








**Taiwan International Water Forum**

**Vision for Water**

**水未來**



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# About

According to the United Nations' World Water Development Report 2023, 26% of the world's population (2 billion people) does not have access to safely managed drinking water services. Water is the spring of life, and no living things on earth can live without water. 70% of the human body is water. 70% of the earth's surface is covered by water. It is everywhere. World Water Day 2023 is about accelerating change to solve the water and sanitation crisis. As climate change intensifies, populations continue to grow, and environmental pollution expands, the imbalance of water supply and demand will surely be wreaking havoc on the global economy, health, and even regional stability. The latest data shows that countries around the world have to speed up what they are doing now four times faster in order to make the UN sustainable development goal SDG 6: clean water & sanitation possible, and this is not something any single country or organization can do alone. It is fair to say that in the face of water-related challenges brought about by extreme weather, no one is an outsider.

Climate action failure has claimed the top spot in the World Economic Forum's 2023 Global Risks Report. It includes "Failure to mitigate climate change", "Failure of climate-change adaptation" and "Natural disasters and extreme weather events". Climate crisis ramps up with devastatingly frequent floods and droughts, leading to higher risks of water shortages, and making water resources important more than ever. Water is an integral part in the diverse development of the environment, economy, society, and culture, and has a profound impact on what is to come in the world. It is therefore critical that we find another way to reimage our common future of water.

"Taiwan International Water Forum 2023" hosted by the Water Resources Agency will be focusing on 'Vision for Water', hoping to go deep into 'water and corporate sustainability', 'water and energy', 'water and nature-based solutions', and 'water and carbon reduction technology'. Starting from innovation, the forum sets to spark 'cross-border' cooperation for the industry, government, and academia from home and abroad. Just like Zhu Xi (1130–1200 CE), one of the most influential Chinese Neo-Confucian scholars in the Song Dynasty of imperial China once said: "A half-acre square pond is crystal clear, mirroring the sky, clouds, and shadows. Asked where the water comes from? It is none other than the running source water. "It is due to the inexhaustible source water, so that we can have the water that is pure and clear for our use. To ensure a beautiful water future, it takes all of us to work together now. If only we manage water resources sustainably, human beings can continue to live and create a sustainable future where we co-exist, grow, and prosper with water.

# Program at a Glance

Oct. 23-25

 Kaohsiung Marriott Hotel

Room	Monday Oct. 23	Tuesday Oct. 24	Wednesday Oct. 25
	BALLROOM 8A	MeetingRoom 10A	
9:30   12:00		Water and ESG- Enhancing Corporate Sustainability and Competitiveness	Towards Net Zero Transition- Carbon Reduction Technology in Water Engineering
14:00   17:00	Water Leader Summit Vision for Water	Taiwan-Netherlands Water Dialogue- NbS in Flooding Prevention and Management	Emerging Water Resource- Energy Nexus

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**Vision for Water**

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# Summit



## Water Leader Summit - Vision for Water

### Panelists



#### **Tom Mollenkopf** Director, International Water Association

Tom Mollenkopf took up the Presidency of the International Water Association in April 2021, having been a Senior Vice-President and a Board Member for seven years. He is an advisor on water sector strategy, policy and governance; a Senior Associate with the Aither consultancy; and a Member of the Australian Water Partnership Expert Review Panel. Tom is passionate about the central role played by water and sanitation in the social, environmental, and economic well-being of society. He is also a firm believer in the power of constructive engagement and evidence-based decision-making as the foundation of sustainable water policy.



#### **Chien-Hsin Lai** Director-General, Water Resources Agency, MOEA

Dr. Lai has been the Director-General of Water Resources Agency since 2016. Responding to climate change, he accomplished legal works of Reclaimed Water Resources Development Act and Runoff Distribution and Outflow Control policy. He also promotes Forward-looking Infrastructure Development Program for water environment to establish industrial sustainability and water resilience in Taiwan.

### Moderator



#### **Fu-Yuan Xiao** Creative Director, Common Wealth Magazine

Educational Background

Indiana University, Bloomington, Comparative Literature, Master

National Taiwan University, Department of Chinese Literature, Bachelor

Work Experience

CommonWealth Magazine/ Editor-in-Chief & Director of the Publishing Department, Editor at large, Senior Director of Research & Development and General Consultant

### Speakers



#### **Kala Vairavamorthy** Executive Director, International Water Association

Kala Vairavamorthy is an internationally recognised water resource management expert, with particular expertise in urban water issues. He combines a strong engineering background with practical international experience. He has published extensively and has a strong international profile working closely with the World Bank, UN-Habitat, UNESCO, GWP, SIWI and the EU. This includes leading several urban water management projects for the World Bank, African Development Bank, Asian Development Bank and DFID.

Prior to joining the International Water Association, he was the Deputy Director General for Research at the International Water Management Institute. Kala was also the Founding Dean of the Patel College of Global Sustainability and a tenured Professor in the Department of Civil and Environmental Engineering, at the University of South Florida (USA). He is currently Professor (adjunct) at the Indian Institute of Technology, Madras (IITM).



#### **Lian Bin Zhong** VP, Taiwan Front End MFG Operations, Global Operations, Micron Technology, Inc.

26 years in semiconductor manufacturing and technology deployment in Micron. Global working experiences with 20 years in Singapore (TECH Semiconductor, Intel Micron Flash Singapore and Micron Singapore), 3.5 years in Micron Japan Hiroshima, and Micron Taiwan since Nov 2021.

Take on roles with increasing responsibilities from Process & Equipment Engineer, Process Integration Engineer, Real-time Defects Analysis, Product Integration Engineering Director, ATE (Alpha Technology Engineering) Director, Senior Director of Advanced Technology Japan, High volume manufacturing (Micron Hiroshima), and currently VP of Taiwan Front End Manufacturing Operations.



#### **Dr. Joe Manous** Director, Institute for Water Resources, US Army Corps of Engineers

Prior to becoming IWR Director, Joe served as a Water Resources Engineer and Manager for International Activities at IWR, where he specialized in the areas of water resources and environmental security issues associated with water. As Director of the Institute for Water Resources, he oversees a multi-disciplinary Field Operating Agency that supports USACE's Civil Works (water resources) missions.

# Water Leader Summit - Vision for Water

October 23<sup>rd</sup> 14:00~17:00 PM (Taipei time)

Time	Topic	Moderator/Speaker
14:00-14:10	Opening Remarks	
14:10-14:20	Welcome Remarks	<b>Tom Mollenkopf</b> Director International Water Association(IWA)
14:20-14:35	<b>Introduction</b> Vision for Water	<b>Dr. Chien-Hsin Lai</b> Director General Water Resources Agency, MOEA
14:30-15:05	<b>Keynote Speech</b> The challenges & opportunities for the future of water	<b>Dr. Kalanithy Vairavamoorthy</b> Executive Director International Water Association
15:05-15:35	<b>Keynote Speech</b> Envisioning a sustainable future for water for all	<b>Lian Bin Zhong</b> VP, Taiwan Front End MFG Operations, Global Operations, Micron Technology, Inc.
15:35-15:50	Tea break	
15:50-16:20	<b>Keynote Speech</b> Making Decisions Under High Uncertainty: Robustness versus Efficiency	<b>Dr. Joe Manous</b> Director, Institute for Water Resources, US Army Corps of Engineers
16:20-17:00	Panel Discussion	



Slido Q&A Session

\*This summit will use the Slido platform for online questions, and the host will select questions for discussion. (Please scan the QRcode)

\*If you wish to ask a question in person, please raise your hand during the Q&A session, and a staff member will provide you with a microphone.

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# Daily Program



# Water and ESG- Enhancing Corporate Sustainability and Competitiveness

## Moderators



### Yi-Fung Wang

**Deputy Director General, Water Resources Agency, MOEA**

Deputy Director Yi-Fung Wang received his Ph.D. degree in Civil Engineering at National Taiwan University. He was awarded by the Water Resource Agency as Outstanding Personnel in 2001 and by the Ministry of Economic Affairs as Model Civil Servant in 2010. Dr. Wang's dedication in Water Resource Agency are respectable including development of science and technology in water resources, water conservation, water-saving policy, inundation warning system, and emergency response to drought.



### Chien-Yu Chen

**Director, Strategy & Business Development, CSRone**

Chien-Yu Chen is the Director / Strategy & Business Development with CSRone. He has worked with various multinational and local organizations in Taiwan.

Chien-Yu Chen specializes in advisory on sustainability strategy, sustainability goals setting, Net-Zero, stakeholder engagement, and impact assessment. He has delivered innovative solutions for sustainability issues in the industry and society through the sustainability service development lab (SSDL). He demonstrated outstanding performance, collaboration, and innovation in sustainability and inspired others to join the sustainability journey.

## Speakers



### Aleksandra Drizo

**Professor in Sustainability Science Management, Tunghai University, Taiwan**

Dr. Aleksandra Drizo is a full professor at Tunghai University International College Sustainability Science and Management Program (THU SSM). Prior to joining THU, she worked as a UN consultant, and held two CEO and several academic positions across continents including Canada, the USA, the UK, and New Zealand.

With a career spanning over 25 years, Professor Drizo is an expert in ecotechnologies and nature-based solutions for water pollution prevention, control, and management. One of her notable contributions includes pioneering passive filtration technology for phosphorus removal, harvesting, and recycling from wastewater. Throughout her career, she has successfully led and managed projects across the globe, including the USA, Canada, Europe, New Zealand, Taiwan, and Brazil.



### Nishtha Manocha

**Senior Research Engineer, EDHECinfra**

Dr. Nishtha Manocha is a Senior Research Engineer specializing in Environmental, Social, and Governance (ESG) factors within the infrastructure sector. Her focus lies in evaluating and reporting transition risks, physical climate risks, carbon footprints, and social acceptability across various infrastructure sectors, including energy, transport, data, social services, and water resources. With a background encompassing hydrology, climate risk and adaptation, water management, flood modeling, environmental economics, impact assessments and water policy, Dr. Manocha's expertise is extensive. She holds a PhD in Civil Engineering and a master's degree in Hydraulic Engineering and Water Resource Management from the National University of Singapore.



### Joseph Chou

**Chairman & CEO, PricewaterhouseCoopers Taiwan**

Joseph is the chairman and CEO of PwC Taiwan. Based on trust, PwC provides end to end solutions to help companies dealing with complicated business issues, includes but not limits to IPO and other capital raising activities, tax, legal, human capital, M&A, digital transformation, ERP and other system implementation, cyber security, ESG, real estate, etc. Joseph has more than 30 years of extensive experience in providing assurance and business advisory services to Taiwanese and international companies. In addition to working in Taiwan, Joseph also worked in PwC San Jose office for two years and PwC New York office for one year.



### Bart Y.C. Chiang

**Director, EHS/Risk Management/Sustainability Micron Taiwan**

Bart Y.C. Chiang earned a master of engineering in Environmental Science & Engineering at Nankai University, Tianjin; and a MBA in technical management at Taiwan ChiaoTung University, respectively. He has been a semiconductor industry veteran for more than 27 years working in Micron, TSMC, SMIC and Silterra. His main roles are ESH risk management and Sustainability Enhancement. Bart has led innovations and set up advanced industrial ESH & Sustainability concepts and structures, cultivated national ESH & Sustainability seeds and talents pools in Chinese semiconductor and high-tech sectors.

# Water and ESG- Enhancing Corporate Sustainability and Competitiveness

October 24<sup>th</sup> 9:30~12:00 AM (Taipei time)

Time	Topic	Moderator/Speaker
9:30-9:40	Introduction by Moderator	<b>Yi-Feng Wang</b> Deputy Director Water Resources Agency, MOEA
9:40-10:00	<b>Keynote Speech</b> Water and the Sustainable Development Goals	<b>Aleksandra Drizo</b> Professor Sustainability Science Management ,Tunghai University, Taiwan
10:00-10:20	<b>Keynote Speech</b> Understanding ESG for Water Infrastructure	<b>Nishtha Manocha</b> Senior Research Engineer EDHECinfra
10:20-10:35	Tea break	
10:35-10:45	Introduction by Moderator	<b>Gennie Yen</b> CEO & Founder Veda International Group and CSRone
10:45-11:05	<b>Keynote Speech</b> Exploring Corporate Value in ESG Trends	<b>Joseph Chou</b> Chairman & CEO PricewaterhouseCoopers Taiwan
11:05-11:25	<b>Keynote Speech</b> Micron Visions and Practices on Water Resource Management	<b>Bart Y.C.Chiang</b> Director EHS/Risk Management/Sustainability Micron Taiwan
11:25-12:00	Panel Discussion	
12:00	Lunch	

# Taiwan-Netherlands Water Dialogue - NbS in Flooding Prevention and Management

## Moderators



**Chien-Hsin Lai**  
Director-General, Water Resources Agency, MOEA

Dr. Lai has been the Director-General of Water Resources Agency since 2016. Responding to climate change, he accomplished legal works of Reclaimed Water Resources Development Act and Runoff Distribution and Outflow Control policy. He also promotes Forward-looking Infrastructure Development Program for water environment to establish industrial sustainability and water resilience in Taiwan.



**Matthijs van der Hoorn**  
Deputy Representative, NLOT

Matthijs van der Hoorn has been serving as the Deputy Representative and Head of the Economic Department at the Netherlands Office in Taipei since 2022. Prior to this assignment, from 2019 to 2022, he held the position of Director-General for Foreign Economic Relations at the Ministry of Foreign Affairs. His career also encompasses a role at Triodos Investment Management from 2016 to 2018, where he worked as an Investment Manager with a focus on Southeast Asia.

## Speakers



**Dennis van Peppen**  
Lead International Water Programmes, Netherlands Enterprise Agency, RVO

Dennis van Peppen is lead for international water programmes at the Netherlands Enterprise Agency (RVO). RVO is the government implementing agency of the Government of the Netherlands for climate, agricultural and sustainable & digital economy transitions. Working in bilateral water management programmes for many years and with strong links with the Dutch and international water sectors he carries strong experience in international water management and climate adaptation transitions. Dennis believes in the power of water as a lever for positive societal change and strong collaboration between private, public, non-profit and knowledge sectors to achieve this change



**Sheng-Hung Huang**  
Section Chief, Planning Section, Fifth River Management Branch, WRA

Chief Huang received his MS from the Department of Hydraulic and Ocean Engineering, National Cheng Kung University in 2000 and got the qualification of professional hydraulic engineer in 2003. From 2007 to the present day, Chief Huang has been dedicated to public service in Water Resources Agency. In addition to engaging in engineering survey, design, and supervision, he has also taken up the responsibilities in drainage management in the Yunlin and Chiayi regions. He has dedicated over a decade to water-related works and accumulated abundant practical field experiences.



**Tjitte Nauta**  
Regional manager, Asia, Deltares

Mr. Nauta has a broad experience in the fields of Integrated Water Management, WRM action planning, flood risk management, capacity building and mathematical modelling and monitoring studies. His consultancy experience as expert advisor and project manager at Deltares includes studies on mentioned aspects for freshwater and coastal water systems in numerous countries.



**Erik van Eekelen**  
Director BwN III program, EcoShape

Since Erik van Eekelen joined the environmental engineering department of Van Oord, working worldwide on the full range of environmental aspects of their projects, such as Building with Nature, stakeholder engagement, protection of marine fauna and turbidity monitoring and management. For Van Oord he was part of the Management Team (2015-2021) of the BwN II program of the EcoShape-consortium, that develops knowledge on the topic of Building with Nature. In January 2023 the new BwN III program has started at EcoShape for which Erik is part of the 2-headed Management Board as Director BwN III program.



**Chia-Ning Yang**  
Team Leader, Sinotech Engineering Consultants, Ltd.

Dr. Yang received her PhD in the Department of Landscape Architecture and Environmental Planning, University of California, Berkeley, and her MS in the Department of Civil Engineering, the University of Tokyo. Dr. Yang specializes in fluvial geomorphology, ecological engineering and environmental planning of water-accessible environments. For more than a decade, she has been working on the multidisciplinary integration of river restoration.

# Taiwan-Netherlands Water Dialogue - NbS in Flooding Prevention and Management

October 24<sup>th</sup> 14:00~17:00 PM (Taipei time)

Time	Topic	Moderator/Speaker
14:00-14:10	Opening Remarks	<p><b>Chien-Hsin Lai</b> Director-General, Water Resources Agency, MOEA</p> <p><b>Matthijs van der Hoorn</b> Deputy Representative NLOT</p>
14:10-14:35	<p><b>Keynote Speech</b> Dutch policy and practice in NbS &amp; governance aspects of implementing NbS</p>	<p><b>Dennis van Peppen</b> Lead International Water Programmes Netherlands Enterprise Agency, RVO</p>
14:35-15:00	<p><b>Keynote Speech</b> Integrated Protection with NbS for Waisanding Sandbar</p>	<p><b>Sheng-Hung Huang</b> Section Chief, Planning Section, Fifth River Management Branch, WRA</p>
15:00-15:25	<p><b>Keynote Speech</b> NbS to enhance urban resilience</p>	<p><b>Tjitte Nauta</b> Regional manager, Asia, Deltares</p>
15:25-15:40	Tea break	
15:40-16:05	<p><b>Keynote Speech</b> Enablers for developing NbS – experiences from EcoShape, Building with Nature</p>	<p><b>Erik van Eekelen</b> Director BwN III program, EcoShape</p>
16:05-16:30	<p><b>Keynote Speech</b> Stream restoration as guided by the NbS criteria</p>	<p><b>Chia-Ning Yang</b> Team Leader Sinotech Engineering Consultants, Ltd.</p>
16:30-17:00	Panel Discussion	

## Towards Net Zero Transition- Carbon Reduction Technology in Water Engineering

### Moderators



#### Hung-Pu Huang

**Deputy Director General, Water Resources Agency, MOEA**

Mr. Huang was in charge of several important water resources engineering plans, such as constructions of Hushan Reservoir, Niaozueitan Artificial Lake, and some reservoir renewal projects. He also developed the regulations and systems of emergency management during drought in Taiwan and involved in the Shihmen Reservoir Remediation Project.



#### Chung-Kai Cheng

**Chief Technology Officer, CTO BSI Taiwan**

Before working in the British Standards Institution, CTO Cheng worked in the semiconductor industry and was responsible for the implementation of environmental, safety and health affairs.

During worked at BSI, CTO Cheng is responsible for the promoting of international standard, including greenhouse gas management, product carbon footprint, climate change financial impact disclosure maturity model development, and then served as the chief technology officer.

In 2022, CTO Cheng also assisted the Water Resources Agency to complete the conformity check of the carbon reduction guidelines for water conservancy project.

### Speakers



#### Chris Gray

**Head of Water, Europe & India, AECOM**

Chris Gray is Head of Water for AECOM's Europe and India business with over 25 years' experience working with water industries and governments around the world. His core focus is building inter-disciplinary teams to respond our clients' most pressing challenges: climate change, biodiversity loss and social inequality. Fundamental to this is helping them reduce carbon and achieve embedded and operational net zero. He brings together global experts to advise on a breadth of areas, from carbon advisory and asset management to nature-positive solutions and material scientists, to help clients consider carbon in long-term planning and reach targets through innovative solutions.



#### Zoran Kapelan

**Professor, Urban Water Infrastructure, Delft University of Technology**

Prof Zoran Kapelan leads the urban water infrastructure research at Delft University of Technology in the Netherlands. He is an IWA Fellow with over 30 years of research and consulting experience in water engineering. His research interests cover a wide range of challenges across the urban water cycle including development of new hydroinformatics technologies resulting in improved sustainability solutions. He delivered over 80 invited talks worldwide and has published over 500 technical papers.



#### Yen-Yu Lin

**Assistant Professor, Department of Construction Engineering, NKUST**

Yen-Yu Lin serves as assistant professor at Department of Construction Engineering, National Kaohsiung University of Science and Technology. He earned his Ph.D. degree at University of Washington in 2012. His research interests include performance evaluation of pavement materials, sustainable roadway design and construction, and life cycle assessment of infrastructure. He has helped the roadway agencies to quantify the GHG emissions for major projects, and kept contributing to establish the GHG management scheme for infrastructure for Taiwan.



#### Chien-Ming Lee

**Professor, National Taipei University**

Chien-Ming Lee, male, environmental economist, received a PHD degree from economic department National Taipei University in 1997. Dr. Lee has been working at the Institute of Natural Resources and Environmental Management, National Taipei University since 2002. Professor Lee has participated in the United Nations Climate Change (UNFCCC) conference since 1998, and has put lots of effort into climate change economics research and promotion of low-carbon life activities. Since 2019, it has cooperated with convenience stores (FmalyMart) to deploy a low-carbon life network, and constructed the world's first personal carbon asset account.

# Towards Net Zero Transition- Carbon Reduction Technology in Water Engineering

October 25<sup>th</sup> 9:30~12:00 AM (Taipei time)

Time	Topic	Moderator/Speaker
9:30-9:40	Introduction by Moderator	<b>Hung-Pu Huang</b> Deputy Director General Water Resources Agency, MOEA
9:40-10:00	<b>Keynote Speech</b> UK Water: Achieving Net Zero Requires Ingenuity	<b>Chris Gray</b> Head of Water, Europe & India, AECOM
10:00-10:20	<b>Keynote Speech</b> Toward Net Zero Emissions: Some Experiences from the Netherlands	<b>Zoran Kapelan</b> Professor, Urban Water Infrastructure, Delft University of Technology
10:20-10:35	Tea break	
10:35-10:45	Introduction by Moderator	<b>Chung-Kai Cheng</b> Chief Technology Officer CTO BSI Taiwan
10:45-11:05	<b>Keynote Speech</b> Net-zero and Construction	<b>Yen-Yu Lin</b> Assistant Professor Department of Construction Engineering, NKUST
11:05-11:25	<b>Keynote Speech</b> The Strategy of Climate Resilient Hydraulic Engineering	<b>Chien-Ming Lee</b> Professor National Taipei University
11:25-12:00	Panel Discussion	
12:00	Lunch	

## Emerging Water Resource-Energy Nexus

### Moderators



#### Chun-Hung Chen

**Deputy Chief Engineer, Water Resources Agency, MOEA**

Chun-Hung Chen earned his doctor's degree in Agricultural Engineering from National Taiwan University. He dedicated over 30 years of his career to the Water Resources Agency of the Ministry of Economic Affairs and its affiliated agencies. He held various positions including Section Chief, Deputy Director, Director of the Water Resources Planning Institute (now the Water Resources Planning Branch), Chief Engineer, Division Deputy Director of the Water Resources Agency, Ministry of Economic Affairs.



#### Chia-Hung Hou

**Professor, Graduate Institute of Environmental Engineering, National Taiwan University**

Dr. Chia-Hung Hou is a professor at National Taiwan University. He currently also serves as the chief executive at NTU Water Innovation, Low Carbon and Environmental Sustainability Research Center. His research group focuses on water-energy technologies, including advanced carbon nanomaterials, electrochemical desalination, water reclamation, and resource recovery from wastewaters. His group is pioneering in developing water-energy sustainable technologies. Specially, the pilot-scale membrane capacitive deionization (MCDI) for energy-effective ion separation has been demonstrated in the municipal wastewater treatment plants and high-tech industry for water reclamation.

### Speakers



#### Jorge J. Malfeito

**Director of Innovation, ACCIONA Agua S.A.U.**

Jorge J. Malfeito is currently Director of Innovation in Acciona's Water Business. His professional career has focused on the leadership of Research, Development and Innovation, focused on membranes processes, desalination and water treatment. He is a member of the Board of Directors of the European Desalination Society (EDS) and the Board of Directors of the Water Europe Technology Platform (WE).

He is also member of the International Desalination Association (IDA) being a member of its Scientific Committee as well as member of the Spanish Association of Desalination and Reuse (AEDyR).



#### LEE HO JAE

**APR Regional Sales Manager, Danfoss High Pressure Pumps**

Mr. Lee is a professional of mechanical equipment and system design for RO systems. His career includes designing combined cycle power plants and sales and marketing for pumps and valves.

He is a member of the board of KDPA (Korean Desalination Plant Association).

Mr. Lee is majored in Mechanical Engineering in Pusan National University, Korea and has MBA from Aalto University. He is Ph.D candidate in Business Consulting at Pusan National University, Korea.



#### Kevin Huang

**General Manager, Taiwan Agent of Danfoss High Pressure Pumps**

Focus on business desalination system

Evaporation MED-TC desalination system, 5700CMD in Qatar

Mobile Containerized SWRO

Small SWRO in small island for Military

Danfoss High Pressure Pumps and Energy Recovery Device



#### Wu-Yang Sean

**Assistant professor Dept. of Bio-industrial Mechatronics Engineering, National Chung Hsing University, Taiwan**

Wu-Yang SEAN obtained his Ph.D in 2005 from University of Tokyo (Japan). From 2006 till he joined CYCU in 2013, he focus on the research of green energy and electric vehicles in non-profit organization, ITRI in Taiwan. In ITRI, he was a group head and responsible for developing industrial technologies. The solid research achievements include 11 patents filed in Taiwan, China and US with strong team work. Till 2022.7, he joined the environmental engineering dept. in CYCU. His interests are focus on meso-scale numerical modeling of hydrate, energy saving of wastewater treatment plant and reusing of automotive lithium-ion battery. From 2022.8, He shift his work to Dept. of Bio-industrial Mechatronics Engineering, National Chung Hsing University.

## Emerging Water Resource-Energy Nexus

October 25<sup>th</sup> 14:00~16:00 PM (Taipei time)

Time	Topic	Moderator/Speaker
14:00-14:10	Opening Remarks	
14:10-14:20	Introduction by Moderator	<b>Chun-Hung Chen</b> Deputy Chief Engineer, Water Resources Agency, MOEA
14:20-14:40	<b>Keynote Speech</b> Innovation in RO Seawater Desalination: Process Optimization and Minimization of The Energy	<b>Jorge J. Malfeito</b> R&D Director ACCIONA Agua S.A.U.
14:40-15:00	<b>Keynote Speech</b> High Pressure Pumps and Energy Recovery Device for RO System	<b>LEE HO JAE</b> APR Regional Sales Manager Danfoss High Pressure Pumps  <b>Kevin Huang</b> General Manager Taiwan Agent Danfoss High Pressure Pumps
15:00-15:20	<b>Keynote Speech</b> Fouling Estimation and Energy-Saving Control Model of RO Membrane Filtration for Reclaimed	<b>Wu-Yang Sean</b> Assistant Professor National Chung Hsing University
15:20-15:55	Panel Discussion	
15:55-16:00	Closing Remarks	

# Conference Organization

## Advisor



## Organizer



## Co-organizer



## Implementer



