



	Rose Kuru, Graduate Hydraulic Modeller, Stantec	<b>Building Belonging: Embedding DE&amp;I into the Future of Water Leadership</b> Simonah Ferreira		<ul style="list-style-type: none"> <li>- Bylaws</li> <li>- Access to interim funding</li> </ul>	Andrew Michl, Local Government Funding Agency
	<b>Winner of YWP/CIWEM Opportunities for YWP's</b> Olivia Calvert - Biosolids Disposal to Land Project	<b>Explore the FAIR (Flood: Aware, Informed, Resilient) Project</b> Olivia Dean		<b>Establishing financing lines</b> <ul style="list-style-type: none"> <li>- Onboarding a CCO within LGFA</li> <li>- Infrastructure Funding and Finance</li> </ul>	Fiona Doddrell and Scott Whyman - Westpac
	<b>GIS tools such as dashboards and heat maps to significantly reduce the number of blockages and overflows across Christchurch through proactive maintenance</b> Wade Zervos – City Care Water	<b>Importance of connecting with the STEM community/ How you can create your own authentic networking style to help with career growth</b> Kelly Cokorudy - Stantec		<b>Treasury and Banking requirements</b>	Sam Ketley - Aon
	<b>Digital Transformation – embracing past approaches</b> Brendon Harkness and Jennifer Schierhout – Watercare Services	<b>Different chartership pathways</b> India Eiloart - Taumata Arowai (Water Services Regulator)		<b>Insurance</b>	Mike Chatterley, MartinJenkins
				<b>Modelling for revenue sufficiency</b> <ul style="list-style-type: none"> <li>- Revenue and end user pricing forecasts</li> </ul>	
			<b>11:20</b>	<b>Building the CCO – IT and Asset Management IT systems and processes</b> <ul style="list-style-type: none"> <li>- What is required on day 1?</li> <li>- Maintaining optionality into the future</li> </ul>	Rebecca Chenery, Bluebeacon
				<b>Asset Management systems and processes:</b> <ul style="list-style-type: none"> <li>- What is required on day 1?</li> <li>- Asset data standards</li> </ul>	Ross Waugh – Waugh Infrastructure Management
			<b>11:50</b>	<b>Sharing my lived experiences as CEO from Urban Utilities, Queensland</b> <ul style="list-style-type: none"> <li>- How did we capture the benefits of reform?</li> <li>- Risk management</li> <li>- What would we have done differently?</li> </ul>	Louise Dudley, Aurecon with Deborah Lind
<b>12:00</b>	<b>LUNCH ROOM: WAITAKI, TE PAE</b>				
			<b>12:20</b>	<b>LUNCH ROOM: WAITAKI, TE PAE</b>	
			<b>12:55</b>	<b>Selwyn District Council's proposed CCO</b> <ul style="list-style-type: none"> <li>- Independent Board, and appropriate skills matrix</li> <li>- What partnership principles are required between the CCO and Shareholding Council(s)</li> <li>- Pre-conditions for asset disaggregation and transfer</li> <li>- Building a commencement day balance sheet</li> <li>- General observations and hot points to look out for</li> </ul>	Murray Strong, Establishment Chair, Selwyn CCO
<b>1:00</b>	<b>Girls who Grow</b> Greer Brader and Charlotte Macauley				
			<b>1:15</b>	<b>Keeping everything going, and moving towards lifting capability and increasing investment – Two-Part Panel</b>	
<b>1:30</b>	<b>Thirsty Work! How Can We Reduce NZ's Water Use?</b> Facilitator: Andre Bresler, GHD – Tackling climate change and extreme weather challenges in the context of NZ Water				
				<b>Procurement: Lifting investment in water is a desired outcome of the LWDW programme.</b> <ul style="list-style-type: none"> <li>- What contracting models are required to achieve the best outcomes in terms of delivery efficiency, value for money and wider community benefits?</li> <li>- Do different contracting models work well for small, medium and large water organisations?</li> <li>- What is required to enable a step change in capital works and renewal programme delivery?</li> </ul>	Martin Hennessey, Stantec UK Emma Brand, Veolia Chris French, Relier Mair Brooks, KPMG
			<b>1:55</b>	<b>Workforce: it's the people, the people, the people</b> <ul style="list-style-type: none"> <li>- Organisation build – staff transfer and recruitment</li> <li>- Continuing role for Territorial Authorities in water</li> <li>- Critical people/teams for day 1</li> <li>- Bringing together different organisations and building a new and united culture</li> </ul>	Sarah Baddeley - MartinJenkins with Gillian Blythe - Water New Zealand
			<b>2:15</b>	<b>AFTERNOON TEA – ROOM: WAITAKI, TE PAE</b>	
			<b>2:30</b>	<b>Customer and stakeholder engagement – Two-Part Panel</b>	
				<b>Customers</b> <ul style="list-style-type: none"> <li>- When will the CCO directly bill?</li> <li>- Who will drive the transition from rates to charges? And any price harmonisation?</li> <li>- When will meters be introduced?</li> <li>- What changes are required for development contributions/levies?</li> <li>- Who will customers call with billing, payments, service needs?</li> <li>- What processes do you need to build a good relationship with your customers?</li> </ul>	Julie Muir, Central Otago DC Kalina Shipkov, Utilities Disputes
<b>3:00</b>	<b>AFTERNOON TEA CONWAY FOYER, TE PAE</b>				
			<b>3:00</b>		

3:15	<p><b>Fireside chat with a senior professionals</b>                  Becky MacDonald, Jacobs                  Robert Bos, IWA</p>	<p><b>Stakeholder engagement:</b></p> <ul style="list-style-type: none"> <li>- How do you approach information sharing with your shareholders?</li> <li>- Building a relationship with mana whenua as Treaty Partner</li> <li>- What is your approach to engaging with communities?</li> <li>- What information will you share with the supply chain, e.g. forward investment plans?</li> <li>- What is your engagement approach with Central Government</li> <li>- How will you manage your relationship with the media?</li> </ul>	Meg Wiltshire, Watercare  Todd Moyle - Ngai Tahu
		3:30	Wrap Up
		3:40	Closing Karakia
3:45	YWP Preconference Workshop Close		
4:00-6:00	<b>IWA INTERNATIONAL VISITOR WELCOME FUNCTION - INVITE ONLY</b> <b>DOUGLAS LILBURN AUDITORIUM, TOWN HALL</b>		
6:00	<b>AURECON YWP DRINKS AND NIBBLES FUNCTION - CONWAY FOYER, TE PAE</b>		

**DAY ONE (TUESDAY, 30 SEPTEMBER 2025)**

7:30	<b>REGISTRATION OPENS TE PAE</b>													
8:30	<p><b>OPENING CEREMONY, VENUE: DOUGLAS LILBURN AUDITORIUM, TOWN HALL</b></p> <p>Mihi Whakatau: Ngai Tuahuriri</p> <p>Tim Gibson, President - Water New Zealand                  Co-chair Marion Savill – IWA New Zealand Chair                  Asari Daud - Vice president - IWA                  Co-chair Gillian Blythe – CE, Water New Zealand</p> <p>Welcome delegates to the 10<sup>th</sup> IWA ASPIRE Conference and Water New Zealand Conference &amp; Expo</p>													
8:45	<p><b>INDIGENOUS COMMUNITIES AND WASH GOVERNANCE MODELS - VENUE: DOUGLAS LILBURN AUDITORIUM, TOWN HALL</b></p> <p>Plenary session theme:</p> <ul style="list-style-type: none"> <li>• Strengthening governance, capacity and technology for drinking water and sanitation services to and by indigenous communities.</li> <li>• What is the experience with governance models for WASH services meeting the needs of indigenous communities?</li> <li>• How can nature-based solutions, circular approaches and bio-engineering in support of water and sanitation services be enhanced by indigenous knowledge, concepts and practice?</li> <li>• And what capacity development approaches to strengthen indigenous community participation in the delivery of WASH services are needed to optimize the combination of innovative technology and traditional environmental management?</li> </ul> <p>Plenary Chair: Soltice Morrison</p> <p>Format:                  Keynote speaker: Professor Te Maire Tau - Ngāi Tahu, New Zealand                  Keynote speaker: Susheel Arora - Atlantic First Nations Water Authority, Canada                  Keynote speaker: Ms. Nina Braid - Yarra Valley Water, Australia                  Keynote speaker: Commissioner Susan Chiblow - Canada                  Keynote speaker: Professor Jiuhui Qu - China</p>													
10:40	<p><b>MORNING TEA – EXHIBITION AREA, TE PAE</b></p> <p><b>DAY ONE IWA-ASPIRE POSTER SESSIONS – CHRISTCHURCH TOWN HALL</b>  <a href="#">Click Here for Complete List</a></p>													
	<p><b>RISK &amp; RESILIENCE: DEALING WITH EMERGING CHEMICALS AND MICROBES</b>                  VENUE: TOWN HALL, LIMES ROOM</p>	<p><b>RISK &amp; RESILIENCE: PREPAREDNESS FOR SEISMIC AND VOLCANIC ACTIVITY, AND FOR WILDFIRES</b>                  VENUE: TOWN HALL, AVON ROOM</p>	<p><b>RISK &amp; RESILIENCE: DEVELOPMENTS IN THE MANAGEMENT OF OUTFALLS</b>                  VENUE: TE PAE, CONWAY 3</p>	<p><b>SMART SOLUTIONS: PROMOTION OF WATER REUSE (POTABLE RE-USE, RE-USE FOR AGRICULTURE AND INDUSTRY) AS PART OF THE</b></p>	<p><b>COMMUNITIES: EXPLORING THE POTENTIAL OF COMMUNITY-BASED/CITIZEN SCIENCE</b>                  VENUE: TE PAE, CONWAY 1</p>	<p><b>COMBINED WORKSHOPS</b>                  VENUE: TOWN HALL, VICTORIA ROOM</p> <p>INDIGENOUS COMMUNITIES WORKSHOP</p>		<p><b>THOUGHT LEADERSHIP: CONSUMERS AND CONSUMER ENGAGEMENT</b>                  VENUE: TE PAE, AUDITORIUM 1 &amp; 2</p>	<p><b>WASTEWATER – BIOSOLIDS</b>                  VENUE: TE PAE, AUDITORIUM 3 &amp; 4</p> <p>Session Chairs: Steve Hutchison and Stephen Burton</p>	<p><b>PEOPLE AND COMMUNITY</b>                  VENUE: TE PAE, CONWAY 5</p> <p>Session Chairs: Robin Walker and Emily Botje</p>	<p><b>CLIMATE CHANGE</b>                  VENUE: TE PAE, WAITAKI</p> <p>Session Chairs: Jon Reed and Maddy Hopkirk</p>	<p><b>DRINKING WATER</b>                  VENUE: TE PAE, RAKAIA</p> <p>Session Chairs: David Hogg and Nicola Haszard</p>	<p><b>ASTT</b>                  VENUE: TE PAE, CONWAY 4</p> <p>Session Chair: Blair Telfer</p>	<p><b>SPECIAL INTEREST GROUPS</b>                  VENUE: TE PAE, BEALEY 4 &amp; BEALEY 5</p>

	Session Chair: Karina Gin	Session Chair: Daisuke Sano	Session Chairs: Gen-Shuh Wang and John Kofi Crentsil	<b>CIRCULAR ECONOMY AND RESOURCE RECOVERY</b> VENUE: TE PAE, CONWAY 2  Session Chairs: James Goode and Elizabeth Lawson	Session Chairs: Jordin Payne and Laura Huber			Session Chair: Amanda Singleton						
11:10	MANAGEMENT OF TASTE AND ODOR RISK IN A DRINKING WATER RESERVOIR USING MULTIPLE MONITORING METHODS Tsair-Fuh Lin - National Cheng Kung University	SEISMIC RESILIENCE EVALUATION AND VISUALIZATION METHOD FOR SEWER NETWORKS Tetsuro Goda - Tokyo Metropolitan Sewerage Service Corporation	OPTIMISING WASTEWATER DETENTION STORAGE DESIGN TO ENHANCE ENVIRONMENTAL PERFORMANCE OUTCOMES Steve Carne - Taonga Water Advisory Limited and Nathan Malcolm - GHD	AN ADVANCED PLANT FOR MUNICIPAL WASTEWATER TREATMENT AND REUSE Claudio Di Iaconi - Water Research Institute of Italian National Research Council	SMART AND INCLUSIVE NRW MANAGEMENT FOR RESILIENT WATER SERVICES IN METRO MANILA Joanna Reyes - Maynilad Water Services Inc.	<p><b>PART 1: MANA WHAKAHAERE - GOVERNANCE AND INDIGENOUS COMMUNITIES</b></p> <p>How are indigenous communities able to make decisions that maintain, protect, and sustain the health and well-being of, and their relationship with, freshwater, and equitable access to drinking water, wastewater, and stormwater services?</p> <p>Participants will learn about different water governance frameworks from across the region.</p> <p>How do these frameworks for water and sanitation services meet the needs of indigenous communities?</p> <p>How to incorporate aspects of them into their work by learning from real world examples.</p>	11:10	INSIGHTFUL ENGAGEMENT - TUNING INTO CUSTOMER, COMMUNITY, CITY VOICES Priya Thurai - Watercare Services	DEVELOPING AND IMPLEMENTING DUNEDIN'S INTERIM SLUDGE STRATEGY TO BUY TIME Kirsten Norquay - Stantec	OFFICIAL INFORMATION - A TOOL FOR EFFECTIVE WATER DECISIONS Lucinda King and Mothla Majeed - Dentons New Zealand	HIDDEN IMPACTS OF SEA-LEVEL RISE: IMPLICATIONS FOR SHALLOW GROUNDWATER AND COASTAL INFRASTRUCTURE Amandine Bosserelle - University of Canterbury	★ CONSISTENT AND DEFENSIBLE: A NEW APPROACH TO CHLORINATION DECISIONS Abby Barry - Watercare Services Limited, Thomas Davies and Emma Gibbs - Beca	★ SUSTAINABILITY IN TRENCHLESS CONSTRUCTION: ADVANCING LOW-CARBON INFRASTRUCTURE Fawaaz Farook - WSP	<p><b>NATURE-BASED SOLUTIONS FOR STORMWATER - TOOLS FOR COMPELLING BUSINESS CASES</b> Stormwater Special Interest Group VENUE: TE PAE, BEALEY 4 &amp; BEALEY 5</p> <p>Peter Christensen - Storm Environmental</p>
11:30	HARNESSING MICROBIAL ENZYMES TO DEGRADE CONTAMINANTS OF EMERGING CONCERN: BUILDING RESILIENT WASTEWATER SYSTEMS Boyu Lyu - University of Auckland		APPLICATION OF END-MEMBER MIXING ANALYSIS TO ESTIMATE TERRESTRIAL SOURCES CONTRIBUTION TO NUTRIENT CONCENTRATIONS IN COASTALWATERS Yiyue Li - Hiroshima University	LUTRATV INDUSTRY KNOWLEDGE FOR ALL John Wilson - Lutra Limited	DRINKING WATER INFRASTRUCTURE DEFICIT AND INEQUITIES IN NEW ZEALAND: POTENTIAL PUBLIC HEALTH IMPLICATIONS Brittany Meafou - University of Canterbury		11:40	HOW AN EFFECTIVE COMPLAINT HANDLING SYSTEM WILL IMPROVE YOUR CHANCES OF SUCCEEDING AS A WATER PROVIDER Neil Mallon - Utilities Disputes	UNDERSTANDING THERMAL BIO-SOLIDS TREATMENT OPTIONS - A COOKS GUIDE TO AVOIDING STRANDED ASSETS Chris Conway - Beca Hunter H2O	IMPORTANCE OF COLLABORATION ACROSS ORGANISATIONS IN EARLY CAREER Kelly Cokorudy - Stantec and Miranda Graham - Watercare Services	WATER STEWARDSHIP IN DAIRY MANUFACTURING - A HOLISTIC APPROACH Bipan Bansal - Fonterra	★ CHALLENGES FACING SMALLER (<500) DRINKING WATER SUPPLIERS Deborah Prus-loughlin - White International and Helen Rutter - Lincoln Agritech	PORTS OF AUCKLAND CULVERT RENEWAL Dean Carter - McConnell Dowell	
11:50	EFFORTS IN EUTROPHICATION MITIGATION MAY NOT REDUCE THE OFF-FLAVOR RISKS IN SOURCE WATER LAKES/RESERVOIRS Su Ming - Research Center for Eco-Environmental Science, Chinese Academy of Sciences		NOVEL SELECTIVE DEGASSING SYSTEM BY USING FLOW-VOLTAIC ACID/BASE ELECTRODIALYSIS WITH MEMBRANE CONTACTOR IN CCUS PROCESS Seonkyu Lee - Korea University	MECHANISTIC INSIGHT INTO ACTIVATED CARBON-BASED FLOW-ELECTRODE CAPACITIVE DEIONIZATION (FCDI) FOR AMMONIUM RECOVERY FROM MUNICIPAL WASTEWATER Fahrudin Sidik - Chung Yuan Christian University	CATCHMENT IF YOU CAN: CITIZEN-SCIENCE RESTORING LYTTLETON HARBOUR Eliza Cowey - Aecom		12:10	PANEL DISCUSSION facilitated by Amanda Singleton  Lisa Hannifin - Meridian Energy	★ FUTURE OF ADVANCED DIGESTION WITH MHP - BENEFITS AND FEASIBILITY	VISUALS TO ACTION: TE PUNA WAIORA O NUKUTAUROA (A VISUAL STORY OF MĀHIA FRESHWATER PLAN) Aimee Dawson - WSP	SOUTH DUNEDIN FUTURE: OUTLINING THE CASE FOR CHANGE Katherine Cowper-heays - Tonkin + Taylor	★ PĀTEA GAVE US POI E - WE SHOULD GIVE PĀTEA BETTER WATER! Philip La Roche - Beca	ADVANCED JACKING PIPE SOLUTIONS INSTALLING DUCTILE IRON PRESSURE PIPE Todd Randall - Hynds	
12:10					INFLUENCERS: CAPITALISING ON A WINDOW OF OPPORTUNITY FOLLOWING FLOOD EVENTS Nancy Baines - Auckland Council		<p>In Te Reo Māori mana whakahaere means governance.</p> <p><b>Session Chair:</b> Mereana Taungapeau -</p>							

12:30 3- Minute Poster Pitches	DEVELOPMENT OF A SIMPLE ANALYTICAL METHOD FOR DETECTION OF LEGIONELLA SPP. USING DNA APTAMERS Kanji Nakao - Hokkaido university	DEVELOPMENT OF RESTORATION TECHNOLOGY OF SEWER PIPES CLOGGED BY VOLCANIC ASHES, ETC. Toru Inami - Tokyo Metropolitan Government	SOLUTIONS FOR MINIMIZING THE IMPACTS OF WATER POLLUTION IN THE CZECH REPUBLIC Tomáš Fojtík - T. G. Masaryk Water Research Institute, Public Research Institution	SAFEGUARDING SINGAPORE'S WATER FUTURE – INTEGRATED WATER MANAGEMENT AND EMBRACING WATER REUSE Chee Meng Pang - PUB, Singapore's National Water Agency	ENVIRONMENTAL LEACHING OF GRAVEL-RUBBER MIXTURES FOR USE IN FOUNDATION APPLICATIONS: INSIGHTS FROM BATCH TESTS Milan Sedai - University Of Canterbury	aiwhakahaere (Taiao/Moana) plus co-chair Te Ama   Aukaha te Wai, Water New Zealand Special Interest Group  Te Ama – the outrigger- aukaha te wai - that strengths and reinforces us - the wai, our kaupapa and mahi.		Jess Walker – Consumer New Zealand  Jake Lilley – FinCap  Emma Brand - Veolia	Gokul Bharambe - Jacobs							
	THE EFFECT OF TIRE MICROPLASTICS ON MICROBIOME OF AEROBIC GRANULAR SLUDGE Agnieszka Cydzik-Kwiatkowska - University Of Warmia And Mazury In Olsztyn	THE SELECTION OF FLEXIBLE EXPANSION PIPE FOR PIPELINE ATTACHMENT TO BRIDGES AND MATERIAL TESTING METHOD Pinglin Yang - Taipei Water Department	INVESTIGATING THE ATTENUATION OF CSO-DERIVED E. COLI IN THE SUMIDA RIVER ESTUARY USING MODEL-ASSISTED APPROACH Chomphunut Poopipattana - Chuo University	UTILISING DIGITAL TWIN FOR WATER SUSTAINABILITY IN THREE WATERS SYSTEM Mehwish Qureshi – Massey University	WAI ORA, KAINGA ORA: LIVING COMMUNITY WATER STEWARDSHIP IN AOTEAROA Stephen Lee - Purangakura Ltd		<b>Panellists:</b>  Gabrielle Huria - Chief Executive - Te Kua Taka Pini, Ngai Tahu, New Zealand  Phil Duncan - Galambany Professorial Fellow - University of Canberra, Gomeroi Nation, Australia  Susheel Arora - Atlantic First Nations Water Authority, Canada  Dr. Susan (Sue) Bell Chiblow is Anishinaabe, born and raised in Garden River First Nation, Canada									
	THE ATTACHMENT CHARACTERISTICS OF CYANOBACTERIA ON PLASTIC SURFACES IN RIVER ECOSYSTEMS Jiwon Han - Konkuk University	ESTABLISHMENT OF NATURAL DISASTER RECOVERY SYSTEM FOR KOREAN ENVIRONMENTAL TREATMENT FACILITIES USING THE CONSTRUCTION VULNERABILITY Younghan Yoon - Korea Institute of Civil Engineering and Building Technology	ANALYSIS OF COLIFORM GROUPS IN DIFFERENT WATER BODIES Pao-Wen (Grace) Liu - Chung Hwa University of Medical Technology	WATER RECLAMATION USING 3D-PRINTABLE CERAMIC MEMBRANE FROM HYDROSODALITE DERIVED FROM FLY ASH Mithilesh Pasawan - National Taipei University of Technology (TAIPEI TECH)	CO-DEVELOPMENT OF A MARAE ONSITE NATURE-BASED WASTEWATER TREATMENT SYSTEM Rupert Craggs - National Institute Of Water And Atmospheric Research											
12:40	LUNCH – EXHIBITION AREA, TE PAE															
1:00	<p style="text-align: center;"><b>INNOVATION FORUM - VENUE: TE PAE, AUDITORIUM 1 &amp; 2</b></p> <p style="text-align: center;">BUILD BIG - NEW ZEALAND'S CENTRALISED PERFORMANCE DATABASE FOR MAJOR CONSTRUCTION PROJECTS Christopher McGillivray - University of Canterbury</p> <p style="text-align: center;">POROUS LANE PERMEABLE PAVING Klaudia Matyjas - Watersmart</p> <p style="text-align: center;">HYDRO SYNERGY LIMITED HAS AN INNOVATIVE AND SUSTAINABLE SOLUTION FOR MANAGING ALGAE Ric Church - Hydro Synergy limited</p> <p style="text-align: center;">THE ENPHYTOBOX® IS A GROUNDBREAKING, MOBILE, NATURE-BASED WATER TREATMENT TECHNOLOGY Phoebe Tinning - Syrinx Environmental NZ Ltd</p> <p style="text-align: center;">THE INVENT BIOLOGICAL WASTEWATER TREATMENT SOLUTION IS A CONTINUOUSLY FED VERSION OF THE WELLKNOWN SBR SYSTEM CALLED ISBR Sven Hartos - McConnell Dowell</p> <p style="text-align: center;">SMARTWAI IS A SMART, AI-POWERED PLATFORM DESIGNED TO HELP HOUSEHOLDS AND SMALL BUSINESSES MONITOR, PREDICT, AND OPTIMISE THEIR WATER USAGE IN REAL TIME Mohammad Al-A'raj – WSP</p> <p style="text-align: center;">One Year On...</p> <p style="text-align: center;">TE TAI TOKERAU COMMUNITY TESTING HUB PILOT – Chris Bishop - Bactosure</p>															
	<b>RISK &amp; RESILIENCE: DEALING WITH EMERGING CHEMICALS AND MICROBES</b> VENUE: TOWN HALL, LIMES ROOM  Session Chair: Joan Rose	<b>RISK &amp; RESILIENCE: REMEDIATION, BIOSENSORS, POLLUTION CONTROL, MANAGING PATHWAYS FOR MICROBIAL CONTAMINATION</b> VENUE: TOWN HALL, AVON ROOM	<b>GOVERNANCE, POLICIES AND INSTITUTIONS: SUSTAINABILITY &amp; THE SDGS – RESEARCH PRIORITIES IN WATER AND SANITATION POST-2030</b>	<b>SMART SOLUTIONS: AFFORDABLE INPUTS FOR EFFICIENT OUTCOMES</b> VENUE: TE PAE CONWAY 2	<b>SMART SOLUTIONS</b> VENUE: TE PAE, CONWAY 1  Session Chairs: Liang-Ming Whang and Phillip Meng	<b>COMBINED WORKSHOPS</b> VENUE: TOWN HALL, VICTORIA ROOM		<b>THOUGHT LEADERSHIP: ECONOMIC REGULATION AND LOCAL WATER DONE WELL</b> VENUE: TE PAE, AUDITORIUM 1 & 2	<b>WASTEWATER – BIOSOLIDS IN THE FUTURE</b> VENUE: TE PAE, AUDITORIUM 3 & 4  Session Chairs: Matt Dawson and Wally Potts	<b>DIGITAL INFORMING ASSET MANAGEMENT</b> VENUE: TE PAE, WAITAKI  Session Chairs: Anna Bridgman and Molly Quirke	<b>WATER SECURITY &amp; RESILIENCE</b> VENUE: TE PAE, RAKAIA  Session Chairs: Beth Parkin and Fiona Vessey	<b>RURAL AND SMALL WATER SUPPLIES</b> VENUE: TE PAE, CONWAY 4  Session Chairs: Geof Stewart and Amy Patterson	<b>HIGHLIGHTING OUR SIGS - BEST PAPERS FROM SIG CONFERENCES</b> VENUE: TE PAE, CONWAY 5  Session Chair: Katrina Guy	<b>SPECIAL INTEREST GROUPS</b> VENUE: TE PAE, BEALEY 4 & BEALEY 5		

		Session Chairs: Marion Savill and Seonkyu Lee	VENUE: TE PAE CONWAY 3  Session Chairs: Robert Bos and Vasco Tuwon Maseh	Session Chair: Hsin-Hsin Tung and Chelsea Grove				Session Chair: Petra Carey						
2:00	RISK CONTROL OF ANTIMICROBIAL RESISTANCE IN HOSPITAL WASTEWATER BY OZONATION Dongbeom Im - Kyoto University	DEVELOPMENT OF APTAMER-BASED SENSOR FOR HUMAN NOROVIRUS DETECTION IN WATER Andri Rachmadi ESR, New Zealand	COSTING SAFELY MANAGED AND CLIMATE-RESILIENT RURAL SANITATION SYSTEMS: A LIFE-CYCLE ANALYSIS IN LAO PDR Alejandro Medina Valenzuela and Naomi Carrard - University Technology Of Sydney-Institute for Sustainable Futures	AI-BASED PRECISION COAGULATION DOSING SYSTEM DEVELOPMENT Chih Hsien Lin - Taiwan Water Corporation	FINDING NOTHING, FINDING SOMETHING: TESTING LARGE VOLUMES OF GROUNDWATER FOR EVIDENCE OF HUMAN INFECTIVE VIRUSES. Brent Gilpin - ESR Labs	PART 2: KAITIAKITANGA AND MĀTAURANGA – INDIGENOUS COMMUNITIES SUPPORTING THE GUARDIANSHIP AND PROTECTION OF WATER THROUGH SHARING OF INDIGENOUS KNOWLEDGE, CONCEPTS AND PRACTICES  How can nature-based solutions, circular approaches and bioengineering in support of water and sanitation services be enhanced by indigenous knowledge, concepts and practice?  Participants will learn about how there can be environmental enhancement/restoration across water, wastewater and stormwater services from working with indigenous communities on nature-based solutions/circular economy/bioengineering, and how to incorporate aspects of them into their work by learning from real world examples.  In Te Reo Māori kaitiakitanga means guardianship and protection; Mātauranga means knowledge.	2:00	WATERCARE'S CAPITAL DELIVERY AND ASSET MANAGEMENT IMPROVEMENT PLANS UNDER THE CHARTER Mark Bourne Watercare Services	ELECTRIFYING OPPORTUNITIES – KEY DEVELOPMENTS IN TREATING WASTEWATER SLUDGES WITH ELECTROLYSIS Chris French - Inside Out LLC	ADVANCED ANALYTICS FOR SMARTER WATER INFRASTRUCTURE INVESTMENT: LESSONS FROM SYDNEY WATER Caitlin Borgfeldt - Aurecon	EVERY DROP COUNTS: UNLOCKING THE TRUE ECONOMIC VALUE OF WATER CONSERVATION IN NEW ZEALAND Alexandra Humphrey Cifuentes - Frontier Economics	★ ACHIEVING COMPLIANCE - A PRACTICAL APPROACH FOR VERY SMALL DRINKING WATER SUPPLIES IN NEW ZEALAND Matthew Woodfield - Fulton Hogan	Stormwater SIG FITTING HUMAN STORIES INTO A MATRIX: AUCKLAND FLOOD RECOVERY Thomas Nikkel – WSP and Gina Nicholas - Woods	MANY VOICES, FLOWING FORWARD: RE-IMAGINING THE WATER SECTOR Diversity, Equity and Inclusion (DEI) Special Interest Group VENUE: TE PAE, BEALEY 4 & BEALEY 5  Deborah Lind – Water New Zealand
2:20	TREATMENT OF RESTAURANT WASTEWATER USING CHLORELLA VULGARIS IN BUBBLE COLUMN PHOTOBIOREACTOR Norhayati Abdullah - Universiti Teknologi Malaysia	DETECTION OF RIVER WATER CONTAMINATION USING EXCITATION-EMISSION MATRIX FLUORESCENCE SPECTROSCOPY AND MACHINE LEARNING TOOLS Cecilia Burzio - The University Of Tokyo	NANTRA: COAGULANT FREE MEMBRANE TECHNOLOGY Jamie Gilbert and Mark Forbes - Akvotek	OPERATIONALISE D WASTEWATER NETWORK MODELS USING MACHINE LEARNING Chris Park and Nathan Donald - Mott Macdonald	2:30		HOW THE SYSTEMS, PROCESSES AND BEHAVIOUR CHANGE HAS DELIVERED POSITIVE RESULTS FOR THE AUSTRALIAN WATER SECTOR Tammy Falconer - KPMG	BIOSOLIDS USE & PFAS: A RAPIDLY CHANGING ENVIRONMENT Bernadette Drouhard - Black & Veatch	★ REVOLUTIONISING FIJI'S WATER ASSET INFORMATION MANAGEMENT: PRECISION THROUGH INNOVATION Haya Aljrayed - Beca	★ UNDERSTANDING DRIVERS OF WATER SECURITY DURING DROUGHTS Sarah Innes - Watercare Services Limited	★ DRINKING WATER SAFETY PLAN TEMPLATES AND STANDARD DESIGNS FOR SCHOOL WATER SUPPLIES Bridget O'Brien -WSP and Robert van Bentum - Ministry of Education	Modelling SIG BEYOND THE STORM: LESSONS FROM THE 2023 AUCKLAND ANNIVERSARY STORM Elliot Egan – Hal Consulting and Cheryl Bai – Auckland Council		
2:40	HIGH-STABILITY GRANULAR ADSORBENTS FOR IN-SITU ANTIBIOTIC DEGRADATION IN WASTEWATER TREATMENT Muhammad Wahyu Nugraha Rmit University	COMBINE NANOBUBBLE AND CHLORINE DIOXIDE FOR BIOFILM REMOVAL IN WATER DISTRIBUTION PIPES You-Zhu Chen and Hsin-hsin Tung - National Taiwan University	EXTENDING ACTIVATED SLUDGE WET WEATHER TREATMENT CAPACITY USING DENSIFIED ACTIVATED SLUDGE Charles Mellish – Stantec and Kevan Brian – Watercare Services	SOLUTIONS FOR STABILIZING PRESSURE OF WATER SUPPLY PIPE NETWORK AND ENERGY SAVING AT PUMPING STATION Chia-jung Chou - Taipei Water Department	3:00		PANEL DISCUSSION facilitated by Petra Carey – Russell McVeagh  Tim Hewitt Principal Adviser - Commerce Commission  Andrew Kerr – Alpine Energy  Jeremy Cain – Concept Consulting	A CLEAR LINE OF SIGHT – MAKING SUSTAINABILITY BAU AT BELL ISLAND Sarah Browne – GHD and Nathan Clarke - NRSBU	RANFURLY GULLY, A 'SIMPLE' PROJECT Ryan Orr - Ghd	FLOOD RESILIENCE FOR SMALL COMMUNITIES USING CULTURALLY AND SUSTAINABILITY FOCUSED DESIGN THINKING Reiko Baugham and Molly Quirke - GHD	★ RURAL DRINKING WATER: ADDRESSING WATER POVERTY IN RURAL AOTEAROA ONE SITE AT A TIME Rebecca Huckle - National Infrastructure Funding & Financing, Jaco Pienaar and Craig Freeman - Filtec	Backflow SIG DIGITISING BACKFLOW MANAGEMENT Andrew Bright - Waimakariri District Council		
3:00	ADVANCING COASTAL ECOSYSTEM RESILIENCE: A MULTI-PRONGED ASSESSMENT OF ANTIMICROBIAL RESISTANCE IN AQUACULTURE SYSTEMS Karina Gin - Department of Civil & Environmental Engineering, National University of Singapore,			RETHINKING NITRIFICATION KINETICS IN WASTEWATER SYSTEMS Craig White and Asher Beasley - Beca HunterH2O	ONLINE RESPONSE AND PREDICTION FOR ALGAE AND CYANOBACTERIA RISKS Jonathan Church and Cassandra Yang - Lutra		3:20	MICROPLASTICS AND PFAS: A DUAL	BAYESIAN NETWORKS FOR					
3:20				BENEFITS OF THE HOUSE-TO-HOUSE	AEROBIC DENITRIFICATION									

3-Minute Poster Pitches	THREAT TO WATER TREATMENT Zhiyong Xia - Ghd	AMR RELATIVE BURDEN ANALYSIS Carl Medriano - Sichuan University		SURVEY FOR NON-REVENUE WATER REDUCTION IN RURAL WATER SUPPLY IN RWANDA Innocent Ndagijimana — VEI B.V.	ENHANCED BY IMMOBILIZED SLOW-RELEASED IRON/ACTIVATED CARBON AQUAGEL TREATMENT OF LOW C/N MICROPOLLUTED WATER Haihan Zhang - Xi'an University of Architecture and Technology	<b>Session Chair:</b> Troy Brockbank, Te Mana o te Wai Lead, Beca (Te Rarawa, Ngāti Hine, Ngāpuhi, Ngātiwai, Ngāti Kahu). Former Water New Zealand Board member  <b>Panellists:</b> Donna Sutherland, Te Kura Taka Pini, New Zealand  Jordin Payne, Deputy Chair Yarrowarra Steering Committee and Principal Community Relationships, Water Corporation, Australia											
	RAPID IDENTIFICATION AND CHARACTERIZATION OF VIRULENT E.COLI STRAINS USING PHOTONIC TECHNOLOGIES COUPLED WITH MULTIOMIC ANALYSIS Pawel Wityk - Medical University of Gdansk	REMOVAL OF PFAS FROM RUNOFF WATER IN SOUTH BALTIC AREAS USING ELECTROCHEMICAL OXIDATION Sylwia Fudala-Ksiazek - Gdansk University of Technology	DIVERGENT EFFECTS OF NATURAL AND SOCIOECONOMICAL DRIVERS ON WATER USE IN CHINA FROM 2000 TO 2022 Wen Wang - The National Key Laboratory of Water Disaster Prevention, Hohai University, Nanjing, 210098	BIOFILM AND DENSIFIED SLUDGE RETENTION STRATEGY USING MIGRATING CARRIERS AND HYDROCYCLONES Richard Brice - World Water Works													
	RESISTANCE PROFILE OF ESCHERICHIA COLI CARRYING EXTENDED SPECTRUM B-LACTAMASES ISOLATED FROM MUNICIPAL WASTEWATER TREATMENT PLANTS Filip Gamoń - Gdansk University Of Technology	A NOVEL BIOASSAY APPROACH FOR THE PSEUDOMONAS QUINOLONE SIGNAL-QUORUM SENSING SYSTEM USING A PREDATORY BACTERIUM. Yuki Hoshiko - Kitasato University	NOVEL INSIGHT OF ORGANIC CHARACTERISTICS OF TYPICAL TERRESTRIAL PLANT LITTER AS POTENTIAL POLLUTION SOURCE TO WATERBODIES Xiaojin Wu - Tsinghua University, Beijing	ANALYZING ANTIBIOTICS REMOVAL IN CONSTRUCTED WETLANDS FOR LIVESTOCK WASTEWATER AND RUNOFF TREATMENT Yugyeong Oh - Kongju National University	A FRAMEWORK OF WATER SECURITY INCORPORATING INDIGENOUS KNOWLEDGE PERSPECTIVE IN THE AMAZON REGION Juan Carlos Cueva Orjuela - National University Of Colombia		Kepa Morgan, Pou Hautu Managing Director, Mahi Maoro Professionals, New Zealand  Delma O'Kane - Kaitakwaenga, Ngati Manuhiri										
3:30	AFTERNOON TEA – EXHIBITION AREA, TE PAE																
	<b>RISK &amp; RESILIENCE: DEALING WITH EMERGING CHEMICALS AND MICROBES</b> VENUE: TOWN HALL, LIMES ROOM  Session Chair: Annalisa Contos	<b>RISK &amp; RESILIENCE: REMEDIATION, POLLUTION CONTROL, MANAGING PATHWAYS FOR MICROBIAL CONTAMINATION</b> VENUE: TOWN HALL, AVON ROOM  Session Chairs: Pao-Wen Liu and Lena Misiri	<b>SMART SOLUTIONS: SMART NETWORKS (SOURCE – CUSTOMER – DISCHARGE)</b> VENUE: TE PAE CONWAY 3  Session Chairs: Darryl Day and Ira Ryski Wahyuni	<b>SMART SOLUTIONS: REHABILITATION OVER REPLACEMENT</b> VENUE: TE PAE, CONWAY 2  Session Chairs: Brent Gilpin and Meng Sun	<b>RESILIENCE, GOVERNANCE, AND INNOVATION: TRANSFORMING WATER SYSTEMS FOR A CHANGING CLIMATE</b> VENUE: TE PAE, CONWAY 1  Session Chairs: Elaine Moriarty and Maria Wirth	<b>COMBINED WORKSHOPS</b> VENUE: TOWN HALL, VICTORIA ROOM		<b>THOUGHT LEADERSHIP: WATER SERVICES AUTHORITY – TAUMATA AROWAI</b> VENUE: TE PAE, AUDITORIUM 1 & 2  Session Chair: Jim Graham	<b>WASTEWATER - DIGITAL</b> VENUE: TE PAE, AUDITORIUM 3 & 4  Session Chairs: Kevan Brian and Gokul Bharambe	<b>WASTEWATER – TREATMENT INNOVATION</b> VENUE: TE PAE, CONWAY 5  Session Chairs: Matt Bismark and Eliza Cowey	<b>SUSTAINABILITY</b> VENUE: TE PAE, WAITAKI  Session Chairs: Mike Dunn and Nick Dempsey	<b>ASSET MANAGEMENT LEARNINGS</b> VENUE: TE PAE, RAKAIA  Session Chairs: Marty Cole and Teresa Wooding	<b>WATER NEW ZEALAND'S NEW TECHNICAL GUIDES</b> VENUE: TE PAE, CONWAY 4  Session Chairs: Lesley Smith	<b>SPECIAL INTEREST GROUPS</b> VENUE: TE PAE, BEALEY 4 & BEALEY 5			

4:00	ECONOMICALLY FEASIBLE PFOS TREATMENT ON DRINKING WATER BY COMBINING NANOFILTRATION OR ION EXCHANGE WITH VACUUM-UV Taiyo Akuto - Hokkaido University	ELUCIDATING THE CAUSES OF E. COLI CONCENTRATION INCREASE IN RECLAIMED WATER Ayaka Shinji - Hokkaido University	THE APPLICATION OF DISTRICT METERING AREA AND AUTOMATED METER READING IN WATER NETWORK LEAKAGE REDUCTION Yi-Yin Sung - Taipei Water Department	BRINE –SEEKING A SINGLE SOLUTION IS NOT NECESSARILY THE BEST APPROACH? Brendan Dagg - Beca	LEVERAGING AUSTRALIA'S WATER REFORM EXPERIENCE: A ROADMAP TO DRIVE LEGISLATIVE AND POLICY CHANGE Courtney Rogers - Ricardo	PART 3: RESILIENCE - CAPACITY OF INDIGENOUS COMMUNITIES TO SELF-SUPPLY AND SELF MANAGE/OPERATE  What capability and capacity development approaches to strengthen indigenous community participation in the delivery of WASH services are needed to optimize the combination of innovative technology and traditional environmental management?  Participants will learn about different approaches to capability and capacity development, and how to incorporate aspects of them into their work by learning from real world examples.	4:00	NGĀTI TOA - WATER TRAINING CENTER OF EXCELLENCE - AN IWI-LED SYSTEM RESET Helmut Modlik - Te Runanga o Toa Rangatira	REAL-TIME COMMUNICATION OF WASTEWATER OVERFLOWS: THE SAFESWIM EXPERIENCE Holly Foreman - Auckland Council	★ LAYING GROUNDWORK FOR PDNA: NEXT-GENERATION WASTEWATER TREATMENT IN NEW ZEALAND Louis Ortenzio and Song Li - Lutra	★ CARBON AND WASTE MANAGEMENT IN CONSTRUCTION: A PRACTICAL FRAMEWORK Rachel Devine - Auckland Council	CROSS-SECTOR ASSET MANAGEMENT: LEARNINGS FOR NEW ZEALAND'S WATER SECTOR Caitlin Borgfeldt - Aurecon	GOOD PRACTICE GUIDE FOR BENEFICIAL USE OF BIOSOLIDS ON LAND Lesley Smith - Water New Zealand	EFFECTIVE DRINKING WATER SAMPLING AND DATA MANAGEMENT Drinking Water Quality Special Interest Group VENUE: TE PAE, BEALEY 4 & BEALEY 5  Louise Weaver - New Zealand Institute for Public Health and Forensic Science Limited (PHF Science)  Judy Williamson Maria Hepi Sudesh Sharma Matt Dobson
4:20	DISINFECTION RESISTANT BACTERIA (DRB), AN INCONVENIENT HAZARD IN WATER TREATMENT Yin-Hu Wu - Ministry of Ecology and Environment, School of Environment, Tsinghua University	BACTERIAL ATTACHMENT TO ACTIVATED SLUDGE: A COMPARATIVE STUDY ACROSS SLUDGE TYPES AND BACTERIAL SPECIES Uthpala Kaushalya - Hokkaido University, Japan	SMART WATER: CLIMATE ADAPTATION THROUGH SMART CITIES Mitchell Dixon - Ramboll	HARNESSING THE POWER OF METAGENOMIC ANALYSIS TO ENHANCE INTENSIFICATION Liam Tamplin - Beca	LEARNING OUR FUTURE: TRANSFORMING SYSTEMS AND COMMUNITIES FOR CLIMATE RESILIENT FUTURES Alison Baker - GHD Australia And The Water For Women Fund (dfat Funded Program)		4:20	COMPLIANCE, MONITORING AND ENFORCEMENT STRATEGY – THE THINGS YOU NEED TO KNOW Steve Taylor - Taumata Arowai	★ EMERGING AI TECHNOLOGIES FOR WASTEWATER TREATMENT: USING FEEDFORWARD NEURAL NETWORKS FOR FUTURE COD PREDICTION Huijian Huang - Christchurch City Council	OPTIMISING PURPLE PHOTOTROPHIC BACTERIA FOR NUTRIENT RECOVERY FROM MILK PROCESSING WASTEWATER Muhammad Luqman - University Of Canterbury	AN OVERLOOKED SOURCE OF NITROGEN? ASSESSING THE CONTRIBUTION OF NITROGEN IN IRRIGATED GROUNDWATER. William Dench - Wga	UNLOCKING THE VALUE OF HYDRAULIC MODELS FOR INTENSIFICATION PLANNING IN WATER SUPPLY AND WASTEWATER NETWORKS Wioletta Gilfoyle and David Wyllie - Tonkin + Taylor and Jackie Colliar - HCC	WATER NEW ZEALAND PRESSURE PIPE MANUAL Steve Apeldoorn - ProjectMax	
4:40		ENVIRONMENTAL SURVEILLANCE OF HUMAN PATHOGENS IN ESTUARINE WATERS USING PASSIVE SAMPLES AND SHELLFISH Andri Rachmadi - ESR		REVOLUTIONISING WATER INFRASTRUCTURE: AUSTRALIA'S FIRST INSTALLATION OF SAERTEX-LINER® H2O Katharina Helming - Saertex Multicom Gmbh	COMPARING HUMAN AND AI-ENHANCED STAKEHOLDER ENGAGEMENT ANALYSIS IN NEW ZEALAND'S WATER GOVERNANCE Maryam Moridnejad - Wintec		4:40	SCIENCE INFORMS POLICY – WHO WOULD HAVE THOUGHT! Jim Graham - Taumata Arowai						
5:00		SURFACTANT ASSEMBLY ON ACCELERATING REDUCTIVE DECHLORINATION OF CARBON TETRACHLORIDE AT SULFIDATED ZERO-VALENT IRON INTERFACES Jiaqi Yang - Harbin Institute Of Technology (shenzhen)		RESISTANCE MECHANISM OF CHLORAMINE-RESISTANT BACTERIA DEPENDS ON INTRACELLULAR PROCESSES: DIFFERENT FROM CHLORINE AND OZONE DISINFECTION Han Liu - School of Environment at Tsinghua University	STRENGTHENING LOCAL GOVERNANCE THROUGH PARTICIPATORY ANNUAL PERFORMANCE ASSESSMENT (PAPA) IN LOCAL GOVERNMENTS OF NEPAL. Nirajan Shrestha - Sustainable WASH For All (SUSWA)		5:00	DID SCIENCE INFORM THE DRINKING WATER QUALITY ASSURANCE RULES REVIEW? India Eiloart and Jim Graham - Taumata Arowai	★ REDUCING COGNITIVE OVERLOAD IN SCADA ALARMS SYSTEM: INSIGHTS FROM CHRISTCHURCH Sristy Malla - Christchurch City Council	FROM WATER TO WASTEWATER: REPURPOSING END OF LIFE MEMBRANES TO MEMBRANE BIOREACTORS (MBR) Ashutosh Kumar - Watercare	ACHIEVING WATER QUALITY GOALS THROUGH AND BY DESIGN Bronwyn Rhynd - Ckl and George Watts - Winton	TRANSFORMING ASSET DATA MANAGEMENT THROUGH PEOPLE-CENTRIC CHANGE AT TAURANGA CITY COUNCIL Asem Zabin – GHD and Juan Martinez – Tauranga City Council	UNDERSTANDING EMBODIED CARBON IN THE WATER SECTOR Jackson Macfarlane - Hynds and Sarah Shallcross – Mott Macdonald	
5:20 3- Minute Poster Pitches	PERFORMANCE EVALUATION OF SOLAR-UV/CHLORINE OXIDATION OF PPCPS IN WASTEWATER WITH G-CONWAY 3N4 AS A PHOTOCATALYST Gen-Shuh Wang - National Taiwan University	DEEP DECARBONIZATION AND AUTOTROPHIC NITROGEN REMOVAL TECHNOLOGY FOR HIGH CONCENTRATION ORGANIC WASTEWATER Lina Wu - Beijing University	INNOVATIVE PERMEABLE KERB AND CHANNEL SYSTEM: ENHANCING STORMWATER MANAGEMENT AND URBAN GREENING Amirhassan Mehdizadeh - Porous Lane	SUPPORTING NEW ZEALAND'S CARBON AND NON-REVENUE WATER GOALS WITH KEVLAR-REINFORCED FLEXIBLE PIPE FOR PIPELINE RENEWAL Heiko Manzke - Primus Line	EQUITABLE ACCESS TO DRINKING-WATER IN EUROPEAN HIGH-INCOME COUNTRIES Laura Huber - German Environment Agency	Session Chair:  Soltice Morrison, Māori Strategy Lead, Aurecon and Water New Zealand Board member (Ngāti Whakaue, Rereahu-Maniapoto)  Panellists:  Corey Hebbard, Kaiwhakahaere Matua (General Manager) Rangitāne o Wairau, New Zealand  Nina Braid, Aboriginal Partnerships, Yarra Valley Water,	5:20	PANEL DISCUSSION Facilitated by Jim Graham  Helmut Modlik - Te Runanga o Toa Rangatira  India Eiloart - Taumata Arowai  Steve Taylor - Taumata Arowai						

	<p>INVESTIGATING THE CORRELATION BETWEEN PLASMA VOLTAGE AND PER- AND POLYFLUOROALKYL SUBSTANCES DEGRADATION EFFICIENCY Chehyeun Kim - Konkuk University</p>	<p>ASSESSING THE EXTREME WEATHER EXPOSURE OF URBAN GREEN INFRASTRUCTURE THROUGH SCENARIO MODELING AND INDEX DEVELOPMENT Cloie Chie Mueca - Kongju National University</p>	<p>ESTIMATION OF TOTAL NITROGEN CONCENTRATION BY MACHINE LEARNING FOR AI-BASED AERATION CONTROL TECHNOLOGY Yoshifumi Hayashi - Mitsubishi Electric Corporation</p>	<p>TRENCHLESS RENOVATION OF A POTABLE WATER PIPE FROM 1892 Heiko Manzke - Primus Line</p>	<p>DX STRATEGIES FOR IMPROVING SUSTAINABILITY IN WATER SUPPLY: WIDER REGIONAL COLLABORATION APPROACH Miyuki Kaito - Hanshin Water Supply Authority</p>	<p>Director Australian Water Association  Nancy Tuaine, Chief Executive, Ngā Tāngata Tiaki o Whanganui, New Zealand  Delma O'Kane - Kaitakwaenga, Ngati Manuhiri</p>										
	<p>ENHANCING WATER SUPPLY RESILIENCE IN HSINCHU THROUGH COMPREHENSIVE SYSTEM ANALYSIS Shu Yu Yang - Stantec Inc.</p>	<p>EVALUATION OF COMMERCIAL ADSORBENTS FOR LOW-CONCENTRATION PHOSPHATE REMOVAL IN NATURAL WATERS Li-Ying Chen - National Cheng Kung University</p>	<p>SMART WATER SOLUTION CASE STUDY - YORKSHIRE WATER CENTRALISED EVENT MANAGEMENT SOLUTION Kevin He - Xylem</p>		<p>ALIGNING ADAPTIVE PATHWAYS WITH NZ'S LOCAL WATER DONE WELL VISION FOR RESILIENT WATER FUTURES Jivir Viyakesparan - Woods Consulting Ltd</p>											
5:30-6:30	<b>BLUECURRENT COMBINED WELCOME FUNCTION, IWA AND WATER NEW ZEALAND – EXHIBITION AREA, TE PAE</b>															
5:45 – 6:45	<b>IWA-ASPIRE COUNCIL DINNER GOVERNING MEMBERS MEETING (INVITE ONLY) – TE PAE</b>															

DAY TWO (WEDNESDAY, 1 OCTOBER 2025)

7:30	<b>REGISTRATION OPENS</b>
8:45	<p><b>VENUE: DOUGLAS LILBURN AUDITORIUM, TOWN HALL</b> Plenary Session Topic: Planetary health:</p> <ul style="list-style-type: none"> <li>• What are planetary boundaries?</li> <li>• What is the latest assessment of blue and green water resource base?</li> <li>• What does staying within the planetary boundaries mean and imply for drinking water and sanitation services?</li> </ul> <p>Plenary Chair: Annalisa Contos – ATOM Consulting</p> <p>Keynote speaker: Professor Katherine Richardson, University of Copenhagen, Denmark [Live via Zoom] Keynote speaker: Alison Collins - Departmental Science Advisor at Ministry for the Environment</p> <p>Panel discussion Datuk Ir. Abdul Kadir Mohid Din – SPAN Malaysia Liz Root – Aurecon Karina Gin - Department of Civil &amp; Environmental Engineering, National University of Singapore, Yang Villa – Consultant to Asian Development Bank</p>
10:30	<p><b>MORNING TEA – EXHIBITION AREA, TE PAE</b></p> <p><b>DAY TWO IWA-ASPIRE POSTER SESSIONS – CHRISTCHURCH TOWN HALL</b> <a href="#">Click Here for Complete List</a></p>

	<b>RISK &amp; RESILIENCE: DEALING WITH EMERGING CHEMICALS AND MICROBES</b> VENUE: TOWN HALL, LIMES ROOM  Session Chair: David Cunliffe	<b>RISK &amp; RESILIENCE: REMEDIATION, POLLUTION CONTROL, MANAGING PATHWAYS FOR MICROBIAL CONTAMINATION</b> VENUE: TOWN HALL, AVON ROOM  Session Chairs: Joan Rose and Patrick Schnelle	<b>SMART SOLUTIONS: PRACTICAL APPROACHES TO DECARBONISATION OF THE WATER INDUSTRY</b> VENUE: TE PAE CONWAY 3  Session Chairs: High Blake Manson and Mazhar Amin	<b>SMART SOLUTIONS: SUCCESSFUL INNOVATION IN THE MANAGEMENT OF AQUATIC ECOSYSTEMS</b> VENUE: TE PAE, CONWAY 2  Session Chairs: Regina Souter and Krissy Blom	<b>COMMUNITIES: EXPLORING THE POTENTIAL OF COMMUNITY-BASED/CITIZEN SCIENCE</b> VENUE: TE PAE CONWAY 1  Session Chairs: Brendon Green and Vicki Clarke	<b>COMBINED WORKSHOPS</b> VENUE: TOWN HALL, VICTORIA ROOM		<b>THOUGHT LEADERSHIP: SUSTAINABILITY AND SUSTAINABLE FINANCE</b> VENUE: TE PAE, AUDITORIUM 1 & 2  Session Chair: Chris Thurston	<b>WASTEWATER – PLANNING &amp; DECISION MAKING</b> VENUE: TE PAE, AUDITORIUM 3 & 4  Session Chairs: Rob Burchell and Aisling O’Sullivan	<b>WASTEWATER - TREATMENT – SMALL PLANTS</b> VENUE: TE PAE, CONWAY 5  Session Chairs: Derek Wood and Katie Penniall	<b>CONSTRUCTION AND RENEWAL</b> VENUE: TE PAE, CONWAY 4  Session Chairs: Martyn Simpson and Sarah Browne	<b>ASSET MANAGEMENT – TOOLS &amp; TECHNOLOGY</b> VENUE: TE PAE, RAKAIA  Session Chairs: Chris Miller and David Ward	<b>POLICY CHANGES / FRAMEWORK CONSENTS AND PLANNING</b> VENUE: TE PAE, WAITAKI  Session Chairs: Chris Davies and Jessica Crawford	<b>SPECIAL INTEREST GROUPS</b> VENUE: TE PAE, BEALEY 4 & BEALEY 5		
<b>11:00</b>	DECODING THE OVERLOOKED LINKS BETWEEN MICROPOLLUTANTS : UNRAVELLING THE PER-(POLY)-FLUOROALKYL SUBSTANCE - PESTICIDE CONNECTION Manish Kumar - Tecnológico De Monterrey, Mexico		USING THE DESIGN AND CONSTRUCT PROCUREMENT METHOD TO INNOVATE TOWARDS EFFICIENT OUTCOMES Nathan Malcolm - GHD Ltd and Shaun Kempton - John Holland Group	QUANTIFICATION OF CARBON-REDUCING DESIGN ACTIONS FOR WATER CONVEYANCE INFRASTRUCTURE Anthony Walshe – WSP	FLOWING TOGETHER: IMPLEMENTING INDIGENOUS WATER SOLUTIONS ACROSS AOTEAROA AND AUSTRALIA Troy Brockbank - Beca	<b>UTILITY WORKSHOP</b>  Join us for a dynamic utility-focused workshop featuring insights and reflections from leading professionals across New Zealand, Australia, Singapore, Taiwan, and Malaysia. This session will explore shared challenges, innovative solutions, and collaborative opportunities in utility management across the Asia-Pacific region. Expect practical takeaways and fresh perspectives from diverse operational contexts.	<b>11:00</b>	GREENING THE FUTURE – INSIGHTS FROM THE WORLD GREEN INFRASTRUCTURE CONGRESS Hannah Breeds – Stantec	★ APPLICATION OF WASTEWATER TO LAND. AN OVERVIEW TO GUIDE SCOPING Roger Oakley - Stantec	SMALL WASTEWATER TREATMENT PLANTS - A STOCKTAKE OF STANDARDS AND PRACTICE IN NEW ZEALAND Raymond Chang – Beca and Simone Palmer – Taumata Arowai	★ BACK TO THE FUTURE: DRIVING VALUE THROUGH SIMPLIFIED AND STANDARDISED INFRASTRUCTURE RENEWALS Pieter Hopman - WSP	CRITICAL & COMPLEX WASTEWATER RISING MAIN CONDITION ASSESSMENT VIA SURGE RISER UTILISING MSI PROFILER Todd Williams - Dunedin City Council	I AM THE LAW! IMPLEMENTING RULES AND REGULATIONS THROUGH MONITORING AND ENFORCING RESOURCE CONSENTS Leon Blackburn and Yashika Joshi -Auckland Council	<b>ASSET DATA – NATIONAL COLLABORATION + A GAME TO PLAY</b> Smart Water Infrastructure Group (SWIG) Special Interest Group VENUE: TE PAE, BEALEY 4 & BEALEY 5  Andy Gaul – Connexis  Michael Howden - Stantec  Sam Repia – Landis + Gyr  Greg Preston – University of Canterbury		
<b>11:20</b>	PFAS IN DRINKING WATER; A SOURCE INVESTIGATION TO SAFEGUARD THE ONEHUNGA WATER TREATMENT PLANT SUPPLY Zoe Vercoe - Pattle Delamore Partners Limited and Nikhil Susarla - Watercare		PREDICTIVE MODELING OF ORGANIC REMOVAL IN ANAEROBIC WASTEWATER TREATMENT BASED ON MACHINE LEARNING Jiayuan Ji - Institute for Future Initiatives, The University of Tokyo	IMPLEMENTING RULES AS CODE IN DRINKING WATER REGULATION Ryan O’Shea - Taumata Arowai	COMMUNITY-BASED WATER TURBIDITY MONITORING IN LOW-RESOURCE SETTINGS USING A SMARTPHONE CAMERA: IS IT EFFECTIVE? Chotiawat Jantarakasem - Massachusetts Institute of Technology	<b>Session Chair:</b> Adam Lovell, Chief Executive, Water Services Association of Australasia  Priyan Perera, Chief Strategy and Planning Officer, Watercare Services and Water New Zealand Board member  <b>Topic 1: Climate change, adaptation and resilience</b> Ir. Azlan Abdullah, Head of Department – Production  Dr Yi-Fung Wang, Deputy Director General of Water	<b>11:30</b>	LESSONS AND OPPORTUNITIES, LGFA GREEN PROJECT FINANCE AND SUSTAINABILITY IN THE WATER SECTOR. Chris Thurston - Little Brown Duck	★ COST CURVES ENABLING EFFICIENT DECISIONS ON CENTRALISATION OF SEWAGE TREATMENT PLANTS Carlo Loubser – TasWater and Larey-Marie Mulder - WSP	★ CRITICAL THINKING FOR SUPERCRITICAL UV SUCCESS: CASE STUDY FROM AHIPARA WWTP Jolanta Gussenhoven - Beca	MANDATE A WASTEWATER LATERAL RENEWAL PROGRAM & SLASH YOUR CAPEX – WHY?, WHAT?, HOW? Steve Carne -Taonga Water Advisory Limited	★ DEPLOYING REMOTELY OPERATED DRONE FOR STRUCTURAL INSPECTION OF CRITICAL INFRASTRUCTURE BURWOOD BEACH WWTW Vanessa Trzcinka - Beca	CONSENTING FOR SUCCESS– INTEGRATING LONG-TERM ASSET PLANNING AND CONSENTING IN THE FACE OF REGULATORY CHANGE James Taylor - Beca			
<b>11:40</b>	DEVELOPMENT OF A COMBINED WATERSHED MODEL TO ESTIMATE THE DISTRIBUTION OF CONTAMINANTS OF EMERGING CONCERN Marcus Joseph Sanchez - Tohoku University	BIOCHAR DERIVED FROM CORRUGATED CARDBOARD: PREPARATION AND ADSORPTION CHARACTERISTICS OF KOH-ACTIVATED BIOCHAR Chih-Wei Wu - Taiwan	DESIGNING HYBRID MABRS TO ACHIEVE INTENSIFIED NUTRIENT REMOVAL AND LOW N2O EMISSIONS Kevan Brian - Watercare	MAPPING SCOPE3 EMISSIONS IN THE AOTEAROA WATER SECTOR TO SUPPORT A LOW-EMISSIONS, CLIMATE RESILIENT FUTURE. Brendon Harkness - Watercare Services Limited and Jonathan Cullen - University of Cambridge	THE HEALTH OF THE WATER IS PARAMOUNT TO INDIGENOUS PEOPLE’S CULTURAL VALUES Megan Devane – ESR, Carl Crofts and Mananui Ramsden - Te Rūnaka o Kōwhiri		<b>11:50</b>	PANEL DISCUSSION: UNLOCKING OPPORTUNITY - SUSTAINABILITY, FINANCE AND INNOVATION FOR THE WATER SECTOR facilitated by Chris Thurston								
<b>12:00</b>	ENHANCED PERFORMANCE OF GRANULAR SLUDGE IN TREATING WASTEWATER UNDER PFOA STRESS: SYNERGISTIC	PROFILES OF ANTIBIOTIC RESISTANT BACTERIA AND RESISTANCE GENES IN WASTEWATER TREATMENT PLANTS	EFFICIENT AND SCALABLE BIOLOGICAL INTENSIFICATION USING A MEMBRANE AERATED BIOFILM REACTOR	METHOD FOR EVALUATING EFFICACY OF DEFOAMING AGENTS TO PREVENT NOCARDIOFORM FOAMING IN	EFFECTIVE MEASURES FOR SUSTAINABLE MANAGEMENT OF WATER AND SANITATION FOR FIRST NATIONS		<b>12:00</b>	MORE THAN JUST SPACE: STRATEGIC SITE SELECTION FOR WATER TREATMENT PLANTS	IMPROVED PERFORMANCE WITH MULTI-STAGE RECIRCULATED PACKED BED REACTOR- A	PITFALLS OF OUTFALLS: WHAT LURKS BENEATH FOR THE ‘EASY OPTION’	STREAMLINE: A DATA DRIVEN PLATFORM FOR ASSET RENEWAL ANALYTICS Craig Thew - Hastings District	WHERE TO GROW? INCLUDING THREE WATERS IN THE SPATIAL PLANNING PROCESS				

	EFFECTS AND MECHANISMS Rui Li - Sun Yat-sen University	IN KANAGAWA, JAPAN Kazunari Sei - Kitasato University	Chin Ling Lee - OxyMem	SEWAGE TREATMENT PROCESS Tomoyuki Yokota - Tokyo Metropolitan Government	COMMUNITIES IN AUSTRALIA Taylor Hayward - WSAA	Resources Agency, Taiwan  Charlie Littlefair, South East Water  David Ryan, Chief Executive, SA Water and Chair WSAA, Australia		Helen Mahoney - LGFA  Danielle Francis - WSAA	Gabriela Campos Cardwell - Watercare	SUPPLIER'S CASE STUDY Seb Deendost and Salma Rayan - InnoFlow Technologies	Nathan Malcolm – GHD, Daniel Patten - McConnell Dowell	Council and Davis Cooper - Harmonic Analytics	Claire Scrimgeour - Beca	
12:20 3-Minute Poster Pitches	FIT-FOR-PURPOSE FIXES: TAILORED INFRASTRUCTURE RENEWALS, NOT ONE SIZE FITS ALL WITH PIPYR. Jeanette Tucker Adam Wheeldon - WSP	ZINC RELEASE RATES IN ROOF RUNOFF OVER A ROOF MATERIAL'S LIFETIME Frances Charters - University of Canterbury	DEVELOPMENT OF INNOVATIVE BIOFIM BASED TECHNOLOGIES TOWARD CARBON-NEURAL WASTEWATER TREATMENT Jinwook Chung - Samsung E&a	THE USE OF TECHNOLOGY ACCELERATORS TO ENHANCE THE SOUTH AFRICAN INNOVATION ECOSYSTEM Manjusha Sunil - Water Research Commission	FROM FORGOTTEN AND ABANDONED TO CENTRALISED AND COLLABORATIVE, SERVICE MAPPING FOR THE CHRISTCHURCH RED ZONE Rico Parkinson - Stantec	Topic 2: Digital and AI Ms Lujing Zhang, China Water Environment Group  Ir. Zairi Bin Zainuddin, Head of Water Quality Department, Air Selangor, Malaysia  David Ryan, Chief Executive, SA Water and Chair WSAA, Australia  Jamie Sinclair, Chief Executive, Watercare Services, New Zealand								
	IMPACT OF NON-TREATED WASTEWATER DISCHARGE ON DRINKING WATER QUALITY IN SUB-SAHARAN AFRICA (MADAGASCAR) Malgorzata Szopinska - Gdansk University Of Technology	EFFECTS OF CHEMICAL OXIDATION ON SOIL CARBON DIOXIDE EMISSION IN A SOIL SLURRY SYSTEM Chenju Liang - National Chung Hsing University	VIABILITY OF LARGE-SCALE WATER AND WASTEWATER TREATMENT USING UV LED TECHNOLOGY Oliver Lawal - AqualSense	FRAMEWORK FOR MULTI-OBJECTIVE OPTIMIZATION OF RURAL SEWAGE SYSTEMS USING MODELS Pengyu Li - Research Center For Eco-environmental Sciences, Chinese Academy Of Sciences	REINFORCING DISASTER RESILIENCE AND ENVIRONMENTAL SUSTAINABLY: WATER OUTAGE ANNOUNCEMENT AND INQUIRY PLATFORM Chienhsing Lee - Taiwan Water Corporation		David Ryan, Chief Executive, SA Water and Chair WSAA, Australia  Jamie Sinclair, Chief Executive, Watercare Services, New Zealand							
	DETERMINATION OF TMP-DERIVED COMPOUNDS FROM WASTEWATER SAMPLES Katarzyna Bułkowska - University of Warmia and Mazury in Olsztyn	DATA UTILIZATION AND RESOURCE MANAGEMENT OF WATER SUPPLY PIPELINE MAINTENANCE AND MANAGEMENT SURVEYS Ginalyn Robel Brazil - Tokyo Water Co., Ltd.	CREATING CIRCULAR ECONOMY OPPORTUNITIES VIA TRIPLE A PRIMARY TANK CONVERSION Richard Brice - World Water Works	EMERGENT AND NOVEL PRACTISES THAT MITIGATE THE CHRONIC AND ACUTE EFFECTS OF CLIMATE CHANGE Heather Kerr - Isle Utilities	BRIDGE OF SEWERAGE TECHNOLOGY IN CONSTRUCTION TECHNOLOGY EXAMINATION CERTIFICATION PROJECT Taro Watanabe - Japan Institute of Wastewater Engineering Technology		Charlie Littlefair, South East Water  Topic 3: Workforce of the Future Ms Lujing Zhang - China Water Environment Group Susheel Arora - Chief Executive - Atlantic First Nations Water Authority, Canada  Nerina di Lorenzo - Managing Director - Melbourne Water, Australia  Jamie Sinclair - Chief Executive - Watercare Services, New Zealand							
12:30	LUNCH – EXHIBITION AREA, TE PAE													
1:00	<p><b>WATER &amp; ECOLOGY FORUM: ONE WATER ONE HEALTH</b> Towards Sustainable Water Management and Ecosystem Protection Venue: Conway 5, Te Pae Facilitated by Jiuhui Qu</p> <p>Joan B Rose - Michigan State University, USA, Editor-in-Chief of Water &amp; Ecology</p>					<p><b>Water New Zealand Poster Presentations</b> Venue: Registration Foyer, Te Pae</p> <p>3D-PRINTED BACTERIOPHAGE BIOCARRIERS FOR TREATING BIOFILMS IN DRINKING WATER DISTRIBUTION SYSTEMS Sujani Ariyadasa - New Zealand Institute for Public Health and Forensic Science Limited (PHF Science)</p> <p>THE ROLE OF 3D FLOOD MAP VISUALIZATIONS IN EFFECTIVE RISK COMMUNICATION Fatemeh Asghari Kaleshani - Massey University</p> <p>TE TAI TOKERAU COMMUNITY TESTING HUB PILOT Chris Bishop – Bactosure</p>								

<p>Jinren Ni - Peking University, China                  Gang Liu - Research Center for Eco-Environmental Sciences, CAS, China, Assistant Editor-in-Chief of Water &amp; Ecology</p> <p>This workshop convened by Water &amp; Ecology Journal is a fast-paced, future-focused symposium that features keynote presentations by Editor-in-Chief Joan Rose and Academician Jinren Ni (China), who will together explore the forward-looking theme of "One Water, One Health." Executive Editor-in-Chief Gang will outline the journal's latest developments and, jointly with the two keynote speakers, will launch a special issue on this theme, calling for papers from authors worldwide.</p>							<p>EXPLORATION OF TRANSFORMATION AND REMOVAL OF EMERGING POLLUTANTS IN A HYBRID-BATCH REACTOR USING NON-TARGET SCREENING Junho Jeon- Changwon National University                  UNDERSTANDING SMOKING AND VAPING HABITS IN AOTEAROA NEW ZEALAND USING WASTEWATER-BASED EPIDEMIOLOGY Hea-Jeong Kim - University of Auckland                  ARTIFICIAL INTELLIGENCE FOR ASSET ENGINEERS, IS NZ READY? Amanda Siqueira – VAPAR                  A ROADMAP FOR WATER METERING DEVELOPMENT: ADVANCING NEW ZEALAND'S WATER MANAGEMENT SYSTEMS Sam Repia - Landis+Gyr</p>							
	<p><b>RISK &amp; RESILIENCE: DEALING WITH EMERGING CHEMICALS AND MICROBES</b>                  VENUE: TOWN HALL, LIMES ROOM                   Session Chairs: Norhayati Abdullah</p>	<p><b>RISK &amp; RESILIENCE: NATURE BASED SOLUTIONS AND ENVIRONMENTAL MANAGEMENT</b>                  VENUE: TOWN HALL: AVON ROOM                   Session Chair: Kelly Cokorudy and Darryl Day</p>	<p><b>SMART SOLUTIONS: RENEWABLE ENERGY SOLUTIONS FOR WATER ACCESS AND SUSTAINABILITY</b>                  VENUE: TE PAE, CONWAY 3                   Session Chairs: Gang Liu and Stephanie Crosson</p>	<p><b>SMART SOLUTIONS: SHIFTING FROM "NON-SEWERED SANITATION" TO "WATER EFFICIENT SANITATION SYSTEMS"</b>                  VENUE: TE PAE, CONWAY 2                   Session Chairs: Ricardo Bello Mendoza and Shinji Ayaka</p>	<p><b>COMMUNITIES: STEWARDSHIP &amp; CONSERVATION, AND THE LINKS BETWEEN RURAL AND URBAN COMMUNITIES</b>                  VENUE: TE PAE, CONWAY 1                   Session Chairs: Steve Couper and Skye Haigh</p>	<p><b>GOVERNANCE, POLICIES AND INSTITUTIONS: WASTEWATER SURVEILLANCE</b>                  VENUE: TOWN HALL, VICTORIA ROOM                   Session Chair: Asari Daud</p>		<p><b>THOUGHT LEADERSHIP: LOCAL WATER DONE WELL</b>                  VENUE: TE PAE, AUDITORIUM 1 &amp; 2                   Session Chair: Lorraine Kendrick</p>	<p><b>SCIENCE &amp; PUBLIC HEALTH</b>                  VENUE: TE PAE, AUDITORIUM 3 &amp; 4                   Session Chair: Martin Smith and Simonah Ferreira</p>	<p><b>WASTEWATER - SUSTAINABILITY IN TREATMENT</b>                  VENUE: TE PAE, WAITAKI                   Session Chair: Andrew Venmore and Richard Millican</p>	<p><b>TE AO MAORI</b>                  VENUE: TE PAE, CONWAY 4                   Session Chairs: Hera Whaanga and Belinda Cridge</p>	<p><b>ASSET MANAGEMENT – IN ACTION</b>                  VENUE: TE PAE, RAKAIA                   Session Chairs: Karl Pavlovich and Jennifer Schierhout</p>	<p><b>GLOBAL JOURNEYS IN POLICY CHANGES &amp; FRAMEWORKS</b>                  VENUE: TE PAE, CONWAY 5                   Session Chairs: Bruce Balaei and Gabriela Campos</p>	<p><b>SPECIAL INTEREST GROUPS</b>                  VENUE: TE PAE, BEALEY 4 &amp; BEALEY 5</p>
2:00	<p>SILOXANES IN PRODUCER GAS FROM PYROLYSIS AND A POTENTIAL SOLUTION                  Philip Pedros - Mott Macdonald</p>	<p>MULTILAYER PARTIALLY SATURATED VERTICAL FLOW WETLANDS – DESIGN JOURNEY AND KEY LESSONS                  Sukhjit Pal Singh - The University Of Waikato / Niwa</p>	<p>SOLAR POWERED CHEMICAL FREE WATER TREATMENT – LOCALLY MAINTAINED SUSTAINABLE WATER SOLUTIONS FOR REMOTE COMMUNITIES                  Mat Francis - Moerk Water Solutions</p>	<p>GRANULAR ANAEROBIC SUBMERGED MEMBRANE BIOREACTOR FOR ENERGY RECOVERY AND DOMESTIC WASTEWATER TREATMENT                  Geoffroy Lesage - Université de Montpellier</p>	<p>BUILDING BACK BETTER: INTEGRATING A SYSTEMS-LEVEL RESILIENCE APPROACH IN FLOOD RISK MANAGEMENT AND RECONSTRUCTION                  Jonathan Chambers and Lily Sanson - Aurecon</p>	<p>NEW ZEALAND'S WASTEWATER PERFORMANCE AND THE NEW REGULATORY STANDARDS                  Edward Yong and Simone Palmer – Taumata Arowai</p>	2:00	<p>WATER ORGANISATION GOVERNANCE: MAXIMISING OPPORTUNITIES                  Padraig McNamara - Simpson Grierson</p>	<p>INTENSIVE NOROVIRUS WASTEWATER MONITORING DEEPENS UNDERSTANDING OF POTENTIAL PUBLIC HEALTH RISKS                  Kirsten Norquay - Stantec</p>	<p>INNOVATIVE BIOFILTER SOLUTIONS FOR SUSTAINABLE SEPTIC TANK DISCHARGE TREATMENT                  Mohammad Ramezaniapour - Ara Institute Of Canterbury</p>	<p>★                  BRINGING MĀTAURANGA MĀORI AND WESTERN SCIENCE TOGETHER TO EMPOWER WAI STEM EDUCATION IN THE RANGITĪKEI                  Puti Wilson - Winiata Marae, Ngāti Hinemanu me Ngāti Paki</p>	<p>★                  ACHIEVING A FLOW STATE- UPPER CLUTHA WASTEWATER CONVEYANCE SCHEME                  Emily Molloy - Beca</p>	<p>THE COMPLEX EVOLUTION OF OUR WATER SERVICE SYSTEM                  Michael Howden - Stantec</p>	<p><b>NON-RESIDENTIAL WATER EFFICIENCY - ENGAGING WITH HIGH WATER USE CUSTOMERS</b>                  Water Efficiency &amp; Conservation Action Network (WECAN) Special Interest Group                  VENUE: TE PAE, BEALEY 4 &amp; BEALEY 5                   Julian Fyfe – Wellington Water</p>
2:20	<p>ADDRESSING THE PIPELINE - ATTRACTING WOMEN AND GIRLS TO THE STEM SECTOR                  Rebecca Belza - GHD</p>	<p>SLUDGE TREATMENT WETLANDS RECEIVING ACTIVATED OR ANAEROBIC SLUDGE – TESTING STRATEGIES TO REFLECT REALISTIC LOADING                  James Sukias - NIWA</p>	<p>MAPPING OUR WAY TO CLEANER WATER – NO DRAIN LEFT BEHIND!                  Hana Judd - Morphem Environmental</p>	<p>ANAEROBIC BIOMASS MEMBRANE BIOREACTOR FOR INNOVATIVE AND INTEGRATING URBAN WASTEWATER TREATMENT                  Geoffroy Lesage - Université de Montpellier</p>	<p>AGRICULTURAL IRRIGATION WATER RECYCLING SYSTEM IMPROVED WATER AND FERTILIZER UTILIZATION WHILE REDUCING NON-POINT SOURCE POLLUTION                  Dingxin Li - Hohai University</p>	<p>SHARED VISIONS, BETTER OUTCOMES: A PROCESS TO ALIGN STAKEHOLDERS IN WATER AND POWER SERVICE DELIVERY                  Skye Haigh – Ekistica</p>	2:30	<p>NAVIGATING WATER REFORM – PRACTICAL PATHWAYS TO SUCCESSFUL TRANSITION                  Mair Brooks - KPMG and Deborah Lind - Aurecon</p>	<p>★                  MONITORING PROSTATE HEALTH IN AOTEAROA, NEW ZEALAND, USING WASTEWATER-BASED EPIDEMIOLOGY                  Miriama Wilson - University Of Auckland</p>	<p>★                  A YEAR IN ACTION – HYBRID MABR-MBR WWTP                  Emma Cross – Veolia and Sela Maka - Watercare Services Limited</p>	<p>INCORPORATING SUSTAINABILITY AND CULTURAL VALUES INTO WASTEWATER MANAGEMENT                  Mr Derek Anderson - Pattle Delamore Partners</p>	<p>★                  HOW IS STRATEGIC INTEGRATED SYSTEM PLANNING USED TO INFORM DUNEDIN'S FUTURE 3 WATERS INVESTMENT?                  Heinz Jacobs – Dunedin City Council</p>	<p>★                  DRIVING BUSINESS OUTCOMES THROUGH AUSTRALIAN WATER SECTOR BENCHMARKING &amp; KEY ASSET MANAGEMENT TRENDS                  Francois Joubert - Aurecon</p>	
2:40	<p>TRANSCRIPTOMIC RESPONSE OF HEPG2 SUGGESTED DIFFERENT MODES OF TOXICITY FOR PFOS AND PFOA                  Rion Igarashi - Yamamura - Kanazawa University</p>	<p>MICROBIAL RISK ASSESSMENT TOOL FOR PROTECTING DRINKING WATER WELLS: ASSESSING PUBLIC HEALTH RISK FROM PATHOGENS                  Allanah Kenny - ESR</p>	<p>PURIFIED RECYCLED WATER – NEW ZEALAND ABREAST A GLOBAL WAVE                  Danielle Francis - Water Services Association of Australia</p>	<p>ORGANIZING FOR A SECURE CLIMATE RESILIENT WATER EFFICIENT SANITATION FUTURE                  Manjusha Sunil – Water Research Commission</p>	<p>EMPOWERING FUTURE WATER SOLUTIONS WITH KAUPAPA MĀORI ASSET MANAGEMENT PRINCIPLES FOR RESILIENT COMMUNITIES                  Nathan Capper - WSP</p>	<p>ADDRESSING NUTRIENT POLLUTION IN METRO MANILA: LIFE CYCLE ASSESSMENT OF A WASTEWATER TREATMENT FACILITY UPGRADE                  Angelica Euara Manrique - Maynilad Water Services</p>								
3:00	<p>EFFICIENT DEGRADATION AND</p>	<p>ENSURING WATER SUPPLY THROUGH</p>	<p>EVALUATING N2O EMISSION RISKS IN</p>	<p>AUTOTHERMAL PYROLYSIS FOR</p>	<p>COLLABORATIVE RESTORATION FOR</p>	<p>A NOVEL WASTEWATER</p>	3:00	<p>PROCUREMENT</p>		<p>HIHI WWTP UPGRADE: A</p>	<p>ONE WATER, FOUR CAPITALS, AND TE-</p>			

	MINERALIZATION OF N-METHYL-2-PYRROLIDONE (NMP) VIA VUV/UV/PERSULFATE Xiaowen Chen - Tsinghua University	COMBINED CYCLE POWER GENERATION SYSTEMS AT A LARGE-SCALE PURIFICATION PLANT Akihiro Ito - Bureau of Waterworks Tokyo Metropolitan Government	CONVENTIONAL ACTIVATED SLUDGE SYSTEMS BASED ON DYNAMICS ANALYSIS Shohei Otomo - National institute of technology, Akita college	BIOSOLIDS PROCESSING AT LARGE WASTEWATER TREATMENT PLANTS Philip Pedros - Mott Macdonald	THE MAURI OF MAHURANGI: PARTNERSHIP WITH NGĀTI MANUHIRI TO REDUCE SEDIMENT IMPACTS Colleen Brent - Auckland Council	QUALITY MANAGEMENT FRAMEWORK Hugh Blake-Manson - Waugh Infrastructure Management		Martin Hennessey - Stantec UK	 GEOSMIN, 2- MIB & CYANOTOXINS IN STREAMS: AN OPERATIONAL EXPERIENCE & PERSPECTIVE John Hickman - Tauranga City Council	SUSTAINABLE INTERIM SOLUTION Phillip Shoebridge - WSP	MANA-O-TE-WAI: THE FUTURE OF WATER GOVERNANCE IN AOTEAROA James Lear and Luci Trethewey - Pattle Delamore Partners	 PROVIDING SAFE, RELIABLE WATER SERVICES FOR 600+ SMALL WATER SYSTEMS ACROSS TĀMAKI MAKĀURAU Nathan Wall - Morphum Environmental and Alex Jacobsen - Auckland Council		
3:20 3-Minute Poster Pitches	SCREENING FOR 1,4-DIOXANE-DEGRADING BACTERIA AND EVALUATION OF THEIR ACTIVITY Ayaka Isoo - Toyo University	NITROGEN CYCLING AND MICROBIAL DYNAMICS IN SINGAPORE'S COASTAL WATERS Shuowang Lin - National University of Singapore	IMPROVING EFFICIENCY OF ANAEROBIC DIGESTION USING MICROWAVE IRRADIATION Taketo Togari - Tottori University of Environmental Studies	MITIGATION AND ADAPTATION IN SANITATION TECHNOLOGIES: SEEKING SYNERGIES TO SUPPORT CLIMATE-RESILIENT DEVELOPMENT Ira Ryski Wahyuni - University of Technology Sydney	BUILDING RESILIENT RURAL COMMUNITIES IN SOUTH AFRICA: PARTICIPATORY APPROACHES TO WATER SERVICES AND CLIMATE ADAPTATION Shafick Adams - Water Research Commission	VERIFICATION EXPERIMENT OF RESIDUAL CHLORINE CONTROL IN DISTRIBUTION MAIN BY DRAINAGE USING REMOTELY CONTROL VALVES Tsubasa Kodera - Japan Water Research Center								
	MARAE DRINKING WATER SURVEILLANCE USING METAGENOMICS AND QPCR IN THE NGĀI TAHU TAKIWĀ. Gabe Mulcare - University of Canterbury	STUDY ON THE EFFECTIVENESS OF FLOOD COUNTERMEASURE BY INTRODUCING GREEN INFRASTRUCTURE IN URBAN DRAINAGE SYSTEM Yuta Takahashi - Japan Institute of Wastewater Engineering and Technology	EVALUATING RAINWATER HARVESTING ALTERNATIVE SYSTEMS FOR BOAC, MARINDUQUE: ADDRESSING WATER SCARCITY USING MULTI-CRITERIA DECISION ANALYSIS Angelica Euara Manrique - Maynilad Water Services Inc	ENHANCING PROCESS EFFICIENCY AND ACHIEVING ENERGY SELF-SUFFICIENCY IN WASTEWATER TREATMENT PLANTS FOR CARBON NEUTRALITY Seohyeon Cho - Jeonbuk National University	NATURE-BASED SOLUTIONS FOR INCREASING CATCHMENT RESILIENCE TO FLOODS & DROUGHTS: EXAMPLES FROM SOUTHERN ENGLAND Alejandro Dussailant - UK Centre For Ecology & Hydrology	ASSESSING THE CLIMATE CHANGE IMPACTS ON THE FLOOD MITIGATION EFFECTIVENESS OF GREEN INFRASTRUCTURES IN MALAYSIA Ming Fai Chow - Monash University Malaysia								
	DISINFECTION BY-PRODUCTS FROM WATER PURIFICATION PROCESSES IN MOUNTAINOUS REGIONS Yoshitaka Matsumoto - National Institute Of Technology, Toyota College	STUDY ON N2O EMISSION FROM CONVENTIONAL ACTIVATED SLUDGE PROCESS WITH SUPPRESSION OF NITRIFICATION Masayuki Yamamoto - Japan Institute Of Wastewater Engineering And Technology	AERATION CONTROL WITH HIGH ENERGY EFFICIENCY REDUCTION OF CARBON FOOTPRINT AND COST SAVINGS USING AI Justin Engels - Pump and Valve Specialities New Zealand	SUSTAINABLE CONVERSION OF AMMONIUM FROM DIGESTED SLUDGE FILTRATE BY ION EXCHANGE AND ELECTROLYSIS TO HYDROGEN Sungwon Kang - Korea Institute of Civil Engineering and Building Technology		DISASTER RELIEF FOR THE NOTO PENINSULA EARTHQUAKE BY THE JAPAN WATER WORKS ASSOCIATION Noriko Yokoyama - Japan Water Works Association								
3:30	AFTERNOON TEA – EXHIBITION AREA, TE PAE													
	<b>RISK &amp; RESILIENCE: STRENGTHENING WATER SAFETY PLANNING AND SANITATION SAFETY PLANNING</b> VENUE: TOWN HALL, LIMES ROOM	<b>RISK &amp; RESILIENCE: NATURE BASED SOLUTIONS AND ENVIRONMENTAL MANAGEMENT</b> VENUE: TOWN HALL, AVON ROOM	<b>SMART SOLUTIONS: PROMOTION OF WATER REUSE (POTABLE RE-USE, RE-USE FOR AGRICULTURE AND INDUSTRY) AS PART OF THE CIRCULAR</b>	<b>SMART SOLUTIONS: OPPORTUNITIES AT THE INTERFACE OF THE WATER/WASTEWATER</b>	<b>EMPOWERING TOMORROW: AUTOMATION, DIGITAL TRANSFORMATION AND DIGITAL TWIN TECHNOLOGY</b>	<b>COMBINED WORKSHOPS</b> VENUE: TOWN HALL, VICTORIA ROOM		<b>THOUGHT LEADERSHIP: GROWTH</b> VENUE: TE PAE, AUDITORIUM 1 & 2	<b>WASTEWATER – SCIENCE &amp; SLUDGE</b> VENUE: TE PAE, AUDITORIUM 3 & 4	<b>RISK – EMERGENCIES, EVENTS AND INCIDENTS</b> VENUE: TE PAE, RAKAIA	<b>DIGITAL INFORMING DESIGN AND OPERATION</b> VENUE: TE PAE, CONWAY 5	<b>ASSET MANAGEMENT- ALL ABOUT DATA</b> VENUE: TE PAE, WAITAKI	<b>PROCUREMENT IN LOCAL WATER DONE WELL</b> VENUE: TE PAE, CONWAY 4	<b>SIG WORKSHOP</b> VENUE: TE PAE, BEALEY 4 & BEALEY 5

	Session Chair: Robert Bos	Session Chairs: Tsair-Fuh Lin and Anthony Walshe	<b>ECONOMY AND RESOURCE RECOVERY</b> VENUE: TE PAE CONWAY 3  Session Chairs: Rupert Craggs and Usama Aziz	<b>MANAGEMENT – ENERGY NEXUS</b> VENUE: TE PAE, CONWAY 2  Session Chairs: Brendon Harkness and Fazrul Khairy	VENUE: TE PAE, CONWAY 1  Session Chairs: Chih-Hua Chang and Lupesina Koro			Session Chair: Adrienne Miller	Session Chairs: Gavin Sole and Robin Knowles	Session Chairs: Nick Brown and Ramsay Huang	Session Chairs: Steve Carne and Annika Gibson	Session Chairs: Rob Blakemore and Ed Yong	Session Chairs: Ken MacDonald and Parul Sharma	
4:00	LOCALISING RURAL COMMUNITY WATER SAFETY PLANNING FOR IMPROVED EFFECTIVENESS IN SOLOMON ISLANDS, VANUATU AND FIJI Regina Souter - International Water Centre, Griffith University	MICROBIAL INTERACTIONS DRIVING SULFAMETHOXAZOLE DEGRADATION IN SULFATE-REDUCING BACTERIA ENRICHMENT CULTURE REVEALED BY DNA-SIP AND METAGENOMICS Yujian Yan - Sun Yat-sen University	TRANSFORMING FIJI'S WATER AND SANITATION: THE JOURNEY AND FUTURE VISION OF THE WAF Seymour Singh - Water Authority Of Fiji	ANAEROBIC DIGESTION OF PRIMARY SLUDGE AND DUCKWEED FOR BIOENERGY RECOVERY FROM WASTEWATER TREATMENT SYSTEM Kengo Kubota - Tohoku University	DEVELOPMENT AND APPLICATION OF AI TECHNOLOGIES IN WASTEWATER TREATMENT How Yong Ng - Beijing Normal University	WORKSHOP: CIRCULAR, RESILIENT, AND INCLUSIVE: TRANSFORMING THE WATER AND SANITATION SECTOR Naomi Carrard  Explore how the principles of circularity, resilience, and inclusivity can drive lasting transformation in the water and sanitation sector. This workshop will showcase global examples, practical tools, and innovative approaches that promote sustainable resource use, adapt to climate challenges, and ensure no one is left behind. Ideal for professionals committed to building a future-ready and equitable water sector.	4:00	WATERCARE'S DEVELOPER JOURNEY IN AUCKLAND – LESSONS WE HAVE LEARNT Sophie Jeffries - Watercare Services	EXPLORING FE3O4/PANI-FUNCTIONALIZED PVDF MEMBRANES FOR BIO-ENERGY RECOVERY AND FOULING CONTROL IN ANAEROBIC MEMBRANE BIOREACTOR Duyen Tran - Chung Yuan Christian University	PREDICTIVE MODELS TO IDENTIFY CONTAMINANT SOURCES AND POTENTIAL FOR EARLY WARNING SYSTEMS Louise Weaver - ESR	UNLOCKING THE POWER OF DATA TO TRANSFORM WATER MANAGEMENT Mark McKenzie - Central Plains Water Limited	REACTIVE TO PROACTIVE: A DATA DRIVEN APPROACH TO WATER RENEWALS Wade Zervos - Citycare Water	LOCAL WATER DONE BETTER Matt Savage - Apex Water	<b>THE GREAT CLIMATE DEBATE 2025: TO BUILD OR NOT TO BUILD Climate Change Special Interest Group</b> VENUE: TE PAE, BEALEY 4 & BEALEY 5  Jackson MacFarlane - Hynds
4:20	NUMERICAL DELINEATION OF SOURCE WATER RISK MANAGEMENT AREAS IN HETEROGENEOUS AQUIFERS: GUIDELINES AND RECOMMENDATIONS Allannah Kenny - ESR	COMPARISON OF MICROPLASTICS ANALYSIS METHODS USING DSC AND M-FTIR Narae Kim - Kangwon National University	DEGRADATION OF 2,4-DICHLOROPHENOL BY PEROXYMONOSULFATE ACTIVATED BY METAL OXIDES Yi-Pin Lin - National Taiwan University	MOLYBDENUM LIMITATION EFFECTS ON NITROGEN REMOVAL PERFORMANCE AND MICROBIAL COMMUNITY STRUCTURE IN SINGLE-STAGE ANAMMOX PROCESS Iori Mishima - Center For Environmental Science In Saitama	AI ENHANCED FLUIDIZED BED CRYSTALLIZATION FOR FERROUS PHOSPHATE (VIVIANITE) RECOVERY Wayne (Ing-wei) Lo - Industrial Technology Research Institute, TW		4:30	WHAT DOES GROWTH PAYING FOR GROWTH ASSUME? Adrienne Miller - UDINZ	UNDETECTED COMPACTED SLUDGE MATERIAL DURING WASTEWATER POND RECLAMATION Lucy Douglas - Pattle Delamore Partners	NON-POTABLE WATER USE BY CONTRACTORS - A REVIEW OF THE RISKS, BENEFITS, AND BEST PRACTICES Dana Gardner - Morphum Environmental	OPTIMISATION OF WASTEWATER TREATMENT PLANT OPERATIONS USING PRESCRIPTIVE ARTIFICIAL INTELLIGENCE John Myers - Jacobs	BESPOKE INDOOR MODULAR ACTIVATED CARBON CASSETTE SYSTEM FOR TRUNK SEWER ODOUR MITIGATION Andrew Fleming - Aquatec	LOCAL WATER CONTRACTORS DONE WELL Adam Mattsen - G&C Diggers	
4:40	CONSIDERING CLIMATE-INDUCED RISKS IN RISK MANAGEMENT OF WATER SUPPLY SYSTEMS – RISTKLI PROJECT Laura Huber - German Environment Agency	FLUORESCENCE FINGERPRINT AS AN INDICATOR FOR OUTFALLS MONITORING AND POLLUTION SOURCES IDENTIFICATION IN URBAN RIVER DURING RAINFALL PERIOD Qiuran Xiong - Tsinghua University	ROLE OF FUNCTIONALIZATION IN CARBON-BASED NANOSHEETS FOR ENHANCED REJECTION OF POLLUTANTS IN THIN-FILM NANOCOMPOSITE MEMBRANES YanTung Lo - The University of Tokyo	OPTIMIZED FLUIDIZED-BED HOMOGENEOUS CRYSTALLIZATION FOR SELECTIVE COPPER-NICKEL RECOVERY FROM ELECTROPLATING WASTEWATER AS GLAUKOSPHERITE AND MALACHITE Victor Valderama - National Chung Hsing University	APPLICATION OF AI PRECISION DOSING TECHNOLOGY IN DRINKING WATER TREATMENT Chunhua Tseng - Taipei Water Department		5:00	Panel discussion facilitated by Adrienne Miller  Julie Muir - Central Otago District Council  Frédérique Bertrand – Department of Internal Affairs	DECARBONISATION OF THE INDUSTRIAL WASTEWATER – AN UPFLOW ANAEROBIC SLUDGE BLANKET CASE STUDY Luong Nguyen and Kim Woods - TRILITY	WHAT CHAZOP CAN BRING TO THE WATER INDUSTRY Andrew Duffy – Beca	THE DEVELOPMENT AND BENEFITS OF 3D MANHOLE SCANNING Alistair Allan – WSP	DUNEDIN CITY COUNCIL WATER SUPPLY PIPE REPAIRS – REVIEWING THREE DECADES OF DATA Heinz Jacobs - Dunedin City Council	AUCKLAND LARGE SCALE PROJECTS - WORKING TOGETHER, WATERCARE, AUCKLAND COUNCIL GROUP AND KĀINGA ORA	
5:00	RISK-BASED MONITORING IN RURAL GERMAN DRINKING-WATER SUPPLIES Bettina Rickert - German Environment Agency (uba)	THE IMPACT OF CELL-TO-CELL SIGNALING MOLECULES ON MICROCYSTIN PRODUCTION Shoya Tanaka - Tohoku University	GREYWATER TREATMENT BY ZNCL2-ACTIVATED APRICOT STONE FOR APPLICATION IN NATURE-BASED SOLUTIONS Moeen Gholami - University Of Canterbury	CHARACTERISTICS OF NITROUS OXIDE PRODUCTION FROM ANAMMOX REACTOR AFTER OPERATIONAL CHANGES Fumitake NISHIMURA - Kyoto University	DECIPHERING AND MITIGATING DYNAMIC GREENHOUSE GAS EMISSION IN URBAN DRAINAGE SYSTEMS WITH KNOWLEDGE-INFUSED MACHINE LEARNING Wanxin Yin - Harbin University of									



DAY THREE (THURSDAY, 2 OCTOBER 2025)

7:30	<b>REGISTRATION OPENS</b>						
8:45	<p><b>VENUE: DOUGLAS LILBURN AUDITORIUM, TOWN HALL</b></p> <p>Plenary session topic: Strengthening regulatory frameworks: a focus on regulating sustainable sanitation services.</p> <ul style="list-style-type: none"> <li>• What is needed to strengthen the regulatory frameworks for the sanitation chain?</li> <li>• What are the opportunities and challenges?</li> <li>• What are the real-life experiences in the Asia/Pacific region in promoting sanitation regulation?</li> </ul> <p><b>Plenary Chair: Robert Bos</b></p> <p>Introduction to WHO Roadmap for Sanitation Regulation – Robert Bos, Senior Advisor IWA and Co-Chair IWA ASPIRE Programme Committee</p> <p>Keynote speaker: Dr. Raveen Jaduram, Chair Water Services Authority – Taumata Arowai                  Keynote speaker: Dr. Patrick Lester N. Ty, Chief Regulator, Metropolitan Waterworks and Sewerage System, Regulatory Office, Manilla, the Philippines                  Keynote speaker: Dr. David Cunliffe, Principal Water Quality advisor, Health South Australia and representative of World Health Organisation</p> <p>Panel discussion:                  Hayati Yarkadas - Xylem                  Dato’ Hj Ahmad Faizal Abdul Rahman – SPAN Malaysia                  Dagmara Tyszler – Veolia                  Daisuke Sano - Tohoku University                  Chee Meng Pang - PUB Singapore                  Naomi Carrard - University of Technology Sydney</p>						
10:30	<b>MORNING TEA – EXHIBITION AREA, TE PAE</b>						
	<p><b>RISK &amp; RESILIENCE: PREPARING FOR/DEALING WITH THE IMPACT OF EXTREME WEATHER EVENTS ON WASH SYSTEMS</b>                  VENUE: TE PAE, AUDITORIUM 1 &amp; 2</p> <p>Session Chairs: Susan Petterson</p>	<p><b>SMART SOLUTIONS: SMART INNOVATIONS AND SYSTEM OPTIMISATION IN WATER SUPPLY AND TREATMENT</b>                  VENUE: TE PAE, AUDITORIUM 3 &amp; 4</p> <p>Session Chairs: Azlan Abdullah and Muhammad Luqman</p>	<p><b>SMART SOLUTIONS: PROMOTION OF WATER REUSE (POTABLE RE-USE, RE-USE FOR AGRICULTURE AND INDUSTRY) AS PART OF THE CIRCULAR ECONOMY AND RESOURCE RECOVERY</b>                  VENUE: TOWN HALL, VICTORIA ROOM</p> <p>Session Chair: Satta T Massaquoi</p>	<p><b>SMART SOLUTIONS: OPPORTUNITIES AT THE INTERFACE OF THE WATER/WASTEWATER MANAGEMENT – ENERGY NEXUS</b>                  VENUE: TOWN HALL, LIMES ROOM</p> <p>Session Chairs: Rupert Craggs and Emily Molloy</p>	<p><b>EMPOWERING TOMORROW: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING FOR WASH SYSTEMS</b>                  VENUE: TE PAE, RAKAIA</p> <p>Session Chairs: Chih-Hua Chang and Wensi Zhang</p>	<p><b>GOVERNANCE, UTILITY MANAGEMENT AND THE ENABLING ENVIRONMENT: UTILITY PERFORMANCE MANAGEMENT</b>                  VENUE: TE PAE, WAITAKI</p> <p>Session Chairs: Patrick Lester Ty and Najibullah Rasa</p>	<p><b>PLENARY SESSIONS</b>                  VENUE: DOUGLAS LILBURN AUDITORIUM, TOWN HALL</p> <p>Session Chair: Gillian Blythe</p>
11:00	<p>DEVELOPMENT OF "SELF-DRAINING WATER LEAK REPAIR DEVICE"                  Hiroaki Okada - Yokohama Water Works Bureau</p>	<p>DIRECT-CURRENT ELECTRIC FIELD OPTIMIZING ANAEROBIC BIOTREATMENT OF SPENT LITHIUM-ION BATTERY DISCHARGE WASTEWATER                  Yongsun Shi - Sun Yat-sen University</p>	<p>ASSESSMENT OF CIRCLE-SEQUENCE REVERSE OSMOSIS IN HIGH-RECOVERY OPERATION FOR BRACKISH WATER REUSE                  Younggeun Lee - Sk Ecoplant</p>	<p>BIOENERGY RECOVERY AND FOULING MITIGATION USING FE3O4-PANI MODIFIED MEMBRANES IN ANMBR SYSTEMS                  Duyen Tran - Chung Yuan Christian University</p>	<p>MACHINE LEARNING MEETS MEMBRANE SCIENCE: DECODING THE HIDDEN RULES OF LOW MOLECULAR WEIGHT ORGANIC PERMEATION IN RO SYSTEMS                  Han-Ying Cai - Tsinghua University</p>	<p>REEVALUATING PERFORMANCE METRICS FOR URBAN STORMWATER SYSTEMS: LESSONS FROM TĀMAKI                  Andrew Chin, Ronan Kelly and Paula Vincent - Auckland Council</p>	<p><b>11:00</b></p> <p><b>Keynote Speaker</b>  <b>Jamie Sinclair, Chief Executive - Watercare Services</b></p>
11:20	<p>EFFECTIVE MANGANESE REMOVAL STRATEGIES IN LA MESA DRINKING</p>	<p>EASY-MAINTENANCE ASSEMBLED DRINKING WATER PLANT</p>	<p>EFFECTIVE SOLUBLE MANGANESE REMOVAL IN DRINKING WATER:</p>	<p>COMPARISONS ON N REMOVAL EFFICACIES, SPECIFIC SURFACE AREA, AND</p>	<p>UNLOCKING THE POTENTIAL: BENCHMARKING LARGE LANGUAGE</p>	<p>LESSONS ESTABLISHING A NATURE-BASED SOLUTION</p>	

	<p>WATER TREATMENT PLANTS Guia Publico - Maynilad Water Services, Inc.</p>	<p>Chengzhi, Hu - State Key Laboratory of Environmental Aquatic Chemistry</p>	<p>OLD PROBLEM WITH NEW CHEMICAL DOSING APPROACHES Thi Ngoc Anh Nguyen - Institute of Environmental Engineering, National Yang Ming Chiao Tung University (NYCU)</p>	<p>MICROBIAL COMMUNITIES OF MBBR AND IFAS Pongsak (Iek) Noophan - Faculty Of Engineering, Kasetsart University</p>	<p>MODELS IN WATER ENGINEERING AND RESEARCH Boyan Xu - Beijing Normal University</p>	<p>PROGRAMME FOR RESILIENT COMMUNITIES Tom Mansell - Auckland Council</p>	<p><b>11:20</b></p> <p style="text-align: center;"><b>Leaders Panel Discussion</b></p> <p style="text-align: center;"><b>Pat Dougherty - Chief Executive - Wellington Water</b></p> <p style="text-align: center;"><b>Allan Prangnell - Chief Executive - Water Services Authority - Taumata Arowai</b></p> <p style="text-align: center;"><b>Nerina Di Lorenzo - Managing Director - Melbourne Water</b></p> <p style="text-align: center;"><b>Jamie Sinclair - Chief Executive - Watercare Services</b></p> <p style="text-align: center;"><b>David Ryan - Chief Executive - SA Water</b></p> <p style="text-align: center;"><b>Andy Burgess - General Manager Infrastructure Regulation - Commerce Commission</b></p>
<p><b>11:40</b></p>	<p>EARLY WARNING OF WATERLOGGING POINTS BASED ON SPATIO-TEMPORAL GRAPH LEARNING Hewen Li - Harbin Institute Of Technology, Shenzhen</p>	<p>WATER SUPPLY NETWORK IMPROVEMENT ACHIEVEMENTS AND PROSPECTS Chih Pin Cheng - Taipei Water Department.</p>	<p>DEVELOPING INTEGRATED MONITORING AND OPERATING SYSTEM: CENTRALIZED MONITORING OF OPERATION AND MANAGEMENT OF APPROXIMATELY 570 FACILITIES IN 1 LOCATION Eiji Kannari - Bureau of Waterworks Tokyo Metropolitan Government</p>	<p>DEEP POLISHING OF EFFLUENT FROM A MUNICIPAL WASTEWATER TREATMENT PLANT BY DIRECT ELECTRON TRANSFER DENITRIFICATION Haoyong li - Beijing Forestry University</p>	<p>ENHANCING VOLATILE FATTY ACID RECOVERY FROM SLUDGE: MACHINE LEARNING-DRIVEN INSIGHTS INTO ELECTROCHEMICAL AND ANAEROBIC PROCESSES Ekisha Sharma - The Hong Kong University of Science and Technology</p>	<p>AN ADVANCED INFRASTRUCTURE ASSET MANAGEMENT MONITORING AND EVALUATION FRAMEWORK FOR WATER UTILITIES, CASE OF MALAWI Pilirani Tiwana - Blantyre Waterboard</p>	
<p><b>12:00</b></p>	<p>EFFECTIVENESS OF DRONE INSPECTION FOR WATER PIPE BRIDGE Yasuhiro Yamaguchi - Japan Water Research Center</p>	<p>CHALLENGES IN IMPLEMENTING ARTIFICIAL INTELLIGENCE FOR OPTIMIZING WATER SUPPLY SYSTEMS IN F.T. LABUAN, MALAYSIA Amirudean Sapiee - Ministry Of Energy Transition And Water Transformation</p>	<p>A STUDY OF MUSTY-ODOR SUBSTANCE REMOVAL PERFORMANCE OF POWDERED ACTIVATED CARBON Kenta Hasegawa - Sapporo Waterworks Bureau</p>	<p>ENHANCING UTILITY ASSET MANAGEMENT WITH BOW TIE ANALYSIS: A VISUAL APPROACH TO RISK AND RESILIENCE Patrick Schnelle - Atom Consulting</p>	<p>RESEARCH ON YIELD RATE OF ECO-FRIENDLY BRICKS BY THE AI IDENTIFICATION TECHNOLOGY Po-Yuan Su - Taiwan Water Corporation Ltd.</p>		
<p><b>12:20 3-Minute Poster Pitches</b></p>	<p>WATER QUALITY ACCIDENT RESPONSE AT THE OZAKU WATER PURIFICATION PLANT Najibullah Rasa - Tokyo Water Co., Ltd.</p>	<p>MICROBIAL COMMUNITIES AND SULFATE REDUCTION OF ACTIVATED SLUDGE CULTIVATED WITH ARTIFICIAL WASTEWATER APPLIED SILICATE ACID Naoki Miyazato - Gunma College</p>	<p>SUSTAINABLE WATER SOLUTIONS USING TECHNOLOGY WITH IWI MAORI COMMUNITIES Marion Savill - Co Chair IWA ASPIRE 2025 and Brendon Green - Kaitiaki Advisory</p>	<p>DIRECT ELECTRON UPTAKE BY METHANOSARCINA BARKERI FOR CO<sub>2</sub> REDUCTION FROM CATHODE VIA HYDROGENASES Dong He - Beijing Forestry University</p>	<p>POWER OF HYBRID APPROACHES Suzana Shipton - Dhi Water And Environment</p>	<p>CATALYSING INNOVATION IN THE WATER SECTOR: THE WSAA RESEARCH, DEVELOPMENT, AND INNOVATION (RD&amp;I) ECOSYSTEM James Goode - Water Services Association of Australia</p>	
	<p>COMPARISON OF A FULL MODEL AND A SIMPLIFIED MODEL FOR PREDICTING FLOODED AREAS DURING RAINFALL Takuma Kiyosu - Japan Institute of Wastewater Engineering and Technology</p>	<p>THE INVESTIGATION OF ENVIRONMENTAL RISK ON PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) IN WU RIVER BASIN Chiung-Fen Chang - Tunghai University</p>	<p>FERTILE WATERS: UNLEASHING THE POTENTIAL OF REUSED WASTEWATER IN FARMING Qiuyan Yuan - University of Manitoba</p>	<p>ANAEROBIC FERMENTATION OF SEAWEED AND THE UTILIZATION OF DIGESTED LIQUID FOR SEAWEED SEEDLING CULTIVATION Chika Tada - Tohoku University</p>	<p>USING AI TO NARROW DOWN BROCKS WITH LARGE AMOUNTS OF STORMWATER INFILTRATION Kosuke Sato - Japan Institute of Wastewater Engineering and Technology</p>	<p>EXPLORING DISSOLVED OXYGEN PROFILE AND MICROBIAL ABUNDANCE IN TWO MUNICIPAL WASTEWATER TREATMENT PLANTS IN TAIWAN Jhao-ning Cai - National Cheng Kung University</p>	
	<p>ANTIBIOTIC RESISTANCE GENE PERSISTENCE IN</p>	<p>ECONOMIC LIFE-CYCLE ASSESSMENT</p>	<p>EFFECT OF INFLUENT NITRITE/AMMONIA RATIO ON THE N2O</p>	<p>THE ROLE OF NI-BASED CATALYSTS FOR THE</p>	<p>MACHINE LEARNING ANALYSIS FOR EFFLUENT QUALITY</p>	<p>PREDICTION OF RESIDUAL CHLORINE IN RAPID-SAND-</p>	

	NEPAL: EFFECTS OF A WASH INTERVENTION AFTER 2015 EARTHQUAKE Daisuke Sano – Tohoku University	OF DENSIFIED SLUDGE Richard Brice - World Water Works	EMISSION OF ANAMMOX PROCESS Misaki Morimoto - Toyo University	PRODUCTION OF HIGH-QUALITY SYNGAS FROM PYROLYSIS SEWAGE SLUDGE Tsai Da-U'ei - Chung Yuan Christian University	MONITORING AEROBIC MEMBRANE BIOREACTORS Sultan Fat Ihza Abdillah - Chung Yuan Christian University	FILTRATION EFFLUENT FOR THE STABLE OPERATION OF WATER PURIFICATION PLANTS Pengzhe Sui - Swing Corporation		
12:30	LUNCH – EXHIBITION AREA, TE PAE							
							12:40	Tim Gibson, President, Water New Zealand
							1:00	WATER NEW ZEALAND CONFERENCE CLOSING CEREMONY
	<b>RISK &amp; RESILIENCE: PROMOTING CLIMATE ADAPTATION INCLUDING CLIMATE RESILIENT WASH INFRASTRUCTURE</b> VENUE: TE PAE, AUDITORIUM 1 & 2  Session Chair: Karina Gin	<b>RISK &amp; RESILIENCE: WASTEWATER SURVEILLANCE</b> VENUE: TE PAE, AUDITORIUM 3 & 4  Session Chair: Joan Rose	<b>SMART SOLUTIONS: PROMOTION OF WATER REUSE (POTABLE RE-USE, RE-USE FOR AGRICULTURE AND INDUSTRY) AS PART OF THE CIRCULAR ECONOMY AND RESOURCE RECOVERY</b> VENUE: TOWN HALL, VICTORIA ROOM  Session Chair: Naresh Singal	<b>SMART SOLUTIONS</b> VENUE: TOWN HALL, LIMES ROOM  Session Chairs: Pao-Wen Liu and Samantha Taylor	<b>EMPOWERING TOMORROW</b> VENUE: TE PAE, RAKAIA  Session Chairs: Theuns Henning and Zoe Vercoe	<b>GOVERNANCE, UTILITY MANAGEMENT AND THE ENABLING ENVIRONMENT: GOVERNANCE MODELS FOCUSED ON MARGINALIZED AND UNDER-SERVED COMMUNITIES</b> VENUE: TE PAE, WAITAKI  Session Chairs: Elaine Moriarty and Andrew Watson	 <b>Finalist in Hynds Paper of the Year Award / Young Author of the Year Award</b>	
1:30	STRATEGIES FOR THE THREAT OF EXTREME WEATHER HIGH-TURBIDITY RAW WATER EVENTS IN TAIPEI Chih-Wei Tseng - Taipei Water Department	WASTEWATER SURVEILLANCE OF ANTIMICROBIAL RESISTANCE GENES BY HIGH-THROUGHPUT QUANTITATIVE PCR IN FIVE CITIES IN VIETNAM Thi My Hanh Vu - School of Engineering, The University of Tokyo	AI-BASED AERATION CONTROL TECHNOLOGY FOR ACHIEVING BOTH NITROGEN REMOVAL AND ENERGY EFFICIENCY Wataru Yoshida - Mitsubishi Electric Corporation	NITRATE REMOVAL FROM DRINKING WATER USING A CELLULOSE-BASED ANION EXCHANGE HYDROGEL IN A FIXED-BED COLUMN Sepideh Ansari - University Of Canterbury	ENHANCING EFFLUENT PREDICTION BY COMBINING MECHANISTIC AND MACHINE LEARNING MODELS IN A WASTEWATER TREATMENT PLANT Chih-Hua Chang - National Cheng Kung University	GOVERNING FOR THE MINORITY: NAVIGATING WATER CHALLENGES IN RURAL AND ISLAND SCOTLAND Elizabeth Lawson - Newcastle University		
1:50	MODELING AND EVALUATION OF FLOW SIMULATION IN THE KISO RIVER SYSTEM Kyota Nishi - Nagoya City Waterworks & Sewerage Bureau	METAGENOMIC INSIGHTS INTO MICROBIAL ADAPTATIONS TO CLIMATE WARMING IN THE YELLOW RIVER OF CHINA Wensi Zhang - University of Auckland	IMPROVING ENERGY EFFICIENCY IN ACTIVATED SLUDGE TREATMENT BY COMBINING DEEP AERATION AND DEGASSING COMPARTMENT Mifuyu Harada - National Institute for Land and Infrastructure Management	AN INNOVATIVE METHOD FOR RAPIDLY ASSESSING POLLUTANT TOXICITY BASED ON DAPHNIA MAGNA'S "ELECTROCARDIOGRAM": IMPLICATIONS FOR WASTEWATER SURVEILLANCE Liao Zitong - School of Environment, Tsinghua University, Beijing	CAN MACHINE LEARNING PROVIDE SMART WATER SOLUTIONS FOR FLOOD RISK MITIGATION IN NEW ZEALAND? Nancy Baines and Sam Greenwood - Mott Macdonald	INNOVATIVE FINANCING AND BUSINESS MODELS FOR WATER TREATMENT NATURE-BASED SOLUTIONS: INSIGHTS FROM URBAN MULTI-ACTOR CO-CREATION Maria Wirth - Alchemia-nova		
2:10	IMPROVING WATER SUPPLY RESILIENCE THROUGH A SCIENTIFIC APPROACH TO LEAKAGE MODELLING	PRESSURE-DRIVEN LEAK DYNAMICS: INSIGHTS FOR DISTRIBUTION SYSTEMS	THE ENPHYTOBOX® SUSTAINABLE WATER TREATMENT SOLUTION: SYRINX AND TE KOMITI NUI O NGĀTI WHAKAUE PARTNERSHIP.	SUSTAINABLE WATER SOLUTIONS WITH IWIMAORI & TECHNOLOGY WAI RĀ - KATŌ WAI Brendon Green - Ngāti Hikairo-Waikato Tainui	A RISK-BASED CAPITAL PRIORITISATION MODEL FOR WATER BUSINESSES Courtney Rogers - Ricardo	EFFORTS TOWARD A DUAL WATER SUPPLY SYSTEM FOR STABLE WATER DISTRIBUTION Kazumasa Hashiyada - Sendai City		

	Kobus Van Zul - University Of Auckland	Soheila Beygi - Watercare Services Limited	Phoebe Tinning - Syrinx Environmental NZ			Waterworks Bureau, Japan
2:30	REMOVAL OF DISINFECTION RESIDUAL BACTERIA IN UV222-BASED SYSTEMS: WHAT IS SAFE USAGE FOR WASTEWATER RECLAMATION Rui Gao - Harbin Institue Of Technology	THE ANSWER TO X VIRUS: TRANSMISSION MECHANISM WITHIN UNINFECTED COMMUNITY REVEALED BY WASTEWATER SURVEILLANCE Gang Liu - Research Center for Eco-Environmental Sciences, Chinese Academy of Sciences	ASSESSING THE SOCIAL, ECONOMIC, AND ENVIRONMENTAL IMPACTS OF WATER METERING IN HAMILTON, NEW ZEALAND Maryam Moridnejad and Kacey Bennett - Wintec	EVALUATING LOCALIZED GROWTH RATES AND COD FRACTIONS FOR SIMULATIONS IN FULL-SCALE WWTPS: A TAIWAN PERSPECTIVE Hai-Hsuan Cheng - National Cheng Kung University	DRIVING BUSINESS OUTOMES THROUGH AUSTRALIAN WATER SECTOR BENCHMARKING & KEY ASSET MANAGEMENT TRENDS James Goode - Water Services Association and Francois Joubert - Aurecon.	
2:50 3-Minute Poster Pitches	THE SALT MENACE: A CREEPING PROBLEM FACING DRINKING WATER SUPPLIES Ben Golding – Beca HunterH2O	WASTEWATER-BASED SURVEILLANCE FOR RESPIRATORY VIRUSES IN NEW ZEALAND Andri Rachmadi – ESR, New Zealand	EXTRACTION OF COPPER SPECIES FROM CMP WASTEWATER BY MODIFIED MESOPOROUS Hsin-Liang Huang - National United University	ANTENEH JERRYCAN Melat Badebo – Anteneh Jerrycan	ENHANCING THE FUNCTIONALITY OF THE WATER TREATMENT FACILITY RENEWAL SIMULATOR Naoyuki Shiotani – Japan Water Research Center	STABLE WATER SUPPLY TO HIGHLAND AREAS FOR DROUGHT RESISTANCE THROUGH INNOVATIVE AND INCLUSIVE APPROACHES May-liang Lin - Taiwan Water Corporation
	PHAGE BIOENGINEERING OF COMPLEX COMMUNITIES FOR ENHANCED WASTEWATER TREATMENT Matt Irwin – University of Southampton, National Biofilm Innovation Centre (NBIC)	ASSESSMENT OF SELECTED ANTIBIOTICS IN UNTREATED AND TREATED WASTE WATER Susan Wangari - Kangi	INTEGRATED ELECTROFLOCCULATION-MEMBRANE PROCESS FOR PRE-CONCENTRATION FROM LOW CARBON DOMESTIC WASTEWATER: PROCESS PERFORMANCE, MEMBRANE FOULING AND ORGANIC RECOVERY CHARACTERISTICS Yuan Yang - Xi'an University of Architecture and Technology	THEY TRY TO TAKE MY PIPE TO REHAB., BUT I SAY, "NO, NO, NO." Eliza Cowey - Aecom	EMPOWERING TAIWAN'S SEMICONDUCTOR INDUSTRY: HOT TAPPING AND PIPE FREEZING TECHNOLOGY FOR SMART WATER SOLUTIONS Fei-lung Liu - National Taipei University Of Technology	TRANSFORMING WATER SERVICES IN FIJI: THE EVOLUTION AND IMPACT OF WAF'S ICT INFRASTRUCTURE Reenesh Latchman - Water Authority Of Fiji
	PRE-CONSTRUCTION CHALLENGES IN OFF-RIVER STORAGE PROJECTS: A PATHWAY TO SUSTAINABLE WATER RESOURCE MANAGEMENT IN MALAYSIA Mohamad Hafzan Abdul Aziz - Water Supply Department			SMART WATER SOLUTIONS: THE ROLE OF DIGITAL TWINS IN SHAPING THE FUTURE OF UTILITIES David Monteiro - Qatium	WASH WORKFORCE ATTRITION: WHY DO PEOPLE LEAVE THE SECTOR? Kimberly Worsham - FLUSH	SUPERHYDROPHOBIC SURFACES IN WATER AND WASTEWATER AND EFFECT ON VELOCITY AND FLOW STRUCTURE Chelsea Grove – Lutra
3:00	AFTERNOON TEA – RIVERS ROOM, TE PAE					

<p><b>3:30</b></p>	<p><b>VENUE: TE PAE, AUDITORIUM 1 &amp; 2</b></p> <p>Plenary session topic: Drinking water and sanitation services: building in resilience in the wake of natural disasters.  <b>From Recovery to Resilience Planning</b></p> <p>Plenary Chair: Darryl Day</p> <p>Keynote speaker: Nerina di Lorenzo - Managing Director - Melbourne Water, Australia          Keynote speaker: Craig Thew - Group Manager Infrastructure - Hasting District Council, New Zealand          Keynote speaker: Stanislav Kim, Team Leader for the Disaster Resilience Team - Crisis Bureau</p> <p>Panel discussion:          Meike Van Ginneken – Cabinet of the Netherlands Water Envoy          Corinne Cheeseman - Chief Executive, Australian Water Association</p>	
<p><b>4:45-5:10</b></p>	<p>10<sup>th</sup> IWA ASPIRE closing ceremony</p> <p>Marion Savill and Gillian Blythe</p> <p>Closing Karakia – Ngāi Tūāhuriri</p>	

**DAY FOUR (FRIDAY, 3 OCTOBER 2025)**

**Site Visits**

**Site Visit 1: The Evolution of Christchurch’s Blue-Green Infrastructure**

Transport: Bus provided  
 Depart: 9:00am from Christchurch Town Hall  
 Return: 1:00pm to Christchurch Town Hall  
 Cost: \$58.00 inc. GST

**Description:**  
 Before the settlement and development of Ōtautahi/Christchurch City the wetland, waterways and forests located near Horomaka/Port Hills were highly valued for their resources, with Ngāi Tahu (indigenous tribe) having small kainga (settlements) in and around the wetlands. However, to establish Christchurch City, settlers sought to drain these wetlands and reduce flooding, with a vast array of drains and piped networks being installed, and the Ōtakaro/Avon and Ōpawhao/Heathcote rivers being channelised. It wasn’t until the later part of the 19th century when water quality became more of a focus due to pollution of drinking water and freshwater sources with wastewater and other discharges. In 1999, through the Natural Asset Strategy, Christchurch City Council developed a vision for the future of stormwater, drainage and flood risk management that considered not just land drainage but a wider values-based approach where heritage, ecology, landscape, culture and recreation were also important. This vision has set the foundation for development and in particular rebuilding after the Canterbury Earthquakes of 2010/2011.

This site visit will take you to a number of key project sites within south-west Christchurch, from one of our older utilitarian concrete structures to the more recent multi-use wetland facilities and other nature-based solutions. Along the journey you will discover how CCC’s vision has evolved over time, how technological advancements have been incorporated, how Ngāi Tahu values and matauranga (traditional knowledge) have been considered, and some of the hurdles that have had to be tackled along the way.

**Site Visit 2: Banks Peninsula: Wastewater, Lakes, and Harbour**

Transport: Bus provided  
 Depart: 8:30am from Christchurch Town Hall  
 Return: 6:30pm to Christchurch Town Hall  
 Cost: \$95.00 inc. GST

**Description:**  
 This full-day cultural and technical tour explores the intersection of wastewater treatment, freshwater quality, and local history across the Banks Peninsula region. The journey begins with visits to Te Waihora (Lake Ellesmere) and Lake Wairewa (Lake Forsyth), where participants will gain insight into the historical and current water quality challenges affecting these significant water bodies.

A key highlight of the day is a visit to Wairewa Marae, where a state-of-the-art, nature-based wastewater treatment system has been developed. This is followed by a tour of the Akaroa Harbour wastewater reuse scheme, where current innovations, operational challenges, and future ambitions will be discussed.

Led by experts from NIWA, ECAN, and Christchurch City Council, the tour offers a rich blend of technical insights, cultural engagement, and stunning natural scenery. A pōwhiri at Wairewa Marae adds depth to the cultural exchange.

Participants can expect interactive discussions, short site walks, and on-the-ground presentations that support a deeper understanding of modern wastewater infrastructure in both rural and cultural settings.

**Please bring:** sturdy footwear, a raincoat, sun protection, and a hat

There is an optional Black Cat Cruises boat tour at an additional cost if you have some spare time in Akaroa. This can be found on the Tourism page.

**Site Visit 3: Braided River Irrigation and Environmental Stewardship**

Transport: Bus provided  
 Depart: 9:00am from Christchurch Town Hall  
 Return: 3:00pm to Christchurch Town Hall  
 Cost: \$64.00 inc. GST

**Description:**

Join us for a journey across the Canterbury Plains to discover the story behind Central Plains Water Ltd (CPWL) - a pioneering irrigation scheme enabling sustainable farming over 45,000 hectares between the Rakaia and Waimakariri Rivers.

This site visit offers a behind-the-scenes look at CPWL's innovative infrastructure, including intakes and the labyrinth weir, while highlighting the cooperative spirit and environmental stewardship at the heart of the project. Learn how a catchment-based approach has enabled continuous improvement of on-farm practices while protecting the cultural, recreational, and ecological significance of Canterbury's braided rivers.

**Please Bring:** Sturdy, closed toe shoes. High Vis will be provided.

**Site Visit 4: Ōtākaro Avon River Walk**

Transport: No Bus - this is a walking tour.  
 Depart: 9:00am from Christchurch Town Hall  
 Return: 12:00pm to Christchurch Town Hall  
 Cost: \$53.00 inc. GST

**Description:**

Circa 2 km round trip. Join us for a unique short waterway walk along the Ōtākaro Avon River Precinct. This circular and insightful journey, travelling upstream from Te Pae Christchurch Convention Centre to the Antigua Boatsheds, offers a deep dive into Christchurch's rich river history and its cultural significance. Discover the historical importance of the swamps upon which Ōtautahi Christchurch was built, including the ancestral site of Puari Pā. Along the way, we'll explore cutting-edge, low-impact stormwater design along the promenade and witness the groundbreaking ecological restoration of the river in the aftermath of the earthquakes, known as Watermark.

This walk is not just about the regeneration of a city - it's about reconnecting with the spirit of the waterway, its past, and its future. Connect with peers and gain invaluable insights into urban water resilience through a bi-cultural lens.

**Site Visit 5: OARC - Ōtākaro Avon River Corridor**

Transport: Bus Provided  
 Depart: 9:00am from Christchurch Town Hall  
 Return: 12:00pm to Christchurch Town Hall  
 Cost: \$52.00 inc. GST

**Description:**

Join GHD and Christchurch City Council representatives for a 60-90 minute walking tour through two key sites along the Ōtākaro Avon River Corridor (OARC), where we'll explore a compelling before-and-after story of post-earthquake regeneration. This site visit offers a rich narrative that blends historical context, environmental challenges, and a bold vision for the future of Christchurch's red zone.

The site visit begins at the Waitaki Street site, which is a recently constructed project as part of the flood management programme for the corridor. Flood management and stormwater treatment being the original drivers of the project, the site is now a partially restored area that exemplifies what can be possible when thoughtful design and ecological values intersect. We'll discuss how this area was used prior to the earthquakes and examine the journey taken to transform it – from overcoming wetland consenting hurdles, site-specific constraints, and the design of the new stopbanks and tidal wetland.

From there, we'll walk to an adjacent red zone site that remains largely untouched. Here, participants will be invited to reflect on the potential for regeneration and reimagine the future of this space through the same lens of care, collaboration, and environmental stewardship demonstrated at the Waitaki Street site.

This tour offers not just a look at what has changed, but also a space to consider what could be - and what it takes to get there.

**Site Visit 6: Drinking Water**

Transport: Bus provided  
 Depart: 8:30am from Christchurch Town Hall  
 Return: 12:30pm to Christchurch Town Hall  
 Cost: \$58.00 inc. GST

**Description:**

Join Christchurch City Council's Judy Williamson for a behind-the-scenes look at how Christchurch delivers safe, high-quality drinking water to its residents. This four-hour field trip explores three of the city's water treatment plants, as well as a community drinking water station, providing insights into the unique nature and scale of Christchurch's supply, which comprises 44 treatment plants across the city.

Along the way, topic specialists will highlight site-specific features, giving participants an appreciation of how the system has evolved over time and the complexities of managing such a vital resource. Engagement will include short walks at each site, with opportunities for questions and discussion during travel.