

# The 9<sup>th</sup> **WaterLossAsia2022** Virtual Event

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8-10 Nov 2022



## Controlling Non-Revenue Water through Digital Technology & Artificial Intelligence

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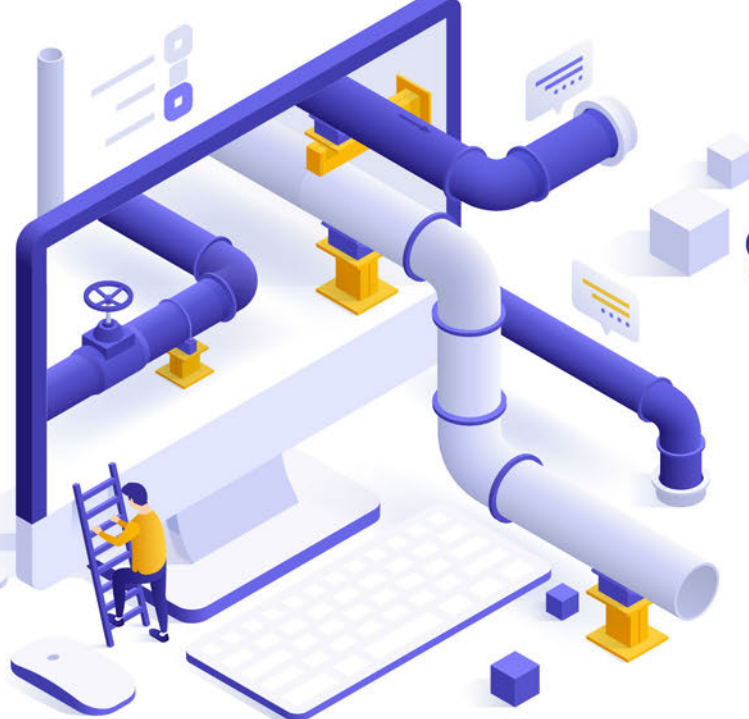


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# Welcome to the 9<sup>th</sup> Virtual Edition of Water Loss Asia

The bi-annual Water Loss Asia (WLA) 2022 conference returns in a virtual format this year on 8-10 November. Supported by International Water Association (IWA) Water Loss Specialist Group, WLA 2022 brings together experts and leaders in the Non-Revenue Water (NRW) industry to bring you an exciting 3-day event on controlling non-revenue water through a deep exploration of digital technology and artificial intelligence available on the market today.

The COVID-19 pandemic has had a negative impact on global economies. The water industry was adversely affected, with unprecedented slowdowns and changes in working methods. On the other hand, it has accelerated positive digital transformation.

The resumption of commercial and social activities is both an opportunity and a challenge for water service providers. If properly managed, this can lead to improved economic and public health outcomes. In contrast, careless execution can expose more people to COVID-19 and force a return to response or emergency mode.

The water sector can rebuild a more sustainable and resilient water sector by addressing future health crises, accelerating universal access to water and sanitation, adopting appropriate digital technologies, and increasing irrigation system resilience for long-term water and food security. The 9<sup>th</sup> edition of Water Loss Asia will focus on controlling non-revenue water through adoption of appropriate digital technology and artificial intelligence.



**Johor NRW Reduction Operation**

**A summary of global challenges facing the water industry**

**Structure of Water Supply Management Sarawak**

Ministry of Utilities Sarawak

- SARAWAK RURAL WATER SUPPLY DEPARTMENT (SRWSD) - Government Agency
- KUCHING WATER BOARD (KWMB) - Statutory Body
- SIBU WATER BOARD (SWB) - Statutory Body
- LAKU MANAGEMENT SDN BHD (LAKU) - Government Linked Company

Conference Hall 3

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# Digital Technological Tools to Reduce NRW

Digital technologies received a lot of attention during the pandemic because digitally prepared service providers were better able to cope. Further exacerbated by growing global concern about rising water scarcity levels. To cope with, and even anticipate, this trend, an increasing number of water service organisations are feeling the need to take a technological leap.

Some digital applications prevalent in high-income countries, may not be suited to the needs of emerging markets and developing economies. Factors such as high levels of unauthorised consumption and low water tariffs are particularly important in terms of mitigating commercial losses. They are also important in reducing physical losses and increasing energy efficiency.

## The Identified Fields of Digital Opportunities are Considered in Three Categories:



### Reduction of Commercial Losses

- Data mining for identification of illegal consumption and meter inaccuracies
- Customer applications
- Localization of illegal connections with ground-penetrating radar
- Detection of illegal bypasses analyzing hydraulic transient
- Smart metering for principal customers
- Apps for commercial field staff



### Reduction of Physical Losses

- Multipurpose geographic information systems
- Drone technology
- Data analysis for prioritization of leak control and asset management
- Leak monitoring in large-diameter water main
- Smart pressure management valves
- Optimized flushing strategy for drinking water networks



### Increase in Energy Efficiency

- Smart energy management systems
- Smart pumps for maximum energy efficiency
- Pump load profile monitoring for energy efficient optimization
- Early or real-time detection of pump malfunction
- Pump maintenance with digital applications
- Analytics of biogas to improve energy efficiency

**Source:** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH 2021

([https://www.researchgate.net/publication/347472857\\_Smart\\_Water\\_Management\\_-\\_Digital\\_applications\\_to\\_reduce\\_non-revenue\\_water\\_and\\_increase\\_the\\_energy\\_efficiency\\_of\\_water\\_utilities\\_in\\_countries\\_with\\_emerging\\_markets\\_and\\_developing\\_economies](https://www.researchgate.net/publication/347472857_Smart_Water_Management_-_Digital_applications_to_reduce_non-revenue_water_and_increase_the_energy_efficiency_of_water_utilities_in_countries_with_emerging_markets_and_developing_economies))

The rapid pace of innovation will drive down costs, allowing more service providers to adopt new technologies. Consider which digital technologies have the greatest impact on service providers' ability to meet their service obligations. Consider the applicability of technology solutions to the operating context. Already, many start-ups based in emerging economies are developing digital solutions that are not only cheaper but potentially more appropriate for the local context.



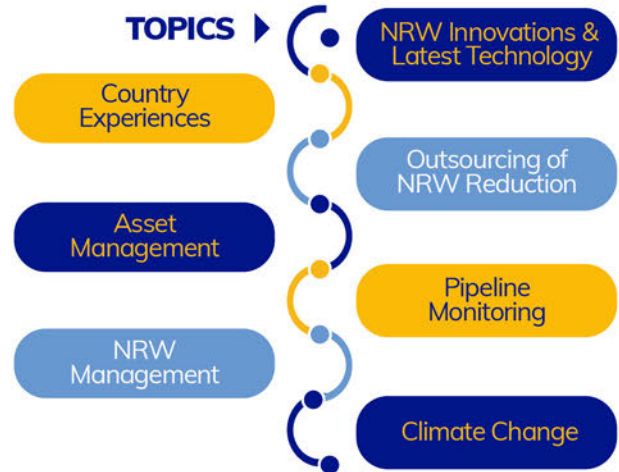
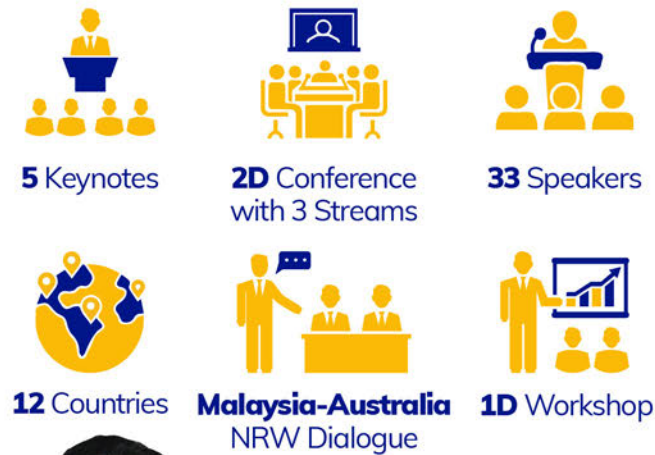
## Role of AI in NRW

According to the World Bank, water utilities lose approximately EUR 14 billion per year due to various water losses. Smart data-driven methods for detecting water losses in public networks are rapidly gaining popularity. These solutions are based on the use of the Internet of Things and Artificial Intelligence (AI) techniques using large real-time flow and pressure datasets collected via smart meters. The term "machine learning" is then used to extract information, validate hydraulic models, detect patterns, and highlight anomalies.

Water utilities can leverage knowledge and data available to make better decisions while improving service delivery and lowering costs by leveraging the power of artificial intelligence algorithms and big data analytics. The majority of water utilities begin their digital transformation with a SCADA connected to a network control centre, and then figure out how to leverage these ICT investments into tangible benefits. As a result, many water utilities' digital capabilities, particularly in developing nations, are not particularly effective for day-to-day operations and do not provide a clear advantage to customers.

Water utilities should make a gradual, pragmatic, and goal-oriented shift to digital. For water utilities to begin their digital transformation into smart water, physical-based methods are the way to go. Through data-driven approaches, the integration of SCADA data with advanced hydraulic modelling tools-including AI in water supply-complements physically based methodologies with powerful optimization and decision support tools, business intelligence, and knowledge management. Water utilities can analyse their technology capabilities and develop a realistic ICT road map by launching low-risk, low-scale pilot projects to test the potential benefits of AI approaches.

## Controlling Non-Revenue Water through Digital Technology & Artificial Intelligence



### Keynote and Opening

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

Secretary General, Ministry of Environment and Water, Malaysia



### Keynotes



**Dr. Ir. Ts. Hj. Mohmad Asari Daud**

President, Malaysian Water Association (MWA), Malaysia



**Dwiki Riantara**

Perumda Air Minum Tirta Mayang, Indonesia



**Stuart Hamilton**

Managing Director  
Hydro Tec Ltd,  
United Kingdom



**Noorhashim Bin Baron**

Senior Director,  
Standard Technical and  
Compliance Division of  
Water & Sewerage  
Regulatory Department,  
National Water Services  
Commission (SPAN)



**Martin Shaw**

Solution Architect,  
Xylem Water  
Solutions  
Malaysia Sdn. Bhd.

### Conference Speakers



**Tom Crowder**

Director,  
Crowder Consulting,  
United Kingdom



**Roland Liemberger**

NRW Management Advisor,  
Miya Group,  
Spain



**Stuart Stapely**

NRW Specialist, Project  
Manager/Technical Lead,  
Urban Water Solutions,  
Australia



**Sufian Sidek**

General Manager,  
Wyeth Water Consultants



**Mark Nicol**

International Sales Director -  
Clean Water,  
Mueller Water Products,  
Singapore



**Stephen Preston**  
Managing Director,  
Water System Optimization  
(WSO), UK



**Sune Dupont**  
Development Engineer (PhD),  
Kamstrup A/S, Denmark



**Manatsawee Nawik**  
Chief of Section, Water  
Treatment Plant and Water  
Distribution Design Section,  
Metropolitan Waterworks  
Authority (MWA), Thailand



**Philippe Mappa**  
Water Network Key Expert,  
Suez Group, France



**Uri Gutermann**  
CEO  
Gutermann, Switzerland



**Edmund Riehle**  
CEO,  
FAST GmbH, Germany



**Joe Dalton**  
Founder,  
HydroOptimise, Ireland



**Phatta Bahadur  
Thapa**  
Senior Manager,  
TEC International Co., Ltd.  
(TECI), Japan



**Cor Merks**  
Senior Water Systems Expert,  
Rambøll, Netherlands



**Ts. Ir. Bernard Wong  
Shuen Yuan**  
Senior Assistant Director  
Sarawak Rural Water Supply  
Department (JBALB)



**Keshvinder Singh**  
Consultant Smart Water,  
Schneider Electric Singapore



**Kosei Nishida**  
Civil Engineer  
Nihon Suido Consultants Co.,  
Ltd., Japan



**Afke Stellingwerff**  
NRW Reduction Coordinator  
Procesmanager, Vitens,  
Netherlands



**Hoese Michel  
Torneyviadzi**  
Researcher Fellow  
Norwegian University of Science  
and Technology, Norway



**Peter van Thienen**  
Principal Scientist  
KWR Water Research Institute &  
Evides, Netherlands



**Paul Harris**  
Global Head of Business  
Consulting, Isle Utilities,  
Australia



**Ian Rodgers**  
Product & Marketing Manager,  
Xylem, Dubai,  
United Arab Emirates



**Cameron McPhail**  
Business Consultant,  
Isle Utilities, Australia



**Paul Fanner**  
NRW Management Advisor,  
Fanner & Associates,  
UK

Keynotes

Day 1 Speakers and Topics

Day 2 Speakers and Topics

# Virtual Workshop

## Enhancing NRW Management through Advanced AI and IoT

AI (Artificial Intelligence) and IoT (Internet of Things) convergence has the potential to reshape the way industries, businesses, and economies operate. AI-enabled IoT generates intelligent machines that emulate intelligent behaviour and aid in decision making with little or no human intervention.

Since the pandemic, many water service providers have adopted the use of cost-effective Internet of Things (IoT) and Artificial Intelligence (AI) technology to reduce water and revenue losses. This workshop takes you on a journey through the evolution of NRW Technology and customer metering. Methods for identifying water losses in public networks that are data-driven. The most recent NRW management approach is how to combine IoT and AI to make informed decisions, and the integration of digital technology and AI in NRW software.



**Gary Wyeth**  
Managing Director,  
Wyeth Water Consultants



**Tom Crowder**  
Director,  
Crowder Consulting, UK



**Hugh Chapman**  
Managing Director  
Aqua Analytics, Australia



**Mark Nicol**  
International Sales Director  
– Clean Water,  
Mueller Water Products,  
Singapore



**Sharif Elnagar**  
Associate Director,  
Crowder Consulting, UK



**Mitchell Dixon**  
Senior Consultant,  
Isle Utilities, Australia



**Ian Rodgers**  
Product & Marketing Manager,  
Xylem, Dubai, United Arab  
Emirates

## What Participants will learn

By attending this workshop, the participants will gain a better understanding of how AI and IoT can benefit water utilities in managing their NRW levels, specifically:

- 1.** How digital metering and automatic meter reading processes are improving accountability of customer consumption and thus improving accuracy of apparent losses.
- 2.** How hydraulic models can be utilized as a real time digital twin, to resolve issues as they happen and assist in developing new NRW management policies.
- 3.** How AI can assess the condition of buried assets and thus improve the efficiency of any asset replacement programmes.
- 4.** How management of Big Data is critical in analysing all of the multiple sensors installed in the network, that are feeding information back through the IoT.
- 5.** How technology has changed over the past 20 years and what changes we may see in the future.

# Virtual Dialogue

## Malaysia-Australia NRW Dialogue Challenges Affecting Sustainable NRW Management

In Southeast Asia, Malaysia has been a forerunner in addressing NRW and has implemented many successful projects. However with low tariffs, the government is subsidising water operators and high NRW levels has affected utilities' revenue further. NRW has impacted operating costs, with high leakage levels creating more complications and expenses, making it difficult to create a sustainable management of water services. The Malaysian government is accelerating its plans to replace pipelines to reduce water loss, as well as implementing a number of NRW management projects within various States. In this dialogue, panellists will exchange the challenges they face in managing sustainable NRW projects and what solutions each country has developed to resolve these challenges.



Panelist 1  
*Sarawak's Journey in Implementing NRW, the Challenges, Rewards, and its Sustainability Goals*

**Dato' Ir. Alice Jawan Empaling**  
Malaysian Water Association  
(Sarawak Branch)



Panelist 2  
*International Leakage Management Benchmarking*

**Derek Atkinson**  
Head of Global Benchmarking,  
ISLE Utilities, Australia



Panelist 3  
*The Use of Data in NRW Management*

**Khairul Effendy Tusam**  
Director of Network,  
Ranhill SAJ Sdn Bhd, Malaysia



Panelist 4  
*Service Connections: The Weakest Link In The Water Distribution Network*

**Ken Goraya**  
Strategic Asset Manager,  
Unitywater, Australia



Moderator

**Gary Wyeth**  
Managing Director,  
Wyeth Water Consultants

## Open for Registration

Join WLA2022 to play your part in rebuilding a more sustainable and resilient water sector by adopting appropriate digital & AI technologies, for long-term water security.

**HRD Corp  
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	2-Day Conference		1-Day Workshop	
	RM/pax	USD/pax	RM	USD
Member of IWA/MWA	675	180	540	145
Normal Rate	750	200	600	160
Group of 3 and above	675	180	540	145
Students	400	105	300	80

Online Registration  
(in RM)

Online Registration  
(in USD)

Registration Form  
(Downloadable PDF form)

\*Above fees are subject to 6% Sales and Service Tax (SST). Payment can be made through local cheque, telegraphic transfer and online payment, contact our staff for assistance.

# Virtual Conference Programme

## Day 1: 8th November 2022 (Tuesday)

(GMT+8) Malaysia/Singapore Time

09:30 - 09:40	<b>Welcoming Address by Stuart Hamilton,</b> <i>Chair of Water Loss Specialist Group, International Water Association</i>	
09:40 - 10:25	<b>Keynote and Opening by YBhg. Dato' Seri Ir. Dr. Zaini Ujang,</b> <i>Secretary General, Ministry of Environment and Water (KASA), Malaysia</i>	
10:25 - 11:00	<b>NRW in Indonesia and Jambi City, Dwiki Riantara,</b> <i>Perumda Air Minum Tirta Mayang, Indonesia</i>	
11:00 - 11:10	<b>Break</b>	
	<b>Conference Hall 1 - Country Experiences</b> Moderator: Mr. Mohamad Hairi bin Basri, MWA	<b>Conference Hall 2 - Digital Technologies/Asset Management</b> Moderator: Prof. Mohamed Haniffa bin Hj. Abdul Hamid, MWA
11:10 - 11:50	<b>DMA Characteristic Identification on Risk and Asset Analysis of MWA Pipe Network</b> Manatsawee Nawik <i>Metropolitan Waterworks Authority, Thailand</i>	<b>Digital Utility Maturity Assessment - An International Perspective</b> Paul Harris & Cameron McPhail <i>Isle Utilities, Australia</i>
11:50 - 12:30	<b>Measurement Performance and Suitability of Ultrasonic Meter Compared to Mechanical Meters for Customer Metering Under Intermittent Supply</b> Phatta Bahadur Thapa <i>TEC International Co., Ltd. (TECI), Japan</i>	<b>Sustainable Practices in Water Loss Management - For Improved Visibility and Reduced NRW</b> Keshvinder Singh <i>Schneider Electric, Singapore</i>
12:30 - 13:10	<b>Go Digital: NRW Management in Serian Division, Sarawak</b> Ts. Ir. Bernard Wong Shuen Yuan <i>Sarawak Rural Water Supply Department (JBALB), Malaysia</i>	<b>To Replace or not to Replace, that is the Question</b> Mark Nicol <i>Mueller Water Products, Singapore</i>
13:10 - 14:00	<b>Lunch Break</b>	
14:00 - 14:40	<b>Keynote: NRW - Threat or opportunity?</b> Dr. Ir. Ts. Hj. Mohamad Asari Daud <i>President, Malaysian Water Association (MWA), Malaysia</i> Moderator: Mark Nicol, Mueller Water Products, Singapore	
14:40 - 15:25	<b>Keynote : Carbon Water Balance</b> Stuart Hamilton, Hydro Tech Ltd, United Kingdom	
15:25 - 15:40	<b>Break</b>	
	<b>Conference Hall 1 - Country Experiences</b> Moderator: Adam Saffian bin Ghazali <i>Aliran Ihsan Resources Berhad</i>	<b>Conference Hall 2 - Digital Technologies/Asset Management</b> Moderator: Shamsul Fahmi bin Mohamad Padzli <i>Premier Water Services</i>
15:40 - 16:20	<b>The Water Loss Control Program of Vitens in the Netherlands Aiming to almost Eliminate NRW in 2030 at The Latest</b> Cor Merks (Rambøll) & Afke Stellingwerff (Vitens) <i>Netherlands</i>	<b>Smart Water Meter with Embedded Acoustic Leak Detection</b> Sune Dupont <i>Kamstrup, Denmark</i>
16:20 - 17:00	<b>Performance Based NRW Management Contracts - Turnkey or Co-Management?</b> Paul Fanner, Fanner Associates, UK	<b>Large Diameter Pipeline Condition Surveys</b> Ian Rodgers <i>Xylem, Dubai</i>
17:00	<b>End of Day 1</b>	

\*Programme is subject to change

# Day 2: 9th November 2022 (Wednesday)

(GMT+8) Malaysia/Singapore Time

09:00 – 09:45	<b>Keynote: An Overview of NRW Achievements in Peninsular Malaysia and FT Labuan</b> <b>Noorhashim bin Baron</b> Senior Director, Technical Standard and Compliance Division, Water & Sewerage Regulatory Department, National Water Services Commission (SPAN), Malaysia		
	<b>Conference Hall 1 - Big Data</b> Moderator: Mansor Abd Ghani, MWA		<b>Conference Hall 2 - NRW Management</b> Moderator: Desmond Lim, Premier Water Services
09:45 - 10:25	<b>Trailing Artificial Intelligence to Find Leaks in Melbourne CBD</b> Stuart Stapely, Urban Water Solutions, Australia		<b>Managing NRW in Large Compounds</b> Sufian Sidek, Wyeth Water Consultants
10:25 - 10:40	Break		
10:40 - 12:40	<b>Malaysia-Australia NRW Dialogue</b> Moderator: Gary Wyeth	10:40 11:10	<b>Practices on Leakage Control in Chinese County-level Waterworks</b> Yuxi Wang Beijing Fujitech Instrument & Equipment Co., Ltd., China
	Panelist 1 <b>Sarawak's Journey in Implementing NRW, the Challenges, Rewards, and its Sustainability Goals</b> Dato' Ir. Alice Jawan Empaling Malaysian Water Association (Sarawak Branch)		
	Panelist 2 <b>International Leakage Management Benchmarking</b> Derek Atkinson Head of Global Benchmarking, ISLE Utilities, Australia	11:10 11:40	<b>Visualization of Pressure In Water Distribution Networks using an Innovative Pressure Meter</b> Kosei Nishida Nihon Suido Consultants Co., Ltd, Japan
	Panelist 3 <b>The Use of Data in NRW Management</b> Khairul Effendy Tusam Director of Network, Ranhill SAJ Sdn Bhd, Malaysia	11:40 12:10	<b>The Challenges of NRW Management on the Island of Guam</b> Stephen Preston, Water System Optimization (WSO), UK
	Panelist 4 <b>Service Connections: The Weakest Link In The Water Distribution Network</b> Ken Goraya Strategic Asset Manager, Unitywater, Australia	12:10 12:40	<b>Using Digital Technology to Reduce and Control NRW</b> Tias Alvin Papatia
12:40 – 14:00	Lunch Break		
14:00 – 14:45	<b>Keynote: Utilizing Smart Water Networks for NRW Management</b> Martin Shaw, NRW Solution Architect, Xylem Inc., Singapore		
	<b>Conference Hall 1 - Big Data</b> Moderator: Mansor Abd Ghani, MWA		<b>Conference Hall 2 - NRW Management</b> Moderator: Khairul Effendy Tusam, Ranhill SAJ Sdn Bhd
14:45 – 15:20	<b>Remarkable Success with IoT Cellular Technologies within Non-Revenue Water Monitoring Systems around The Globe</b> Uri Gutermann, Gutermann, Switzerland		<b>Large Pipeline Monitoring through Inline Distributed Acoustic Sensing (DAS)</b> Edmund Riehle, FAST GmbH, Germany
15:20 – 16:00	<b>Applying Best Practice to DMA Leakage Reduction Projects using Smart Solutions and Technologies</b> Tom Crowder, Crowder Consulting, UK		<b>Water Losses Management in Trunk Mains</b> Philippe Mappa Suez Group, France
16:00 – 16:30	<b>Leakage Identification in Water Distribution Networks via Anomaly Detection Algorithms</b> Hoese Michel Tornyeviadzi Norwegian University of Science and Technology, Norway		<b>Attempts at Outsourcing of NRW Reduction in the Middle East Gulf Region</b> Joe Dalton HydrOptimise, Ireland
16:30 – 17:00	<b>First Practical Applications of Low-data, Low-assumptions Background Leakage Determination using mCFPD.</b> Peter van Thienen KWR Water Research Institute & Evides, Netherlands		<b>Digital Technology &amp; Artificial Intelligence - New Excuses for Not Getting Serious on Leakage Reduction?</b> Roland Liemberger, Miya, Austria
17:00	End of WLA 2022 Conference		

\*Programme is subject to change

# Virtual Workshop Programme

## Day 3: 10 November 2022 (Thursday)

Moderator: Gary Wyeth

09:00 – 09:15	Welcome Address and Introduction
09:15 – 09:35	<b>Evolution of NRW Technology</b> Gary Wyeth, Managing Director, Wyeth Water Consultants
09:35 – 10:35	<b>Advanced NRW Management in Australia</b> Hugh Chapman, Managing Director, Aqua Analytics, Australia
10:35 – 10:50	<b>15 mins break</b>
10:50 – 11:10	<b>Evolution of Customer Metering</b> Gary Wyeth, Managing Director, Wyeth Water Consultants
11:10 – 12:10	<b>Digital Metering</b> Mitchell Dixon, Senior Consultant, Isle Utilities, Australia
12:10 – 12:30	<b>Q&amp;A</b>
12:30 – 13:30	<b>Lunch Break</b>
13:30 – 14:30	<b>Real Time Digital Twin Modeling</b> Ian Rodgers, Product & Marketing Manager, Xylem Inc., Dubai
14:30 – 15:30	<b>Utilising Data and Artificial Intelligence to make Informed Decisions on Water Distribution Networks</b> Mark Nicol, International Sales Director, Mueller Water Products, Singapore
15:30 – 15:45	<b>15 mins break</b>
15:45 – 16:45	<b>Advances in NRW Software to Integrate Digital Technology &amp; Artificial Intelligence</b> Tom Crowder, Director and Sharif Elnagar, Associate Director, Crowder Consulting, UK
16:45 – 17:15	<b>Q&amp;A</b>
17:15 – 17:30	<b>End of Workshop</b>

\*Programme is subject to change

# Sponsorship Opportunities

Connect your business with contacts in this close gathering of all the NRW professionals in one place. Boost your company's brand visibility before or during the virtual event by taking full advantage of our sponsorship and advertising opportunities.

Sponsorship Packages		Platinum	Gold	Sliver
<b>Digital Promotion &amp; Publicity</b>				
<b>Marketing Materials</b>	Logo display	√	√	√
<b>Event Website</b>	Home Page Logo display with hyperlink	√	√	√
	Home Page Middle Rotating Banner Ad	√	-	-
	Inner page Middle Rotating Banner Ad	-	√	√
	Sponsors Page with logo, company write-up and hyperlink	300 words	200 words	150 words
<b>Virtual Platform</b>	Registration Page Logo display with hyperlink	√	√	√
	Registration Page Carousel Banner Ad	√	-	-
<b>Social Media Channel</b>	Sponsor's promotional post on WLA Facebook page	2	1	-
<b>EDMs</b>	Logo display with hyperlink	√	√	√
	One Banner Ad with hyperlink	√	√	-
	Product Spotlight	1	-	-
<b>Virtual Conference &amp; Workshop</b>				
<b>Auditorium</b>	Sponsors wall banner Logo display	√	√	√
<b>Conference</b>	Speaking opportunity – one slot	√	-	-
	2-day Conference Pass	4	2	1
<b>Workshop</b>	1-day Workshop Pass	4	2	1
<b>Virtual Exhibition</b>				
<b>Virtual Booths</b>	Platinum Booth (value RM 5,000/USD 1,500)	√	-	-
	Business Booth (value RM 4,500/USD 1,300)	-	√	-
	Standard Booth (value RM 3,500/USD 1,000)	-	-	√
<b>Main Lobby</b>	Sponsor's banner	1	-	-
	Sponsor Wall banner Logo display	√	√	√
<b>Exhibitors Page</b>	Banner (Slider Banner Format)	1	1	1
<b>Programme</b>	Advertisement (A4 size)	√	√	√
<b>E-book</b>	Sponsor's Page with logo and write-up	√	√	√
<b>Appreciation</b>	Sponsor's Appreciation certificate & Plaque	√	√	√
<b>Sponsorship Amount (before 6% SST)</b>		RM 15,000 USD 4,300	RM 10,000 USD 3,000	RM 5,000 USD 1,500

**NOTE:**

- Advertising Period: 01 May 2022 – 10 November 2022
- Inclusion of sponsor's logo in advertising & promotion materials is subject to the date of sponsorship confirmation
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