



WATER MALAYSIA 2022



Specialised Conference and Exhibition on

WATER QUALITY & TREATMENT

Theme: Current and Future Challenges of Drinking Water Quality and Treatment in Malaysia

NEW DATE

29 - 30 November 2022 Pullman Kuala Lumpur, Bangsar Ballroom 01, Level 02

8:30 am - 5:00 pm

INTRODUCTION

This Conference aims to mobilize drinking water managers and operators, regulators, academics and stakeholders around the issue of water quality and treatment. Participants will gain an overview of current best practices on water quality control and benefit from a knowledge-sharing platform, research results, innovations and solutions.

- Keynote Address
- Water Leaders' Roundtable Dialogue
- Topic / Session:
 - Water Quality and Analysis
 - Drinking Water Quality Standards and Regulations
 - Emerging Contaminants in Water: Detection and Treatment
 Technology Options
 - Innovative Water Treatment Technologies
 - Technical Session on Implementation of Water Fluoridation in Malaysia
- Sponsors Speaking Slot
- Exhibition

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THE MALAYSIAN WATER ASSOCIATION (MWA) is a national association and non-profit organisation (NGO), interested in all aspects of the water and wastewater industry. Membership is multidisciplinary and members represent the full spectrum of the Malaysian water and wastewater industry. Funding is obtained from membership fees and Association activities. MWA strives to represent the common interests of all water supply and wastewater industry players and to serve as Malaysia's main link in the international water industry network. The basis of the Association's activities is the voluntary work of a large group of active Association members and other professionals from water and wastewater authorities, institutions and Malaysian water companies.

The MWA presents members' views to the authorities and makes representations on strategic issues. In principle, MWA is committed towards promoting sustainable management of water services. At the international level, MWA maintains relationships with relevant organisations abroad to create a network and share universal goals of the water industry. MWA is a "Governing Member" of the International Water Association (IWA).

ORGANISING COMMITTEE MEMBERS



Dr. Ir. Ts. Hj. Mohmad Asari bin Daud Chairman of Organising Committee President of The Malaysian Water Association



Dr. Chin Teen Teen General Manager ALS Technichem (M) Sdn Bhd



Mr. Lee Koon Yew **Group Executive Director** The Malaysian Water Association



Dr. Addie Wong Wai Meng General Manager, Business Development & **Technical Support** Taliworks Corporation Berhad



ChM. Hjh. Fadzilah binti Abdul Kadir Council Member The Malaysian Water Association



Mr. Samsul Ariffin bin Kadri Director ATTC Training Centre Sdn Bhd



ChM Adam Malik bin Najri **Deputy Director** Water and Sewerage Regulatory Department Suruhanjaya Perkhidmatan Air Negara (SPAN)



Ms. Rubby Mahmod Manager The Malaysian Water Association



Dr. Hafizah binti Hasan Senior Principal Assistant Director Waste and Hygiene Sector, Regulatory Branch **Engineering Services Division** Ministry of Health Malaysia



Ak Panjat

Secretariat







Ms. Caroline Florrina Mr. Mohamad Johari Mr. Muhammad Hafis Mr. Aliff Fadhullah bin Khamis bin Mahmud bin Ahmadi

WHO SHOULD ATTEN

- Water Quality Specialists
- Scientists
- Lab Personnel
- **Treatment Plant Managers**
- Engineers
- Researchers
- Consultants

- Contractors
- Manufacturers / Suppliers
- State Water Operators / Utilities
- Government Policy and Decision Makers
- Water Utility Managers
- Regulators
- Academics and Students

Acknowledgement & Thanks to the Sponsors





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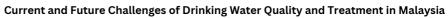
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WATER MALAYSIA 2022 Specialised Conference and Exhibition on WATER QUALITY & TREATMENT







TIME	DAY 1: 29 NOVEMBER 2022 (TUESDAY)	PRESENTER			
8:30 am - 9:00 am	Registration and Light Refreshment				
9:15 am	PROGRAMME STARTS Doa Recital				
9:15 am - 9:30 am	Welcome Address				
9:30 am - 9:45 am	Official Opening				
9:45 am - 10:15 aM	Keynote Address "The State of the Drinking Water Quality and Treatment in Malaysia"	Dr. Ir. Ts. Hj. Mohmad Asari bin Daud President, The Malaysian Water Association			
10:15 am - 10:20 am	Group Photo				
10:20 am - 10:30 am	Tour of Exhibition area by the Guest of Honour / Invited Guests				
10:30 am - 11:00 am	AM Tea Break and Visit of Exhibition area				
	SESSION 1: 29 NOVEMBER 2022				
	WATER LEADERS' ROUNDTABLE DIALOGUE Theme: What is Being Done to Improve Our Water				
	Moderator: Mr. Mohamad Hairi bin Basri (Deputy President,				
11:00 am – 12:00 pm	Panelists: Ts. Huszian bin Husin, Senior Deputy Director (Regulatory), Engineering Services Division of Ministry of Health Malaysia (MOH) YBhg. Dato' Hj. Ahmad Faizal bin Abdul Rahman, Chief Executive Officer of Suruhanjaya Perkhidmatan Air Negara (SPAN) Mr. Suhaimi bin Kamaralzaman, Chief Executive Officer of Pengurusan Air Selangor Sdn Bhd (AiS) YBhg. Datuk Ir. P. Geol Dr. Azuhan bin Mohamed, General Manager of Air Kelantan Sdn Bhd (AKSB)				
	SESSION 2: 29 NOVEMBER 2022				
	Theme: Water Quality and Analysis Moderator: Prof. Dr. Mohd Razman bin Salim (UCSI / Council Mem	ber, MWA)			
12:00 pm – 12:20 pm	Water Quality Monitoring, Sampling, Laboratory Testing and Analysis	ChM. Hjh. Fadzilah binti Abdul Kadir (Council Member, MWA)			
12:20 pm – 12:40 pm	Water Quality Online Monitoring and the Role of the SCADA System	Mr. Ho Kien Siong (Qanat Consulting)			
12:40 pm – 1:00 pm	Q&A Session				
1:00 pm – 2:00 pm	Lunch Break				
	SPONSOR'S PRESENTATION 1: 29 NOVEMBER 2022 Indah Water Konsortium Sdn Bhd				
2:00 pm – 2:25 pm	Sustaining IWK Towards Achieving Circular Economy	Mr. Narendran A/L Maniam (IWK)			
	SESSION 3: 29 NOVEMBER 2022 Theme: Drinking Water Quality Standards and Reg Moderator: Assoc. Prof. Dr. Norhayati binti Abdullah (UTM / Council N				
2:30 pm – 2:50 pm	Water Safety Plans: Hazards Identification and Risk Assessment	ChM. Adam Malik bin Najri (SPAN)			
2:50 pm - 3:10 pm	Drinking Water Surveillance: Moving Towards Risk-Based Regulations	Dr. Hafizah binti Hasan (Cranfield University)			
3:10 pm - 3:30 pm	Residual Aluminium in Drinking Water – Why and How to Overcome	Dr. Addie Wong Wai Meng (Taliworks Corporation)			
3:30 pm – 3:50 pm	Packaged Drinking Water (PDW) and Natural Mineral Water (NMW) in Malaysia: General Requirements for Licensing Approval	Mr. Shanmugam A/L Supramanium (MOH)			
3:50 pm – 4:20 pm	Q&A Session				
	PM Tea Break / Visit of Exhibition area / End				

TIME	DAY 2: 30 NOVEMBER 2022 (WEDNESDAY)	REMARKS / PRESENTER			
9:00 am - 9:30 am	Keynote Address "Raw Water Quality Monitoring and Performance in Malaysia"	Mr. Rosli bin Osman Director, Water & Marine Division, DOE Ministry of Environment and Water			
	SESSION 4: 30 NOVEMBER 2022 WATER LEADERS' ROUNDTABLE DIALOGUE	2			
	Theme: Drinking Water Treatment Challenge	es			
	Moderator: Ir. Ts. Hj. Mohamed Haniffa bin Hj. Abdul Hamid, FASc. (Vice	President, MWA)			
9:30 am – 10:30 am	 Panelists: Ir. Chang Kuet Shian, Director of Jabatan Bekalan Air Luar Bandar Sarawak (JBALB) YBhg. Dato' Hj. Ishak bin Abd Rahman, General Manager or Lembaga Air Perak (LAP) Ir. Hj. Mohd Yazid bin Hj. Ahmad, Director of Syarikat Air Negeri Sembilan Sdn Bhd (SAINS) Tn. Hj. Mansor bin Abdul Ghani, Council Member of The Malaysian Water Association (MWA) 				
10:30 am - 10:50 am	AM Tea Break / Visit of Exhibition area				
	SPONSOR'S PRESENTATION 2: 30 NOVEMBER 2022 Xylem Water Solutions Malaysia Sdn Bhd				
10:50 am - 11:15 am	Oxidation-Enhanced Biologically Active Filtration System	Ts. ChM. Lee Seng Chow (Xylem)			
TH	SESSION 5: 30 NOVEMBER 2022 Deme: Emerging Contaminants in Water: Detection and Treatme Moderator: YBhg. Datuk Ir. Abdul Kadir bin Mohd Din (Council Mem				
11:15 am - 11:35 am	Biosensor Technologies for Identification of Future Water Contaminants	Assoc. Prof. ChM. Dr. Sharina binti Abu Hanifah (UKM)			
11:35 am - 11:55 am	Microplastics in Drinking Water: A Review and Assessment	Dr. Chin Teen Teen (ALS Technichem)			
11:55 am - 12:15 pm	PFAS: The Forever Chemicals	Ms. Salwa binti Mohd Salleh (MOH)			
12:15 pm – 12:35 pm	Danger in the Water: When Algae Becomes Toxic	Dr. Som Cit Si Nang (UPSI)			
12:35 pm – 1:00 pm	Q&A Session				
1:00 pm – 2:00 pm	Lunch Break				
	SPONSOR'S PRESENTATION 3: 30 NOVEMBER 2022				
2:00 pm – 2:20 pm	*TBC				
	SESSION 6: 30 NOVEMBER 2022 Theme: Innovative Water Treatment Technology Moderator: Ir. Syed Mohamed Adnan bin Mansor Alhabshi (SMHB Sdn Bhd / C				
2:20 pm – 2:40 pm	Case Study - Innovative Design and Treatment Process of New Rasau WTP	Mr. Andri bin Abdul Rahman (SMHB) Mr. Mohd Norzali bin Zulkifli (SMHB)			
2:40 pm – 3:00 pm	The New Normal: Water Reuse and Recycle	Ir. Mohd Taufik bin Salleh (IWK)			
3:00 pm – 3:30 pm	Q&A Session				
3:30 pm – 3:45 pm	PM Tea Break / Visit of Exhibition area				
	SESSION 7: 30 NOVEMBER 2022 Theme: Technical Session: Implementation of Water Fluoric Moderator: Dr. Nuryastri binti Md Mustafa (MOH)	dation in Malaysia			
3:50 pm – 4:10 pm	Water Fluoridation in Malaysia	YBhg. Datin Dr. Nazita binti Yaacob (MOH)			
4:10 pm – 4:45 pm	Special Forum: Water Fluoridation: Myths and Facts Moderator: Dr. Nuryastri binti Md Mustafa (MOH)				
4:45 pm – 5:00 pm	Summary by Rapporteur Closing Remarks by MWA				
5:00 pm	END				

SUMMARY OF PRESENTATION

DAY 1: 29 NOVEMBER 2022 (TUESDAY)

Water Quality Monitoring, Sampling, Laboratory Testing and Analysis

ChM. Hjh. Fadzilah binti Abdul Kadir (The Malaysian Water Association)

The determination of water quality parameters, that are important in ensuring the satisfactory provision of potable water is described in this section. This is made possible through the establishment of the treatment works laboratory. The purpose of the laboratory is to analyze and ensure that drinking water produced at the WTP meets or exceeds established standards for water quality.

Water Quality Online Monitoring and The Role of The SCADA System Mr. Ho Kien Siong (Qanat Consulting)

A general description for a measuring device applied in water treatment plant is described. Instrumentation is necessary to indicate, measure and record the physical quantities of the plant operation status. Apart from the SCADA system used is also introduced. In the water industry, which helps in managing the information generated throughout water management processes.

Sustaining IWK Towards Achieving Circular Economy

Mr. Narendran A/L Maniam (Indah Water Konsortium Sdn Bhd)

With 28 years of experience, IWK is changing the landscape of wastewater management in Malaysia - from linear to circular economy. As the company aspires be The Premier Wastewater Company, IWK has been integrating financial, operational and environmental sustainability into its corporate strategy. In-line with this, various green initiatives are being rolled out with focus on creating and extracting value of IWK's bi-product which helps elevate the company's shift from a linear model to a more sustainable circular model.

Water Safety Plans: Hazards Identification and Risk Assessment

ChM. Adam Malik bin Najri (Suruhanjaya Perkhidmatan Air Negara)

The Water Safety Plan (WSP) Guideline has been developed by Suruhanjaya Perkhidmatan Air Negara (SPAN) to facilitate the establishment of uniform and comperhensive WSP documents by all water operator which includes public and private water supply system operators. Water Safety Plan is a tool for setting up effective risk management which includes indentification of associated risks in every aspect of the water supply system, followed by planning of mitigation measure in a systematic manner to ensure the safety and security of water supply to consumers.

The Gudelines is prepared in accordance with SPAN's responsibilities and functions stipulated in the Water Services Industry Act 2006 (Act 655) and Water Services Industry (Licensing) Regulations 2007. Therefore, SPAN will make WSP as a mandatory requirement to all public and private water suppy system oprators to ensure the sustainability of the water resources (catchment area), water treatement plant operations and reliability of water supply systems.

Drinking Water Surveillance: Moving Towards Risk-Based Regulations

Dr. Hafizah binti Hasan (Cranfield University)

- The WHO framework for safe drinking-water
 - Health based targets
 - Waters Safety Plans (WSPs)
 - Surveillance
- · The IWA framework for drinking water safety
- Compliance based and risk-based instruments and associated strategies for water industry
 - Experience from other countries

Residual Aluminium in Drinking Water – Why and How to Overcome

Dr. Addie Wong Wai Meng (Taliworks Corporation Berhad)

Residual aluminium (Al) as an aesthetic parameter in drinking water is recommended by WHO at 0.2 mg/L. Residual Al is suspected to have linkage to Alzheimer's disease while Ministry of Health Malaysia (MOH) is setting the Quality Assurance Program (QAP) for Residual Al at 10.2% which is relatively very high compared to parameter such as E. Coli at 0.4%. The Residual Al in drinking water can be caused by nature of raw water, underdose or overdose of alum and out of coagulation-flocculation pH range. If the cause of the residual Al of a particular Water Treatment Plant is understood, the problem can be overcome by specific treatment strategic.

Packaged Drinking Water (PDW) and Natural Mineral Water (NMW) in Malaysia: General Requirements for Licensing Approval

Mr. Shanmugam A/L Supramanium (Ministry of Health Malaysia)

- Licensing status (numbers of manufacturers)
- Procedures to apply license
- Issues relating to licensing

SUMMARY OF PRESENTATION

DAY 2: 30 NOVEMBER 2022 (WEDNESDAY)

Oxidation-Enhanced Biologically Active Filtration System

Ts. ChM. Lee Seng Chow (Xylem Water Solutions Malaysia Sdn Bhd)

Biological and chemical contamination in drinking water poses a significant public health risk. Operators need a system that will comply with state and federal guidelines while addressing local quality and aesthetic mandates. OxeliaTM oxidation-enhanced biologically active filtration system is an advanced treatment solution that leverages Xylem's first-class product portfolio of ozone, ozone or UV AOP, filtration, and analytic technologies with leading edge process knowledge to provide a fully integrated system that providing a multi-barrier defense against pathogens and contaminants. OxeliaTM enables safe, reliable, cost-effective, and sustainable drinking water supplies.

Biosensor Technologies for Identification of Future Water Contaminants

Assoc. Prof. ChM. Dr. Sharina binti Abu Hanifah (Universiti Kebangsaan Malaysia)

The advancement of biosensor technologies for detecting water pollutants has received considerable attention. This topic will provide an understanding of biosensor concept and the current progress for identifying future water contaminants.

Microplastics in Drinking Water: A Review and Assessment Dr. Chin Teen (ALS Technichem (M) Sdn Bhd)

Microplastics have been detected in a wide range of concentrations in waste water, fresh water and drinking water, both bottled and tap water. Local and international targeted investigative studies published on the occurrence of microplastics in the water cycle and in drinking water throughout the water supply chain will be presented.

PFAS: The Forever Chemicals Ms. Salwa binti Mohd Salleh (Ministry of Health Malaysia)

- What is PFAS? Why is it called as Forever Chemicals?
 A little bit of chemical structures, pathways
- History and common usage of PFAS
- Awareness of Potential Health Impacts
- Global regulatory actions: Australia, USA and Europe
- Malaysia's overview on PFAS
- MOH's direction, steps and insights

Danger in the Water: When Algae Becomes Toxic

Dr. Som Cit Si Nang (Universiti Pendidikan Sultan Idris)

Blue-green algae, also called cyanobacteria, can grow excessively in eutrophic water bodies such as lakes and ponds which some may be used for drinking water supplies. Cyanobacteria such as Microcystis, Anabaena, Anabaenopsis, and Planktothrix are capable of producing a range of cyanotoxins, including hepatotoxin microcystins. Therefore, increasing severity of eutrophication has trigger concerns over the potential cyanobacterial toxins contamination in water supplies. This presentation will outline environmental factors associated with excess cyanobacteria growth and cyanotoxins detection in the local water ecosystems.

Case Study – Innovative Design and Treatment Process of New Rasau WTP

Mr. Andri bin Abdul Rahman (SMHB Sdn Bhd) Mr. Mohd Norzali bin Zulkifli (SMHB Sdn Bhd)

The nominal works output of the Stage 1 Rasau WTP shall be 700 Mld. The water treatment process shall include mechanical aeration, ozonation, flocculation and clarification, primary and secondary filtration.

The new technology are:

- 1. Ultrasonic Algae treatment
- 2. Zeolite powder for ammonia removal
- 3. Powdered activated carbon for organic pollutant removal.
- 4. Pre-Ozonation
- 5. Intermediate Ozonation
- 6. Biological Activated Carbon Filter

The New Normal: Water Reuse and Recycle

Ir. Mohd Taufik bin Salleh (Indah Water Konsortium Sdn Bhd)

Water recycling has proven to be effective and successful in creating a new and reliable water supply without compromising public health. Instead of discharging the treated wastewater that receives a high level of treatment into rivers, it is better to put it directly back to use in the system. Water reuse offers a renewable, locally managed, and drought-resistant water supply. There are a lot of benefits of water reuse such as reducing stress on demand for raw water resources, and reduced demand for potable water which ultimately contributes to lower energy consumption to treat and transfer potable water for non-potable use. Recycling wastewater can make for a bright future in the fight against climate change which contributes to lowering footprint and carbon dioxide (CO2) emissions. Significant progress in wastewater treatment technologies has encouraged the potential of water reuse. Several urban wastewater reuse projects have been implemented over the last ten years and currently, water recycle become the new normal in the world.

Water Fluoridation in Malaysia YBhg. Datin Dr. Nazita binti Yaacob (Ministry of Health Malaysia)

- Chronology of water fluoridation in Malaysia
- Why water fluoridation being implemented? (effortless benefits)
- The standard
- Monitoring of fluoride optimum level; safety concern
- Data (in chart) showing water fluoridation coverage vs caries prevalence
- Data (in chart) on effect of water fluoridation ceased in certain states
- Collaborative efforts, issues and challenges

KEYNOTE SPEAKERS



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WATER MALAYSIA 2022

Specialised Conference and Exhibition on

WATER QUALITY & TREATMENT

Current and Future Challenges of Drinking Water Quality and Treatment in Malaysia

Open-Table Concept

29-30 November 2022

Pullman Kuala Lumpur Bangsar Ballroom 01, Level 02

A small-scale exhibition showcasing the latest products and technologies related to water quality and treatment.

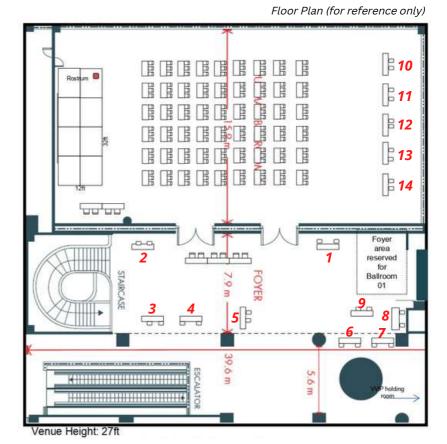
Price Per Exhibition Space RM 800.00

Package includes:

- 1 IBM Table (size 3ft x 6ft)
- 2 chairs
- 2 passes for lunch and tea breaks (for 2 days)
 - Please provide exhibitors details (people on duty)
- Set up on 15 Nov 2022
- Dismantle on 16 Nov 2022

Booking deadline with payment by 1 Nov 2022 (subject to availablity)

Please fill out your booking form on EXHIBITION section on page 11



OFFICIAL HOTEL

PULLMAN KUALA LUMPUR BANGSAR



No. 1 Jalan Pantai Jaya Bangsar 59200 Kuala Lumpur, Malaysia Tel: +603 2298 1888

Website: https://pullmanbangsar.com-kualalumpur.com/en/

Special rate for hotel room accommodation for registered participants. The booking link will be provided in due course.



Mr. Johari Khamis

The Malaysian Water Association

Event Secretariat

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WATER MALAYSIA 2022:

"Specialised Conference & Exhibition on Water Quality & Treatment"

 29^{th} - 30^{th} November 2022, 8.30 am - 5.00 pm

COMPANY/ ORGANIZATION DETAILS

Pullman Kuala Lumpur, Bangsar



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(Payment After 31 st October 2022)					
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Students/ Government Agencies RM400.00				outstanding are notified	
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Description / Category Please indicate your booth nu	Members Unit Price	Non-Members Unit Price	all efforts a advertised		
		RM800.00	RM1,000.00	right to po without per	
Booth no: (refer floor plan	page 10)		,	for any los substitution	
AYMENT METHODS	25 PE 17			cancellation or venue a	
ATMENT METHODS	Grand Total:	RM		majeure w	
Payment is due in 5 working days. By	Signing and returning	g this form, you are	accepting our terms	responsibilit caused by	
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Bank Name: HONG LEONG BA	NK BERHAD			5. Upon re you the par	
Account Name: THE MALAYSI Bank Name: HONG LEONG BA Bank Account No.: 277-000-1	NK BERHAD			5. Upon ro you the par keep your marketing a third party o	

Bank Address: Galeria Hartamas, Jalan 26A/70A, Desa Sri Hartamas, 50480 Kuala Lumpur

Please email payment slip to: caroline@mwa.org.my (Ms. Caroline Florrina)

CONFERENCE FEES**

MEMBERS RM500.00 NON-MEMBERS RM700.00

Register with FULL PAYMENTS before/ by 1st November 2022

TERMS & CONDITIONS

- The registration fee is inclusive of the event proceedings, materials, certificate of attendance and refreshment (where applicable).
- 2. Upon receipt of the complete registration form, invoice will be issued. MWA request that all payments be made within 5 working days of the invoice being issued. Full payments must be received prior to the event. Only participant that have made full payment will be admitted to event. Participants are responsible for their own banking fees and this will not be absorbed into the registration fees.
- ancellations policy. Should ipant is unable to attend, a nt is welcome at no extra fications of all substitutions g days prior to the event. not constitute cancellation. es not attend the event fication at least 5 working event date, he/she will v. A no show at the event the participant will have to ount that was issued to not provide refunds for signing this contract the es that if they cancel that right to pursue monies of local debt collection participant is situated, rticipant will be held liable curred in collection of . When any cancellations g to MWA 5 working days a credit voucher will be ire MWA events.
- times seek to ensure that e to adhere to meet the however we reserve the cancel or move a venue refunds. MWA is not liable damages as a result of ation, postponement or kers and / or topics and / the event dates. If force occur MWA accepts no ility for any loss or damage s beyond their control, restricted to strikes, war, delays, fire flood, or any nditions. MWA is not liable articipant is exposed or is d-19. MWA under no ole for any other costs that curred in the attendance of but not limited to flights, ansfers, meals etc. MWA replace / change speakers of the conference.
- 5. Upon receiving this signed booking form, you the participant hereby consent to MWA to keep your details for the use of future marketing activities carried out by MWA and third party organisations & partners.
- 6. Copyright and Intellectual Property. Any redistribution or reproduction of part or all of the contents in any form in connection to this event is prohibited without prior written consent by MWA.