

# WATER NEW ZEALAND CONFERENCE & EXPO 2022

## PRELIMINARY PROGRAMME

### MONDAY 17 OCTOBER

Pre-Conference Workshop

### TUESDAY 18 OCTOBER

7:30	REGISTRATION OPENS					
7.15-8.15	AURECON YWP BREAKFAST					
8:45	CONFERENCE OPENING AND WELCOME FROM THE WATER NEW ZEALAND PRESIDENT, HELEN ATKINS					
9:10	OPENING GUEST SPEAKER: HON NANAIA MAHUTA, MINISTER FOR LOCAL GOVERNMENT					
9:40	CONVERSATION WITH SIR TIPENE O'REGAN AND GILLIAN BLYTHE					
10:30	MORNING TEA – EXHIBITION AREA					
	THOUGHT LEADERSHIP: TE AO MAORI	DRINKING WATER	PIPELINES	CLIMATE CHANGE - EMISSIONS	WASTEWATER TREATMENT	WORKSHOP STREAM
11.00	ENABLING MANA WHENUA INVOLVEMENT <b>Mahina-A-Rangi Baker – Te Wānanga o Raukawa</b>	A WAI BLUEPRINT <b>Hugh Blake-Manson – Waugh Infrastructure &amp; Murray England - Selwyn District Council</b>	TAKING ON A MOUNTAIN OF INSPECTION DATA – DEVELOPING A FLEXIBLE DATA MANAGEMENT SOLUTION  <b>Oliver Modricker - ProjectMax</b>	MEASUREMENT ON THE PATH TO MITIGATION - GHG EMISSIONS FROM THE NELSON WWTP <b>Ollie Whalley – Tonkin &amp; Taylor</b>	INTELLIGENT, INTEGRATED WASTE TREATMENT: CONSOLIDATING WASTE MANAGEMENT INFRASTRUCTURE AND ASSETS FOR LOWER COSTS, REDUCED CARBON FOOTPRINT AND BETTER ECOLOGICAL OUTCOMES <b>Garry Macdonald - Beca</b>	IN PROCESS OF BEING CONFIRMED
11.30	TE MANA O TE WAI – NGAI TAHU PERSPECTIVE	CHRISTCHURCH FLUORIDATION: IMPLEMENTATION PLANNING FOR A 40+ FACILITY SYSTEM <b>Jack Deeley – Jacobs &amp; Michele McDonald – Christchurch City Council</b>	DEFECT ASSESSMENT OF SEWER PIPES BASED ON CCTV INSPECTIONS <b>Zahra Tizmaghz - University of Auckland</b>	PREDICTION OF WASTEWATER TREATMENT GREENHOUSE GAS EMISSIONS USING A REAL-TIME MODEL <b>David Hume – Mott MacDonald</b>	BIOSOLID GASIFICATION DEMONSTRATION PLANT RESULTS AND APPLICABILITY TO NEW ZEALAND'S LANDFILL LOVING PROBLEM <b>Salma Ryan – Downer New Zealand</b>	
12.00	UNDERSTANDING TE MANA O TE WAI AND ACCESS TO RESOURCES  <b>Julian Williams - Te Huia Resources</b>	USE OF METAGENOMICS AND WHOLE GENOME SEQUENCING TO UNDERSTAND DRINKING WATER QUALITY  <b>Megan Devane - ESR</b>	PRESSURE PIPE CONDITION – RIGHT PIPE, RIGHT TEST <b>Aaron Prince - ProjectMax</b>	LAUGHS AND LEAKS – GLOBAL LESSONS FOR MITIGATING PROCESS EMISSIONS <b>Hayden Porter - Jacobs</b>	ENHANCED METHANE PRODUCTION USING AN INTEGRATED ANAEROBIC DIGESTION AND BIOELECTROCHEMICAL SYSTEM <b>Afroz Bayat – University of Canterbury</b>	
12:30	LUNCH – EXHIBITION AREA FROM 1.00PM – AUDITORIUM - YWPs FIRESIDE CHATS – JON LAMONTE WATERCARE SERVICES AND EMILY AFOA TEKTUS COUNSULTANTS FACILIATED BY HANNAH EDMONDS MOTT MACDONALD					
	THOUGHT LEADERSHIP: POLICY	DRINKING WATER SAFETY	PIPELINES	SUSTAINABILITY	WASTEWATER TREATMENT	WORKSHOP STREAM

2:00	THREE WATERS REGULATION – SETTING THE NEW WATER SERVICES ENTITIES UP FOR SUCCESS <b>Petra Carey – Russell Mcveagh</b>	CHALLENGES, LESSONS AND METHODS FOR LEAVING A RESIDUAL IMPACT <b>Jess Hamilton – Jacobs &amp; Ian Baker – Christchurch City Council</b>	PIPE ALIGNMENT TOOL <b>Andrew Liese – Stantec</b>	MAKING NEW ZEALAND GREEN AGAIN – A ‘LIVING’ ROOF STORY <b>Rachel Device – Auckland Council</b>	INNOVATIVE CHAIN DRAGGING TECHNIQUE CONTROLS MIDGES AT MANGERE <b>Christopher Garton - Watercare</b>	<b>SWIG WORKSHOP</b>
2:30	CLIMATE CHANGE AMENDMENTS – IMPLICATIONS FOR WATER PROJECTS <b>David Allen &amp; Frances Wedde – Buddle Findlay</b>	SOURCE WATER RISK MANAGEMENT AREA MODELLING FOR GROUNDWATER: ISSUES AND UNCERTAINTIES <b>Helen Rutter – Aqualinc Research Ltd</b>	KAITOKE FLUME BRIDGE REPLACEMENT: USING SEISMIC RESILIENT DUCTILE IRON PIPE <b>Hayden Pipe – Stantec &amp; Todd Randell – Hynds</b>	PLACEMAKING AND LOCAL WATER SYSTEMS, DO THEY REALLY WORK? <b>Robert Keesen - Aurecon</b>	INITIAL RESPONSE IN AN EMERGENCY: CHRISTCHURCH WWTP FIRE <b>Becky Macdonald - Jacobs</b>	
3:00	SHINING A LIGHT ON DRINKING WATER THROUGH DATA <b>Katy Te Amo &amp; Michael Howden – Taumata Arowai</b>	WATER SAFETY PLANNING: A COLLABORATIVE APPROACH <b>Sadie Boersema - WSP</b>	AN UPDATE: CURRENT REVIEW OF FOUR TYPES OF SEWAGE DROP STRUCTURES <b>Anthony Margevicius - Aecom</b>	PLANNING FOR SUSTAINABILITY, QLD'S WASTEWATER STORY <b>Reuben Bouman - Beca</b>	SUCCESSFUL RESEARCH AND DEVELOPMENT IMPLEMENTATION OF ‘ODOZONE’ ODOUR MITIGATION TECHNOLOGY AT GOULBURN VALLEY WATER SHPS <b>Andrew Fleming – Aquatec Fluid Systems</b>	
3:30	<b>AFTERNOON TEA – EXHIBITION AREA</b>					
	<b>THOUGHT LEADERSHIP: TRANSITION &amp; TRANSFORMATION</b>	<b>DRINKING WATER TREATMENT</b>	<b>ASSET MANAGEMENT</b>	<b>SUSTAINABILITY</b>	<b>WASTEWATER TREATMENT</b>	<b>WORKSHOP STREAM</b>
4:00	TRANSITION AND TRANSFORMATION - LIVED EXPERIENCES <b>Allan MacMaster – Scottish Water/Aecom</b>	GETTING TO ACCEPTABLE – DRINKING WATER SOLUTIONS FOR SMALLER WATER SUPPLIES <b>Kathryn Jessamine - Beca</b>	THE BENEFITS OF FORMALISED CONDITION ASSESSMENT PROGRAMMES FOR WATER UTILITIES BASED ON LESSONS LEARNED <b>Steve Apeldoorn – ProjectMax &amp; Robert Blakemore – Wellington Water</b>	QUANTIFYING THE POTENTIAL IMPACTS OF CLIMATE CHANGE ON AUCKLAND'S WATER RESOURCES <b>Lucy Whitelock-Bell – Tonkin &amp; Taylor</b>	PILOTING A MOVING BED BIOFILM REACTOR (MBBR) TO TREAT POND EFFLUENT FOR NITROGEN REMOVAL <b>Andreas Fischer - Lutra</b>	<b>WECAN WORKSHOP</b>
4:30	THE INNOVATION FORUM: TE RERE AUHA O PARAWHENUAMEA (THE FLOWING CREATIVITY OF PARAWHENUAMEA) <b>Innovation pitches, Q&amp;A session plus judging panel</b>	PFAS – A CASE STUDY OF INNOVATIVE, EFFICIENT, AND EFFECTIVE TREATMENT TECHNOLOGY <b>Afooz Bayat - Aecom</b>	REMOTE MONITORING OF THE WASTEWATER NETWORK TO REDUCE OVERFLOWS IN OUT-OF-SIGHT PLACES <b>Heather Kikkert - Hamilton City Council</b>	PATHWAY TO CIRCULAR ECONOMY – SUGGESTIONS FOR NEW ZEALAND'S THREE WATERS IN A TIME OF TRANSFORMATION <b>Emma Botha - GHD</b>	MEMBRANE AERATED BIOFILM REACTOR (MABR) PILOT TESTING <b>Kevan Brian - Watercare</b>	
5:00		THE DARK SIDE OF DRINKING WATER – CONSIDERING AND MANAGING RESIDUAL STREAMS <b>Scott Pearson - Beca</b>	HOW TO WATER YOUR PRECINCTS <b>Albert Ho - Aurecon</b>	EMBEDDING REGIONAL RESILIENCE USING CIRCULAR ECONOMY – POTENTIAL PATHWAYS FOR GOULBURN VALLEY, VICTORIA, AUSTRALIA <b>John Poon - Aurecon</b>	AN INTEGRATED MODEL FOR WASTE STABILISATION POND PRACTITIONERS <b>Kevan Brian - Watercare</b>	
5:30	<b>INTERGROUP WELCOME RECEPTION – EXHIBITION AREA</b>					

WEDNESDAY 19 OCTOBER

7:15	WATER NEW ZEALAND AGM					
8:00	REGISTRATION OPENS					
8:30	KEYNOTE: BILL BAYFIELD, CHIEF EXECUTIVE, TAUMATA AROWAI					
9:15	KEYNOTE: ZIENA JALIL – BE THE CHANGE YOU WANT TO BE					
10:00	MORNING TEA – EXHIBITION AREA					
	THOUGHT LEADERSHIP: RISK, INSURANCE & FINANCE	PROCUREMENT	TE AO MAORI	IWA STREAM	SUSTAINABILITY - NET ZERO	WORKSHOP STREAM
10:30	CYBERSECURITY <b>JENNIE VICKERS – Zeopardlaw</b>	8 WEEKS WORK IN 4 DAYS - THE JERVOIS QUAY EMERGENCY WORKS <b>James Matthews - GHD</b>	HE PUKENGA WAI, HE PUKENGA KŌRERO - UNDERSTANDING THE KNOWLEDGE LANDSCAPE FOR WATER IN AOTEAROA <b>Alexandra Hare - Aurecon Group</b>	TOTAL COLIFORMS IN PUBLIC WATER SUPPLIES: CASE STUDIES IN THE PURSUIT OF THE ELIMINATION STRATEGY <b>Colin Roxburgh - Waimakariri District Council</b>	POWERING A GREENER FUTURE <b>Damien Dupont - Watercare</b>	SWANS WORKSHOP
11:00	NATURAL DISASTERS <b>Gill Jolly – GNS</b>	3WATERS DELIVERY ON THE CHATHAM ISLANDS - MAXIMISING OPPORTUNITIES <b>Andrew Wong - Stantec</b>	PARTNERING WITH IWI/HAPU IN DEVELOPING WATER PROJECTS <b>Buddle Finlay</b>	HUMAN ENTERIC VIRUS REMOVAL IN POINT-OF-USE FILTERS AND SHEEP-WOOL MEDIA <b>Erin McGill - ESR</b>	FEASIBILITY STUDY: USING TREATED WASTEWATER FROM MANGERE AND ROSEDALE PLANTS FOR SPORTS-FIELDS IRRIGATION IN AUCKLAND <b>Sarisha Hurrisunker – Auckland Council</b>	
11:30	INSURANCE IN THE FACE OF EXTRAORDINARY RISKS	CHANGING THE WAY WE MANAGE CAPITAL INVESTMENT PORTFOLIOS: URBAN UTILITIES' PROGRAMME MANAGEMENT APPROACH <b>Robert Wilson - Kellogg Brown &amp; Root Pty</b>	IMPLEMENTING MAHINGA KAI AS A COMPULSORY MĀORI FRESHWATER VALUE UNDER THE NPS-FM 2020 <b>Ian Ruru - Maumahara Consultancy Services Ltd</b>	DEVELOPING A BIOPOLYMER SURROGATE TO STUDY BIOFILM ATTACHMENT/DETACHMENT OF LEGIONELLA PNEUMOPHILA <b>Sujani Ariyadasa - ESR</b>	BLUE CARBON – THE NEW GREEN? AN OPPORTUNITY TOWARDS NET ZERO EMISSIONS <b>Rebecca Phyland - Jacobs</b>	
12:00	GREEN FINANCE AND ITS' ROLE IN ENCOURAGING SUSTAINABLE OUTCOMES <b>Adam Coxhead – BNZ</b>	DELIVERING THE DESIRED BENEFITS OF WATER REFORM THROUGH PROGRAMME MANAGEMENT <b>Alan Mackintosh &amp; Grant Cooper - Aecom</b>	MAANUKA-DOMINATED RIPARIAN PLANTINGS FOR RECOVERING THE MAURI OF LAKE WAIKARE <b>Maria-Jesus Gutierrez-Gines – ESR &amp; Tawera Nikau – Matahuru Marae</b>	CRYPTOSPORIDIUM SURROGATE REMOVAL IN PILOT-SCALE RAPID SAND FILTERS AND POINT-OF-USE FILTERS <b>Liping Pang - ESR</b>	IMPROVING WATER QUALITY TREATMENT THROUGH AN INNOVATIVE OFFSET MITIGATION APPROACH <b>Matt Wilkins – Candor3 &amp; Brendon Hosken – Kainga Ora</b>	
12:30	LUNCH – EXHIBITION AREA POSTER PRESENTATIONS - FOYER					
	THOUGHT LEADERSHIP: PEOPLE	SMART WATER	ASSET MANAGEMENT	IWA STREAM	WASTEWATER TREATMENT	WORKSHOP STREAM
1:30	HOME SWEET HOME <b>Helen Tua – Mercury Energy &amp; Toitu Tahua Centre for Sustainable Finance</b>	USING REMOTE ON-LINE DATA ANALYTICS AND AI TO IDENTIFY THE RATS IN YOUR SEWER <b>Hugh Ratsey - The Wastewater Specialists &amp; Phil de Groot - Trility</b>	SUCCESSFUL IMPLEMENTATION OF ISO 55001 – PAPA KURA FRANCHISE <b>Minesh Patel &amp; Jekabs Rozitis – Veolia</b>	MĀNUKA-DOMINATED RIPARIAN PLANTINGS FOR THE MITIGATION OF DIFFUSE AGRICULTURAL NITROGEN <b>Olivia Maria Adamson - University of Waikato</b>	FIELD SCALE ASSESSMENT OF CONTAMINANT TRANSPORT FROM AN ON-SITE WASTEWATER MANAGEMENT SYSTEM: RISK TO GROUNDWATER <b>Bronwyn Humphries - ESR</b>	CLIMATE CHANGE WORKSHOP

2:00	WORKFORCE – MAORI WORKERS & WATER <b>Anton Matthews – Hussle Group</b>	WATER AND WASTEWATER SYSTEMS IMPROVEMENTS THROUGH DIGITAL OPERATIONS ANALYSIS <b>Jared Thorpe – Jacobs</b>	PREPARING – AND PREPARING TO DELIVER – TREATMENT PLANT MASTERPLANS <b>Julianne Martin – Lutra</b>	NATIVE VEGETATION: A NEW PARADIGM FOR THE LAND APPLICATION OF WASTEWATER? <b>Alexandra Meister – ESR &amp; Hamish Lowe – Lowe Environmental Impact</b>	CRUSHED GLASS AS A FILTER MEDIUM FOR ON-SITE WASTEWATER TREATMENT SYSTEMS <b>Marc Jensen – Tm Consultants</b>	
2:30	WATER WORKFORCE – BIG PICTURE PERSPECTIVES <b>Alan Dent – Deloitte</b>	REDUCING OPEX, SENSOR DRIFT AND EMISSIONS THROUGH DIGITAL INNOVATION <b>Anna Whitmore – Mott Macdonald</b>	TAKING LEGAL ACTION AGAINST WATER THEFT: PROTECTING CUSTOMERS, NOT REVENUE <b>Lauren Nicholson – Watercare</b>	THE BIOFACTORY: LIFE CYCLE SUSTAINABILITY ASSESSMENT FOR PROMOTING CIRCULAR ECONOMIES IN WASTEWATER TREATMENT <b>Madeline Furness – University of Canterbury</b>	CHANGE OF GUARD – CAN CBOD AND TSS TAKE A BACK SEAT? <b>Ash Deshpande &amp; Emma Cross – Lutra</b>	
3:00	<b>AFTERNOON TEA – EXHIBITION AREA</b>					
	<b>THOUGHT LEADERSHIP: CLIMATE AND ENVIRONMENT</b>	<b>SMART WATER</b>	<b>WORKFORCE</b>	<b>IWA STREAM</b>	<b>WASTEWATER TREATMENT</b>	<b>WORKSHOP STREAM</b>
3:30	UNCONSCIOUS BIAS IN INVESTMENT DECISION MAKING <b>Adrienne Miller – Infrastructure Sustainability Council</b>	THE FUTURE OF WATER VIRTUAL COMMUNICATIONS AND ENGAGEMENT IN A DIGITAL WORLD <b>Deborah Lind &amp; Jo Duncan – AECOM</b>	AIRING OUR DIRTY LAUNDRY – AN OPEN ACCOUNT OF OUR INCLUSION AND DIVERSITY JOURNEY <b>Kate Simmonds – Jacobs</b>	REVISITING WAIKOUAITI, WHY LEAD IS STILL IMPORTANT. <b>Belinda Cridge – ESR</b>	LYTTELTON HARBOUR SCHEME – REMOVING WASTEWATER DISCHARGES FROM A HARBOUR <b>Anthony Doherty &amp; Matthew Sheppard – Jacobs</b>	<b>WSMG WORKSHOP</b>
4:00	CIRCULAR ECONOMY A PANEL DISCUSSION: <b>Facilitator – Apra Boyle-Gotla (facilitator), Debbie O’Byrne (Beca), Alzbeta Bouskova (Ecogas) and Matthew Jackson (Alimentary Systems)</b>	OPERATIONALISING SMART METER NETWORKS: BENEFITS FOR UTILITIES AND THEIR CUSTOMERS <b>Tony Wise - Jacobs</b>	FIGHTING THE LABOUR SHORTAGE IN THE WATER SECTOR: ATTRACTING AND RETAINING IMMIGRANTS AND WOMEN <b>Gabriela Campos Balzat – GHD</b>	PERMEABLE REACTIVE BARRIERS FOR REMOVAL OF NITRATE IN SHALLOW GROUNDWATER <b>Louise Weaver – ESR</b>	INNOVATIVE WASTEWATER TREATMENT SYSTEMS FOR EXTREME ALPINE ENVIRONMENTS <b>Matt Savage – Apex Water</b>	
4:30		INFORMED AI IN THE WATER SECTOR - THE ROADMAP POSSIBLE TO PLAUSIBLE <b>Silvia Vlad - Jacobs</b>	THE JOURNEY TO BECOMING BETTER <b>Masenia Konefereisi &amp; Quentin Griffiths - Lutra</b>	PREDICTING WATER QUALITY USING MACHINE LEARNING <b>Judith Webber - ESR</b>	COMBINING THE USE OF ENGINEERED AND NATURAL PLANTS IN ACTIVATED SLUDGE SYSTEMS <b>John Koumoukelis – Hydroflux Epco</b>	
6:00	<b>“OUR SHOUT” - WATER NEW ZEALAND’S PRE-DINNER DRINKS</b>					
7:00	<b>DOWNER CONFERENCE DINNER</b>					

THURSDAY 20 OCTOBER

8:30	<b>REGISTRATION OPENS</b>	
9:00	<b>KEYNOTE: GEORGE HAWKINS, MOONSHOT MISSIONS (FORMER DC WATER CEO)</b>	<b>EXHIBITION VISITORS’ MORNING</b>
9:45	<b>KEYNOTE: TUKOROIRANGI “TUKU” MORGAN – CO-GOVERNANCE, ACCOUNTABILITY &amp; REPRESENTATION</b>	
10:15	<b>MORNING TEA</b>	
10:45	<b>KEYNOTE: GAIL TIPA - WATER FLOWS AND WHĀNAU PERSPECTIVES</b>	
11.30	<b>CONVERSATIONS WITH GILLIAN BLYTHE, WATER NEW ZEALAND CHIEF EXECUTIVE</b>	

12:15	WATER NEW ZEALAND – THE NEXT YEAR: WATER NEW ZEALAND PRESIDENT, LORRAINE KENDRICK
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12:30	CONFERENCE CLOSE
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