

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 - BEALEY B4+B5					
8:45	CONFERENCE OPENING AND WELCOME FROM THE WATER NEW ZEALAND PRESIDENT, HELEN ATKINS – AUDITORIUM					
9:10	OPENING GUEST SPEAKER: HON NANAIA MAHUTA, MINISTER FOR LOCAL GOVERNMENT – AUDITORIUM					
9:40	CONVERSATION WITH SIR TIPENE O'REGAN AND GILLIAN BLYTHE – AUDITORIUM					
10:30	MORNING TEA – EXHIBITION AREA					
	THOUGHT LEADERSHIP: TE AO MAORI – AUDITORIUM	DRINKING WATER – BEALEY B3	PIPELINES – CONWAY C3+C4	CLIMATE CHANGE – EMISSIONS – CONWAY C5	WASTEWATER TREATMENT – CONWAY C1+C2	WORKSHOP STREAM – BEALEY B4+B5
11.00	ENABLING MANA WHENUA INVOLVEMENT Mahina-A-Rangi Baker – Te Wānanga o Raukawa	A WAI BLUEPRINT Hugh Blake-Manson – Waugh Infrastructure & Murray England - Selwyn District Council	TAKING ON A MOUNTAIN OF INSPECTION DATA – DEVELOPING A FLEXIBLE DATA MANAGEMENT SOLUTION Oliver Modricker - ProjectMax	MEASUREMENT ON THE PATH TO MITIGATION - GHG EMISSIONS FROM THE NELSON WWTP Ollie Whalley – Tonkin & Taylor	INTELLIGENT, INTEGRATED WASTE TREATMENT: CONSOLIDATING WASTE MANAGEMENT INFRASTRUCTURE AND ASSETS FOR LOWER COSTS, REDUCED CARBON FOOTPRINT AND BETTER ECOLOGICAL OUTCOMES Garry Macdonald - Beca	IN PROCESS OF BEING CONFIRMED
11.30	TE MANA O TE WAI – NGAI TAHU PERSPECTIVE	CHRISTCHURCH FLUORIDATION: IMPLEMENTATION PLANNING FOR A 40+ FACILITY SYSTEM Jack Deeley – Jacobs & Michele McDonald – Christchurch City Council	DEFECT ASSESSMENT OF SEWER PIPES BASED ON CCTV INSPECTIONS Zahra Tizmaghz - University of Auckland	PREDICTION OF WASTEWATER TREATMENT GREENHOUSE GAS EMISSIONS USING A REAL-TIME MODEL David Hume – Mott MacDonald	BIOSOLID GASIFICATION DEMONSTRATION PLANT RESULTS AND APPLICABILITY TO NEW ZEALAND'S LANDFILL LOVING PROBLEM Salma Ryan – Downer New Zealand	
12.00	TE MANA O TE WAI – PRACTICAL IMPLEMENTATION THOUGHTS Julian Williams - Te Huia Resources	USE OF METAGENOMICS AND WHOLE GENOME SEQUENCING TO UNDERSTAND DRINKING WATER QUALITY Megan Devane - ESR	PRESSURE PIPE CONDITION – RIGHT PIPE, RIGHT TEST Aaron Prince - ProjectMax	LAUGHS AND LEAKS – GLOBAL LESSONS FOR MITIGATING PROCESS EMISSIONS Hayden Porter - Jacobs	ENHANCED METHANE PRODUCTION USING AN INTEGRATED ANAEROBIC DIGESTION AND BIOELECTROCHEMICAL SYSTEM Afroz Bayat – University of Canterbury	
12:30	LUNCH – EXHIBITION AREA FROM 1.00PM – AUDITORIUM - YWPs FIRESIDE CHATS – JON LAMONTE WATERCARE SERVICES AND EMILY AFOA TEKTUS COUNSULTANTS FACILITATED BY HANNAH EDMOND MOTT MACDONALD					
	THOUGHT LEADERSHIP: POLICY – AUDITORIUM	DRINKING WATER SAFETY – BEALEY B3	PIPELINES – CONWAY C3+C4	SUSTAINABILITY – CONWAY C5	WASTEWATER TREATMENT – CONWAY C1+C2	WORKSHOP STREAM – BEALEY B4+B5

2:00	THREE WATERS REGULATION – SETTING THE NEW WATER SERVICES ENTITIES UP FOR SUCCESS Petra Carey – Russell Mcveagh	CHALLENGES, LESSONS AND METHODS FOR LEAVING A RESIDUAL IMPACT Jess Hamilton – Jacobs & Ian Baker – Christchurch City Council	PIPE ALIGNMENT TOOL Andrew Liese – Stantec	MAKING NEW ZEALAND GREEN AGAIN – A ‘LIVING’ ROOF STORY Rachel Device – Auckland Council	INNOVATIVE CHAIN DRAGGING TECHNIQUE CONTROLS MIDGES AT MANGERE Christopher Garton - Watercare	SWIG WORKSHOP
2:30	CLIMATE CHANGE AMENDMENTS – IMPLICATIONS FOR WATER PROJECTS David Allen & Frances Wedde – Buddle Findlay	SOURCE WATER RISK MANAGEMENT AREA MODELLING FOR GROUNDWATER: ISSUES AND UNCERTAINTIES Helen Rutter – Aqualinc Research Ltd	KAITOKE FLUME BRIDGE REPLACEMENT: USING SEISMIC RESILIENT DUCTILE IRON PIPE Hayden Pipe – Stantec & Todd Randell – Hynds	PLACEMAKING AND LOCAL WATER SYSTEMS, DO THEY REALLY WORK? Robert Keesen - Aurecon	INITIAL RESPONSE IN AN EMERGENCY: CHRISTCHURCH WWTP FIRE Becky Macdonald - Jacobs	
3:00	SHINING A LIGHT ON DRINKING WATER THROUGH DATA Katy Te Amo & Michael Howden – Taumata Arowai	DRINKING WATER SAFETY PLANNING: A COLLABORATIVE APPROACH Sadie Boersema - WSP	AN UPDATE: CURRENT REVIEW OF FOUR TYPES OF SEWAGE DROP STRUCTURES Anthony Margevicius - Aecom	PLANNING FOR SUSTAINABILITY, QLDC'S WASTEWATER STORY Reuben Bouman - Beca	SUCCESSFUL RESEARCH AND DEVELOPMENT IMPLEMENTATION OF ‘ODOZONE’ ODOUR MITIGATION TECHNOLOGY AT GOULBURN VALLEY WATER SHPS Andrew Fleming – Aquatec Fluid Systems	
3:30	AFTERNOON TEA – EXHIBITION AREA					
	THOUGHT LEADERSHIP: TRANSITION & TRANSFORMATION – AUDITORIUM	DRINKING WATER TREATMENT – BEALEY B3	ASSET MANAGEMENT– CONWAY C3+C4	SUSTAINABILITY – CONWAY C5	WASTEWATER TREATMENT – CONWAY C1+C2	WORKSHOP STREAM – BEALEY B4+B5
4:00	TRANSITION AND TRANSFORMATION - LIVED EXPERIENCES Allan MacMaster – Scottish Water/Aecom	GETTING TO ACCEPTABLE – DRINKING WATER SOLUTIONS FOR SMALLER WATER SUPPLIES Kathryn Jessamine - Beca	THE BENEFITS OF FORMALISED CONDITION ASSESSMENT PROGRAMMES FOR WATER UTILITIES BASED ON LESSONS LEARNED Steve Apeldoorn – ProjectMax & Robert Blakemore – Wellington Water	QUANTIFYING THE POTENTIAL IMPACTS OF CLIMATE CHANGE ON AUCKLAND'S WATER RESOURCES Lucy Whitelock-Bell \$ Sarah Innes – Tonkin & Taylor	PILOTING A MOVING BED BIOFILM REACTOR (MBBR) TO TREAT POND EFFLUENT FOR NITROGEN REMOVAL Andreas Fischer - Lutra	WECAN WORKSHOP
4:30	THE INNOVATION FORUM: TE RERE AUHAHA O PARAWHENUAMEA (THE FLOWING CREATIVITY OF PARAWHENUAMEA) Innovation pitches, Q&A session plus judging panel	PFAS – A CASE STUDY OF INNOVATIVE, EFFICIENT, AND EFFECTIVE TREATMENT TECHNOLOGY Afooz Bayat - Aecom	REMOTE MONITORING OF THE WASTEWATER NETWORK TO REDUCE OVERFLOWS IN OUT-OF-SIGHT PLACES Heather Kikkert - Hamilton City Council	PATHWAY TO CIRCULAR ECONOMY –SUGGESTIONS FOR NEW ZEALAND'S THREE WATERS IN A TIME OF TRANSFORMATION Emma Botha - GHD	MEMBRANE AERATED BIOFILM REACTOR (MABR) PILOT TESTING Kevan Brian - Watercare	
5:00		THE DARK SIDE OF DRINKING WATER – CONSIDERING AND MANAGING RESIDUAL STREAMS Scott Pearson - Beca	HOW TO WATER YOUR PRECINCTS Albert Ho - Aurecon	EMBEDDING REGIONAL RESILIENCE USING CIRCULAR ECONOMY – POTENTIAL PATHWAYS FOR GOULBURN VALLEY, VICTORIA, AUSTRALIA John Poon - Aurecon	AN INTEGRATED MODEL FOR WASTE STABILISATION POND PRACTITIONERS Kevan Brian - Watercare	
5:30	INTERGROUP WELCOME RECEPTION – EXHIBITION AREA					

WEDNESDAY 19 OCTOBER

7:15	WATER NEW ZEALAND AGM – AUDITORIUM					
8:00	REGISTRATION OPENS					
8:30	KEYNOTE: BILL BAYFIELD, CHIEF EXECUTIVE, TAUMATA AROWAI – AUDITORIUM					
9:15	KEYNOTE: ZIENA JALIL – BE THE CHANGE YOU WANT TO BE – AUDITORIUM					
10:00	MORNING TEA – EXHIBITION AREA					
	THOUGHT LEADERSHIP: RISK, INSURANCE & FINANCE – AUDITORIUM	PROCUREMENT – BEALEY B3	TE AO MAORI – CONWAY C3+C4	IWA STREAM – CONWAY C5	SUSTAINABILITY – NET ZERO - CONWAY C1+C2	WORKSHOP STREAM – BEALEY B4+B5
10:30	CYBERSECURITY JENNIE VICKERS – Zeopardlaw	8 WEEKS WORK IN 4 DAYS - THE JERVOIS QUAY EMERGENCY WORKS James Matthews - GHD	HE PUKENGA WAI, HE PUKENGA KŌRERO - UNDERSTANDING THE KNOWLEDGE LANDSCAPE FOR WATER IN AOTEAROA Alexandra Hare - Aurecon Group	TOTAL COLIFORMS IN PUBLIC WATER SUPPLIES: CASE STUDIES IN THE PURSUIT OF THE ELIMINATION STRATEGY Colin Roxburgh - Waimakariri District Council	POWERING A GREENER FUTURE Damien Dupont - Watercare	SWANS WORKSHOP
11:00	NATURAL DISASTERS Gill Jolly – GNS	3WATERS DELIVERY ON THE CHATHAM ISLANDS - MAXIMISING OPPORTUNITIES Andrew Wong - Stantec	PARTNERING WITH IWI/HAPU IN DEVELOPING WATER PROJECTS Buddle Finlay	HUMAN ENTERIC VIRUS REMOVAL IN POINT-OF-USE FILTERS AND SHEEP-WOOL MEDIA Erin McGill - ESR	FEASIBILITY STUDY: USING TREATED WASTEWATER FROM MANGERE AND ROSEDALE PLANTS FOR SPORTS-FIELDS IRRIGATION IN AUCKLAND Sarisha Hurrissunker – Auckland Council	
11:30	INSURANCE IN THE FACE OF EXTRAORDINARY RISKS	CHANGING THE WAY WE MANAGE CAPITAL INVESTMENT PORTFOLIOS: URBAN UTILITIES’ PROGRAMME MANAGEMENT APPROACH Robert Wilson - Kellogg Brown & Root Pty	IMPLEMENTING MAHINGA KAI AS A COMPULSORY MĀORI FRESHWATER VALUE UNDER THE NPS-FM 2020 Ian Ruru - Maumahara Consultancy Services Ltd	DEVELOPING A BIOPOLYMER SURROGATE TO STUDY BIOFILM ATTACHMENT/DETACHMENT OF LEGIONELLA PNEUMOPHILA Sujani Ariyadasa - ESR	BLUE CARBON – THE NEW GREEN? AN OPPORTUNITY TOWARDS NET ZERO EMISSIONS Rebecca Phyland - Jacobs	
12:00	GREEN FINANCE AND ITS’ ROLE IN ENCOURAGING SUSTAINABLE OUTCOMES Adam Coxhead – BNZ	DELIVERING THE DESIRED BENEFITS OF WATER REFORM THROUGH PROGRAMME MANAGEMENT Alan Mackintosh & Grant Cooper - Aecom	MAANUKA-DOMINATED RIPARIAN PLANTINGS FOR RECOVERING THE MAURI OF LAKE WAIKARE Maria-Jesus Gutierrez-Gines – ESR & Tawera Nikau – Matahuru Marae	CRYPTOSPORIDIUM SURROGATE REMOVAL IN PILOT-SCALE RAPID SAND FILTERS AND POINT-OF-USE FILTERS Liping Pang - ESR	IMPROVING WATER QUALITY TREATMENT THROUGH AN INNOVATIVE OFFSET MITIGATION APPROACH Matt Wilkins – Candor3 & Brendon Hosken– Kainga Ora	
12:30	LUNCH – EXHIBITION AREA POSTER PRESENTATIONS - FOYER					
	THOUGHT LEADERSHIP: PEOPLE – AUDITORIUM	SMART WATER – BEALEY B3	ASSET MANAGEMENT – CONWAY C3+C4	IWA – LAND AND NITRATES – CONWAY C5	WASTEWATER TREATMENT – CONWAY C1+C2	WORKSHOP STREAM – BEALEY B4+B5
1:30	HOME SWEET HOME Helen Tua – Mercury Energy & Toitu Tahua Centre for Sustainable Finance	USING REMOTE ON-LINE DATA ANALYTICS AND AI TO IDENTIFY THE RATS IN YOUR SEWER	SUCCESSFUL IMPLEMENTATION OF ISO 55001 – PAPAKURA FRANCHISE Minesh Patel & Jekabs Rozitis – Veolia	NATIVE VEGETATION: A NEW PARADIGM FOR THE LAND APPLICATION OF WASTEWATER?	FIELD SCALE ASSESSMENT OF CONTAMINANT TRANSPORT FROM AN ON-SITE WASTEWATER	CLIMATE CHANGE WORKSHOP

		Hugh Ratsey - The Wastewater Specialists & Phil de Groot - Trility		Alexandra Meister – ESR & Hamish Lowe – Lowe Environmental Impact	MANAGEMENT SYSTEM: RISK TO GROUNDWATER Bronwyn Humphries - ESR	
2:00	WORKFORCE – MAORI WORKERS & WATER Anton Matthews – Hussle Group	WATER AND WASTEWATER SYSTEMS IMPROVEMENTS THROUGH DIGITAL OPERATIONS ANALYSIS Jared Thorpe – Jacobs	PREPARING – AND PREPARING TO DELIVER – TREATMENT PLANT MASTERPLANS Julianne Martin – Lutra	MĀNUKA-DOMINATED RIPARIAN PLANTINGS FOR THE MITIGATION OF DIFFUSE AGRICULTURAL NITROGEN Olivia Maria Adamson - University of Waikato	CRUSHED GLASS AS A FILTER MEDIUM FOR ON-SITE WASTEWATER TREATMENT SYSTEMS Marc Jensen – Tm Consultants	
2:30	WATER WORKFORCE – BIG PICTURE PERSPECTIVES Alan Dent – Deloitte	REDUCING OPEX, SENSOR DRIFT AND EMISSIONS THROUGH DIGITAL INNOVATION Anna Whitmore – Mott Macdonald	TAKING LEGAL ACTION AGAINST WATER THEFT: PROTECTING CUSTOMERS, NOT REVENUE Lauren Nicholson – Watercare	PERMEABLE REACTIVE BARRIERS FOR REMOVAL OF NITRATE IN SHALLOW GROUNDWATER Louise Weaver – ESR	CHANGE OF GUARD – CAN CBOD AND TSS TAKE A BACK SEAT? Ash Deshpande & Emma Cross – Lutra	
3:00	AFTERNOON TEA – EXHIBITION AREA					
	THOUGHT LEADERSHIP: CLIMATE AND ENVIRONMENT – AUDITORIUM	SMART WATER – BEALEY B3	WORKFORCE – CONWAY C3+C4	IWA – FUTURE – CONWAY C5	WASTEWATER TREATMENT – CONWAY C1+C2	WORKSHOP STREAM – BEALEY B4+B5
3:30	UNCONSCIOUS BIAS IN INVESTMENT DECISION MAKING Adrienne Miller – Infrastructure Sustainability Council	THE FUTURE OF WATER VIRTUAL COMMUNICATIONS AND ENGAGEMENT IN A DIGITAL WORLD Deborah Lind & Jo Duncan – AECOM	AIRING OUR DIRTY LAUNDRY – AN OPEN ACCOUNT OF OUR INCLUSION AND DIVERSITY JOURNEY Kate Simmonds – Jacobs	REVISITING WAIKOUAITI, WHY LEAD IS STILL IMPORTANT. Belinda Cridge – ESR	LYTTELTON HARBOUR SCHEME – REMOVING WASTEWATER DISCHARGES FROM A HARBOUR Anthony Doherty & Matthew Sheppard – Jacobs	WSMG WORKSHOP
4:00	CIRCULAR ECONOMY A PANEL DISCUSSION: Facilitator – Apra Boyle-Gotla (facilitator), Debbie O’Byrne (Beca) and Matthew Jackson (Alimentary Systems)	OPERATIONALISING SMART METER NETWORKS: BENEFITS FOR UTILITIES AND THEIR CUSTOMERS Tony Wise - Jacobs	FIGHTING THE LABOUR SHORTAGE IN THE WATER SECTOR: ATTRACTING AND RETAINING IMMIGRANTS AND WOMEN Gabriela Campos Balzat & Natalia Moraga – GHD	THE BIOFACTORY: LIFE CYCLE SUSTAINABILITY ASSESSMENT FOR PROMOTING CIRCULAR ECONOMIES IN WASTEWATER TREATMENT Madeline Furness – University of Canterbury	INNOVATIVE WASTEWATER TREATMENT SYSTEMS FOR EXTREME ALPINE ENVIRONMENTS Matt Savage – Apex Water	
4:30		INFORMED AI IN THE WATER SECTOR - THE ROADMAP POSSIBLE TO PLAUSIBLE Silvia Vlad - Jacobs	THE JOURNEY TO BECOMING BETTER Maseina Koneferenisi - Lutra	PREDICTING WATER QUALITY USING MACHINE LEARNING Judith Webber - ESR	COMBINING THE USE OF ENGINEERED AND NATURAL PLANTS IN ACTIVATED SLUDGE SYSTEMS John Koumoukelis – Hydroflux Epco	
6:00	“OUR SHOUT” - WATER NEW ZEALAND’S PRE-DINNER DRINKS					
7:00	DOWNER CONFERENCE DINNER					

THURSDAY 20 OCTOBER

8:30	REGISTRATION OPENS	
9:00	KEYNOTE: GEORGE HAWKINS, MOONSHOT MISSIONS (FORMER DC WATER CEO) – AUDITORIUM	EXHIBITION VISITORS’ MORNING
9:45	KEYNOTE: TUKOROIRANGI “TUKU” MORGAN – CO-GOVERNANCE, ACCOUNTABILITY & REPRESENTATION – AUDITORIUM	
10:15	MORNING TEA	
10:45	KEYNOTE: GAIL TIPA - WATER FLOWS AND WHĀNAU PERSPECTIVES – AUDITORIUM	

11:30	CONVERSATIONS WITH GILLIAN BLYTHE, WATER NEW ZEALAND CHIEF EXECUTIVE – AUDITORIUM	
12:15	WATER NEW ZEALAND – THE NEXT YEAR: WATER NEW ZEALAND PRESIDENT, LORRAINE KENDRICK – AUDITORIUM	
12:30	CONFERENCE CLOSE – AUDITORIUM	