia (UPM). In 2019, I managed to complete my Doctor of Philosophy in Universiti Teknologi Malaysia (UTM). At Asset Management Unit, I am responsible to rollout and implement the Asset Management initiatives within IWK by developing, formulating, implementing and continuously improving the IWK’s Asset Management System which is in line with ISO 55001. Also in charge of the asset related information systems within the company which are the main source of asset related data such as the Asset Management Information System (AMIS), Integrated Geographical Information System (IGIS), Asset Risk Management System (ARMS) and capital works project planning.



Robin Wong

*Regional Director
Aquasuite@ (Asia Pacific), Royal HaskoningDHV, Singapore/Netherlands*

Water Management Tools | Thursday - 23/9/2021 | Using an AI-Powered Virtual Operator as an Autopilot and Analyst for Achieving Smarter Automation Across Water System

Robin is currently the Regional Director at Royal Haskoning DHV Digital for the Aquasuite software business in APAC. He is based in Singapore and enjoys being in the water sector for the past 20 years where he has worked for global water technology and consultancy & engineering firms. He has lived overseas in several Asian cities across China, Hong Kong and Southeast Asia for the past decade where he held various leadership roles. He is currently also serving as Council member at the Singapore Water Association.



Cláudia Guerreiro

*Head of Water Quality
Aquapor, Portugal*

Water Management Tools | Thursday - 23/9/2021 | The Challenges of Implementing Climate-Resilient Water Safety Plans – A Utility Management Group Perspective

Cláudia is Head of Projects & Innovation and Water Quality at Aquapor, with a background in innovation and water quality, which started out with a Master in Environmental Engineering. Her area of expertise is focused on water supply system risk assessment, through the implementation of Water Safety Plans, in projects that covered more than 700000 people in Portugal. As Head of Project and Innovation she coordinates projects aiming to develop, in partnership with R&D Centres, innovative urban water cycle challenges. She is passionate about innovation in the water sector and enjoys collaborative working to deliver successful projects.

CONFERENCE DAY 4



Arni Shahrina binti Shaharum

*Director
Development & Audit Industry Division,
National Water Services Commission (SPAN), Malaysia*

Green Technologies and Circular Economy | Thursday - 23/9/2021 | Water Efficient Product Labelling Scheme (WEPLS)

Arni Shahrina binti Shaharum is the Director of Development & Audit Industry Division, Suruhanjaya Perkhidmatan Air Negara (SPAN). SPAN is a technical and economic regulatory body for the water supply and sewerage services in Peninsular Malaysia and Federal Territories of Putrajaya and Labuan. She holds a degree in Civil Engineering from the University Technology of Malaysia (UTM). Prior to joint SPAN, she has four (4) years of experiences as an engineer at Sewerage Services Department (Southern Region). In March 2008, Arni Shahrina has been appointed as an Executive of SPAN Southern Region Office in Johor Bahru and appointed as Head Of Branch of SPAN Pahang Branch Office (Eastern Region) in September, 2012 before get promoted at Development & Audit Industry Division, SPAN Headquarter in 2018.



Azuan Ahmad Zahdi

*Head of Corporate Planning
Indah Water Konsortium Sdn Bhd, Malaysia*

Green Technologies and Circular Economy | Thursday - 23/9/2021 | Corporate Transformation Towards Business Sustainability and Circular Economy - IWK Perspective

With over 15 years of consolidated experience in corporate transformation, strategic planning, business development and sustainability, Azuan currently serves as Head of Corporate Planning Department in Indah Water Konsortium (IWK). Working closely with the other leaders in IWK and a vibrant team in the department, Azuan is responsible in ensuring strategies are comprehensive in meeting the aspirations and vision of the company. This includes the role of crafting and managing strategic initiatives, stakeholder management and reporting, quality management, business development and transformation. Prior to IWK, Azuan has served in similar roles in automotive, water and aviation industry.



Ray Tan

*Business Development Manager, Water & Wastewater - South East Asia
Alfa Laval*

Green Technologies and Circular Economy | Thursday - 23/9/2021 | Reducing operational cost and ensuring optimal performance with Alfa Laval's decanter innovations

Ray Tan received his Degree in Mechanical and Manufacturing Engineering from Liverpool John Moores University. He is responsible for water and wastewater business in South East Asia (Malaysia / Singapore) and has been with Alfa Laval for 8 years. With more than a decade of experience in the water and wastewater industry, he is actively developing solutions to cater to the industry's everchanging needs on water processes.

CONFERENCE DAY 4



Dr. Chitra S Raju

*Process Manager
Billund Vand og Energi A/S, Denmark*

**Green Technologies and Circular Economy | Thursday - 23/9/2021 |
Years of positive energy balance and reuse of hygienic sludge at Billund Biorefinery**

Dr. Chitra S Raju has her Ph.D from Aarhus University 2012 and MSC form Aalborg University 2005. Dr. Raju has worked as Post-Doctoral Fellow at Aalborg university and since 2017 as Process Manager at Billund Vand og Energi A/S. Dr. Raju's responsibilities includes optimization and management of the processes in Billund Biorefinery, all the wastewater treatment plants in Billund municipality and managing the associated research activities.



Theis Nikolaj Gadegaard

*Market Manager
Krüger A/S, Denmark*

**Green Technologies and Circular Economy | Thursday - 23/9/2021 |
Years of positive energy balance and reuse of hygienic sludge at Billund Biorefinery**

Mr. Theis Nikolaj Gadegaard, MSc Sanitary and environmental engineering, Market Manager and working with Danish Veolia subsidiary, Krüger, since 2000. Mr. Gadegaard is responsible for Innovation and Sales in the company. Since 2012 taking part in Danish orientation around energy producing WWTPs and has done R&D in the field of circular economy, with wastewater and biosolids as starting point. Mr. Gadegaard has strong experience in carrying out Innovation projects in private public partnerships.



Poonam Sewak

*Vice President Knowledge & Partnerships
Safe Water Network, India*

**Green Technologies and Circular Economy | Thursday - 23/9/2021 | Making Cites
Water positive through City Water Balance Plans: Case Study Hyderabad Municipality India**

Poonam is a water sector specialist and has over 25 years of rich multi-disciplinary experience in policy, strategy consulting, research, entrepreneurship and institution building. She co-founded the organization's flagship safe and affordable social enterprise model called 'iJal stations' to serve the bottom of pyramid. As public policy professional, Poonam provided policy recommendations to the 'National Rural Drinking Water Program' of the Ministry of Drinking Water and Sanitation for 'Har Ghar Jal' vision by 2024. She conceptualized and launched the Safe Water Enterprise Alliance, a multi-sectoral partnership for sector collaboration and advancement of safe water access through enterprises. Poonam is currently a Member of the Bureau of Indian Standards committee and a Guest Speaker at national and international forums. She holds a Master's degree in Pharmacy from the Nagpur University with a Gold Medal in her graduation.

CONFERENCE DAY 4



Professor, Dr. Ma'an Al Khatib

*Deputy Dean (Academics and Industrial Linkages)
International Islamic University Malaysia*

Green Technologies and Circular Economy | Thursday - 23/9/2021 | Responsible Research and Industry-Academia Partnership to Enhance Indigenous Green Technologies

Dr. Ma'an Alkhatib is a Professor in Chemical Engineering. He gained his BSc in Chemical Engineering from University of Jordan and pursued his master degree in Universiti Kebangsaan Malaysia and obtained his PhD from Universiti Putra Malaysia. He is currently the deputy dean for academics and industrial linkages in Kulliyah of Engineering, International Islamic University Malaysia (IIUM). His research interests spans across the areas of separation processes, water and wastewater and nanotechnology. He published more than 130 journal and conference papers, few books and chapters in books. He graduated many PhD and MSc students and has few registered patents. He is enthusiastically involved in active learning. He won the Best Teaching Award for Science stream in 2015. He was in the founding committee and currently a member of the Minister of Education Malaysia Special Awards: Curriculum Design and Innovative Delivery. At present he is chairing the alternative assessment category committee under this award. His research in wastewater developed his passion for the environment, where he founded IIUM River of Life group and established Friends of Sg. Pusu (Pusu River) to raise awareness about issues related to rivers pollution and the environment and to develop community empowerment. He is also a co-founder of Friends of Klang River Basin and currently the assistant secretary of this NGO.

CONFERENCE DAY 5



Ir Mohd Taufik Salleh

*Head of Planning & Engineering
Indah Water Konsortium Sdn Bhd, Malaysia*

Wastewater Management | Friday - 24/9/2021 | Domestic Wastewater, The Untapped Resource – Malaysia Context

Ir. Mohd Taufik bin Haji Salleh hold a Bachelor of Engineering in Civil Engineering from University Technology of Malaysia (UTM), B.Eng. (Hons.). Taufik is a professional engineer, registered with the Board of Engineers Malaysia and currently is the Head of Planning and Engineering in IWK. His main areas of expertise is in infrastructure developments and sewerage / wastewater management. He has worked for several consulting and contracting companies prior to joining Indah Water Konsortium (IWK) in late 1996. Since joining IWK, Taufik has been involved in the development of sewerage industry locally and internationally (Indonesia, Kingdom of Saudi Arabia, Bangladesh and Philippines) particularly in the areas of planning, designs, standards development, quality control, environmental & safety management, research & development, capacity building and operation & maintenance.



Dr. Joachim Glasenapp

German Water Partnership, Germany

Wastewater Management | Friday - 24/9/2021 | The Role of Improved Municipal Wastewater Treatment in Reducing Greenhouse Gas Emissions

CONFERENCE DAY 5



Tim Puehmeier

Product Manager, Xylem

Wastewater Management | Friday - 24/9/2021 | Full Scale Reality of Micropollutant Removal with Ozone

Tim Puehmeier is currently product manager for Xylem and specializing in ozone systems for water treatment applications with a responsibility for the Wedeco ozone generator portfolio and strategy. He is guiding and launching new ozone products globally. Tim has more than 19 years of experience in the water treatment sector and a focus to European regulative affairs. He joined Xylem in 2010. Prior to joining Xylem, Tim worked in surface water runoff management, treatment and drainage. He has a degree in Chemical Engineering, MSc in Environmental Sciences followed by a PhD in Biology.



Professor Azmi bin Aris

Director, Research Institute for Sustainable Environment (RISE), Malaysia

Wastewater Management | Friday - 24/9/2021 | Applications Of Biogranulation Technology in Wastewater Treatment

Professor Azmi bin Aris is a professor of Environmental Engineering at Universiti Teknologi Malaysia (UTM). He started his career in UTM at the Department of Water and Environmental Engineering, School of Civil Engineering, 31 years ago. He was the Director of the Centre for Environmental Sustainability and Water Security (IPASA) and is currently the Director of Research Institute for Sustainable Environment (RISE), UTM. Prof. Azmi works in the field of water pollution control with specific interest in wastewater treatment and water quality management. He has been involved in various studies funded by several agencies including the DOE, NAHRIM, ASM and BAKAJ. To date, he has authored/co-authored about 200 technical publications in various forms.



Frank Reilly

*Training Programme Coordinator
JBP Consultancy Services Asia Sdn. Bhd., Malaysia*

Wastewater Management | Friday - 24/9/2021 | Enabling know-how exchange and education to meet the demands of the new norm, in a digital world

Frank is a graduate of the University of London. He has had more than 25 years' experience working with educational programs, and almost an equal amount of time in marketing and communications. With a combination of this experience and 14 years working with JBP in the Trenchless sector, he has successfully assisted JBP delivering Trenchless training to over 500 managers, engineers and technicians across a wide variety of markets.

Frank has worked with JBP since 2007, focusing primarily on development of markets and research. Since 2016 he also started working with the development and delivery of JBP's programme of trenchless training courses and materials. More recently Frank has been working with the establishment of an on-line training platform for JBP's Trenchless Training programme, and the adaptation of its courses for delivery in the digital world.

CONFERENCE DAY 5



Professor Dato' Ir. Dr. Abdul Wahab Mohammad

*Deputy Vice Chancellor
(Research and Innovation Affairs)
Universiti Kebangsaan Malaysia*

Wastewater Management | Friday - 24/9/2021 | Physical-Chemical Treatment of Water and Wastewater: Point of view from water reuse and recycle processes

Abdul Wahab Mohammad is currently Deputy Vice Chancellor (Research and Innovation) at Universiti Kebangsaan Malaysia (UKM) and Professor in Membrane and Separation Technology at the Research Centre for Sustainable Process Technology (CESPRO), UKM. His research interest is on membranes science and applications, wastewater treatment, water reuse and recycling. He has published more than 300 journal papers with citation exceeding 11,000 and h-index of 49. He is the Co-Chief-Editor of an Elsevier journal, Journal of Water Process Engineering which has an impact factor of 5.485. He was the co-recipient of 2008 Prince Sultan International Water Prize for his work on nanofiltration membranes and 2015 MTSF Science Award.



Professor Dato' Dr. Ahmad Bin Ibrahim, FASc

*UCSI University,
Malaysia*

Wastewater Management | Friday - 24/9/2021 | Advances in Wastewater Management; R&D Breakthroughs @ Fraunhofer, Germany

Graduated in Chemical engineering from Monash University, Melbourne, obtained PhD in Wastewater Engineering, Newcastle University UK, did Post-doctorate at Cornell University, USA under Hubert Humphrey Fulbright program, attended Advanced Management Program at Oxford University Business school.

Now serve as Professor of Chemical Engineering at UCSI University, also Senior Advisor Malaysia for Fraunhofer Research Network Germany. A Fellow of the Academy of Sciences Malaysia, ASM, a Fellow of the ASEAN Academy of Engineering & Technology, AAET, and Fellow of the International Rubber Research and Development Board, IRRDB.

Now, active interest in Policy for Sustainable Cities, UN-SDGs, Climate Change issues, Low Carbon Management, STI Policy studies on energy, water and agriculture. Writes extensively in the media on issues related to STI, Sustainability, Smart Urban Planning, City Wastes, Future of the rubber industry, future-proofing the palm oil business.



Chai Kim Chen

*Director
CTI Resources Sdn Bhd, Malaysia*

Water Innovations | Friday - 24/9/2021 | AI Driven in Water Management

Chai Kim Chen has over 25 years of experience in industrial & process automation, wireless communication, SCADA & Telemetry solutions.

He has implemented water supply command centers, water network management, and end-to-end digital enablement roadmap for multiple water utility companies.

With vast exposure and experience, Mr. Chai focuses on developing innovative operation & performance optimization strategies to improve performance for water utility operators.

CONFERENCE DAY 5



Jeff Bates

*Marketing Manager
IDEXX Water, Singapore*

**Water Innovations | Friday - 24/9/2021 |
Wastewater surveillance for reliable public health data**

Jeff Bates is a Marketing Manager for IDEXX Water. Since joining IDEXX Jeff has worked with customers around the world on their implementation of wastewater surveillance for SARS-CoV-2. Jeff has a B.A. in Environmental Studies from Middlebury College and an MBA from the Darden School of Business at the University of Virginia.



Dr. Mudasser Iqbal

*Director
Client Solutions & Global Software Strategy,
Xylem Innovation Labs*

**Water Innovations | Friday - 24/9/2021 |
Developments, Applications and Challenges of sensor networks in the UK, Australia,
Malaysia and Singapore**

Dr Mudasser is a co-founder of Visenti, a Xylem brand and has led the development of Smart Water platforms both internally and their adoption at some of the world's leading water utilities in Singapore, Australia/New Zealand and the Middle East. In particular, he has led the teams across Singapore, India, Australia and the United States in developing solutions for real-time leak detection and localization, Automated Meter Analytics (AMA) for AMR/AMI systems and demand analytics in urban water distribution systems.

An MIT young innovators TR35 winner, Dr Mudasser received Ph.D. in Computer Science with majors in Wireless Remote Sensing from Monash University in Melbourne. He holds multiple patents in the areas of large-scale climate monitoring, virtualization in sensor networks, large-scale and remote sensing and Cloud computing.



Fakhri Nordin

*Principal Consultant
AVEVA*

**Water Innovations | Friday - 24/9/2021 |
Empowering Connected Worker with Cloud and Artificial Intelligence**

Fakhri Nordin is AVEVA's Principal Consultant with more than 15 years of experience in Asset Performance Management (APM) and Performance Intelligence.

He is currently leading AVEVA's APM Technical Sales Group for the SEA region and has helped to enable many clients in various Digital Transformation projects.

Graduated from University of Malaya with BSc Hons Computer Science Major in Artificial Intelligence, he is very passionate about driving digital transformation across the asset and operational life cycle achieving business goals.

CONFERENCE DAY 5



Dr. Adeline Chua

*Associate Professor IR
Universiti Malaya, Malaysia*

Water Innovations | Friday - 24/9/2021 | Cost-effective and efficient biological nitrogen removal in sewage treatment in Malaysia

Adeline Chua Seak May is an Associate Professor in the Department of Chemical Engineering, University of Malaya. A PhD graduate from The University of Tokyo, Japan, she specialises in biological nutrients removal and resource recovery. She has published more than 40 papers in ISI-indexed journals and has supervised over 15 PhD and master students. Adeline is also a Chartered Engineer of IChemE, UK and a Professional Engineer of BEM, Malaysia. She works closely with Indah Water Konsortium and a number of local companies to improve the performance of their wastewater treatment plants. The academia-industry research collaboration has earned her the award of international funding Newton Fund Impact Scheme. Her international research partners include NIES (Japan), SCELSE (Singapore), NSTDA (Thailand), and Newcastle University (UK).



Dr. Seyed Hassan Assaee

*Head of Composite Research Institute
Shiraz University, Iran*

Water Innovations | Friday - 24/9/2021 | Persian Gulf Water Transmission Pipeline: One of the largest GRP water transmission lines, a review of challenges and technical issues overcome

Dr. Seyed Hassan Assaee is an Associate Professor in the Mechanical and Aerospace Engineering Department, Shiraz Technical University. He is an expert in composite design and design of GRP materials with more than fifty publications in this area. He has also served as Engineering Director at Farassan Group of Companies and is currently a technical advisor to Excel Pipes Sdn Bhd. He has been intimately involved with GRP pipe design and optimization, and has managed many of the largest GRP pipeline designs and installations in Iran and the Middle East.

He obtained his Ph.D. in Structural and Aerospace Engineering with a focus on Composite Materials from Amirkabir University of Technology in Iran. He completed a comprehensive study on buckling and post-buckling behavior of composite structures during his study.



Ts. Dr. Afnizanfaizal Abdullah

*Senior Lecturer, Co-Founder / CEO
Synapse Innovation Sdn Bhd, Malaysia*

Water Innovations | Friday - 24/9/2021 | AI in Water Innovations: Developing Smart Platforms for Sustainable World

I am a senior lecturer at the School of Computing, with a PhD. in Computer Science, specializing in artificial intelligence techniques for analyzing complex data. My research interest is in designing machine learning algorithms for large data analysis, in which I have published in major tiers of journals and conferences. I believe in solving computing problems in industries and public societies. Therefore, I am also holding a position as the Chief Executive Officer (CEO) at my spin-off company, Synapse Innovation Sdn. Bhd., which I co-founded in 2019. Currently, the company focuses on commercializing my research to the industries, majorly in manufacturing, healthcare, and agriculture.

Programme

Registration

Conference Fees



Kingdom of the Netherlands

21 September 2021 Tuesday at 2.15pm Malaysia/Singapore Time

The 4th Malaysia-Netherlands Water Dialogue

A Virtual Panel Discussion on “Managing Water Pollution: An Integrated Solution Approach”

Water is crucial for life and uniquely vulnerable to pollution. Some 80 percent of the world’s wastewater is dumped, largely untreated, back into the environment, polluting rivers, lakes, and oceans. Accidental or illegal releases from sewage treatment facilities, by products of agricultural activities and runoff from urban areas, have contributed harmful chemicals and pathogens into the waterways. This widespread problem of water pollution is jeopardizing human health. Without action, the challenges are expected to increase by 2050, when global demand for freshwater is expected to be one-third greater than it is now (UNESCO, 2017). This panel discussion will focus on the challenges faced in managing water pollution and the innovative solution/ technology to overcome this issue.

Tentative Programme

Welcome & introduction by moderator

Dr. Norhayati binti Abdullah

Associate Professor, Technology University of Malaysia (UTM)

Welcome speech by

His Excellency Aart Jacobi

Ambassador of The Kingdom of The Netherlands in Malaysia

Opening speech by

YB Dato’ Sri Tuan Ibrahim bin Tuan Man

Minister, Ministry of Environment and Water, Malaysia

Special address by

Mr. Henk Ovink,

Special Water Envoy for International Water Affairs, The Netherlands

Keynote speech by

Dato’ Seri Ir. Dr. Zaini bin Ujang

Secretary General, Ministry of Environment & Water Malaysia

Introduction and Polling by Moderator

Malaysia Panel 1:

Rosli Bin Mustafa (TBC)

Director, Division of Water and Marine, Department of Environment, Malaysia

The Netherlands Panel 1:

Marc de Rooy

Water Quality Expert, Water Quality Department, Dutch Ministry of Infrastructure and Water Management

Malaysia Panel 2:

Ir. Bibi Zarina Bt Che Omar

Director, Department of Water Resource Management & Hydrology, Department of Irrigation & Drainage Malaysia

The Netherlands Panel 2:

Dr. Ir. Doris van Halem

Associate Professor in Drinking Water, Delft University of Technology

Malaysia Panel 3:

Narendran Maniam

Chief Executive Officer, Indah Water Konsortium Sdn. Bhd.

The Netherlands Panel 3:

Dr. Stefan Kools

Manager - Chemical Water Quality and Health KWR Water Research Institute

Panel discussion with live questions from the audience

Concluding remarks from the moderator

End of session

for full detail



23 September 2021 Thursday at 3pm Malaysia/Singapore Time

SPAN Dialogue

A Virtual Panel Discussion on “Future of The Water Industry”

The water services industry’s landscape has been changed, since the establishment of National Water Services Commission (SPAN) which started its regulatory operational in 2007 by enforcing of the Water Services Industry Act (WSIA) 2006 in 2008. The operations of water services industry in all the states of Peninsular Malaysia and the Federal Territories, are now more uniform in accordance with Act 655. The industry of each states shall meet the requirements and standards set by SPAN including in the matter of tariff revision.

Although the delivery aspect is generally improved, the industry is still facing many challenges that affect the quality of services such as Non-Revenue Water (NRW), individual daily water consumption (Liter per Capital per Day), and water tariff which is unsustainable compared to operating and management costs.

Apart from that, the industry is also plagued by the threat of pollution on water resources as well as lack of raw water resources during the dry season in several states. Mitigation measures and infrastructure to address these issues require heavy investment.

With the public expectation that the quality of services and delivery should be better including water to be directly consumed from taps, the challenges faced by the industry require immediate measures and more efficient technologies to be introduced.

What are the appropriate steps forward to be taken by industry players and whether it is time for the industry to look at alternative sources for raw water?

Join our dialogue session to get views from credible panelists on the future of the water industry in Malaysia.

Keynote by

Tuan Haji Wan Hassan bin Mohd Ramli
Chairman, National Water Services Commission (SPAN), Malaysia

Moderated by

Dato’ Ir Mohd Yusof bin Mohd Isa
Board member of Perak Water Board

Panelist

- Dato’ Hj. Ahmad Faizal bin Abdul Rahman
Chief Executive Officer, National Water Services Commission (SPAN), Malaysia
- Dr. Ir. Ts. Hj. Mohamad Asari Daud, President, Malaysian Water Association
Sr Hj Nor Ifuan Md Nor, Ranhill SAJ, Malaysia

for full detail

TECH SESSIONS

Topics & Speakers

DAY 1 | Monday-20/9/2021



TS. ARDI BIN BAKHTIAR

*General Manager Sales Division
Alam Sekitar Malaysia Sdn Bhd, Malaysia*

Smart Integrated Water Resource Quality and Management

Ts. Ardi Bakhtiar is presently the General Manager Sales Division and responsible in Sales and Business Development activities for Alam Sekitar Malaysia Sdn Bhd. He is in charge of managing overall sales and business development performance and day to day sales activities for all projects pursue, after sales services and any client engagement program. He graduated with Bachelor of Environmental Science from University Malaysia Sabah. He has been with ASMA for eighteen (18) years and has involved in many environmental projects not only in Malaysia but also Saudi Arabia. He specialized in environmental monitoring processes and systems, focusing on emission and water quality. His projects include National River Water Quality Monitoring Program for DOE, Island Water Quality Monitoring Program for DOE and Marine Park Department, Predictive Emission Monitoring System (PEMS) development at Tunku Jaafar Power Station (TJPS) - Port Dickson, Installation & certification of PEMS at Malaysia LNG - Bintulu, Petronas Chemical MTBE - Gebeng and Petronas Gas Berhad - Kertih, installation of Continuous Emission Monitoring System (CEMS) for TNB - JanaManjung and many more. He also certified trainer (TTT/14567) in provide environmental training for various client for various topic such as Application of Mobile CEMS as part of PEMS development and certification for DOE officers, Petronas & Hengyuan Refining Company (HRC) formerly known as Shell Refining Company- Port Dickson. Application of CEMS / PEMS as part of compliance in Clean Air Regulation 2014 (CAR 2014) for various industries, Implementation of audit program for CEMS / PEMS (RAA, RATA & CGA) and many more. He is also certified as Profesional Technologist (PT21040284) in April 2021 in field of Atmospheric Science & Environmental Technologies (AC) from Malaysia Board of Technologist (MBOT).



PAUL BUCK

*SALES DIRECTOR
Statiflo International, United Kingdom*

The Statiflo Gas Dispersion System for Ozonation Applications

Paul Buck, Sales Director for Statiflo International has been working in the Statiflo team since 2008. Paul joined the company as an Applications Engineer and throughout his 13 years with the company has been involved in the design and supply of many Statiflo Gas Dispersions Systems to worldwide project locations. Through past project work in a variety of industries and applications Paul has become one of the world leading experts in static mixers and static mixing technology.

TECH SESSIONS

Topics & Speakers

DAY 2 | Tuesday-21/9/2021



FOONG LIN HOE

*MANAGING DIRECTOR
Stratus Technologies in South Asia and
ASEAN Emerging Countries*

Powering Digital Transformation in Water with Edge Computing

A veteran in Information and Operation Technology, Lin Hoe brings with him a wealth of experience in Industrial and Process Automation, IT consulting, outsourcing, and infrastructure solutions across numerous verticals, including Water, transportation, financial services, and telecommunications. He is known for spearheading new business initiatives and critical business recovery in the different roles he has held in his career. Most recently, Lin Hoe has been leading digital transformation initiatives at the Edge.

Lin Hoe earned his Executive MBA with California State University, US, and B. Eng (Hons) degree in communications and electronics from the University of Birmingham, UK.



FELICIA PHOON

*OT Security Engineer
Yny Technology Sdn Bhd, Malaysia*

The First Step for Improving Cybersecurity towards Water Sector Resiliency

Felicia Phoon graduated from University Malaysia Perlis with a bachelor degree on Electronic Engineering. She is active in the ICS/OT cybersecurity industry, particularly in the Water and Manufacturing sector. She mainly focuses on risk assessment and implementation of network security solution on ICS/OT network.

Felicia is experienced in delivering ICS/OT security projects, integrating IEC62443 requirements into the implementation of OT network and security solution for manufacturing plants. On top of that, she also provides training on various cybersecurity topics related to Industry4wrd Readiness Assessment, OT network security devices and cybersecurity audits.



JOHN TRUEMAN

*Business Development Manager – Australia And Se Asia Water Processing Solutions
Aqseptence Group Pty Ltd, Australia*

Triton Underdrains – Increasing WTP Capacity Quickly and Reliably

John's career has spanned 15+ years, during which time he has developed a portfolio of achievements inclusive of people management, business development, channel management, sales, marketing, campaigning, complaints resolution and project management. He brings to the table a mix of technical and personable skills that allow him to effectively network and identify with both internal and external

stakeholders. John holds a Bachelor of Mechanical Engineering from Auckland University of Technology. He has worked in New Zealand, China, Japan, USA and now resides in Brisbane, Australia, with his family.

TECH SESSIONS

Topics & Speakers

DAY 4 | Thursday-23/9/2021



NATALIA PUSPA DEWI PELIPUS

*Principal Assistant Director
National Flood Forecasting and Warning Centre, Department of Irrigation and Drainage,
Malaysia*

The Challenges on the Development of Hydrodynamic Flood Forecasting Model for Small Urban Basin

Madam Natalia Puspa Dewi binti Pelipus graduated from Universiti Teknologi Malaysia with a Bachelor's Degree in Civil Engineering in 1999 and obtained a Master's Degree in Water Engineering from Universiti Putra Malaysia in 2013.

She started her civil servant career in 2002 with her first service in the Department of Irrigation and Drainage Malaysia as a Civil Engineer in the Irrigation and Agricultural Drainage Division. She is currently servicing as Principal Assistant Director for the National Flood Forecasting and Warning Centre (PRABN) in the Department of Irrigation and Drainage Malaysia. Ever since 2019, she has been leading a flood modelling unit responsible for the development of the national flood forecasting and warning system for the northern region of Peninsular Malaysia.



ROBERT BREARS

*Founder
Our Future Water*

Greening our Grey Cities with Nature-based Solutions

Robert C. Brears is the Editor-in-Chief of the Palgrave Handbook of Climate Resilient Societies and the Palgrave Encyclopedia of Urban and Regional Futures; both Major Reference Works published with Springer Nature. He is the author of nine books, including Urban Water Security, Blue and Green Cities, The Green Economy and the Water-Energy-Food Nexus, Climate Resilient Water Resources Management, and Developing the Circular Water Economy. He is the Founder of Our Future Water, which has a Knowledge Partnership with the World Bank's Connect4Climate Program to take on climate change and the UNEP/World Bank/OECD-hosted Green Growth Knowledge Platform.

DAY 5 | Friday-24/9/2021



DANIEL BUSUIOC

*Head Of Business Development WMI
Wilo SE, Germany*

Importance of conservation of water resources

Daniel Busuioc has graduated Politehnica University of Bucharest, Romania, in 2003, as a Diploma Engineer specialized in Hydraulic Machines (Pumps, fans and turbines). Since 2004, he is working with Wilo, in several locations and position, first as a KAM in Wilo Romania, then as a Head of business development for WMI for the entire Wilo Group, located in Germany. Mr. Busuioc has an extensive experience (both theoretical and practical) in all application field of water, from Water intake and treatment, distribution to wastewater collection, transport, treatment and reuse. He is also experienced in handling complex projects, including international financed projects, or turn key projects.

Virtual Technical Tours



Day 1:

Setia Alam Water Reclamation Plant

(Hosted by: Indah Water Konsortium Sdn. Bhd., Malaysia)

[Learn More >>](#)



Day 2:

Solar RO Project Under SAWAS Initiative

(Hosted by: EXXOR Technologies Sdn. Bhd., Malaysia)

[Learn More >>](#)



Day 3:

Underwater Trunk Main Repair

(Hosted by: Metropolitan Waterworks Authority, Thailand)

[Learn More >>](#)



Day 4:

Falmouth Massachusetts Long Pond Water Treatment Plant

(hosted by Xylem Water Solutions: Leopold Filtration and Wedeco Ozone)

[Learn More >>](#)

Virtual Technical Tour Fees	Organisation / Government / Academia		Students
	RM	USD	
Setia Alam Water Reclamation Plant	50	15	
Solar RO Project Under SAWAS Initiative	50	15	
Underwater Trunk Main Repair	50	15	
Falmouth Massachusetts Long Pond Water Treatment Plant	50	15	

Above fees are subject to 6% Sales and Service Tax (SST).

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[Technical Tour Fee](#)

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