

WATER NEW ZEALAND CONFERENCE & EXPO 2022 PROGRAMME

TUESDAY 18 OCTOBER

7:30	REGISTRATION OPENS					
7.15-8.15	AURECON YWP BREAKFAST [Level One Foyer]					
8:45	CONFERENCE OPENING AND WELCOME FROM THE WATER NEW ZEALAND PRESIDENT, HELEN ATKINS [Auditorium]					
9:10	OPENING GUEST SPEAKER: HON NANAI MAHUTA, MINISTER FOR LOCAL GOVERNMENT [Auditorium]					
9:40	KEYNOTE: GABRIELLE HURIA, CHIEF EXECUTIVE OF TE KURA TAKA PINI (TE RŪNANGA O NGĀI TAHU) [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-ĪNU 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 TOWARDS MITIGATION - GHG EMISSIONS FROM NELSON WWTP Ollie Whalley - Tonkin & Taylor	INTELLIGENT, INTEGRATED WASTE TREATMENT BY CONSOLIDATING ORGANIC WASTE STREAMS Garry Macdonald - Beca & Harmaan Madon - Alimentary Systems	IN PROCESS OF BEING CONFIRMED
11.30	WHAKAORA TE WAIHORA - A CO-GOVERNANCE STORY Liz Brown - Te Rūnanga o Ngāi Tahu & Craig Pauling - Environment Canterbury Councillor	CHRISTCHURCH FLUORIDATION: IMPLEMENTATION PLANNING FOR A 40+ FACILITY SYSTEM Jack Deeley - Jacobs & Michele McDonald - Christchurch City Council	DEFECT LEVEL CONDITION MODELLING OF SEWER PIPES 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 Rayan - Downer New Zealand	
12.00	TE MANA O TE WAI - PRACTICAL IMPLEMENTATION THOUGHTS Julian Williams - Te Huia Resources	METAGENOMICS AND WHOLE GENOME SEQUENCING TO UNDERSTAND DRINKING WATER QUALITY Brent Gilpin - ESR	PRESSURE PIPE CONDITION - RIGHT PIPE, RIGHT TEST Aaron Prince - Assetlife Alliance	NO LAUGHING MATTER - GLOBAL LESSONS FOR NITROUS OXIDE Hayden Porter - Jacobs	ENHANCED METHANE PRODUCTION USING AN INTEGRATED ANAEROBIC DIGESTION AND BIOELECTROCHEMICAL SYSTEM Afrooz Bayat - Aecom & Ricardo Bello-Mendoza - University of Canterbury	
12:30	LUNCH [EXHIBITION AREA]					
1:00	YWPs FIRESIDE CHATS - JON LAMONTE WATERCARE SERVICES AND EMILY AFOA TEKUS CONSULTANTS FACILITATED BY HANNAH EDMOND MOTT MACDONALD [AUDITORIUM]					
	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 Zoë Avery - The Urbanist + Waipapa Taumata Rau, University of Auckland & Hillary Johnston - Tektus	INNOVATIVE CHAIN DRAGGING METHOD CONTROLS MIDGES AT MĀNGERE WASTEWATER PLANT Christopher Garton - Watercare	
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	SHAPING OUR CITIES WITH WATER SYSTEMS IN PRECINCTS AND PLACES - HOW DOES IT WORK? Robert Keessen - Aurecon	INITIAL RESPONSE IN AN EMERGENCY: CHRISTCHURCH WWTP FIRE Becky Macdonald - Jacobs	

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	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]
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 & Conny Wan - Jacobs	PLANNING FOR SUSTAINABILITY, QLD'S WASTEWATER STORY Reuben Bouman - Beca	SUCCESSFUL RESEARCH AND DEVELOPMENT IMPLEMENTATION OF 'ODOZONE' ODOUR MITIGATION TECHNOLOGY AT GOULBURN VALLEY WATER SHPS21 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 Afrooz Bayat - Aecom	REMOTE MONITORING OF THE WASTEWATER NETWORK TO REDUCE OVERFLOWS IN OUT-OF-SIGHT PLACES Heather Kikkert - Hamilton City Council	A PATHWAY TO CIRCULAR ECONOMY - TRANSFORMING OUR WATER INFRASTRUCTURE 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 & Samantha Morris - Aurecon	USING THE CIRCULAR ECONOMY- POTENTIAL PATHWAYS FOR THE GOULBURN VALLEY, VICTORIA, AUSTRALIA Kevin Werksman - Aurecon	AN INTEGRATED MODEL FOR WASTE STABILISATION POND PRACTITIONERS Kevan Brian - Watercare	
5:30	INTERGROUP WELCOME RECEPTION - EXHIBITION AREA					

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WEDNESDAY 19 OCTOBER

7:15	WATER NEW ZEALAND AGM [Bealey B4 + B5]						
8:00	REGISTRATION OPENS						
8:30	KEYNOTE: BILL BAYFIELD, CHIEF EXECUTIVE, TAUMATA AROWAI [Auditorium]						
9:15	KEYNOTE: ABBAS NAZARI [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]	ASTT STREAM [Bealey B2]	WORKSHOP STREAM [BEALEY B4+B5]
10:30	CYBERSECURITY Jennie Vickers - Zeopardlaw	6 WEEKS WORK IN 4 DAYS - THE JERVOIS QUAY EMERGENCY WORKS James Matthews & Paul Langedijk - GHD	HE PUKENGA WAI, HE PUKENGA KŌRERO - UNDERSTANDING THE KNOWLEDGE LANDSCAPE FOR WATER IN AOTEAROA AND INTERNATIONALLY Anna Lindgren - Aurecon Group, Garrett Hall - Beca & Jessica Grinter - Stantec	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	STREAM OPENING & CELEBRATION OF WNZ / ASTT COLLABORATION Blair Telfer - Kāinga Ora Programme Manager, Watercare Services	SWIG 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 Esther Bennett & Paul Beverley - 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 Hurrisonker - Auckland Council	NORTHERN INTERCEPTOR PIPELINE - HDD CROSSINGS John Stuart-Robertson - Spiecapag/HDI Lucas	
11:30	INSURANCE IN THE FACE OF EXTRAORDINARY RISKS Bryce Davies - IAG	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 Wolfgang Kanz - Awamoana Services	BIOPOLYMER MICROPARTICLES AS A POTENTIAL SURROGATE FOR LEGIONELLA PNEUMOPHILA Sujani Ariyadasa - ESR	BLUE CARBON - THE NEW GREEN? AN OPPORTUNITY TOWARDS NET ZERO EMISSIONS Rebecca Phyland & Kate Simmonds - Jacobs	PUSHING THE LIMITS HUNUA 4 & SNELLS ALGIES Paul Cooper - McConnell Dowell NZ	
12:00	GREEN FINANCE AND IT'S 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 & Glen Tupuhi - Ngaa Muka Development Trust	CRYPTOSPORIDIUM SURROGATE REMOVAL IN PILOT-SCALE RAPID SAND FILTERS AND POINT-OF-USE FILTERS Liping Pang - ESR	THE COSTS OF DROUGHT IN URBAN WATER SUPPLY PLANNING Asaad Shamseldin - University of Auckland	USE OF AI (ARTIFICIAL INTELLIGENCE) IN PIPELINE CCTV INVESTIGATION AND ASSESSMENTS Darren Michalski - IBAK and Alan Hill - Intergroup	
12:30	LUNCH - EXHIBITION AREA						
12:30	POSTER PRESENTATIONS - FOYER						

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WEDNESDAY 19 OCTOBER CONTINUED

	THOUGHT LEADERSHIP: PEOPLE [Auditorium]	SMART WATER [Bealey B3]	ASSET MANAGEMENT [Conway C3+C4]	IWA - LAND AND NITRATES [Conway C5]	WASTEWATER TREATMENT - [Conway C1+C2]	ASTT STREAM [Bealey B2]	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 Hugh Ratsey - The Wastewater Specialists & Phil de Groot - Trility	SUCCESSFUL IMPLEMENTATION OF ISO 55001 - PAKAKURA FRANCHISE Yolanda Oosthuizen - Veolia	NATIVE VEGETATION: A NEW PARADIGM FOR THE LAND APPLICATION OF WASTEWATER? Alexandra Meister - ESR	FIELD SCALE ASSESSMENT OF CONTAMINANT TRANSPORT FROM AN ON-SITE WASTEWATER MANAGEMENT SYSTEM: RISK TO GROUNDWATER Bronwyn Humphries - ESR	CHALLENGING THE STATUS QUO - AN INNOVATIVE APPROACH TO THE STRUCTURAL RENEWAL OF A LARGE BOX CULVERT Marc Ciochetto - Channeline and Cory Higgins - Interflow	CLIMATE CHANGE WORKSHOP
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	TRENCHLESS STORMWATER CULVERT REHABILITATION Jaco Griessel - PipeWorks	
2:30	WATER WORKFORCE - BIG PICTURE PERSPECTIVES Alan Dent - Deloitte	REDUCING OPEX, SENSOR DRIFT AND EMISSIONS THROUGH DIGITAL INNOVATION Thomas Joseph - 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	DEVELOPMENT OF A PIPE LINING DESIGN SPECIFICATION Tony Gordon - WSP NZ	
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]	ASTT STREAM [Bealey B2]	WORKSHOP STREAM [Bealey B4+B5]
3:30	UNCONSCIOUS BIAS IN INVESTMENT DECISION MAKING Adrienne Miller - Infrastructure Sustainability Council	THE FUTURE OF ONLINE STAKEHOLDER ENGAGEMENT FOR THE WATER SECTOR Deborah Lind - AECOM	AIRING OUR DIRTY LAUNDRY - AN OPEN ACCOUNT OF OUR INCLUSION AND DIVERSITY JOURNEY Kate Simmonds & Becky Macdonald - Jacobs	REVISITING WAIKOUAITI, WHY LEAD IS STILL IMPORTANT. Belinda Cridge - ESR & John McAndrew - Dunedin City Council	LYTTELTON HARBOUR SCHEME - REMOVING WASTEWATER DISCHARGES FROM A HARBOUR Anthony Doherty & Matthew Sheppard - Jacobs	REUSING ASSETS TO CREATE CAPACITY AND RESILIENCE - CAN YOU TEACH AN OLD PIPE NEW TRICKS Nathan Clarke - NRSBU, William Nieuwenhuis - BECA, and John Adamo - Interflow NZ	WSMG WORKSHOP
4:00	CIRCULAR ECONOMY A PANEL DISCUSSION: Facilitator - Apra Boyle-Gotta (facilitator), Debbie O'Byrne (Beca), Teina Boasa-Dean, Lucy Tukua (Mott MacDonald) and Matthew Jackson (Alimentary Systems)	OPERATIONALISING SMART METER NETWORKS: BENEFITS FOR UTILITIES AND THEIR CUSTOMERS Matthew Thomson - 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	ADVANCEMENTS IN STRUCTURAL CURED IN PLACE PIPE (CIPP) MATERIALS, LINER DESIGN AND MANUFACTURE Jeff Hilditch & James Haua - Nuflow	
4:30		INFORMED AI IN THE WATER SECTOR - THE ROADMAP FROM 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	MT EDEN SW RELOCATION CURVED ALIGNMENT TUNNEL - A MORE DIRECT APPROACH Alistair Briffett - March Construction	
6:00	"OUR SHOUT" - WATER NEW ZEALAND'S PRE-DINNER DRINKS						
7:00	DOWNER CONFERENCE DINNER						

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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: HON CHRISTOPHER FINLAYSON KC - CO-GOVERNANCE [Auditorium]	
10:15	MORNING TEA	
10:45	KEYNOTE: GAIL TIPA - WATER FLOWS AND WHĀNAU PERSPECTIVES [Auditorium]	
11:30	EXTRACTS FROM GILLIAN BLYTHE'S CONVERSATION WITH SIR TIPENE O'REGAN (PRE-RECORDED)	
11:50	CONVERSATIONS WITH GILLIAN BLYTHE, WATER NEW ZEALAND CHIEF EXECUTIVE Heather Shotter, Executive Director, National Transition Unit, Department of Internal Affairs Andy Burgess, GM Infrastructure Regulation Commerce Commission	
12:15	WATER NEW ZEALAND - THE NEXT YEAR: WATER NEW ZEALAND PRESIDENT, LORRAINE KENDRICK [Auditorium]	
12:30	CLOSING KARAKIA [Auditorium] CONFERENCE CLOSE	