

# Conference Programme

MONDAY, 16 NOVEMBER 2020						
PRE-CONFERENCE WORKSHOP [HEAPHY 2]						
TUESDAY, 17 NOVEMBER 2020						
7:30	REGISTRATION OPENS					
8:30	CONFERENCE OPENING AND WELCOME FROM THE WATER NEW ZEALAND PAST PRESIDENT, KELVIN HILL [PLENARY]					
8:55	KEYNOTE: MINISTER OF LOCAL GOVERNMENT (TBC) [PLENARY]					
9:25	GUEST SPEAKER: NIGEL LATTA [PLENARY]					
10:10	MORNING TEA [EXHIBITION AREA]					
	THOUGHT LEADERSHIP [HEAPHY 1]	PROCUREMENT [HEAPHY 2]	DATA MANAGEMENT [HEAPHY 3]	WASTEWATER TREATMENT [BROOKLYN 1]	IWA / SCIENCE STREAM [BROOKLYN 2]	WORKSHOP STREAM [THE GRANDSTAND]
10:40	<p>URBAN DEVELOPMENT BILL –IMPLICATIONS AND OPPORTUNITIES FOR THE WATER SECTOR</p> <p>Allison Arthur Young – Russell McVeagh</p>	<p>SHORT TERM UPGRADES OF CAMBRIDGE WWTP – THE COLLABORATIVE APPROACH</p> <p>Cameron Leach – GHD &amp; Maria McIntyre – Waipa District Council</p>	<p>PUT DATA TO WORK – MAKE USE OF THE DATA YOU ALREADY HAVE.</p> <p>Nikk King – NZ Controls Ltd</p>	<p>CASE STUDY OF OBSERVED MAINSTREAM NITRITE SHUNT IN AN AMMONIA-BASED AERATION CONTROL REACTOR CLARIFIER</p> <p>Sela Maka – Watercare Services</p>	<p>UNDERSTANDING NOROVIRUS INFECTIVITY IN SEWER OVERFLOWS TO BETTER ESTIMATE HEALTH RISKS IN COASTAL WATERS</p> <p>Carlos Campos – Cawthron Institute</p>	<p>AN INTRODUCTION TO THE CARBON JOURNEY</p> <p>Jon Reed, Tom Burkett, Rowan Dixon &amp; Chris Thurston – Beca, WSP &amp; Watercare Services</p>
11:10	<p>THE VOICE OF THE CUSTOMER</p> <p>Amanda Singleton – Watercare Services</p>	<p>THE ENTERPRISE MODEL – A BOLD DELIVERY MODEL FOR NEW ZEALAND</p> <p>Anna Mogridge, Matt Findlay &amp; Rob Burchell – Watercare Services, Fletcher Construction &amp; Beca</p>	<p>WHO'S DOING WHAT IN WATER A.I.</p> <p>Michael Storey – Isle Utilities Pty Ltd</p>	<p>NITROGEN REMOVAL PILOT TRIAL USING ADVANCED WETLAND TECHNOLOGY</p> <p>Hui Ian Tan &amp; Kate Simmonds – Watercare Services &amp; Jacobs</p>	<p>MICROBIAL INDICATORS – WHAT STORIES DO THEY TELL?</p> <p>David Wood – ESR</p>	
11:40	<p>THE CHANGING PARADIGM OF DELIVERING INFRASTRUCTURE IN REGIONAL AREAS</p> <p>Peter Dennis Hunter – h2o</p>	<p>DELIVERY OF MULTIPLE WATER INFRASTRUCTURE PROJECTS IN A HIGHLY DYNAMIC ENVIRONMENT</p> <p>Christina Taylor – GHD</p>	<p>WBOPDC SCADA/ NETWORK UPGRADES- HOW-TO GUIDE</p> <p>Aubrey Liew – Thomson Group</p>	<p>OPTIMISING MEMBRANE PERFORMANCE THROUGH PLANT OPERATION BEST PRACTICES</p> <p>Charles Liu &amp; Lisa Druke – Pall Water</p>	<p>PRELIMINARY INVESTIGATION OF COLORECTAL CANCER RISK AND NITRATE CONTAMINATION OF NEW ZEALAND DRINKING WATER</p> <p>Jayne Richards – Fluent Infrastructure Solutions</p>	
12:10	LUNCH [EXHIBITION AREA]					
1:10	KEYNOTE: BILL BAYFIELD – CHIEF EXECUTIVE – TAUMATA AROWAI [PLENARY]					
1:55	NETWORKING [EXHIBITION AREA]					
	THOUGHT LEADERSHIP [HEAPHY 1]	PROCUREMENT [HEAPHY 2]	DATA MANAGEMENT [HEAPHY 3]	WASTEWATER TREATMENT [BROOKLYN 1]	IWA / SCIENCE STREAM [BROOKLYN 2]	WORKSHOP STREAM [THE GRANDSTAND]
2:15	<p>THE OCCUPATIONAL REGULATION OF ENGINEERING PROFESSIONALS: WILL IT ADDRESS RISK?</p> <p>Helen Davidson – Engineering New Zealand</p>	<p>DEVELOPMENT OF A RESEARCH STRATEGY FOR THE IMPROVEMENT IN NEW ZEALAND WATER SECTOR PROCUREMENT PRACTICES</p> <p>Ross Waugh – Waugh Infrastructure Management Ltd</p>	<p>VISUAL PROPERTY ASSESSMENT TOOL – FROM STREETS TO STREET VIEW</p> <p>David Ponting – Stantec</p>	<p>ROTOMA AND ROTOITI MEMBRANE BIOREACTOR WWTP</p> <p>Chris Knight – Mott MacDonald</p>	<p>OPTIMISING THE P-ADSORPTION CAPACITY OF A NOVEL MEDIA FROM AGRICULTURAL WASTEWATER: ALLODUST.</p> <p>Parsa Mohajeri– Lincoln University</p>	<p>MODELLING SIG WORKSHOP</p> <p>Peter Kinley – Arup NZ</p>

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# Conference Programme

TUESDAY, 17 NOVEMBER 2020 (CONTINUED)						
	THOUGHT LEADERSHIP [HEAPHY 1]	PROCUREMENT [HEAPHY 2]	DATA MANAGEMENT [HEAPHY 3]	WASTEWATER TREATMENT [BROOKLYN 1]	IWA / SCIENCE STREAM [BROOKLYN 2]	WORKSHOP STREAM [THE GRANDSTAND]
2:45	STRESS AND WELLBEING IN THE WORKPLACE  Gary Hewson – Umbrella	TAKAPAU WTP AND PORANGAHAU WTP UPGRADES – PROCUREMENT METHOD AND PROJECT OUTCOME  Darren De Klerk – Central Hawke's Bay District Council	WAIPA WATER LEAK DETECTION USING UAV & THERMAL CAMERA TECHNOLOGY  Mathew Dickey & Mark Walmsley – BTW Company & Waipa District Council	MEMBRANE PROCESSES FOR THE TREATMENT OF LEACHATE FROM LANDFILLS  Miriam Weissroth – Wehrle Umwelt GmbH	REMOVAL OF AQUEOUS BETRIXABAN BY ADSORPTION AND UV/H <sub>2</sub> O <sub>2</sub> PROCESS  Tahereh Jasemizad – The University Of Auckland	MODELLING SIG WORKSHOP (CONTINUED)
3:15	COVID-19 AND WASTEWATER  Brent Gilpin – ESR	THE RISKS OF A COST DRIVEN DECISION MAKING CULTURE  Mark Hall – New Plymouth District Council	USING AERIAL DRONES TO INVESTIGATE NEARSHORE COASTAL CURRENTS  Ryan Abrey – Stantec	ASSESSMENT OF ADVANCED TREATMENT PROCESSES FOR SIMULTANEOUS REMOVAL OF EMERGING CONTAMINANTS IN WASTEWATER  Maryani Astuti – The University of Auckland	CONSTRUCTION IN SATURATED, PEAT-RICH MATERIALS – IMPLICATIONS OF DEWATERING ON INFRASTRUCTURE  Remalia Sharplin – GHD	MODELLING SIG WORKSHOP (CONTINUED)
3:45	AFTERNOON TEA [EXHIBITION AREA]					
	ASTT STREAM [HEAPHY 1]	WATER SAFETY [HEAPHY 2]	DATA MANAGEMENT [HEAPHY 3]	WASTEWATER TREATMENT [BROOKLYN 1]	IWA / SCIENCE STREAM [BROOKLYN 2]	WORKSHOP STREAM [THE GRANDSTAND]
4:15	MOA POINT – LARGE DIAMETER SEWER RENEWAL CASE STUDY  Kirsten Woods & Saadia Ali – Stantec & Interflow	MANAGING THE RISK – EMERGENCY MANAGEMENT PLANNING FOR WTP CHLORINE USE IN AN URBAN SETTING  Mark Ellis – Pattle Delamore Partners	DATA DRIVES RESILIENT POND MANAGEMENT IN A CHANGING CLIMATE  Kirsten Norquay & Allan Jones – Stantec & Nelmac	ADVANCES IN GRIT CHAMBER VELOCITY CONTROL RESULTS IN HIGHER EFFICIENCY AND GRIT DEPOSITION PREVENTION  Joe Gill – Smith & Loveless	PREVALENCE OF PATHOGENS IN NEW ZEALAND FRESHWATER  Margaret Leonard – ESR	YOUNG PROFESSIONALS WORKSHOP  YWP Committee
4:45	SNELLS-ALGIES OCEAN OUTFALL – ANOTHER RECORD BREAKING INNOVATION  Paul Cooper, Brent Whiting & Dirk du Plessis – McConnell Dowell & Watercare Services	TOOLS FOR ASSESSING THE PERFORMANCE OF DRINKING-WATER FILTER MATERIAL  Peter Cressey – ESR Ltd	DIGITAL TWIN OF WATER TREATMENT PLANT  Richard Porter – Yokogawa Australia & New Zealand	BIN THE FLOC, BOOST THE ROCK: USE OF INDENSE® TO IMPROVE SLUDGE SETTLEABILITY  Nathan Brown – Stantec	ANAMMOX – THE JOURNEY FROM THE LAB TO THE PLANT  Cassandra Billiau & Sela Maka – Watercare Services	
5:15	NEW TESTING REQUIREMENTS FOR PE100-RC/HSCR TO BETTER DEFINE MATERIAL & PIPE PERFORMANCE  Alan Shore – Ravago	GROUNDWATER SUPPLY RESILIENCE – MANAGING THE RISK AND PLANNING FOR THE FUTURE  Beth Parkin & Duheine Myburgh – Stantec & Wellington Water	FROM PLANNING INTO PRACTICE: DIGITAL ENGINEERING FOR A 50MLD UPGRADE AT NEERABUP WTP, WESTERN AUSTRALIA  Iain Partington – GHD		IWA ANNUAL GENERAL MEETING	
5:45	WELCOME RECEPTION [EXHIBITION AREA]					

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# Conference Programme

WEDNESDAY, 18 NOVEMBER 2020						
7:15	REGISTRATION OPENS					
8:45	<b>KEYNOTE:</b> HENK OVINK – SPECIAL ENVOY FOR INTERNATIONAL WATER AFFAIRS, NETHERLANDS [PLENARY]					
9:30	MORNING TEA [EXHIBITION AREA]					
	THOUGHT LEADERSHIP [HEAPHY 1]	CARBON & ENERGY [HEAPHY 2]	STORMWATER [HEAPHY 3]	OPERATIONS [BROOKLYN 1]	WATER SAFETY [BROOKLYN 2]	WATER SERVICES MANAGERS GROUP – STORIES FROM THE COAL FACE [ARENA LOUNGE]
10:00	WAI ORA CULTURAL MONITORING FRAMEWORK – MĀORI INNOVATION TOWARDS THE SUSTAINABLE DEVELOPMENT GOALS  Puti Wilson – Auckland Council	IPCC EMISSIONS FACTORS – CHALLENGING A FORTYFOLD JUMP IN NITROUS OXIDE  Evie Wallace & Mike Bourke – Beca & Christchurch City Council	UNDERSTANDING THE OPERATIONAL COSTS OF SUSTAINABLE DRAINAGE SYSTEMS  Michael Arthur – Metis Consultants	DAM SAFETY SURVEILLANCE – MANAGING AUCKLAND'S LARGE WATER SUPPLY DAMS  Jessan Revalde – Watercare Services	TEMPORARY CHLORINATION IN CHRISTCHURCH – LESSONS LEARNT 2 YEARS ON  John Porter & Ian Baker – Citycare & Christchurch City Council	RENEWAL PROGRAMME – PIPE SAMPLING PROGRAMME  Cristina Conzalez – New Plymouth District Council
10:30	ALL OPTIONS ON THE TABLE: GLOBAL LEARNINGS ABOUT PURIFIED RECYCLED WATER AND COMMUNITY ENGAGEMENT  Danielle Francis – Water Services Association of Australia	USE OF CATCHMENT CARBON OFFSETS TO ACHIEVE ZERO NET EMISSIONS  Alex Cheesebrough – Jacobs	INTEGRATED APPROACH TO STORMWATER MANAGEMENT IN PORIRUA'S CBD  Alannah Clark – GHD	ASSET LIFE AFTER PROJECT HANDOVER – LESSONS LEARNT  Clemence Carlinet – Watercare Services	INDUSTRY BEST PRACTICE CHLORINE GAS INSTALLATION AND OPERATION  Craig Freeman – Filtec Ltd	OTAGO/ SOUTHLAND WATER COLLABORATION  Ulrich Glasner – Queenstown Lakes District Council
11:00	RECYCLED WATER AS A DRINKING WATER SOURCE FOR PERTH – PAST, PRESENT AND FUTURE  Nick Turner – The Water Corporation (Australia)	MANAGING INFRASTRUCTURE CARBON IN NEW ZEALAND  Hannah Edmond & Chris Thurston – Mott Macdonald & Watercare Services	AN ASSESSMENT OF STORMWATER DISPOSAL OPTIONS IN CHALLENGING HYDROGEOLOGICAL CONDITIONS  James Botting – Beca	"THE ADIT'S HAD IT" – RESPONDING TO EMERGENCY WASTEWATER COLLAPSE IN WELLINGTON'S SUMMER OF WOE  Kama Sliepen & Steve Hutchison – GHD	PILOTING REMOVAL OF HIGH IRON AND MANGANESE FROM GROUNDWATER  Diego Valenzuela – Beca	COVID19 ROUND 1 – WELL THAT WAS WEIRD A PERSONAL REFLECTION  Martyn Cole – Kapiti Coast District Council
11:30	INFRASTRUCTURE RECOVERY – POST PANDEMIC  Paul Blair – Takarunga Consulting	USE OF ADVANCED REAL TIME ANALYTICS TO OPTIMISE THE AERATION ENERGY USAGE AT CUXHAVEN WWTP –  Roberto Mascarenhas – Xylem Water Solutions	MEETING THE CHALLENGES OF STORMWATER MANAGEMENT ACROSS 23 URBAN CATCHMENTS  Vijesh Chandra – GHD	TEACHING AN OLD "GIRL" NEW TRICKS – RESTORING THE CAPACITY OF THE HUIA WATER TREATMENT PLANT  Nikhil Susarla & Hamish Spence – Watercare Services	THE WASTEWATER SAFETY PLAN – PILOTING A QUALITY MANAGEMENT DOCUMENT  Louis Ortenzio – Lutra	MAKING A CAREER IN THE WATER INDUSTRY  Sophie McGuinness, Watercare Services
12:00	LUNCH [EXHIBITION AREA]					
12:30	POSTER PRESENTATIONS [HEAPHY FOYER]					
	THOUGHT LEADERSHIP [HEAPHY 1]	RENEWALS [HEAPHY 2]	DATA MANAGEMENT [HEAPHY 3]	WASTEWATER TREATMENT [BROOKLYN 1]	WATER SAFETY [BROOKLYN 2]	WORKSHOP STREAM [ARENA LOUNGE]
1:30	CROSS CONNECTION CONTROL: A NEW APPROACH?  Jim McGibbon – Backflow SIG	INTEGRATING WASTEWATER BLOCKAGE AVOIDANCE WITH CONDITION ASSESSMENT - THE TAUPO EXPERIENCE  Paul Utting – ProjectMax	THE NZ PIPE DATA PORTAL – MAXIMISING THE VALUE OF OUR 3 WATERS DATA  Greg Preston – Quake Centre	COST EFFECTIVE PHOSPHOROUS REMOVAL  Jack Feltham – Pattle Delamore Partners	STANDARDISING WATER TREATMENT INFRASTRUCTURE ACROSS A DISTRICT  Jessica Hamilton & Murray England – Jacobs & Selwyn District Council	INNOVATION WORKSHOP  Rob Blakemore – Wellington Water

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WEDNESDAY, 18 NOVEMBER 2020 (CONTINUED)						
	THOUGHT LEADERSHIP [HEAPHY 1]	RENEWALS [HEAPHY 2]	DATA MANAGEMENT [HEAPHY 3]	WASTEWATER TREATMENT [BROOKLYN 1]	WATER SAFETY [BROOKLYN 2]	WORKSHOP STREAM [ARENA LOUNGE]
2:00	<p>CONSENTING AUCKLAND'S PUBLIC STORMWATER NETWORK – AN INTEGRATED AND FUTURE-FOCUSED APPROACH – WHAT CAN THE NATION LEARN</p> <p>Paula Vincent, Ian Mayhew, Gerald Lanning – Auckland Council, 4Sight Consulting, Simpson Grierson</p>	<p>THE INTRODUCTION OF SEISMIC RESILIENT DUCTILE IRON PIPE TECHNOLOGY</p> <p>Todd Randell – Hynds Pipe Systems</p>	<p>3 WATERS ASSET DATA STANDARDS: A NEW CODE OF PRACTICE</p> <p>James Thorne – WSP</p>	<p>NZ MUNICIPAL WWTP EMISSIONS – DEMYSTIFIED</p> <p>Emily Sopers &amp; Caroline Hope – Beca</p> <p>Evan Vaughters – Hamilton City Council</p>	<p>COMPLIANCE IN THE BACK BLOCKS – CHALLENGES FOR RURAL WATER SUPPLIES IN NEW ZEALAND</p> <p>Lisa Mace – Beca</p>	<p>INNOVATION WORKSHOP CONTINUED</p> <p>Rob Blakemore – Wellington Water</p>
2:30		<p>DEVELOPING TRUST IN ASSET MANAGEMENT – A TOOL FOR PIPE RENEWALS PLANNING</p> <p>Michael Galambos – Christchurch City Council</p>	<p>VIBRATION SENSORS: LISTENING FOR NETWORK LEAKS</p> <p>David Bergman – Iota Services</p>	<p>CORONET PEAK SKI AREA WWTP – THE ALPINE CHALLENGE</p> <p>Annika Grant – Stantec</p>	<p>TOWARDS QUANTITATIVE DETERMINATION OF FUTURE WATER AVAILABILITY UNDER CLIMATE CHANGE</p> <p>Wageed Kamish – Tonkin+Taylor</p>	
3:00	AFTERNOON TEA [EXHIBITION AREA]					
	THOUGHT LEADERSHIP CLIMATE CHANGE FOCUS [HEAPHY 1]	INSTITUTIONAL & INDUSTRY CHANGE [HEAPHY 2]	ASSET MANAGEMENT IMPROVEMENTS [HEAPHY 3]	ACHIEVING SUSTAINABILITY [BROOKLYN 1]	WATER SAFETY [BROOKLYN 2]	WORKSHOP STREAM [ARENA LOUNGE]
3:30	<p>MANAGING FLOOD RISK IN THE FACE OF A CHANGING CLIMATE – LESSONS FROM THE UK</p> <p>Alex Cartwright &amp; James Hughes – Tonkin + Taylor</p>	<p>SERVICE DELIVERY AND FUNDING REFORM – OPTIONS AND IMPLICATIONS-</p> <p>Mark Robinson – PWC</p>	<p>DEVELOPING A METHODOLOGY TO SET MINIMUM NIGHT FLOW TARGETS FOR RESIDENTIAL, RURAL AND INDUSTRIAL CUSTOMERS</p> <p>Taimur Rahman &amp; Steve Broome – South Taranaki – District Council</p>	<p>PREVALENCE OF ANTIBIOTIC-RESISTANT BACTERIA IN SURFACE DRINKING WATERS</p> <p>Deborah Paull – University of Canterbury</p>	<p>WOMEN AND GIRLS AT THE CENTRE OF COMMUNITY WATER SECURITY PLANNING</p> <p>Katrina Bukauskas Murison – Wellington Water</p>	<p>SMART WATER INFRASTRUCTURE GROUP- GETTING VALUE OUT OF DIGITAL SOLUTIONS</p> <p>Michael Howden &amp; Steve Couper – Beca &amp; Mott Macdonald</p>
4:00	<p>THOUGHTS ON SOME OF THE OVERLOOKED IMPACTS OF CLIMATE CHANGE</p> <p>Helen Rutter – Aqualinc</p>	<p>WHY IS ONLINE LEARNING IMPORTANT?</p> <p>Carly Price – The Questioning Engineer</p>	<p>A HOLISTIC DECISION FOR ASSET MANAGEMENT INVESTMENT ANALYSIS ON 3 WATERS AND ADAPTATION OF WELLBEING</p> <p>Erik Barnes – University of Canterbury</p>	<p>MILKING METHANE FROM SLUDGE</p> <p>Dr Julia Valigore – Christchurch City Council</p>	<p>DECENTRALISED ALTERNATIVE WATER SUPPLIES: CATCHY NAMES DON'T GUARANTEE SUCCESS</p> <p>Sean Hinton &amp; Michael Lawrence – Bligh Tanner</p>	
4:30	<p>SEA LEVEL RISE, SHALLOW GROUNDWATER AND INFRASTRUCTURE VULNERABILITY: WHAT IS THE ISSUE?</p> <p>Simon Cox – GNS Science</p>	<p>IMPLICATIONS FOR WATER SUPPLY UTILITIES OF THE THREE WATERS REVIEW PROCESS AND CONSOLIDATION OF WATER SERVICES IN NEW ZEALAND</p> <p>Tony Cussins – Tonkin + Taylor</p>	<p>DYNAMIC MODELLING FOR THE DESIGN AND PERFORMANCE ASSESSMENT OF PRESSURE SEWER NETWORKS</p> <p>Graeme Salmon – GHD</p>	<p>BEYOND BIOSOLIDS – HOW ORGANIC WASTES CAN ACHIEVE A CIRCULAR ECONOMY?</p> <p>Becky MacDonald – Jacobs group australia</p>	<p>ONE COUNCIL, 30 WATER SUPPLIES; WHICH ONES TO CHLORINATE AND WHEN?</p> <p>Murray England &amp; Lisa Mace – Beca</p>	
6:30	"OUR SHOUT" – WATER NEW ZEALAND'S PRE-DINNER DRINKS					
7:30	DOWNER CONFERENCE GALA DINNER					

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# Conference Programme

THURSDAY, 19 NOVEMBER 2020		
8:30	REGISTRATION OPEN	
9:00	<b>KEYNOTE:</b> RAVEEN JADARUM – CHIEF EXECUTIVE – WATERCARE SERVICES <b>[PLENARY]</b>	EXHIBITION VISITORS' MORNING
9:45	<b>KEYNOTE:</b> COLIN CRAMPTON – CHIEF EXECUTIVE – WELLINGTON WATER, PRESIDENT, ENGINEERING NEW ZEALAND <b>[PLENARY]</b>	
10:15	MORNING TEA <b>[EXHIBITION AREA]</b>	
10:45	<b>KEYNOTE:</b> TASWATER MODEL AND THE JOURNEY – ALISA SYPKES – TASWATER <b>[PLENARY]</b>	
11:30	WATER NEW ZEALAND TECHNICAL PROGRAMME COVID-19 RESPONSE – Noel Roberts TRAINING AND EDUCATION UPDATE – Mumtaz Parker WORKING FOR WATER – Renee Butler <b>[PLENARY]</b>	
12:15	WATER NEW ZEALAND – THE NEXT YEAR: WATER NEW ZEALAND PRESIDENT, HELEN ATKINS <b>[PLENARY]</b>	
12:30	CONFERENCE CLOSE <b>[PLENARY]</b>	

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