

## DRAFT PROGRAMME

WEDNESDAY 15 JULY 2020				
9.00am – 9.30am	<b>WELCOME AND CONFERENCE OPENING</b>			
9.30am – 10.15am	<b>KEYNOTE ADDRESS: HON NANAIA MAHUTA, MINISTER OF LOCAL GOVERNMENT</b>			
10.15am – 10.45am	<b>MORNING TEA [EXHIBITION AREA]</b>			
	<b>SUCCESS STORIES/CASE STUDIES</b>	<b>STORMWATER MANAGEMENT &amp; INNOVATION</b>	<b>NATURALISING TE AO MĀORI VALUES</b>	<b>INNOVATION &amp; TECHNOLOGY</b>
10.45am	FISH CONSERVATION FROM WATER ENGINEERING: CASE STUDY FROM NANJING HYDRAULIC RESEARCH INSTITUTE Dr Ian Yang - Nanjing Hydraulic Research Institute & Tony Miller - GHD	TOTAL ECONOMIC VALUATION APPROACH TO THE ASSESSMENT OF WATER QUALITY INTERVENTIONS WITHIN THE AUCKLAND REGION Tom Porter – Gisborne District Council	NGĀ MOMO WĀHI WAI – ENCOMPASSING TE REO MĀORI GEOGRAPHICAL WATER FEATURES & PLACENAMES Troy Brockbank - WSP	MANAGING TROPICAL STORMWATER NETWORKS WITH SMART SYSTEMS: THE SINGAPORE EXPERIENCE Simon Bunn - Suez Smart Solutions
11.15am	STREAM DAYLIGHTING IN INDUSTRIAL WAIHEKE: NOT JUST A RETAINING WALL IN THE PARK Leon Keefer - Beca	DALDY STREET OUTFALL David Pattinson - Wynyard Edge Alliance	BEST PRACTICE STORMWATER AOTEAROA NEW ZEALAND Dr Kēpa Morgan - Ngati Makino	FLOW AND LEVEL PREDICTION WITH MACHINE LEARNING – A DIGITAL TWIN SOLUTION Tom Joseph - Mott MacDonald
11.45am	MULTIFUNCTIONAL APPROACH TO STORMWATER MANAGEMENT – MAXIMISING THE GAINS THROUGH EARLY DESIGN CONSIDERATIONS Lisa Dowson - AR & Associates	THE STORMINATOR™ - A RETROFITTABLE, SUSTAINABLE STORMWATER SOLUTION FOR TREATING METAL ROOF RUNOFF Aisling O’Sullivan – University of Canterbury	THE MAURI COMPASS – INTEGRATING MAURI INTO STORMWATER MANAGEMENT Wolfgang Kanz – Gisborne District Council	DYNAMIC INFLUENCES ON COASTAL STORMWATER – WAIHI BEACH INTERNET OF THINGS MONITORING – PILOT STUDY Anthony Kirk – GHD
12.15pm – 1.15pm	<b>LUNCH [EXHIBITION AREA]</b>			
1.15pm-2.00pm	<b>KEYNOTE ADDRESS: TOM SCHUELER: SMALL URBAN WATERSHEDS A WORLD APART: SOME COMMON STRATEGIES TO PROTECT AND RESTORE THEM</b>			
	<b>INTEGRATED DESIGN</b>	<b>CLIMATE CHANGE</b>	<b>ENGAGING COMMUNITIES</b>	<b>NATURALISING TE AO MĀORI VALUES</b>
2.00pm	NATURAL CHANNEL DESIGN IN THE TASMAN REGION Selene Conn – Tonkin + Taylor	CARBON IMPACT OF GREEN INFRASTRUCTURE Craig Pocock – Beca	TE AUAUNGA PROJECT- HOW STREAM RESTORATION CAN BRING CONNECTEDNESS, A SENSE OF BELONGING Amy Donovan – Auckland Council	MAHI TAHI: WORKING COLLABORATIVELY TO RESTORE AND ENHANCE HAIRINI WETLANDS IN TAURANGA Taima Van Der Leden – Beca
2.30pm	VALUING AND PRESERVING AQUATIC HABITATS Katja Huls – Auckland Council	TAMAKI DRIVE CYCLEWAY AND COASTAL RESILIENCE Dale Paice – Beca	CITIZEN SCIENCE MAKING A REAL DIFFERENCE TO COMMUNITIES – THE SAFESWIM EXPERIENCE Holly Foreman – Auckland Council	INTEGRATING BEST PRACTICE ON TE AHU A TURANGA: MANAWATŪ TARARUA HIGHWAY PROJECT David Hughes Aurecon & Josh Irvine WSP
3.00pm	<b>AFTERNOON TEA [EXHIBITION AREA]</b>			

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	WORKSHOP	RESILIENCE	SUCCESS STORIES/CASE STUDIES – FLOOD RISK	STORMWATER MANAGEMENT – TREATMENT MEDIA
3.30pm	MINISTRY OF TRANSPORT (MOT) TRANSPORT & ENVIRONMENT KNOWLEDGE HUB – WATER GROUP – WORKSHOP Troy Brockbank – WPS	SLIPS, FLOODS AND FALLS: DUNEDIN'S WATERCOURSE PROGRAMME Jonathan Krause – Stantec New Zealand & Tom Dyer – Dunedin City Council	RADIUS FULTON – HOLDING BACK THE FLOOD Mark Ellis – Pattle Delamore Partners	THE MEDIA REPORT – AN INVESTIGATION INTO INFILTRATION BASIN PERFORMANCE IN CHRISTCHURCH Liam Allan – Pattle Delamore Partners
4.00pm		STORMWATER MODEL VALIDATION TO AN HISTORICAL FLOOD – ISLAND BAY, WELLINGTON Kristen Stokes – Jacobs	PIHA FLOOD MANAGEMENT Richard Smedley – Auckland Council	MUSSEL SHELLS = FANTASTIC FILTERS David Wilson – The Urban Engineers
4.30pm			DELIVERY OF UPGRADE TO FOXTON EAST DRAINAGE SCHEME Daniel McMullan - e2Environmental Ltd	ENSURING QUALITY SUPPLY OF MEDIA FOR BIORETENTION TREATMENT DEVICES Dean Rissetto - Central Landscape Supplies Silverdale
5.00pm-6.00pm	Welcome Function [Exhibition Area]			

### THURSDAY 16 JULY 2020

8.30am – 9.15am	KEYNOTE ADDRESS: ANNETTE LEES: SWIM - A YEAR OF SWIMMING OUTDOORS IN NEW ZEALAND			
9.15am – 10.15am	INNOVATION SHOWCASE			
10.15am – 1.45am	MORNING TEA [EXHIBITION AREA]			
10.45 am – 11.15am	INDUSTRY UPDATE, KELVIN HILL, PRESIDENT WATER NZ			
	STORMWATER MANAGEMENT & INNOVATION	CLIMATE CHANGE & RESILIENCE	NATURALISING TE AO MĀORI VALUES & INTEGRATED DESIGN	STORMWATER MANAGEMENT - WATER QUALITY
11.15am	PEAK DISCHARGE CONTROL FOR FLOOD MITIGATION – DOES IT WORK? Charlie Sherratt - Tonkin + Taylor	CLIMATE CHANGE ADJUSTED RAINFALL FOR CONTINUOUS SIMULATION Mike Law - Beca	AWAKERI WETLANDS – CREATING SUSTAINABLE URBAN WATERWAYS Amelia Cunningham - Auckland Council	INTEGRATED DESIGN – BENEFITS OF HYDRODYNAMIC SEPARATORS PRIOR TO STORMWATER DETENTION BASINS. Bradley Tiller - Hynds Pipe Systems
11.45am	DOES YOUR DETENTION MEET YOUR INTENTION? Mark Groves - WSP	EFFECTIVE FLOOD RISK MANAGEMENT IN THE FACE OF A CHANGING CLIMATE- LESSONS FROM THE UK Alex Cartwright - Tonkin + Taylor	RECOGNISING TE MANA O TE WAI Paul Ryan - Hamilton City Council	THE EFFECT OF BAFFLES ON THE PERFORMANCE OF SEDIMENT RETENTION PONDS IN THERMALLY INDUCED FLOWS Ehsan Hendi - University of Auckland
12.15pm	AN INNOVATIVE CENTRALISED STORMWATER TREATMENT SYSTEM & PUMPING FACILITY – NZ'S LARGEST MANUFACTURED TREATMENT DEVICE Kevin Jonathan - Stormwater 360	SMALL SITE DEVELOPMENT – REDUCING LONG TERM RISK OF OLFP Angela Goodwin - Potentialis Planning & Josy Cooper - Wintec	PROCESS ALIGNMENT AND SAVING DESIGN FROM GOING DOWN THE DRAIN Kate McNeill - Beca	KOPUREREUA FAECAL SOURCE TRACKING INVESTIGATION Jim Summers – Tauranga City Council
12.45pm – 1.45pm	LUNCH [EXHIBITION AREA]			

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	RAINFALL RUNOFF & FLOOD HAZARD	STORMWATER MANAGEMENT - WATER QUALITY	STORMWATER MANAGEMENT - POLICY	SUCCESS STORIES/CASE STUDIES
1.45pm	DEVELOPING A STANDARDISED APPROACH TO RAINFALL- RUNOFF MODELLING. AGAIN Mark Megaughin - Beca	CHARACTERISING UNTREATED STORMWATER QUALITY TO GUIDE STORMWATER MANAGEMENT PLANNING: A TIMARU CASE STUDY Frances Charters - University of Canterbury	WHAT THE GOVERNMENT IS DOING TO IMPROVE THE SERVICE DELIVERY AND ENVIRONMENTAL PERFORMANCE OF STORMWATER Arron Cox - Ministry for the Environment	IMPLEMENTATION OF A SUSTAINABLE, WATER SENSITIVE URBAN DEVELOPMENT Costas Chrissyafis - Tonkin + Taylor
2.15pm	CALIBRATION OF A DIRECT RAINFALL HYDROLOGICAL MODEL Michael Fifield - Tonkin + Taylor	NUTRIENTS AND INDICATOR BACTERIA IN URBAN WATERS Jennifer Gadd - NIWA	AUCKLAND'S REGIONWIDE NETWORK DISCHARGE CONSENT - CHANGES AND CHALLENGES OF THE FIRST SIX MONTHS Gemma Chuah – Auckland Council	GISBORNE'S APPROACH TO REDUCING INFLOW AND INFILTRATION – IT'S A LOT ABOUT STORMWATER! Wolfgang Kanz - Gisborne District Council
2.45pm	CASE STUDIES OF A DEPTH TIMES VELOCITY BASED APPROACH TO URBAN STORMWATER MANAGEMENT AND RESILIENCE Chris Moore - Beca	THE IMPORTANCE OF HOTSPOTS IN STORMWATER LITTER MANAGEMENT Mariana Basilio – Stormwater360	TECHNICAL GUIDANCE FRAMEWORK FOR STORMWATER IN AUCKLAND REGION Amir Montakhab – Auckland Council	CONCRETE STORMWATER PIPELINES – IMPROVING SUSTAINABILITY Husham Issa Al-saleem - Husham Al-saleem Civil Consultant
<b>3.15pm – 3.45pm</b>	<b>Afternoon Tea [Exhibition Area]</b>			
	SUSTAINABLE WATER MANAGEMENT & STORMWATER MANAGEMENT	SUCCESS STORIES/CASE STUDIES	ENGAGING COMMUNITIES	INNOVATION, TECHNOLOGY & MODELLING
3.45pm	THE LOST FIELD OF SUSTAINABLE STORMWATER MANAGEMENT -THE PAST AND FUTURE OF URBAN INDUSTRIAL AREAS Yuliang Wang - University of Auckland	WHEN CHEMISTRY DOES NOT WORK: FINDING A STORMWATER SOLUTION AT A HIGHLY CONSTRAINED INDUSTRIAL SITE Marcia Ho - Aurecon	ON THE USE OF SIMPLE FLOW PATH MODELS TO ACHIEVE SOCIAL-ECOLOGICAL CHANGE Daniel Ward - University of Auckland	THAT'S A BIT ROUGH! Mark Pennington – Tonkin + Taylor
4.15pm	MEETING THE CHALLENGES OF STORMWATER MANAGEMENT ACROSS 17 URBAN CATCHMENTS Sophie Jones - Far North District Council & Vjesh Chandra - GHD	STORMWATER MASTER PLANNING – A SCALABLE APPROACH FOR HAMILTON CITY Ari Craven - Beca	TIME-LAPSE PHOTOGRAPHY FOR LOW-COST URBAN STREAM MONITORING AND COMMUNITY ENGAGEMENT Mika Zollner - Victoria University	EFFICIENT HYDRAULIC DESIGN OF STORMWATER DRAINAGE NETWORK FOR BETTER PERFORMANCE Larry Shui - Municipal Design
4.45pm	WATER QUALITY IN AUCKLAND – FWMT CURRENT STATE & PROCESS MODELLING ADVANCES Tom Stephens - Auckland Council	WATER SENSITIVE URBAN DESIGN IN OUR BACKYARD: MANGAKÖTUKUTUKU URBAN RESEARCH HUB, HAMILTON Lucy McKergow - NIWA		THE USE OF DYNAMIC FREEBOARD Nadia Nitsche – Wellington Water
<b>5.15pm</b>	<b>STORMWATER GROUP ANNUAL GENERAL MEETING</b>			
<b>7.30pm – 11.00pm</b>	<b>CONFERENCE DINNER</b>			

### FRIDAY 17 JULY 2020

#### SITE VISITS

9.30am – 1.30pm	SITE VISIT ONE – SUCCESS STORIES/CASE STUDIES – WATERWAYS	SITE VISIT TWO – STORMWATER MANAGEMENT – DESIGN APPROACH INNOVATION & TECHNOLOGY	SITE VISIT THREE – NATURALISING TE AO MAORI VALUES
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# Stormwater 2020

15 – 17 July 2020 | Tauranga



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