

Stormwater 2020

26 – 27 August 2020 | Online and On-Demand

CONFERENCE PROGRAMME

WEDNESDAY 26 AUGUST 2020

9.00am	WELCOME AND CONFERENCE OPENING			
9.30am	KEYNOTE ADDRESS: HON NANAIA MAHUTA, MINISTER OF LOCAL GOVERNMENT			
10.15am	EXPO			
	SUCCESS STORIES/CASE STUDIES	STORMWATER MANAGEMENT & INNOVATION	NATURALISING TE AO MĀORI VALUES	INNOVATION & TECHNOLOGY
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 Sue Ira – Koru Environmental	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 & Sam Nandasena, Auckland Council	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 Quy Vu – Mott MacDonald
11.45am	MULTIFUNCTIONAL APPROACH TO STORMWATER MANAGEMENT – MAXIMISING THE GAINS THROUGH EARLY DESIGN CONSIDERATIONS Lisa Dowson – Tonkin & Taylor & Greg Edwards – AR & Associates		THE MAURI COMPASS – INTEGRATING MAURI INTO STORMWATER MANAGEMENT Wolfgang Kanz – Gisborne District Council & Ian Ruru – MauriCompass	
12.15pm	EXPO			
1.15pm	KEYNOTE ADDRESS: TOM SCHUELER: SMALL URBAN WATERSHEDS A WORLD APART: SOME COMMON STRATEGIES TO PROTECT AND RESTORE THEM			
	INTEGRATED DESIGN	CLIMATE CHANGE	ENGAGING COMMUNITIES	NATURALISING TE AO MĀORI VALUES
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	DELIVERY OF UPGRADE TO FOXTON EAST DRAINAGE SCHEME Daniel McMullan – e2Environmental Ltd	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	EXPO			
	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 & Nadia Nitsche – Wellington Water	PIHA FLOOD MANAGEMENT Richard Smedley – Auckland Council	ENSURING QUALITY SUPPLY OF MEDIA FOR BIORETENTION TREATMENT DEVICES Dean Rissetto – Central Landscape Supplies Silverdale

CONFERENCE PROGRAMME

THURSDAY 27 AUGUST 2020

8.30am	KEYNOTE ADDRESS: ANNETTE LEES: SWIM – A YEAR OF SWIMMING OUTDOORS IN NEW ZEALAND			
9.15am	INNOVATION SHOWCASE			
10.15am	EXPO			
10.45am	INDUSTRY UPDATE: KELVIN HILL, PRESIDENT WATER NEW ZEALAND			
	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 Jesse Peeters – Auckland Council Csongor Czegledi – Landspekt NZ	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	TOO MUCH AND TOO LITTLE WATER, INSIGHTS FROM THE NATIONAL CLIMATE CHANGE RISK ASSESSMENT 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 – Aurecon & University of Auckland
12.15pm	AN INNOVATIVE CENTRALISED STORMWATER TREATMENT SYSTEM & PUMPING FACILITY – NZ'S LARGEST MANUFACTURED TREATMENT DEVICE Kevin Jonathan – Stormwater360 & Peter Christensen – Christchurch City Council	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 & Paul Greenshields – Bay of Plenty Regional Council
12.45pm	EXPO			
	RUNOFF & MODELLING	STORMWATER MANAGEMENT – WATER QUALITY	STORMWATER MANAGEMENT – POLICY	SUCCESS STORIES/CASE STUDIES
1.45pm	THE APPLICATION OF A DEPTH TIMES VELOCITY BASED APPROACH TO URBAN STORMWATER UPGRADE PROJECTS Chris Moore – Beca & Jonathan Dixon – Aurecon	CHARACTERISING UNTREATED STORMWATER QUALITY TO GUIDE STORMWATER MANAGEMENT PLANNING: A TIMARU CASE STUDY Frances Charters – University of Canterbury	NEW POLICIES RELATED TO IMPROVING ENVIRONMENTAL OUTCOMES FROM STORMWATER MANAGEMENT Adrian Young – Ministry for the Environment	IMPLEMENTATION OF A SUSTAINABLE, WATER SENSITIVE URBAN DEVELOPMENT Costas Chryssafis – Tonkin + Taylor
2.15pm	WATER QUALITY IN AUCKLAND – FWMT CURRENT STATE & PROCESS MODELLING ADVANCES Tom Stephens – Auckland Council	NUTRIENTS AND INDICATOR BACTERIA IN URBAN WATERS Jennifer Gadd – NIWA	AUCKLAND'S REGIONWIDE NETWORK DISCHARGE CONSENT – CHANGES AN CHALLENGES OF THE FIRST SIX MONTHS Gemma Chuah & Paula Vincent – Auckland Council	GISBORNE'S APPROACH TO REDUCING INFLOW AND INFILTRATION – IT'S A LOT ABOUT STORMWATER! Wolfgang Kanz – Gisborne District Council & Neville West
2.45pm		CHARACTERISTICS OF LITTER IN STORMWATER MANAGEMENT: DEVELOPING A HOTSPOT METHODOLOGY Darren Tiddy – Stormwater360	TECHNICAL GUIDANCE FRAMEWORK FOR STORMWATER IN AUCKLAND REGION Amir Montakhab – Auckland Council	CONCRETE STORMWATER PIPELINES – IMPROVING SUSTAINABILITY Americo dos Santos – Hynds Pipe Systems Ltd.
3.15pm	EXPO			
	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 & David Delagarza – 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		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 SENSITIVE URBAN DESIGN IN OUR BACKYARD: MANGAKŌTUKUTUKU URBAN RESEARCH HUB, HAMILTON Lucy McKergow – NIWA		THE USE OF DYNAMIC FREEBOARD Kristin Stokes – Jacobs & Ben Fountain – WWL
5.15pm	STORMWATER GROUP ANNUAL GENERAL MEETING			