

Water Culture in New Era International Forum 2020

XXX/

新時代水文化價值國際論壇

ZNZA



Contents |



Water Culture in New Era International Forum 2020

新時代水文化價值國際論壇

ABOUT WATER LEADERS SUMMIT

The Values of Water Culture: with the changes in ways of thinking and management interventions, a better life liked to water will be created through the influence of culture.

Facing the challenges of climate change, it is necessary to introduce international experiences to increase the resilience of water resources management and flood-prevention, especially when conventional flood-proofing approaches are no longer compatible. These experiences are induced from the alterations in ways of thinking, leading to the changes in management interventions. However, from relying rivers to absorb flood runoff to restoring permeable lands, from counting on governments for management to public-private partnerships, and from unvaried policy to refined strategies in water resources management, these transformational changes require opportunities. "Culture" is the opportunity, for its close connections with human and water, as well as its capability to guide society.

As a result, the International Forum 2020 with the title of "Water Culture in New Era" will discuss the pathways to reshape our water plans with the strength of culture. Assuredly, more phenomenal cooperation opportunities between governments, enterprises, and research institutes will be established through the sharing and discussions in disciplines of "Culture", "Environment", "Industry" and "Cities".

Programme at a Glance

September 23-25 | Programme

	Wednesday Sep. 23	Thursday Sep. 24	Friday Sep. 25
		Water Culture (1) - Water Culture Exploration Path Workshop R101AB	Water Culture (3) - Develop Ecological Green Network and New Life Movement for Water Conservation R101AB
09:00 I	Praise for Outstanding Water	Water and Taipei (1) - Resilience and Adaptation R101C	Water and Taipei (3) - Vibrant Water Environment R101C
' 12:00	Resources Contribution	Water and the Environment (1) - 2020 International Seminar for Trenchless Technology in Taiwan (R.O.C.) R101D	Water and the Environment (2) - The Study of Land Subsidence Mechanism and Groundwater Recharge R101D
		Water and the Industries (1) - Foundation of Corporate Sustainability - Mindset of Water CSR R102	Water and the Industries (3) - Business Opportunity and Exploration in Emerging Southeast Asian Water Markets R102
		Water Culture (2) -	Water Culture (4) -
14.00		of Cultural Landscape as the Watershed Changes R101AB	Mitigation R101AB
14:00 17:00	Water Leaders Summit - Water Culture in New Era	Water and Taipei (2) - Sustainable Water Usage R101C	Water and the Environment (3) - Dredging for Reservoir and Storage Capacity Improvement R101C
		Water and the Industries (2) - Smart Solution for Water Supply and Control for the New Era R102	Water and the Environment (4) - Mitigating Hydro-Meteorological Hazards with Nature-Based Solutions R101D

Programme at a Glance

September 24 | Programme

		Thursday S	ep. 24	
SCHEDULE	ROOM 101AB	ROOM 101C	ROOM 101D	ROOM 102
SESSION 1 09:00 - 10:05	Water Culture 1 Water Culture Exploration Path Workshop	Water and Taipei 1 Resilience and Adaptation	Water and the Environment 1 2020 International Seminar for Trenchless Technology in Taiwan	Water and the Industries 1 Foundation of Corporate Sustainability - Mindset of Water CSR
BREAK 10:05 - 10:25			(R.O.C.)	
SESSION 2 10:25 - 12:00				
LUNCH 12:00 - 14:00				
SESSION 3 14:00 - 15:05	Water Culture 2 Impacts and Conservation of Cultural Landscape as the	Water and Taipei 2 Sustainable Water Usage		Water and the Industries 2 Smart Solution for Water Supply and Control for the New Era
BREAK 15:05 - 15:25	Watershed Changes			
SESSION 4 15:25 - 17:00				

September 25 | Programme

		Thursday Sep	o. 25	
SCHEDULE	ROOM 101AB	ROOM 101C	ROOM 101D	ROOM 102
SESSION 1 09:00 - 10:05	Water Culture 3 Develop Ecological Green Network and New Life Movement	Water and Taipei 3 Vibrant Water Environment	Water and the Environment 2 The Study of Land Subsidence Mechanism and Groundwater	Water and the Industries 3 Business Opportunity and Exploration in Emerging
BREAK 10:05 - 10:25	for Water Conservation		Recharge	Southeast Asian Water Markets
SESSION 2 10:25 - 12:00				
LUNCH 12:00 - 14:00				
SESSION 3 14:00 - 15:05	Water Culture 4 Community Engagement for Flood Mitigation	Water and the Environment 3 Dredging for Reservoir and Storage Capacity Improvement	Water and the Environment 4 Mitigating Hydro-Meteorological Hazards with Nature-Based Solutions	
BREAK 15:05 - 15:25				
SESSION 4 15:25 - 17:00				

Floor Plan

September 23-25 | Taipei International Convention Center



Water Culture in New Era International Forum 2020

Session Guide

Water Culture

Date	Time	Category	Venue
Sep. 24	9:00-12:30	Water Culture Exploration Path Workshop	R101AB
Sep. 24	14:00-17:00	Impacts and Conservation of Cultural Landscape as the Watershed Changes	R101AB
Sep. 25	9:00-12:00	Develop Ecological Green Network and New Life Movement For Water Conservation	R101AB
Sep. 25	14:00-17:00	Community Engagement for Flood Mitigation	R101AB

Water and Taipei

Date	Time	Category	Venue
Sep. 24	9:00-12:00	Resilience and Adaptation	R101C
Sep. 24	14:00-17:00	Sustainable Water Usage	R101C
Sep. 25	9:00-12:00	Vibrant Water Environment	R101C

Session Guide

Water and the Industries

Date	Time	Category	Venue
Sep. 24	9:00-12:00	Foundation of Corporate Sustainability-Mindset of Water CSR	R102
Sep. 24	14:00-17:00	Smart Solution for Water Supply and Control for the New Era	R102
Sep. 25	9:00-12:00	Business Opportunity and Exploration in Emerging Southeast Asian Water Markets	R102

Water and the Environment

Date	Time	Category	Venue
Sep. 24	9:00-12:00	2020 International Seminar for Trenchless Technology in Taiwan (R.O.C.)	R101D
Sep. 25	9:00-12:00	The Study of Land Subsidence Mechanism and Groundwater Recharge	R101D
Sep. 25	14:00-17:00	Dredging for Reservoir and Storage Capacity Improvement	R101C
Sep. 25	14:00-17:00	Mitigating Hydro-Meteorological Hazards with Nature-Based Solutions	R101D

Water Culture in New Era International Forum 2020

Water Leaders Summit Keynote

Moderators



Chien-Hsin Lai

Director-General, Water Resources Agency, Ministry of Economic Affairs

Dr. Lai has been the Director-General of WRA 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.



Kwang-Yin Liu

Senior writer, CommonWealth Magazine

Ms. Liu has been reporting for CommonWealth Magazine since 2012, covering energy transition, climate change, environment and the automobile industry. Since 2020, she is the editor of the magazine's English website. She had been an International Press Officer and staff writer for Taiwan Today, an online English publication under Ministry of Foreign Affairs.

Speakers



Kala Vairavamoorthy

Executive Director, International Water Association

Kala Vairavamoorthy 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.



Zoran Vojinovic

Associate Professor, IHE Delft Institute for Water Education

Vojinovic is Associate Professor of Urban WaterSystems at UNESCO-IHE with 22 years of combined on-the-ground and academic experience in water industry in New Zealand, Australia, Asia, Europe, etc. He has been a leader of multidisciplinary teams, developed methodologies, systems, tools successfully applied in practice.



Chung-Hsi Lin

Curator, National Museum of Taiwan History

Professor Linserves as the director of the National Museum of Taiwan History. His specialties are in the studies of science technology, cultural heritage, museum, and cannibalized vehicle studies. He concerns cultural issues of scientific developments, social production of scientific knowledge, appropriate technology, higher education, local culture, and philosophy of cultural heritage conservation.

Water Leaders Summit Sep. 23rd, 2020 14:00-17:00

R101 Water Leaders Summit - Water Culture in New Era

	Section	Time	
		13:00 – 14:00	
Op		14:00 – 14:05	
We		14:05 – 14:15	
Direc	Introduction	14:15 –14:30	,
Kala Vaira Executive Internatio Assoc	Keynote Speech	14:30 –15:00	,
Zoran V Associate P Delft Institu Educ	Keynote Speech	15:00 –15:30	,
Tea E		15:30 – 15:45	
Chung Curator, Nati of Taiwa	Keynote Speech	15:45 –16:15	
Pa		16:15 –17:00	
		17:00	

n	\frown	\mathbf{a}		
\mathbf{D}	-	а		

Topic

Registration

pening Remarks

elcome Remarks

Chien-Hsin Lai

ctor-General, Water Resources Agency

avamoorthy

ve Director, onal Water ociation Digital Transformation of the Water Sector

Vojinovic Professor, IHE

ute for Water cation Responding to Future Challenges: Advancing the Science-Policy-Practice Interface for Climate Change Mitigation and Adaptation

Break

g-Hsi Lin tional Museum ran History

From Engineering Governance to Cultural Management-The Scenery of Water Culture.

Panel Discussion

Farewell

Water Culture in New Era International Forum 2020

新時代水文化價值國際論壇



Daily programme



Moderator



Chaur-Gong Jong

Deputy Director-General, Water Resources Agency, Ministry of Economic Affairs

Dr. Jong has served for WRA for over 40 years, with extensive experience in water resources management, flood and drought mitigation, water allocation, watershed management, dam safety assessment, reservoir construction, operations, and maintenance. To recognize his achievements, Public Construction Commission Executive Yuan bestowed the third prize of public construction specialty medal upon him in 2016.

Daily Programme

R101AB | Water Culture (1) -Water Culture Exploration Path Workshop

Торіс	Time
Introduction by Moderator	09:00 – 09:05
The Dilemma Facing the Choshui River	09:05 – 09:50
Exploration and Activation of Water Culture in Danshui River	09:50 – 10:10
Discussion on Watershed Governance Process and Adaptation Strategy from Water Culture~ A Case Study In Zengwen River	10:10 – 10:30
Теа	10:30 – 10:40
Group I	10:40 – 12:30
Lu	12:30

Speakers

Su-Bing Chang	
Professor and Chair of Graduate Institute of Taiwan History	у,

National Taiwan Normal University "Top Ten Influential Books of 2014": Choushui River Since 18th century: in the Perspective of History, Society and Environment. Specialties: History of Taiwan, Digital Humanities, Regional History, Local Gazetteers; Environmental History.



Chung-Min Tseng

Director, 10th River Management Office, Water Resources Agency, **Ministry of Economic Affairs** Dr. Chung-Min Tseng introduced the concept of planning and decision-making to the first line oriented to the engineering implementation when she served from the 10th River Management Office in 2014. She is dedicated to the public-private partnership and created the new thinking of interdisciplinary water management.



Chun-Hung Chen

Director, Water Resources Planning Institute, Water Resources Agency, **Ministry of Economic Affairs**

Director of Water Resources Planning Institute, Water Resources Agency, MOEA (2016/11/30~present)/ Deputy Director of Water Resources Planning Institute, Water Resources Agency, MOEA (2013/02/06 ~ 2016/11/30)/Deputy Director of River and Coast Division, Water Resources Agency, MOEA (2012/10/03 013/02/06)

Water Culture in New Era International Forum 2020

Moderator /Speaker

Chaur-Gong Jong Deputy Director-General, Water Resources Agency, MOEA

Su-Bing Chang Professor and Chair of Graduate Institute of Taiwan History, National Taiwan Normal University

Chung-Min Tseng Director, 10th River Management Office, Water Resources Agency, MOEA

nance Case

Chun-Hung Chen Director, Water Resources Planning Institute, Water Resources Agency, MOEA

ea Break

oup Discussion

Lunch

Daily Programme Moderators/Panelists/Speakers

Moderators



Tsang-Jung Chang Professor,

National Taiwan University Prof. Chang is professor with outstanding performance stipend at Dept. of Bioenvironmental Systems Engineering and Hydrotech Research Institute, NTU. His specialties are computational hydraulics, environmental fluid mechanics, wind and hydropower energy, with particular emphasis on flood, inundation modelling, flood risk assessment, real-time prediction of pluvial floods.



Chi-Ming Peng

CEO, WeatherRisk Explore Inc.

WeatherRisk Explore Inc., CEO /Da Ai TV . Weather anchor/BCC NewsRadio &YAHOO TV Presenter/Open Data Alliance, President/NCU&CTBC Business School Professor/Disaster Prevention Industry Chairman

Panelists



Chih-Feng Lin

Commissioner, Public Works Department, Taipei City Government Director, New Construction Office, Public Works Department of Taipei City Government/Director, Geotechnical Engineering Office, Public Works Department of Taipei City Government



Yuan-Ching Kuo

Senior Engineer, CECI Engineering Consultants, Inc., Taiwan

Ph.D., Civil Engineering, National Taiwan University, 2011/Professional Engineer/ Senior Engineer of Department of Water and Environmental Engineering of CECI Engineering Consultants, Inc., Taiwan (2012~Now)/Project Manager of Comprehensive Review, Planning and Preliminary Design of the Drainage Systems of Flooding Area at Taipei City in 2015-2019.

Speakers



Su-Pai Kao

Hydraulic Engineer, T.Y.Lin International Taiwan

Contract Assistant Engineer, Taipei City Government, Hydraulic Engineering Office/Adjunct Assistant Professor, Post - doctoral Research Fellow, National Taipei University of Technology/Engineering Assistance to the Republic of Gambia, International Cooperation and Development Fund Taiwan/ Senior Engineer, RSEA Engineering Corporation



Leszek Drogosz

Deputy Director, Infrastructure Department, Warsaw City Hall, the Republic of Poland

Leszek Drogosz, Deputy Director of Infrastructure Department, City of Warsaw. Leszek Drogosz is responsible for energy water and wastewater management. He has spent all time of his career working for the City of Warsaw, particularly in supervising and management of city-owned enterprises.



Po-Hung Liu

Founder, Classic Design and Planning Co., Ltd.

Po-Hung, Liu is founder of Classic Design and Planning Co., Ltd. He was chairman of Taiwan Institute of Landscape Architects (TILA) from 2013 to 2016. He has been focusing on various landscape projects on environmental building planning issues, creating sustainable and quality environment in Taiwan.

Daily Programme

Speakers



Fons Nelen

CEO, Nelen & Schuurmans B.V., Utrecht, the Netherlands

Dr. Nelen is senior consultant in the field of integrated water and flood risk management. In 1998, he founded the company Nelen & Schuurmans BV, which in the past 22 years has grown to a group of 80 experts on water management and IT.

Chia-Hsien Lu

Chief, Preparedness and Response Division, Taipei City Fire Department

He was served as fire station captain, district chief, deputy batallion chief and now is preparedness and response division chief.

Yoshinari Nakajima

Deputy Director General, Japan Sewage Works Association, Japan

Yoshinari Nakajima is Deputy Director General, JSWA. He oversees technical activities of JSWA that include standardization, education, and international cooperation. He joined JSWA in July 2019. Previously he was Director General of Regional Sewerage Service of Tokyo Metropolitan Government (TMG).

Yosuke Matsumiya

Director, International Division, Japan Sewage Works Association, Japan

Matsumiya's mission is to exchange knowledge and information on wastewater management between Japan and the rest of the world for clean water environment. He has been in the current position since 2011. He served as Deputy Director General, Construction Bureau, Saitama City, Japan, from 2010 to 2011.

Chiou-Shiang Wu

Deputy Director, Hydraulic Engineering Office, Public Works Department, Taipei City Government

Chief Secretary, Hydraulic Engineering Office, Public Works Department, Taipei City Government/Assistant Chief Engineer, Hydraulic Engineering Office, Public Works Department, Taipei City Government/Section Chief, Hydraulic Engineering Office, Public Works Department, Taipei City Government/Associate Engineer & Sub-division Chief, Maintenance Office, Public Works Department, Taipei City Government

Hyung Woo Kim

Manager, Department of Water Circulation Policy, Environment Ecology Bureau, Gwangju, the Republic of Korea

(2006) Bachelor's Degree on Environment Engineering, Chosun University, Gwangju /(2006~2020) Environment Ecology Bureau, Gwangju



Water Culture in New Era International Forum 2020

Daily Programme

R101C | Water and Taipei (1) - Resilience and Adaptation

Daily Programme

R101C | Water and Taipei (1) - Resilience and Adaptation

Introduction by ModeratorTsang-Jung Chang Professor, National Taiwan University09:00 - 09:15Restoring Urban Water Cycle - Beitou - Shilin Technology ParkSu-Pai Kao Hydraulic Engineer, T.Y.Lin International Taiwan	
09:00 – 09:15 Restoring Urban Water Cycle – Beitou – Shilin Technology Park Su-Pai Kao Hydraulic Engineer, T.Y.Lin International Taiwan	
	10:40 – 10:55
Local Authorities Involvement in Resilience ChallengeLeszek Drogosz Deputy Director, Infrastructure Department, Warsaw City Hall, Warsaw the Republic of Poland	10:55 – 11:10
Active Role of Park in Sponge City -Po-Hung Liu09:30 - 09:45Take Dagangqian Park and Wanhe Park as ExamplesFounder, Classic Design and Planning Co., Ltd.	
09:45 - 10:00Dealing With Weather Extremes in the Sustainable Design of the CityFons Nelen, CEO, Nelen & Schuurmans B.V. Utrecht, the Netherlands	11:10 – 11:25
Panel Discussion10:00 – 10:20Panelist: Chih-Feng Lin, Commissioner, Public Works Department, Taipei City Government	
10:20 – 10:40 Tea Break	11:25 – 11:40

12:00

Moderator /Speaker

Chi-Ming Peng CEO, WeatherRisk Explore Inc.

nse of

Chia-Hsien Lu Chief, Taipei City Fire Department

Yoshinari Nakajima Deputy Director General, Japan Sewage Works Association, Japan

Yosuke Matsumiya Director, Japan Sewage Works Association, Japan

nous nity in

Chiou-Shiang Wu Deputy Director, Hydraulic Engineering Office, Public Works Department, Taipei City Government

Hyung Woo Kim

Project

Manager, Department of Water Circulation Policy, Environment Ecology Bureau, Gwangju, the Republic of Korea

anel Discussion

Engineer, CECI Engineering Consultants, Inc., Taiwan

Lunch

Moderators



Yi-Fung Wang

Tin-Lai Lee

Corporation

Deputy Director General, Water Resources Agency, Ministry of Economic Affairs

Wang works for Water Resources Agency more than 20 years, and being the Chairman of ISTT Taiwan since 2020. He owns Civil Engineering Ph.D. degree from National Taiwan University and rich experiences on water policy planning, catchment conservation, Tap water management and Typhoon-cloudburst disaster management.





Wei-Cheng Chen

Deputy Superintendent, Engineer Division, Taipei Water Department Chen has been working for TWD for 28 years. He is a senior environmental engineering technician with extensive practical experience in water purification, pipe network operation and construction management. He has been promoting No-Dig technologies in Taiwan as the Secretary-General and the current Executive Director, CTSTT.

Keh-Jian Shou (Albert)

Vice Chair, International Society for **Trenchless Technology**

1. Vice Chairman, International Society for Trenchless Technology (2018~); 2. Chairman, Chinese Taipei Society for Trenchless Technology (2013~ 2019); 3. President, Taiwan Geotechnical Society (2016 2019); 4. Senior Principal Engineer, Shannon & Wilson, USA (2008); 5. Visiting Professor, TTC, Louisiana Technical University, USA (2006/1~2006/2)

Daily Programme

R101D Water and the Environment (1) -2020 International Seminar for Trenchless Technology in Taiwan (R.O.C.)

	Time	Торіс
	09:00 – 09:30	Welcome Remarks Chien-Hsin Lai Director-General, Water Resources Agency, MOEA Sam Ariratnam Former Chairmen, the International Society for Trenchless Technology
	09:30 –10:10	Operation, Construction and Prospects of Taiwan Water Corporation
	10:10 – 10:30	1
	10:30- 11:00	HDD Technology in Offshore Wind
	11:00 – 11:30	Future overview from "Feitsui Raw Water Tunnel Project" to sustainable Taipei water supply
	11:30 – 12:00	Six Future Approaches of Water Management in New Taipei City
	12:00	



Speakers



Nan-Tzer Hu

operation, water loss management.

Chairman, Taiwan Water Corporation

Hu served in Taiwan water corporation for 38 years, He has been gradually promoted from engineer position ,and also studied in Germany during period of time. He Specializes in water technologies and business opreations, leads company teams to promote major water construction projects actively carry out improvement works and achieved outstanding performance.



Anthony Michelin

Subsea Cables Package Manager, Changfang and Xidao Windfarms

More than 10 years experiences in marine operations and offshore activity management./Previously Project Director and Acting Chief Operating Officer at Reef Subsea UK and Offshore Cables Package Manager for the 336 MW Galloper Offshore Windfarm.



Huan-Ying Fan

Superintendent, Engineering Division, Taipei Water Department

Fan worked in Taipei Water Department for 37 years. From a junior engineer, he was purification plant director, District Business Office Director, Distribution Division Chief, Chief Engineer of Taipei Water Department. Now as the Engineering Division Superintendent, he keeps dedicating to construction, operation of Taipei water system.



Der-Ren Song

Commissioner, Water Resource Department, New Taipei City Government

Song received master's degree from National Chiao Tung University. Initially worked in Taipei Water Management Office, WRA, then came to Water Resources Department of New Taipei City Government as the commissioner now. He will declare "Six Future Approaches of Water Management" in this forum

Water Culture in New Era International Forum 2020

Moderator

Speaker

Yi-Fung Wang **Deputy Director** General, Water **Resources Agency** MOEA

Yi-Fung Wang **Deputy Director** General, Water Resources Agency, MOEA

Nan-Tzer Hu Chairman, Taiwan Water Corporation

ea Break

Wei-Cheng Chen Deputy Superintendent, Engineer Division, Taipei Water Department

Tin-Lai Lee Chief Engineer, Taiwan Water Corporation

Keh-Jian Shou (Albert) Vice Chair International Society for Trenchless Technology

Lunch

Anthony Michelin Subsea Cables Package Manager, Changfang and Xidao Windfarms

Huan-Ying Fan Superintendent, Engineering Division, Taipei Water Department

> **Der-Ren Song** Commissioner, Water Resource Department, New Taipei City Government

R101D Sep. 24 | Water and the Environment (1) -2020 International Seminar for Trenchless Technology in Taiwan (R.O.C.)

Sophia Cheng

Cathay Financials

2019.

Chief Investment Officer.

Sophia leads the Responsible

Investment Team of Cathay

Financials, actively promoting

Corporate Sustainability. She is highly regarded by her professional expertise and efforts on public

policies. She becomes Chair of Asia

Investor Group on Climate Change

since 2018, and was selected as Asia's

Top Sustainability Superwomen in

Moderators



Chien-Hsin Lai

Director-General, Water Resources Agency, **Ministry of Economic Affairs**

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



John Pien

General Manager, Grundfos Taiwan Branch

Since joining Grundfos, world's leading pump manufacturer, John has actively involved this Danish company to contribute in sustainability and water challenges, exemplified by receiving Taiwan's Environmental Protection Award. Also a member of the Board of European Chamber of Commerce Taiwan and its Low Carbon Initiatives Committee.



Niven Huang

Regional Leader of KPMG Sustainability Services in Asia Pacific

Huang has been the Managing Director of KPMG Sustainability Consulting Co., Ltd., in Taiwan since 2013, was honourably appointed as Regional Leader of KPMG Sustainability Services in Asia Pacific since 2018. He is a pioneer for promoting CSR, sustainability reporting, SRI, corporate sustainability strategy, carbon management.



J.J. Liao

Chairman, ECOVE Environment Corporation

Mr. Liao spares no efforts for Taiwan ' s EfW business, helping the government promote the policy of "Localization of Large-Scale EfW Plants". Chairman Liao leads ECOVE and builds the three major development principles of waste management and incineration, renewable energy, reuse and recycling, thoroughly realizing circular economy.



Sam Sheu

Senior Corporate Relations Manager, Diageo Taiwan Inc.

Before joining Diageo, Sam worked in trading company, Italian Trade Promotion Office, with 16 years experience in corporate governance, government relations, crisis management. Sam has served as Senior Corporate Relations Manager, helped Diageo won several CSR awards, including CommonWealth Magazine CSR Awards Ranked 8th in 2019.

Daily Programme

R102 Water and the Industries (1) -Foundation of Corporate Sustainability - Mindset of Water CSR

Time	Торіс	Moderator /Speaker
09:00 – 09:05	Introduction by Moderator	Chien-Hsin Lai Director-General, Water Resources Agency, MOEA
09:05 – 09:35	From Denmark - Grundfos Sustainability and Actions to Meet the Water Challenges	Dr. John Pien General Manager, Grundfos
09:35– 10:05	Water Is Next Carbon - Must Circular Management	Niven Huang Regional Leader, KPMG Sustainability Services in Asia Pacific
10:05 – 10:25	Tea Br	eak
10:25 – 10:30	Introduction by Moderator	Sophia Cheng Chief Investment Officer, Cathay Financials
10:30 – 11:00	Circular Economy, from Participation to Realization	J.J. Liao Chairman, ECOVE Environment Corporation
11:00 – 11:30	Only with good environment, can we be better!	Sam Sheu Senior Corporate Relations Manager, Diageo Taiwan Inc.

12:00

Water Culture in New Era International Forum 2020

Lunch

Moderators



Chaur-Gong Jong

Deputy Director-General, Water Resources Agency, Ministry of Economic Affairs

Mr. Jong has serviced to the WRA for over 40 years. He dedicated to water resources planning, development, drought prevention, water allocation, watershed management, dam safety assessment, reservoir construction, operations, administration, and maintenance. He obtained the third prize of pubic construction specialty medal from Public Construction Commission Executive Yuan in 2016.



Chung-Hsi Lin

Curator, National Museum of Taiwan History

Professor Lin serves as the director of the National Museum of Taiwan History. His specialties are in the studies of science technology, cultural heritage, museum, and cannibalized vehicle studies. He concerns cultural issues of scientific developments, social production of scientific knowledge, appropriate technology, higher education, local culture, and philosophy of cultural heritage conservation.

Speakers



Yukihiro Shimatani

Professor, Laboratory of Hydrosphere Sutainability Engineering, Faculty of Engineering, Kyushu University

PHD, Kyushu University(Civil Engineering)/Director of the River Environment Division, Public Works Research Institute(Japan)/Director of Takeo River Office, Ministry of Land, Infrastructure, Transport and Tourism Kyushu Regional Development Bureau/President of Japan Wetland Society/Expertise: River Engineering, River Environment, Landscape Design of River, Ecological Engineering Methods, River Engineering History

	1 All	
	ere	-
A	E	A
1	1	

Chie-Peng Chen

Distinguished Professor [,] Ph.D. Program in Design & Department of Interior Design, Chung Yuan Christian University

Prof. Chen was the General Landscape Consultant of Taoyuan Government. With strong concerns for the precious ponds and channel irrigation system in Taoyuan, he had paid visits of every piece of familiar land to explore the story of human and culture, provide the design with caring vision.



Daijiro Kitagawa

Visiting Lecturer, University of Tokyo

After studying civil engineering in Japan and obtaining a PhD in France, he was in charge of research and restauration of modern heritage at the National Research Institute for Cultural Properties in Japan, etc. He also teaches civil engineering history at several universities such as the University of Tokyo.



Chih-Bin Yang

National Association for the Promotion of Community University (NAPCU)

Yang was the principal of Beitou Community College, and now the Secretary-general of National Association for the Promotion of Community University. He has devoted himself to building the community-government relationship, who concerns about local issues for a long time.

Daily Programme

R101AB | Water Culture (2) -Impacts and Conservation of Cultural Landscape as the Watershed Changes

Торіс	Time	
Introduction by Moderator	14:00 – 14:05	
Impacts and Conservation of Cultu Landscape as the Watershed Changes	14:05 – 14:35	
A study of the transformation of cultural landscape with the viewpo of irrigation constructions by the case of Taoyuan City throughout the century (1900-2000)	14:35 – 15:05	
Tea	15:05 – 15:25	
Introduction by Moderator	15:25 – 15:30	
Conservation of historical civil structures against flood risk in Japo	15:30 – 16:00	
Cultural Strategies For Catchmen Protection	16:00 – 16:30	
Pane	16:30 – 17:00	
F	17:00	

Water Culture in New Era International Forum 2020

Chaur-Gong Jong Deputy Director-General, Water Resources Agency, MOEA

ıral

Yukihiro Shimatani Professor, Laboratory of Hydrosphere Sutainability Engineering, Faculty of Engineering, Kyushu University

oint he

Chie-Peng Chen Distinguished Professor, Ph.D. Program in Design & Department of Interior Design, Chung Yuan Christian University

Break

Chung-Hsi Lin Curator, National Museum of Taiwan History

an

Daijiro Kitagawa Visiting Lecturer, University of Tokyo

Chih-Bin Yang Secretary-General, National Association for the Promotion of Community University (NAPCU)

I Discussion

arewell

Daily Programme Moderators/Panelists/Speakers

Moderators



Jen-Yang Lin Professor, National Taipei

University of Technology

Dr.-Ing., Civil Engineering, Kassel University, Germany/Director, Water Environment Research Center/ Dean of R&D Center, National Taipei University of Technology, 2011~2014/ Dean of General Affairs, National Taipei University of Technology, 2009~2011/Visiting Scholar, Institute of Hydraulic Eng., Kassel University, Germany, July ~ Aug. 2007.



Shaohua Marko Hsu

Professor, Feng Chia University

Education : PhD 1991 Civil and Environmental Engineering, Univ. of Iowa, Iowa, USA/MS 1992 Environmental Engineering/Science, U. of Iowa/ Fields of Interest: River engineering and restoration, Groundwater resources and pollution prevention, Low Impact Development, Reservoir sedimentation, Environmental Education

Panelists



Speakers

Chao-Ming Wang

Manager, Sinotech Engineering Services, Ltd.

Currently manager of Water Works Department Sinotech Engineering Service, mainly responsible for coordination and management works, including engineering planning, design, supervision, project management of sewers and wastewater treatment system, tap water distribution and water purification system. Have been engaged in design work for more than 30 years.



Frankie Chen

Deputy Commissioner, Taipei Water Department

WTP Manager of Purification Division/ Water Supply Division Chief/Deputy Chief Engineer/Chief Engineer/ Deputy Commissioner of Taipei Water Department

Daily Programme

Speakers



Shan-Shan Chou

Secretary General, Water Affairs Organization, Taiwan

Executive Director, Environmental Technology & Smart System Research Center, National Chiao Tung University, Taiwan (present)/Chairman, Kunshan WaterPark Environment Corporation (China)/ Chairman, WaterPark Environment Corporation (spin-off company of ITRI)/Director, Water Technology Division, Material and Chemical Research Laboratories, Industrial Technology Research Institute (ITRI)

Ching-Tzone Tien

Deputy Program Manager, Maryland Department of the Environment, Maryland the **United States of America**

Tien is currently Deputy Program Manager, Wastewater Permits Program of the Maryland Department of the Environment (MDE). He was the principal author of Maryland Sewerage Facilities Guidelines, helped to develop guidelines regarding groundwater discharge in Maryland including the MDE Land Treatment Guidelines and Draft Water Reuse Regulations.

Ko-Hsin Luo

Senior Engineer, Taipei Feitsui Reservoir Administration

Jae-Keom Kim

Mr. Jae-Keom, Kim is currently working as the Director in Water Circulation Policy Division, Seoul Metropolitan Government.

Chin-Ling Huang

Executive Engineer, Technical Division, Taipei Water Department

Junior Engineer South Business Office, Senior Engineer Supply Division, Sub-division Chief of R&D Technical Division, Executive Engineer.

Mark Pascoe

Director, International WaterCentre, Queensland, the Commonwealth of Australia

Mark Pascoe has worked in the water industry for more than 40 years both in Australia and internationally. His early career was somewhat technical and related to both water and wastewater treatment. Mark also worked for a consulting engineering company and for the International Water Association in London.



Johan Remijn

Chien-Hsien Lee

Process Manager, Regional Water Authority of Rijnland, Amsterdam, the Netherlands

Director, Department for the Promotion of Private Participation, Ministry of Finance

Section Leader, Construction and Planning Agency Ministry of The Interior/Section Chief, Dept. for the

Promotion of Private Participation, Ministry of Finance/Director General, Public Works Bureau, Chiayi

Profession/work experience: 2016 - 2020: process manager, Regional Water Authorithy/2007 - 2015 : project manager, Regional Water Authorithy /1996 - 2006 : team manager Licencing and Enforcement, Regional Water Authorithy/1991 - 1996: design employee, Grontmij engineering







Water Culture in New Era International Forum 2020

Director, Water Circulation Policy Division, Seoul, the Republic of Korea

Daily Programme

R101C | Water and Taipei (2) - Sustainable Water Usage

Daily Programme

R101C | Water and Taipei (2) - Sustainable Water Usage

Time	Торіс	Moderator /Speaker
	Introduction by Moderator	Jen-Yang Lin Professor, National Taipei University of Technology
4:00 – 14:15	A Brand-new Future of the Sewer System in Taipei	Chien-Hsien Lee Director, Department for the Promotion of Private Participation, Ministry of Finance
:15 – 14:30	Integrated Design of Climate Adaptation Works	Johan Remijn Process Manager, Regional Water Authority of Rijnland, Amsterdam, the Netherlands
:30 – 14:45	Introduction of AloT Management Platform in Water Treatment Plant	Shan-Shan Chou Secretary General, Water Affairs Organization, Taiwan
I:45 – 15:00	Water Reuse and Sustainable Water Resource	Ching-Tzone Tien Deputy Program Manager, Maryland Department of the Environment, Maryland, the
	Panel Disc	United States of America
15:20 - 15:40	Panelist: Chao-Ming Wang, Manager, Tea Bre	Sinotech Engineering Service, Ltd. eak

Water Culture in New Era International Forum 2020

Moderators



Kuo-Chyang Chang Deputy Chief Engineer,

Water Resources Agency, **Ministry of Economic Affairs**

Dr. Chang becomes Deputy Chief Engineer of WRA since 2014. He has extensive experience in the field of water resources management, flooddrought mitigation, river environment improvement, water policy, water infrastructure. He is dedicated to implementing projects of smart flood prevention, watershed conservation, and rainwater use.



Yang-Long Wu

Secretary General. **Chinese Taiwan Water Works** Association

Mr. Wu is the Secretary-General of Chinese Taiwan Water Works Association and Chairman of the Member Committee, managing the operation of the Association to promote research and development of water works. He has nearly 40 years of experience in water works planning, design, and management.

Speakers



Tomoyuki Tanimoto

Director for Water Supply Section, Bureau of Waterworks, Tokyo Metropolitan Government

Tomoyuki Tanimoto is responsible for water supply installation and leakage prevention. He has been involved with waterworks since 1984. He experienced in management of water piping system and construction, and also involved with not only formulating the renewal and future plans for waterworks facilities but also asset management.



Chung-Huang Huang

Professor, Research Institute of Natural Resources and Environmental Management at National Taipei University

Dr. Huang had been a consultant to government think-tanks in Taiwan, member of several governmental advisory committees, Guest Professor in mainland China. He was Vice President at Taiwan Research Institute in 2011, mainly focus his research on environmental and resource economics, cost-benefit analysis, and CGE modeling.



Jacky Lei

Deputy General Manager, the Macao Water Supply Company Ltd.

Graduated in Imperial College London, holding bachelor and master degree of Environmental Engineering; Responsible for company's core technical functions, including Water treatment, Network management, NRW, innovation, HSE. Over 17 years experiences in network and NRW management. Senior Management member of Hong Kong Pillar Point Waste Water Treatment Plants.



Bor-Hsun Lai

Deputy Director-General, Water Resources Agency, MOEA (Retired)

Mr. Lai was the former Deputy Director-General of Water Resources Agency. During his service, he was in charge of the EIA, design, construction of several reservoirs construction projects, including Renyitan Dam, Liyutan Dam, Shihmen Dam. He specializes in reservoir risk assessment, water resources scheduling, and water engineering.

Daily Programme

R102 Water and the Industries (2) -Smart Solution for Water Supply and Control for the New Era

Торіс	Time
Introduction by Moderator	14:00 – 14:05
Smart Solution for Water Supply in Tokyo	14:05 – 14:35
Policy Integration for Water Pricing i Response to Climate Change	14:35 –15:05
Tea	15:05- 15:25
Introduction by Moderator	15:25 – 15:30
The Smart Water Evolution and Implementation of Macao Water	15:30 – 16:00
Smart Water Regulation and Safety Water Resources In Taiwan	16:00 – 16:30
Panel	16:30 –17:00
Fa	17:00

Water Culture in New Era International Forum 2020

Mod	erator	/Spea	aker
IVIOU		JPE	anci

Tomoyuki Tanimoto Director for Water Supply Section, Bureau of Waterworks, Tokyo Metropolitan Government

Chung-Huang Huang

Professor, Research Institute of Natural Resources and Environmental Management at National Taipei University

Break

Yang-Long Wu Secretary General, Chinese Taiwan Water Works Association

Jacky Lei Deputy General Manager, Macao Water

Bor-Hsun Lai Deputy General Manager, the Macao Water Supply Company Ltd.

Discussion

rewell

Moderator



Kuo-Chyang Chang

Deputy Chief Engineer, Water Resources Agency, Ministry of Economic Affairs

Daily	Programme

R101AB | Water Culture (3) -**Develop Ecological Green Network and New** Life Movement for Water Conservation

Dr. Chang becomes Deputy Chief Engineer of WRA since 2014. He has extensive experience in the field	Time	Торіс
policy, water infrastructure. He is dedicated to implementing projects of smart flood prevention, water water shed conservation, and rainwater use.	09:00 – 09:05	Introduction by Moderator
	09:05 – 09:25	Applying Environmental Trust As A Watershed Conservation Measure
Jen-Yang Lin		
Professor, Department of Civit Engineering, National Taiper Oniversity of Technology		
Professor Lin serves in department of civil engineering and also as the director of Water Environment Research Center in NTUT. Prof. Lin has dedicated to water environment improvement for decades, and has published dozens academic papers in this field.	09:25 – 09:30	Introductory Session
Chi-Feng Chen Professor, Department of Land Resources, Chinese Culture University	09:30 – 11:10	Focus Group Discussion
Professor Chen focus on her research on water pollution control and water quality modeling, giving		
basic data for policy decision-making.	11:10 –11:20	Tea Br
	11:20 – 12:00	Panel Disc

12:00

Speakers



-	C
	Ρ
	Pr ba

Chi-Feng rofessor, De

Water Culture in New Era International Forum 2020

Kuo-Chyang Chang Deputy Chief Engineer, Water Resources Agency, MOEA

Jen-Yang Lin Professor, Department of Civil Engineering, National Taipei University of Technology

Chi-Feng Chen Professor, Department of Land Resources, Chinese Culture University

MC

Group Facilitators

cussion

Lunch

R101AB Sep. 25 | Water Culture (3) - Develop Ecological Green Network and New Life Movement for Water Conservation

Daily Programme Moderators/Panelists/Speakers

Moderators



Panelists

Cheng Chen-Kuo

Director, Hydraulic Engineering Office, Public Works Department, **Taipei City Government**

Works Department, Taipei City Government, Chief Secretary, Public Works Department, Taipei City Government (2016 ~2018)/Deputy Director, Hydraulic Engineering Office, Public Works Department, Taipei City Government (2014~2016)/Chief Engineer, Hydraulic Engineering Office, Public Works Department, Taipei City Government (2012~2014)

Director, Sewerage Systems Office,

Public Works Department, Taipei

Chief Secretary, Public Works Department, Taipei City Government/Chief Engineer,

Maintenance Office, New Taipei City Government/Chief Secretary, New

Construction Office, Public Works

Department, Taipei City Government



Pen-Chi Chiang

Professor. National Taiwan University

Director, Graduate Institute of Environmental Engineering, NTU/Director, Carbon Cycle Research Center, National Taiwan University/Adjunct Professor, University of Delaware/Visiting Professor, The Ohio State University/Commissioner, National Sustainable Development, Exertive yuan/Advisor, Administration of Environmental Protection

K.C. Hsieh Associate Chief Engineer, **CTCI** Corporation

Director of Taiwan Professional **Environmental Engineers Association**

Speakers



Kai-Yao Chang

Kun-Hu Lin

City Government

Chief Engineer, Hydraulic Engineering Office, Public Works Department, Taipei City Government

Section Chief of Hydraulic Division, Public Works Department, Taipei City Government/Section Chief of Civil Engineering Division, Public Works Department, Taipei City Government/Doctor of Department of Bioenvironmental Systems/Engineering, National Taiwan University



Yechezkel Lifshitz

Director General, Israel Ministry of Water Resources, Jerusalem the State of Israel

Lifshitz is the Acting Director General of the Ministry of Water Resources. Previously, he was the Deputy Director General for Energy and Water in the Israeli Ministry of Energy (2013-2020). In this position, he was an advisor to the Minister and Director General of the Ministry.



Chien-Chun Wu

Chief Engineer, Geotechnical Engineering Office, Public Works Department, Taipei City Government

Division Chief, Procurement Administration Division, Public Works Department, Taipei City Government/Director, Unified Bidding Center, Taipei City Government./Chief Engineer, Geotechnical Engineering Office, Public Works Department, Taipei City Government.

Daily Programme

Speakers



Kikuo Inaba

Dr. of Eng. Prof. emeritus, Osaka Uni. of Economics, Osaka Japan

1965: graduation from Kyoto Uni. and at the same time, the technical official of Ministry of Construction; 1993: Prof., Osaka Univ. of Economics; 2012: Prof. emeritus; 2016: award of Publication Culture from Japan Society of Civil Eng.; 2019: The President, NPO Japan Association of Drainage and Environment

Shu-Ching Teng Secretary-General, Taiwan Tomo No Kai

Kaohsing City Governmemt, Taiwan(2000.09-2007.03)/Hachioji City Hall, Tokyo, Japan(2007.04-2016.06)/Taipei Economic And Cultural Representative Office(Tecro) In Tokyo(2016.07-2019.07)/Head Of The Secretariat, Translator (Chinese ⇔ Japanese), Commentatoron Life Culture of Taiwan Friendship Association (台湾友の会) (2019.1-Now)

Ming-Shen Chang

Chief Secretary, Urban Development Agency, Taipei City Government

Employement: Urban Development Bureau of Taipei City Government/Education:Master of Architecture and Urban Design, National Taipei University of Technology/ Experience:Director, Chief Secretary of Taipei City Renewal Office, Taipei City Construction Management Engineering Office

Sean Rush

Wellington City Councilor, Wellington City Council, Wellington New Zealand

Sean holds Masters in Petroleum Law and Policy (with distinction) from the University of Dundee, and is completing a Masters in Climate Change Science and Policy at Victoria University of Wellington. He is an Expert Reviewer for the Inter-Governmental Panel on Climate Change's sixth assessment report due out in 2021

Huei-Mei Liu

Principal, Ying-Qiao Elementary School, Taipei City

Master of National Taipei Institute of Education Communication and Technology/Dean of Academic Affairs, Dean of General Affairs/Won "Excellent" awards in GreaTeach-KDP (Kappa Delta Pi, International Honor Society in Education) 2018, 2014/Invited to present in the 10th Global Imagination Education Forum in Vancouver in 2015

Patrick Hafenstein

Oueensland Trade and Investment Commissioner - Taiwan, Trade and Investment Queensland, Brisbane the Commonwealth of Australia

Patrick Hafenstein commenced as commissioner for Taiwan in April 2018. He has extensive experience in business development, sales and marketing, trade and investment. He delivered multiple export deals, successful international marketing campaigns, and major projects in global markets.







Daily Programme

R101C | Water and Taipei (3) - Vibrant Water Environment

Daily Programme

R101C | Water and Taipei (3) - Vibrant Water Environment

Time	Торіс	Moderator /Speaker		Time	Торіс
	Introduction by Moderator	Cheng Chen-Kuo Director, Hydraulic Engineering Office, Public Works Department, Taipei City Government			Introduction by Moderator
	The Vision of Waterfront Environment	Kai-Yao Chang Chief Engineer,	10:-	40 – 10:55	Water Resources Management Application of Social Housing in City
09.00 - 09.13	City	Public Works Department, Taipei City Government	10:	55 – 11:10	Ka Ora Te Wai - If the Water is Healthy
	Israel Water Economy, Facing Future	Yechezkel Lifshitz			in the water is nearing
09:15 – 09:30	Droughts and Water Scarcity, and Relation with Nature	Director General, Israel Ministry of Water Resources, Jerusalem the State of Israel	11:	10 – 11:25	The Water Resources Sustaina Development Education in Ying- Build a Miniature Sponge Sch
09:30 – 09:45	YongChunPi Wetland Park Environmental Construction Project	Chien-Chun Wu Chief Engineer, Geotechnical Engineering Office, Public Works Department, Taipei City Government	11:	25 – 11:40	The River City – Brisbane, Austral Greatest Natural Asset
	9:45 – 10:00 The Eternal Dreams of Prof. Burton and Water of Taiwan	Kikuo Inaba Professor, Osaka University of Economics, Osaka Japan	11:-	40 – 12:00	Pa Panelist: K.C. Hsieh, Assoc
09:45 – 10:00		Shu-Ching Teng Secretary-General, Taiwan Tomo No Kai		12:00	
10:00 – 10:20	Panel Discu Panelist : Kun-Hu Lin, Director, Sewera Department, Taipei C	ussion Ige Systems Office, Public Works Sity Government			
10:20- 10:40	Tea Bre	ak			

Moderator /Speaker

Pen-Chi Chiang Professor, National Taiwan University

and Taipei

Ming-Shen Chang Chief Secretary, Urban Development Agency, Taipei **City Government**

Sean Rush Willington City Councilor, Wellington City Council, Wellington New Zealand

able Qiao: loor

Huei-Mei Liu Principal, Ying-Qiao Elementary School

lia Our

Patrick Hafenstein Commissioner, Trade and Investment Queensland, Brisbane the Commonwealth of Australia

anel Discussion

ciate Chief Engineer, CTCI Corporation

Lunch

Moderators



Kuang-Chih Chang

Deputy Chief Engineer, Water Resources Agency, MOEA

Chang has dedicated himself to WRA for 27 years, has become Deputy Chief Engineer since 2019. With master's degree in Civil Engineering from Nationalaiwan University and MBA from Tamkang University,he specializes in water policy, river management, promotion of spring water and reclaimed water.



Wei-Cheng Lo

Distinguished Professor, National Cheng Kung University

Professor Lo received his Ph.D. degree in Civil and Environmental Engineering from U.C. Berkeley, USA. Currently Distinguished Professor of Hydraulic and Ocean Engineering at National Cheng Kung University. He works in the research of disaster preventionand mitigation technology for over 15 years.

Speakers



Thomas, J. Burbey

Professor, Virginia Polytechnic Institute and State University

Professor Burbey is the member of UNESCO (United Nations Educational Scientific and Cultural Organization) International Initiative on Land Subsidence from 2010 to present. He has dedicated to groundwater hydrology, land subsidence and groundwater modeling, 3D aquifer deformation and aquifer characterization using surface deformation signals.



Chuen-Fa Ni

Professor/Director, Graduate Institute of AppliedGeology, National Central University

Dr. Ni is the director of the Institute of Applied Geology, National Central University. His main research themes are numerical modeling of hydro-mechanical-chemical processes in porous and fractured media, hydraulic tests and inverse problems, groundwater and surface water interactions, submarine groundwater discharge, IoT groundwater monitoring.



Chu-Liang Lee

Deputy Chief Operating Officer, Santa Clara Valley Water District, Retired

Lee was the Deputy Chief Operating Officer managing the Watershed Stewardship and Planning Division incharge of sustainable water resource management and flood protection of Santa Clara County, California.Lee developed hydrologic monitoring system to manage water supply, flood protection, environmental stewardship conjunctively, while maintaining groundwater sustainability.



Jet-Chau Wen

Distinguished Professor, Department and Graduate School of Safety Health and Environmental Engineering, National Yunlin University of Science and Technology

Wen is distinguished professor, Department and Graduate School of Safety, Health and Environmental Engineering, also the Chief Director of Research Center for Soil and Water Resources and Natural Disaster Prevention. He has dedicated to water resources management and natural disaster prevention for over two decades.

Daily Programme

R101D | Water and the Environment (2) -**Groundwater Recharge**

	Time	Торіс	Moderator /Speaker
	09:00 – 09:05	Introduction by Moderator	Wei-Cheng Lo Distinguished Professor, National Cheng Kung University Department of Hydraulic and Ocean Engineering
	09:05 – 09:35	Identifying Subsurface Boundaries from Surface Deformations -A First Step Toward Subsidence Mitigation	Thomas, J. Burbey Professor, Virginia Polytechnic Institute and State UniversityDepartment of Earth Sciences, US
	09:35 – 10:05	Mechanisms of Pumping-Induced Land Subsidence	Chuen-Fa Ni Professor, Graduate Institute of Applied Geology, National Central University
	10:05 – 10:25	Tea Break	
	10:25 – 10:30	Introduction by Moderator	Kuang-Chih Chang Deputy Chief Engineer, Water Resources Agency, MOEA
	10:30 – 11:00	Groundwater Conservation through Artificial Recharge	Chu-Liang Lee Deputy Chief Operating Officer, Santa Clara Valley Water District, Retired, United States
	11:00 – 11:30	Sharing Experiences for Groundwater Recharge Facilitation in Taiwan	Jet-Chau Wen Distinguished Professor, Department and Graduate School of Safety Health and Environmental Engineering, National Yunlin University of Science and Technology
	11:30 -12:00	Panel Discussion	
	12:00	Luncl	ı

Water Culture in New Era International Forum 2020

The Study of Land Subsidence Mechanism and

Moderators



Hung-Pu Huang

Chief Secretary, Water Resources Agency, **Ministry of Economic Affairs**

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



Chihpin Huang

University Chair Professor, National Chiao Tung University

Huang received Ph.D. from the University of Delaware, joined the faculty at NCTU in 1990. He is known for intensive research activities covering a broad array of topics on physical, chemical, and biological aspects of environmental systems. He has successfully incorporated nano-/membrane/electrochemical technologies into water purification engineering.

Speakers



Timothy C. Heberlein

President, TS Edgewater Consultants, LLC

Heberlein has pioneered introduction to Taiwan of advanced anaerobic digestion technology and processing systems for conversion of high-strength factory wastewater, organic sludge, retail/ consumer food waste to electricity and organic fertilizer. His 40-year career spans senior executive positions in government, agribusiness, media, research, PR, advertising across Asia.

	Taff T. Tu Chairman, International Relations Committee, Chinese Institute of Engineers	10:25 – 10:30	Introduction by Moderator
	Before Chinese Institute of Engineers, Tu worked with Sinotech for over 4 decades. From Engineer to Senior Vice President, he had been taking consulting services assignments for domestic and foreign water projects, was responsible for the business development activities at both home and ASEAN countries.	10:30 – 11:00	Community Based Sanitation in Surabaya City
•	Denny Dermawan Lecturer, Shipbuilding Institute of Polytechnic Surabaya	11:00 – 11:30	Opportunities and Challenges of Taiwan Innovative Water Treatment Industry in ASEAN Countries
	Lecturer in Shipbuilding Institute of Polytechnic Surabaya. Previously the Head of Waste Treatment Engineering Study Program. He holds a Bachelor and Master Degree of Environmental Engineering from ITS Surabaya. Areas of expertise include community-based sanitation, commissioning and operation of biological wastewater treatment plant, industrial hygiene.	11:30 – 12:00	Panel D



Charles Kao

President, Tai Ho Environmental Enterprises Co., LTD

Beside the president position, Kao is also supervisor of Chinese National Federation of Industries, honorary president of Taiwan Environmental Manufactures Association, executive vice president of Taiwan Environmental Engineering Association and Vice Chairperson of Thailand group, Committee on Asia-Pacific Industrial Cooperation, CNFI to promote business development in ASEAN countries.

Daily Programme

R102 Water and the Industries (3) -Southeast Asian Water Markets

Торіс	Time
Introduction by Moderator	09:00 – 09:05
"From Waste to Wealth" The Challenge of Asia's Wastew & Solid Organic Waste Treatm Opportunity	09:05 – 09:35
Promotion for Networking with International Engineerin Organizations and Sharing of Tai Experience	09:35– 10:05
۱	10:05 – 10:25
Introduction by Moderator	10:25 – 10:30
Community Based Sanitation Surabaya City	10:30 – 11:00
Opportunities and Challenges Taiwan Innovative Water Treatn Industry in ASEAN Countries	11:00 – 11:30
Ра	11:30 – 12:00

12:00

Water Culture in New Era International Forum 2020

Business Opportunity and Exploration in Emerging

Moderator /Speaker

Hung-Pu Huang Chief Secretary, Water Resources Agency, MOEA

vater ent

Timothy C. Heberlein President, TS Edgewater Consultants, LLC

wan's

Taff T. Tu, Chairman International Relations Committee, Chinese Institute of Engineers

ea Break

Chihpin Huang University Chair Professor, National Chiao Tung University

Denny Dermawan Lecturer, Shipbuilding Institute of Polytechnic Surabaya, Indonesia

Charles Kao President, Tai Ho Environmental Enterprises Co., LTD

iscussion

Lunch

R102 Sep. 25 | Water and the Industries (3) - Business Opportunity and Exploration in Emerging Southeast Asian Water Markets

Moderator



Jaw-Cheng Chen

Chief Engineer, Water Resources Agency, MOEA

Graduated from Chung-Hsing University for doctoral degree of Geotenical Engineering, served for Wra more than thirty years. His experience position were chief of general planning division, river management division Hydrological division, deputy chief engineer and director of Taipei water Management office, Northern Region Water Resources office.

		14:05 – 14:25	Community Engagement for Flood Mitigation- Fishing Pond Pre-Lowerin Water Lever Mechanism, Xin-Gang I Yong-An District
Speakers	Min-Hao Wu Professor/Department Chairman, Department of Civil and Environmental Engineering, National University of Kappsiung	14:25 – 14:30	Introductory Session
	Dr. Wu hosts the Science and Technology Center for Disaster Prevention and Reduction, National University of Kaohsiung, serving as a consulting team of Kaohsiung City Government. His research includes disaster management, natural disaster prevention and reduction, geotechnical and geoenvironmental engineering, earthquake engineering, water resource engineering, and development of resilient city.	14:30 - 16:10	Focus Group Discussion
		16:10 – 16:20	Tea
		16:20 – 17:00	Panel

17:00

14:00 - 14:05

Water Culture in New Era International Forum 2020

Community Engagement for Flood Mitigation

Moderator /Speaker

Introduction by Moderator

Topic

Daily Programme

R101AB | Water Culture (4) -

Jaw-Cheng Chen Chief Engineer, Water Resources Agency, MOEA

g

Min-Hao Wu Department Chairman, Department of Civil & Environmental Engineering, National University of Kaohsiung

MC

Group Facilitators

Discussion

Farewell

Moderators



Yuan-Peng Lin

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

Education : Master of Civil Engineering, National Taiwan University Functions and Responsibilities : Water resources development and management, Rehabilitation and safety assessment of reservoir Hydraulic desilation and dredging of reservoir, Water resources allocation during drought



Jihn-Sung Lai

CEO. Center for Weather Climate and Disaster Research, National Taiwan University

Lai earned his Ph.D. from Department of Civil and Environmental Engineering at UC Berkeley, USA in 1994. His research focuses on reservoir sedimentation and desiltation, sediment transport, hydraulic physical, numerical modeling, flood inundation simulation. Recently, he assisted WRA publish English book entitled "Reservoir Desiltation -Technology and management."

Speakers



Chih-Ping Lin

Distinguished Professor & Director of Disaster Prevention and Water Environment Research Center, National Chiao Tung University

Lin is Distinguished Professor of Civil Engineering, director of Disaster Prevention and Water Environment Research Center at NCTU. Currently serves as global vice chair of Near-surface geophysics Technical Section of Society of Exploration Geophysicists. Mainresearch are engineering monitoring inelectromagnetic waveguide and engineering geophysics.



Li-Cheng Hsu

Chief of Zengwen Reservoir Management Center, Southern Region Water Resources Office, WRA, MOEA

Graduated from National Cheng Kung University, master of hydraulic and ocean engineering. Chief of Zengwen Reservoir Management Center, Southern Region Water Resources Office, WRA, MOEA. Used to be chief of Construction Section, have practical experiences in Engineering construction, reservoir management, execution flood control, reservoir dredging.



Hsuan-Yu Lin

Project Manager, Water Resources & Hydraulic Engineering Department, Sinotech **Engineering Consultants Ltd**

Lin received Ph.D. in Civil Engineering Department from National Taiwan University in 2013. He joined Sinotech Engineering Consultants Ltd in 2015 as Hydrologic and hydraulic engineer engaged in water resource infrastructure projects, such as hydropower plant planning, sponge city planning, hydraulic and sediment numerical modeling.



Blair Greimann

Hydraulic Engineer, Technical Specialist for Sedimentation and River Hydraulics Group, Technical Service Center, Bureau of Reclamation

Blair Greimann received his Ph.D. from University of Iowa.He is a Technical Specialist in the Sedimentation and River Hydraulics Group at the Bureau of Reclamation in Denver, Colorado. His primary work is related to the analysis and design of large-scale dam removal, river restoration projects, and reservoir sedimentation management.

Daily Programme

R101C | Water and the Environment (3) -Dredging for Reservoir and Storage Capacity Improvement

	Торіс	Moderator /Speaker
4:00 – 14:05	Introduction by Moderator	Yuan-Peng Lin Deputy Chief Engineer,Water Resources Agency, MOEA
14:05 – 14:35	Instrumentation and Monitoring Technology for Hydraulic Sluicing Operation and Dredging Production Control	Chih-Ping Lin Distinguished Professor & Director of Disaster Prevention and Water Environment Research Center, National Chiao Tung University
14:35–15:05	Reservoir dredging strategy-take Zengwen Reservoir as an Example	Li-Cheng Hsu Chief of Zengwen Reservoir Management Center, Southern Region Water Resources Office, WRA, MOEA
15:05- 15:25	Tea Break	
15:25 – 15:30	Introduction by Moderator	Jihn-Sung Lai CEO, Center for Weather Climate and Disaster Research, National Taiwan University
15:30- 16:00	Strategies of Reservoir Capacity Maintenance: A Lesson from the Kurobe River, Japan	Hsuan-Yu Lin Project Manager, Water Resources & Hydraulic Engineering Department, Sinotech Engineering Consultants Ltd
16:00 – 16:30	Sediment Transport Mechanisms in Reservoirs	Blair Greimann Hydraulic Engineer, Technical Specialist for Sedimentation and River Hydraulics Group, Technical Service Center, Bureau of Reclamation
	Panel Discussion	

Water Culture in New Era International Forum 2020

Moderators



Wei-Cheng Lo

Distinguished Professor and Associate Vice President, National Cheng Kung University

Lo worked in the research of disaster prevention and mitigation technology for over 15 years, particularly in mathematical modeling of flooding and subsidence. Experiences include Member for Panel of Experts for Disaster Prevention, Executive Yuan, and Coordinator for Division of Disaster Prevention Technology, MOST, Taiwan.



Yi-Fung Wang

Deputy Director General, Water Resources Agency, Ministry of **Economic Affairs**

Wang works for Water Resources Agency more than 20 years, and being the Chairman of ISTT Taiwan since 2020. He owns Civil Engineering Ph.D. degree from National Taiwan University and rich experiences on water policy planning, catchment conservation, Tap water management and Typhoon-cloudburst disaster management.

Speakers



Nikolaos P. Nikolaidis

Professor, School of Environmental Engineering, Technical University of Crete, Greece Nikolaidis is a professor in the School of Environmental Engineering, has served as the Deputy Rector for Financial Planning and Development of Technical University of Crete and the Director of HersLab. Prior to joining TUC, he was a professor and director of the Environmental Engineering Program at the University of Connecticut, USA.



Kuei-Hsien Liao

Associate Professor, Graduate Institute of Urban Planning, National Taipei University Convener, Taiwan Rivers Network

Liao has been championing for resilience-based flood hazard mitigation, calling for a more ecologicalfriendly way of managing rivers, achieving flood safety. Her research focuses on flood resilience, green infrastructure, urban rivers, urban ecosystem services. She was Assistant Professor at National University of Singapore (2012-2013) and Chinese University of Hong Kong (2014-2017).



Zoran Vojinovic

Associate Professor of Urban Water Systems, IHE Delft Institute for Water Education, **The Netherlands**

Vojinovic is Associate Professor of Urban Water Systems at UNESCO-IHE with 22 years of combined on the-ground and academic experience in water industry in New Zealand, Australia, Asia, Europe, etc. He has been a leader of multidisciplinary teams, developed methodologies, systems, tools successfully applied in practice.



Chia-Ning Yang

Engineer, Engineering Aesthetics Center, Sinotech Engineering Consultants

Yang specializes in fluvial geomorphology, ecological engineering and environmental planning. She dedicated for over a decade in multi-disciplinary intergration for stream restoration. She obtained her PhD in landscape architecture and environmental planning from University of California, Berkeley and Master's degree in civil engineering from University of Tokyo.

Daily Programme

R101D Water and the Environment (4) -**Nature-Based Solutions**

Time	Торіс	Moderator /Speaker	
14:00 – 14:05	Introduction by Moderator	Wei-Cheng Lo Distinguished Professor and Associate Vice President, National Cheng Kung University	
14:05 – 14:35	Nature-Based Solutions for Climate Change Adaptation and Mitigation	Nikolaos P. Nikolaidis Professor, School of Environmental Engineering, Technical University of Crete, Greece	
14:35–15:05	Resilience-Based Flood Hazard Mitigation: From Flood Control to Flood Adaptation	Kuei-Hsien Liao Associate Professor, Graduate Institute of Urban Planning, National Taipei University	
15:05– 15:25	Tea Break		
15:25 – 15:30	Introduction by Moderator	Yi-Fung Wang Deputy Director General, Water Resources Agency, Ministry of Economic Affairs	
15:30- 16:00	The Multifunction Potential of Nature- Based Solutions: Balancing Trade-Offs Between Benefits and Co-Benefits	Zoran Vojinovic Associate Professor of Urban Water Systems, IHE Delft Institute for Water Education, the Netherlands	
16:00 – 16:30	Strategic Planning for Bie Creek Restoration	Chia-Ning Yang Engineer, Engineering Aesthetics Center, Sinotech Engineering Consultants	
16:30 –17:00 Panel Discussion		cussion	
17:00	Farewell		

Water Culture in New Era International Forum 2020

Mitigating Hydro - Meteorological Hazards with

Water Culture in New Era International Forum 2020

新時代水文化價值國際論壇



Exhibition

Pavilion of Taiwan Water Industries 2020

Acer Being Communication Inc.

www.acer.com

Company Profile

Acer Being Communications aims to build a resilient city, providing solutions including smart water meters, smart water quality monitoring system, and smart water storage. Acer's smart water meters are divided into two types: plug-in type and integrated type.

Product Description

Acer's water quality monitoring system

Acer Being communications Inc., is the sub company of Acer group, Acer Being Communication is pleased to create a "smart water city" solution with solid IoT technology and smart city vision.





AVIX Technology Inc.

https://www.avix-tech.com/

Company Profile

AVIX is constituted by the professional technical teams from Taiwan and Japan. Our ultimate goal is to focus on the small unmanned and remote control aerial systems, including the design, development, integration and manufacturing.

Product Description

AXH-E230RS

AXH-E230RS a professional multi-function unmanned helicopter, specially designed for the long-distance reconnaissance and surveillance application. It is featured with high payload capacity, high mobility, low noise, low vibration, long endurance etc.



BES Engineering Corp.

https://www.bes.com.tw/

Company Profile

BES Engineering Corporation has owned abundant overseas experiences, its footprint to be found all over the world. We have accumulated a lot of compact techniques and specialized experiences and also fostered many high quality engineers in the construction sector.

Product Description

Service

- Our Service
- Turnkey project and management.
- · Construction method and duration assessment.
- · Value engineering assessment.
- · Project valuation and service proposal.
- · Project management and safety & health & quality management.
- · Urban renewal, construction, and development.



Building Green Ecology Co., Ltd

https://www.avix-tech.com/

Company Profile

Building Green dedicates sponge city material developing and takes two years to develop several our own water conservation/infiltration green infrastructure facilities all are manufactured in Taiwan.

Product Description

Water Harvesting Module

Description : Assembling water harvesting module on site become an underground stormwater tank and could suit for all current regulations. Characteristic 1.95% high porosity 2. High compressive strength, loading 25 tons vehicle 3.Made in Taiwan, High Quality, High Performance

Exhibitor Profiles

Chuan Yi Electric Machinery Works Co., Ltd..

http://cht.cpem.com.tw/

Company Profile

CHUAN YI PUMPS was established in 1982. We always target to strengthen our design and produce ability to provide a better services and high-tech products to our customers.

Product Description

Auto Prime Engine Pumps

- 1.Self-priming pumps.
- 2. The special chamber can separate water and air.
- 3.Engine speed adjustment tool..
- 4.Advanced control systems.
- 5. The patent aluminum-made quick connection joint.
- 6.Light weight and small size.



Chunghwa Telecom Co., Ltd. South Taiwan Telecom Branch

https://www.cht.com.tw/zh-tw/home/cht/about-cht/business-group/ organization/southern-taiwan-business-group

Company Profile

Chunghwa Telecom is the largest integrated telecommunications company in China. The main business covers fixed-line communications, mobile communications and broadband access and the Internet.



Product Description NBIOT

NBIoT communication technology with continuous flood detector, with low power consumption, long distance transmission and other characteristics. It adopts lithium battery power supply and small solar panel charging.



Chung Yuan Christian University

https://www1.cycu.edu.tw/

Company Profile

The Center's founding objectives lies in promoting the development of membrane technology, excelling academic exchange, and enhancing cooperation with the industrial sector.

Product Description

Membrane Distillation

The temperature/vapor difference across the membrane provides driving force for transport of vapor, producing distillate.

Reduce the energy consumption of water production by using low-order heat sources in the plant.

Production water is recycled.



Chunghwa Telecom Southern Taiwan Business Group

https://www.cht.com.tw/zh-tw/home/cht/about-cht/business-group/ organization/southern-taiwan-business-group

Company Profile

CHT launched the iEN intelligent environmental service in 2008. We provide corporate clients with energy management technology that helps reduce operational cost.

Product Description

Improved irrigation and water conservation management technology

An intelligent decisionmaking system on the cloud, along with environmental monitoring equipment, calculates and delivers the precise amount of water needed for the irrigation of crops to effectively improve the efficiency of irrigation water conservation.



CHYI SHYANG CO., LTD.

http://www.dingtai.com.tw/

Company Profile

Chyi Shyang Co., Ltd. was founded in 1990, we provide "the most professional" engineering construction and trading of "the latest", "the most environmentally friendly" eco-technology and building materials.

Product Description

JW Eco-Technology

With the application it can tackle on three disasters: hazes and air pollution, flood and drought, and urban heat-island effect, so as to create a safe, sustainable, healthy, happy and livable "JW eco smart sponge city".



Energy Management System CO.,LTD.

https://www.ems.com.tw/zh-tw

Company Profile

EMS Co., Ltd., founded in 1991, over 20 years. Awarded ISO certificates, innovative patents, and developed ISOqualified test rigs, EMS serves the clients from C&I and utility sectors.



Product Description

Smart Digital Water meter

EMS smart-metering solutions, including accurate metering, IoT data transmission, and cloud data platform, has been realized in smart cities. The new solution has been awarded by Taiwan Excellence and implemented in ASEAN countries.

CITPO TECH

http://www.citpo.com.tw/?action=index

Company Profile

CITPO Technologies was founded in 2013 by Dr. HO YAN-DE in Hsinchu, and is a leading manufacturer of fiber grating sensors (FBG sensor) technology.

Product Description

FBG pressure sensor

This sensor uses FBG to measure the variation of pressure. It's equipped with an additional FBG temperature sensor, that can be used to compensate the temperature effects on pressure measurement while sensing the temperature.



Fenri Co., Ltd.

http://www.fenri.com.tw/

Company Profile

Our mission is to build more smart cities in Taiwan. We combine our own state-of-the-art IoT techniques and water treatment engineering expertise with external resources from government-industry-university-institute alliance.

Product Description

Fenri Cloud Collection

Fenri Cloud Collection (FCC), FCC is IoT application product. The design follows the concept of "Less is More". It is equipped with multi-functional electronic components and silver-gray metal case.



Exhibitor Profiles

FineTek Co., Ltd.

https://www.fine-tek.com/main/page_view.aspx?mnuid=1248&modi d=111&flag=1

Company Profile

Established in 1978, is a global industrial sensor design and manufacture company. Its brand and main sale territories include Asia (FineTek), Europe (muetec instrument) and North America (AplusFine).

Product Description

EPD39

EPD39 Battery powered electromagnetic flowmeter It is a ultifunctional wireless signal transmission module with display interface to facilitate on-site operator application.



JFR3

FMCW Radar Level Transmitter

EPD39 Battery powered JFR3 FMCW radar level transmitter is a non-contact measuring device, suitable for liquid measurement in most tanks.



Global Water Quality Research Center, National Cheng Kung University

http://serl.ncku.edu.tw/index.php?modify=about&id=12

Company Profile

GWQRC was formed in 2013 by National Cheng Kung University, China Steel Corporation group, and the South Australian Water Corporation through its research provider the Australian Water Quality Centre. GEEC specializes in the application of multi-sensor monitoring system including InSAR, GPS, Leveling and Multi-layer compaction monitoring well in monitoring land deformation and deformation mechanism.

Product Description

Multi-algae monitoring system

This system was developed to aim for offering water and aquaculture industries a rapid, precise, and low-cost method to detect cyanobacteria, cyanotoxins, and taste and odor compounds in water and aquaculture products.



Geosense

http://www.geosense.tw/

Company Profile

Our goal: Bring GIS technology to client, staff and society with an endless benefit. Our philosophy: Quality, Honesty, Innovation, Leadership,

Personal Value Our Services: Integrate information technology into business management.

Product Description

Geosense Map

OSM structure:

We adopt mainstream OSM (OpenStreetMap) in 2D and 3D plan to avoid expensive license fee, which has wisely used international.





Green Environmental Engineering Consultant Co., Ltd.

http://www.geec.com.tw/

Company Profile

Product Description

- Multi-layer compaction automatic monitoring equipment 1.Sensor matrix include 36 sensors 2.Automatic monitoring compaction in land subsidence area 3.Accuracy of measurement is better than 1 mm
- Cloud GPS early warning system for surface deformation
- 1.Cloud Computing
- 2.Global Positioning System
- 3.Warning of Surface deformation



GSD Technologies Co., Ltd

http://www.gsd.net.tw/page/11.htm

Company Profile

GSD Technologies Co., Ltd is a leading company in Environmental equipments whole-sales, development production, also, provides the total solution and technical proposal service to its clients.

Product Description

On-line **Bio-Activity Indicator**

Detector



IDE Technologies

https://www.ide-tech.com/es/

Company Profile

IDE Technologies specializes in the design, engineering, construction and operation of municipal and industrial water treatment facilities

Product Description

IDE

IDE, leads the water development market and provides efficient and flexible solutions to its clients and partners. Our range of project financing models, including Build-Operate-Transfer (BOT), Build-Own-Operate (BOO) and Build-Operate-Own-Transfer,





Industrial Technology Research Institute

https://www.itri.org.tw/search.aspx?SiteID=1&keyword=%E6%9D%9 0%E5%8C%96%E6%89%80

Company Profile

ITRI's water technology team has devoted to water technology development covering a wide range of applications by working with various research organizations and industrial partners.

Product Description

Qwater

Qwater is design as a quick installed mobile drinking water supply system during disasters or used regularly in remote areas. Qwater has been installed and operated successfully in several cases for providing safe drinking waterzj83121



InnoFusion Environmental Management Co., LTD

http://www.ifem.com.tw/

InnoFusion Environmental Management Co., LTD is a state-approved engineering and technical consulting agency and environmental protection professional construction industry.

Product Description

smart box

Based on the needs of disaster prevention. In order to grasp the environmental conditions of various rivers, we develop Integrated smart box and integrate monitoring functions of water level, velocity and tilt angle.



Exhibitor Profiles

International Integrated Systems, Inc. (IISI)

http://www.iisigroup.com/

Company Profile

International Integrated Systems, Inc. (IISI) is a large-King Membrane Energy Technology Inc. was established scale international professional benchmark company of in 2007, dedicated to develop and produce the polymeric information and communication technologies for system membrane module with high intensity for the purpose of implementation and software development. water treatment and liquid/solid separation.

Product Description

This application integrates weather, PM2.5, rainfall probability, suspension notification of school or office etc. life information and some major disaster prevention information of the Water Resources Agency, including water information, CCTV, warning, disaster map and sensor information.



KUO TOONG INTERNATIONAL CO., LTD.

http://www.kti.com.tw/index_en.html

Company Profile

Founded in 1978, Kuo-Toong Co., Ltd specializes in the In response to Taiwan's unique geographical professional design, production and assembly of large environment and the frequent challenges facing natural size water supply and division pipes including (1)concrete disasters, we introduces advanced technologies, works products (2) steel pipes and (3)ductile iron pipes. on efforts to raise awareness for water conservation, improves meteorology and hydrology talent.

Product Description

KTH-20 Energy Recovery Unit

Chemicals free in desalination process KTH-20 Energy Recovery Unit Core of Pressure Exchange unit has no running parts, high efficiency, high reliability and no maintenance needed.

KTH-20 Seawater desalination package unit





Company Profile

Water Culture in New Era International Forum 2020

https://www.kingmembrane.com.tw/

Company Profile

Product Description

MBR Wastewatwe System

1.MBR Wastewatwe System

2.Membrane filtration system for inorganic heavy metal wastewater

3.Membrane filtration system for emulsified wastewater

Membrane filtration

system for inorganic heavy metal wastewater



Manysplendid InfoTech / Manysplendid Engineering Consultants

http://www.manysplendid.com/

Company Profile

Product Description

Real-Time Flood Forecast System

The system uses a Responsive Web Design (RWD) technique to display results on 🔚 webpages, which allows the river forecast results to be viewable on all browsers.



民防汛人員約8小時之資料蒐集分

MING KUAN Machinery

http://vip.arch-world.com.tw/65709.html

Company Profile

Found in 1966 which has more than 50 years of manufacturing experience. We not only export to Southeast Asia region but to developed countries like the US, Germany, Japan and etc.

Product Description

Multi-Jet Sleeve Valve

MK Multi-Jet Sleeve Valve can be used as bypass pressure release valve at the turbine generator cooling system or as energy dissipation and flow control valve under high pressure difference at the pipeline.



National Taipei University of

Technology

https://www.ntut.edu.tw/

Company Profile

Technology Center of Disaster Mitigation and Engineering which was under the engineering college of Taipei Tech contributes to flood forecasting so as to provide the ability for an appropriate response during a typhoon in Taiwan.

Product Description

Flood warning platform

1. Paralleling 2D-Flood Simulation Module : For providing flood information in every 3 hours.

2. Inundation information supporting : Using different media to supporting.

3. IoT WaterLeveling analysis : Useing IoT recording and returning data immediately.



National Taiwan University

https://www.ntu.edu.tw/

Company Profile

We focus on developing water-energy sustainable technologies. Our goal is to develop advanced multifunctional nanomaterials for water innovation, including energy-efficient desalination and low-energy wastewater treatment for doubling resource recovery (i.e., water reuse and nutrient recovery).

Product Description

Photovoltaic-CDI System

Photovoltaic-CDI system aims to utilize solar energy as the main energy resource to meet the goals of energy independence and sustainability. 1.Utilizing Capacitive Deionization 2.Utilizing energy recovery system 3.Utilizing sustainable energy



National Taiwan University of Science and Technology

https://www.ntust.edu.tw/home.php

Company Profile

NTUST, also known as Taiwan Tech was founded on 1973, Taiwan Tech is founded for meeting the need for highly trained engineers and managers created by the rapid economic and industrial development.

Product Description

WRA AI robot Diana

"WRA AI robot Diana" is an intelligent chatbot for decision support together. Targeting high-level decision-makers. The knowledge of the chatbot covers over 318 items selected from the five major topics.





Exhibitor Profiles

NCKU Research and Development Foundation

http://ckhp.ncku.edu.tw/pls/big5/index2

Company Profile

The NCKU Research in December 1993. It operates with capital collected from NCKU faculty members, students, alumni and individuals from society to integrate human resources in the government, academia and economic, technological and so on.

Product Description

ORIO-G80112D5-NB modules

ORIO-G80112D5-NB modules accelerate time to market for designers, OEMs and solution providers by quickly enabling wireless connectivity and easyto-add functionality. Building on industry-leading technology, provide wireless protocols as needed.



POWERPURE TECHNOLOGY Co., Ltd

Company Profile

POWERPURE, which specializes in capacitive deionization (CDI) technology. We offer customized CDI modules and systems sizing to reach client needs for water softening, purification, wastewater treatment, and water reclamation.

Product Description

Capacitive deionization (CDI)

Capacitive deionization (CDI) technology, an emerging electrochemical water treatment technology for facile removal of charged ionic species from aqueous solution; low energy usage, high water recovery, chemical-free regeneration and concentrate reuse possible.







Water Culture in New Era International Forum 2020

https://oringnet.com/zh-tw/about/index

Company Profile

Founded in 2005, ORing specializes in developing innovative own-branded products for industrial settings. Over the years, ORing has accumulated abundant experience in wired and wireless network communications industry.

Product Description

ORIO-G80112D5-NB modules

ORIO-G80112D5-NB modules accelerate time to market for designers, OEMs and solution providers by quickly enabling wireless connectivity and easy-to-add functionality. Building on industry-leading technology, provide wireless protocols as needed.



RiChi Technology Inc. Foundation

https://www.richitech.com.tw/%E9%97%9C%E6%96%BC%E7%91% 9E%E7%AB%A3/

Company Profile

"IF YOU BUILD IT, THEY WILL COME." this is what we want to do. Our goal is building a bridge between geospatial data and user, solving various geo-issues to make the world be better.

Product Description

The products are based on information system display. We develop an automated data quality control mechanism, establish a spatial analysis module, obtain the predicted rainfall of each station through spatial interpolation.



SINOTECH ENGINEER CONSULTANTS, LTD..

https://www.sinotech.com.tw/tc/index.aspx

Company Profile

Sinotech Group has enjoyed a reputation for integrity, quality, excellence, and innovation. A firm grasp of major engineering trends has allowed Sinotech to apply cuttingedge technology in projects and play a pivotal role in leading Taiwan's modernization.

Product Description

SEC-HY21

SEC-HY21 is a software for the modeling simulation of two dimensional hydraulic routing. This simulation model also combines the modules of grid analysis, bed elevation, calculation engine and the visualization of graphic flow fields.



Stantec Consulting Services Inc. Stantec Environmental Technologies Taiwan Ltd.

https://www.stantec.com/zh_tw

Company Profile

Stantec is one of the top 10 global architecture and engineering firms. The headquarter is in Edmonton, Alberta, Canada. Founded in 1991 as Stantec Consulting Services Inc., Taiwan Branch, and Stantec Environmental Technologies Taiwan Ltd. respectively.

Product Description

Our Services Scopes

One-stop and full Services for project life cycle, including feasibility research, survey evaluation, consulting, planning, design, etc.

Our Core Services

Water pollution control plan, environmental quality monitoring and analysis, water and wastewater treatment, etc.



Sinotech Engineering Consultants,

Inc.

https://www.sinotech.org.tw/zh/

Company Profile

Sinotech Inc. has established in Taipei since 1970 and consistently provided a variety of services in the water engineering field. It covers flooding disaster monitoring. water reservoir safety assessment, chemical analysis for water and soils, etc.

Product Description

Environmental Examination (Qualified Environmental Examination Institute)

Laboratory is certified by the Environmental Protection Administration Taiwan as a qualified examination institute.

Hydraulic Analysis Model

Hydraulic analysis model and related software (SEC-HY21) are developed using computation fluid dynamics and computation hydraulics technologies.



Taiwan Water & Soil Instrumentation, Inc.(TWSI)

http://www.hycom.com.tw/newweb/indexc.htm

Company Profile

Founded at 1979, Specialized in designing and manufacturing innovative equipment for water and soil monitoring, We developed series of revolutionary instrument to provide solutions for growing demands of water and soil resource management and problems due to flood.

Product Description

Key of Successful Water IoT Real Digital Sensing of Flood Water / Sludge Level Profiling Sluice-gate Opening

Precision Sensors **Digital Wire Extensometer** Smart Remote Monitoring Early Warning Systems Low Power Transmitters **Community Based Smart Monitoring Panel**



Exhibitor Profiles

Taiwan Water Corporation

https://www.water.gov.tw/

Company Profile

Taiwan Water Corporation is a large water supply company in the world, which produces in excess of 8.8 million M3 of water every day to supply to approximately 18 million people nation-wide.

Product Description

The technique, products and service that Aqua A-Team. Taiwan (AATT) can provide.

1 Engineering Planning & Design 2 Engineering Construction **3Water Purification & Desalination** 4 Pipelines & Valves 5 Pumps & Electric Machinery



6 Monitoring Instruments and Automatic Systems 7 Smart Water Meters



TRUE TEN INDUSTRIAL CO LTD

http://www.trueten.com.tw/web/

Company Profile

True Ten Industrial Co, Ltd. Was established in 964 in Taichung City, Taiwan. It was engaged in freeze engineering in the early stage, also devoted to shoes machine R&D at the decade of 1964.

Product Description

circulating type hydraulic power equipment

This innovation is a circulating type hydraulic power equipment. It containments drive device and a hydraulic power machine and a recirculation bucket.



Water Culture in New Era International Forum 2020

Taolin Digital Surveying Engineering Co., Ltd.

http://www.taolin.com.tw/

Company Profile

Established in the 1994. Based on professional services and superior quality, We follow strict quality control, latest technology adoption and perfect support services as our philosophy.

Product Description

We integrate drone into water conservancy and Internet of Things (IoT). When drone perform flight missions, it can receive the sensing data from water conservancy IoT device through the wireless sensor on drone.







UnaBiz

www.unabiz.com

Company Profile

UnaBiz is an end-to-end Internet of Things(IoT) solutions company dedicated to accelerate the adoption of IoT worldwide.

Product Description

The Meter Interface Unit(MIU)

For Taipei Water Department(TWD) uses Sigfox IoT technology and Automatic Meter Reading (AMR) to read the data of water meter transmitting directly to AMR. The data is compressed by AMR, transmitted to UnaBiz cloud via Sigfox network.



United Geotech, Inc.

http://vip.arch-world.com.tw/65709.html

Company Profile

Founded in 1982 and provided technical service including project management, investigation, etc. After steady growth for the last 30 years, United Geotech ,Inc. has evolved from a geotechnical engineering specialty consultant firm into a general consulting corporation.

Product Description

Service

1. Geotechnical Engineering

2. Design, Construction Supervision & Rehabilitation of Tunnels

3. Engineering Geology, Site Investigation & Geophysical Prospecting

4. Hydraulic Engineering, Soil & Water Conservation

5. Transportation Engineering

6. Project Management



聯合大地工程顧問股份有限公司 UNITED GEOTECH, INC.

United Water, Ltd.

http://www.uniwater.com.tw/

Company Profile

United Water, Ltd. is a membrane-based integrated environmental solutions provider specializing in water and wastewater treatment, water supply and recycling.

Product Description

1. High mechanical strength& Permanently hydrophilic 2. Extreme pH and oxidant (including ozone) tolerance

torestore performance due to 3. Symmetric TIPS PVDF technology eliminates the

risk of delamination and minimizes the impact of abrasion



Water Resources Planning Institute, WaterResources Agency, Ministry of Economic Affairs

https://www.wrap.gov.tw/

Company Profile

We handles the following matters: 1.Surveys and system analysis of water resources 2.Surveys, investigation, planning 3.Investigation 4.Hydraulic experiment 5.Geologic drilling and survey

Product Description

Smart Allocation of Multiple Water Resources -3. Big The system integrates existing monitored data, and applies technics of big data analysis and AI. It aims at realtime dynamically monitoring and controlling regional water information and proposing the optimal operation strategy automatically through the system.



Exhibitor Profiles

Water Technology Alliance, NCTU

http://etss.nctu.edu.tw/apwpt/

Company Profile

The WTA will continue to carry out works on Founded in 2004, WaveGIS's core strength has been emphasizing on its diverse ranges of software and technical assistant and service. It is anticipated that the water purification technology applied in water hardware solutions. Since its inception, WaveGIS has resource industries in Taiwan and their international provided M2M, IoT, AloT products to support customers' competitiveness will be upgraded through WTA. distributed, integrated information technology frameworks.

Product Description

Water Technology Alliance

The mission of WTA encompass the enhancement of water purification technologies, such as drinking water treatment, industrial wastewater treatment and reclamation, and hot spring purification, in wateruse industries through industrial service, patent

development, etc.

Xiangsheng Machinery & Electric Industrial Co., Ltd.

Company Profile

XIANGSHENG MACHINERY & ELECTRIC INDUSTRIAL CO., LTD. was founded in 1976 and YongHo Pumps was established to be the brandof products. Adhering to the concept of quality, reigns supreme, quality and reputation are well knownin Taiwan.In 2017, YongHo Pumps expanded business to include the IoT research, devoted to improve the sensor and theremote monitoring systemfor making ourpumpsmore reliable.

Product Description

Self-priming Pump

The self-priming pumpcan be equipped with diesel engine or motor for drainage. Newly designed bearing system makes the pump modular, which can match different deceleration methods.UsingIoT to build up the connectionamong the hardwaresided, the network-sided, and the application-sided.

58

Memstar MBR unexpected fouling

Water Culture in New Era International Forum 2020

WaveGIS Technology Co., Ltd.

http://www.wavegis.com.tw/

Company Profile

Product Description

IoT transmission recorder

The Device has been designed to transmit IoT aggregated sensor data having low power consumption, long range transmission and smart computing capabilities based upon industrial open standard interfaces.

Pavilion of Taiwan Water Industries 2020:

Conference Organization

Adviser

Organizer

Associate Organizer

Co-organizer

*BR:Brown, BL:Blue

<20> <37> <284> <611> <650> <935> <1032> <1503> <1551> <1552> <2025>

Water Culture in New Era

<28> <281> <537> <647> <915> <BR6> <BR7> <BR18> <BR21> <G1>

MEMO |

