

FINAL PROGRAMME

WEDNESDAY 01 MAY 2019				
9.00am – 9.30am	Welcome and Conference Opening [Millennium Ballroom]			
9.30am – 10.15am	Keynote Address: Dwane Jones (<i>Director of the Center for Sustainable Development + Resilience, University of the District of Columbia, USA</i>) [Millennium Ballroom]			
10.15am – 10.45am	Morning Tea [Exhibition Area]			
	Reconnecting and restoring [Millennium I]	Innovations and Collaborations – Success Stories [Millennium II]	Harnessing Technology [Tasman I]	Health and wellbeing of stormwater systems [Tasman II]
10.45am	Scalable Cost-Effective Solutions to Restore Stream Ecosystems <i>Mike Cope, WSP Opus</i>	Saving 450 Years of History from Tidal Flooding in St Augustine, Florida <i>James Logan, Hygrade Products</i>	What is the Future of Stormwater Management for Transport and Urban Environments in New Zealand? <i>Richard Wilson & Tim Fisher, Tonkin + Taylor</i>	Safenetworks: Reducing the Risk to Public Health at Auckland's Safeswim Beaches <i>Jon Rix, Tonkin + Taylor</i>
11.15am	Climate Change and Urban Waterways: Alterations in the Flow Regime Under Multiple Ensembles <i>Muhammad Saleem Akhter, The University Of Auckland</i>	Green Square - Unlocking the Flood Risk Management Problems of the Past <i>Nicholas Taylor, WSP Opus</i>	Digital Tools for Innovative Public Engagement <i>James Sturman, Aurecon NZ</i>	WSUD can be Cost-effective and Low-maintenance, not to mention all the other benefits <i>Jonathan Moores, NIWA</i>
11.45am	Fighting an Upstream Battle - The Barriers to Implementing the Fish Passage Guidelines <i>Colin Jermy, Stantec</i>	Between a Rock and a Hard Place: Sumner Road Stormwater Rebuild <i>Angela Pratt, Beca</i>	High Resolution Stormwater Drainage Assessments Using GPU Acceleration <i>Bill Syme, BMT</i>	Waikato Stormwater Management Guidelines <i>Megan Wood, Wainui Consulting & Brian Richmond Waikato Regional Council</i>
12.15pm – 1.00pm	Lunch [Exhibition Area]			
1.00pm – 2.00pm	Keynote Address: Chris Digman (<i>Stantec UK</i>) [Millennium Ballroom]			
2.00pm – 2.30pm	NETWORKING [Exhibition Area]			
	Reconnecting and restoring [Millennium I]	Innovations and Collaborations – Success Stories [Millennium II]		Health and wellbeing of stormwater systems [Tasman II]
2.30pm	Regional Stormwater Management Facilities using an Engineered High-performance Biofiltration System <i>Alex MacLeod, Contech Engineered Solutions, USA</i>	A Coupled Wetland Biofilter: The Best of Both Worlds <i>Dale Paice, Beca</i>		Improving Catchment Health While Reducing Flooding: the Ōpāwaho / Heathcote River Story <i>Peter Christensen, CTN Consulting</i>
3.00pm	Characterising Load, Treatment, and Monitoring as Sources of Variability in Stormwater Treatment Devices <i>Forrest Bilek, University Of Canterbury</i>	Whose Discharge is this? Collaboration between a Port and a City <i>Radleigh Cairns, Tauranga City Council</i>		Wigram Basin Upgrade – Retrofitting an Existing Blue-Green Asset <i>Kate Purton, Beca</i>
3.30pm – 4.00pm	Afternoon Tea [Exhibition Area]			
	Reconnecting and restoring [Millennium I]	Innovations and Collaborations – Success Stories [Millennium II]	Harnessing Technology [Tasman I]	Health and wellbeing of stormwater systems [Tasman II]

4.00pm	Dredging to Restore Resilience to a Critical Christchurch Waterway Bryan Peters, Stantec New Zealand	How Will Climate Change Affect Our Two Waters? <i>James Hughes, Tonkin + Taylor</i>	Culturally Enhanced Stormwater – Interweaving Mātauranga Māori <i>Troy Brockbank, WSP Opus</i>	Cost-Effective Tools for Urban Water Quality Monitoring <i>Jennifer Gadd, NIWA</i>
4:30pm	Te Auaunga - Flood Management Driven by Community and Delivering Significant Social and Environmental Outcomes <i>Mark Lewis, Boffa Miskell</i>	The Stormwater and Tide Interface in Christchurch <i>Graham Harrington, Christchurch City Council</i>	Quantifying the Contribution of Rainfall and Tide Levels on Flooding in Low-lying Coastal Areas <i>Cheryl Bai, Auckland Council</i>	Dry Weather Discharges from a Monitored Stormwater Catchment <i>Ed Clayton, Pattle Delamore Partners & Tim Hopley, Auckland Council</i>
5:00pm	Auckland's Approach to the Stream Erosion Problem Josh Irvine, WSP Opus	Fast-tracking Floodplain Management in an Uncertain Climate: The Ōpāwaho / Heathcote River Story <i>Peter Christensen, CTN Consulting</i>	Using Global Lessons to Implement Water Sensitive Design into Local Neighborhoods <i>Justine Jones, Beca</i>	
5.30pm – 6.30pm	Welcome Function [Exhibition Area]			

THURSDAY 02 MAY 2019				
8.30am – 9:30am	Keynote Address: Rich Batiuk (<i>Coastwise Partners, USA</i>) [Millennium Ballroom]			
9:30am – 10:30am	Innovation Showcase [Millennium Ballroom]			
10.30am – 11.00am	Morning Tea [Exhibition Area]			
	Reconnecting and restoring [Millennium I]	Asset availability, vulnerability, and resilience – Lifelines [Millennium II]	Harnessing Technology [Tasman I]	Health and wellbeing of stormwater systems [Tasman II]
11.00am	Engineering the Life Back into Maketū Estuary <i>Mark Townsend, BOPRC & Jacob Steenkamp, Beca</i>	Bridge Manual Waterway Design: An Update <i>Iain Smith, Beca</i>	Adaptive Planning Using a Data-rich, Interactive and Accessible Tools <i>Damian Young, Morphum Environmental</i>	Regional Predictive Outputs for the NPS-FM – Auckland's Freshwater Management Tool <i>Dustin Bambic, Paradigm Environmental</i>
11.30am	Case Study: Sleemans Slip. A Grass Spillway Solution, using the Five Fundamentals of Successful Rehabilitation <i>Joe Johnson, PGG Wrightson</i>	Unintended Consequences: Stormwater to Ground vs Groundwater Drinking Supply Protection Brent Hamilton, WSP Opus	Temporal Rainfall - A Risk-Based Approach <i>Andrew Boldero, WSP Opus</i>	The Effect of Inlet Width on the Performance of Retention Ponds in Thermally Induced Flows <i>Ehsan Hendi, The University Of Auckland</i>
12.00pm	Addington Brook - A catchment Approach to Improving the Health of an Urban Waterway <i>Jenny Watters, Environment Canterbury</i>		A Systemic Tool for a Multi-value Stormwater Management System <i>Ting Powell, e2 Environmental</i>	Modelling Long-Term Volume Retention In A Bioretention Device <i>Jahangir Islam, Aecom New Zealand</i>
12.30pm – 1.30pm	Lunch [Exhibition Area]			
	Innovations and Collaborations – Success Stories [Millennium I]	Connecting people with water and our environment [Millennium II]	Health and wellbeing of stormwater systems [Tasman I]	Training & Education Forum [Tasman II] Presentation of the Stormwater T&E Plan and the

1.30pm	Sweating the Assets: A Smart Infrastructure Approach for an Intensified Future <i>Roger Seyb, Beca</i>	Reflecting Mātauranga Māori in Water Sensitive Urban Design <i>Emily Afoa, Tektus Consultants</i>	Delivering Value for Money Water Quality Improvements – Evaluating the Retrofit of Proprietary Treatment Devices <i>Jackie Zhou, WSP Opus</i>	way forward.
2.00pm	Enabling Factors for Transitioning to Improved Urban Water Outcomes; Winston Churchill Fellowship Findings <i>Stu Farrant, Morphem Environmental</i>	Back to Takanini - Pipes? Where we're going, we don't need pipes <i>Andrew Nell, Ar & Associates</i>	Identification, Prioritization, and Mitigation – a Three Step Process for Stormwater Quality Management <i>Kalyan Chakravarthy, DHI New Zealand</i>	
2.30pm	Rain Radar Nowcasting of High Intensity Rain Events in Auckland and Wellington <i>Luke Sutherland-Stacey, Weather Radar New Zealand</i>	Solids & Colour in Roof-water Preventing its Reuse and Technologies to Remove Them <i>Ropru Rangisivek, Lautrec Technology Group</i>	Prioritising to Deliver Safe Waterways and Harbours, Catchpit by Catchpit <i>Ying Yang, GHD</i>	
3.00pm – 3.30pm	Afternoon Tea [Exhibition Area]			
	Innovations and Collaborations – Success Stories [Millennium I]	Asset availability, vulnerability, and resilience – Lifelines [Millennium II]	Health and wellbeing of stormwater systems [Tasman I]	Safety in design [Tasman II]
3.30pm	Innovation through Collaboration – Community Friendly Wingwalls <i>Joseph Brenan, Hynds Pipe Systems</i>	Embedding Successful WSUD Asset Management Practices - Lessons from across the Ditch <i>Stuart Joyce, Morphem Environmental</i>	One NDC for Auckland – An Adaptive Management Approach <i>Paula Vincent, Auckland Council</i>	Public Safety at Catchpits - Lessons from Tragedy <i>James Reddish, WSP Opus</i>
4:00pm	The Aquacomb Response to Shrinking Permeable Surface Problem - an Innovative Solution <i>Andrew Olsen, Construction Solution Products</i>	Water Sensitive Design Performance over the past 10 years: A Road Map to the Future <i>Linda Norman, ACH Consulting</i>	Climatological Variability and Limitations of Forecasting Extreme Rainfall Statistics <i>Nick Brown, Auckland Council</i>	Water Quality Sampling from an Unmanned Aerial Vehicle <i>Tom Porter, Auckland Council & Thom Gower Pattle Delamore Partners</i>
4.30pm – 5:00pm	Stormwater Group Annual General Meeting [Millennium I]			
7.00pm – 11:00pm	Conference Dinner			

FRIDAY 03 MAY 2019				
9.00am – 10.00am	Keynote Address: Craig McIlroy (Healthy Waters, Auckland Council) [Millennium Ballroom]			
10.00am – 10.30am	Morning Tea [Exhibition Area]			
	Reconnecting and restoring [Millennium I]	Asset availability, vulnerability, and resilience – Lifelines [Millennium II]	Innovations and Collaborations – Success Stories [Tasman I]	
10.30am	Urban Development Stormwater Management – How to Achieve Excellent Outcomes Through Collaboration <i>Neill Raynor, Aurecon New Zealand</i>	Operational Dashboard <i>Andrew Skelton, Auckland Council</i>	Wetland 1 at the Drury South Precinct – Opportunities within the Floodplain <i>Andrew Hope, Tonkin + Taylor</i>	

11.00am	Developing Urban Water Principles and Practices for Urban Water in Aotearoa <i>Arron Cox, Ministry For The Environment</i>	Structural Renewal of Deteriorated Under-road <i>John Monro, Interflow</i>	A Successful Collaborative Story of a Boating Club in Achieving an Innovative Treatment Solution <i>Mariana Basilio, Stormwater360</i>
11.30am	Contaminants within urban waterways sediment and the implications for flood protection projects <i>Gareth Oddy, ENGEO</i>	Assessment and Acceptance of New Stormwater Pipelines <i>Husham Issa Al-Saleem, Husham Al Saleem - Civil Consultant</i>	Grahams Creek - Flood Mitigation when Engineering and Environment Combine <i>Ghassan Basheer, Waikato Regional Council</i>
12.00pm – 1.00pm	Lunch [Exhibition Area]		
1.00pm – 5.00pm	Site Visit One – AMETI [Meet in Foyer]	Site Visit Two – West [Meet in Foyer]	Site Visit Three South – Māori perspective [Meet in Foyer]