

PRELIMINARY PROGRAMME

WEDNESDAY 01 MAY 2019				
9.00am	Welcome and Conference Opening: Keynote Address: Dwane Jones (<i>Director of the Center for Sustainable Development + Resilience, University of the District of Columbia, USA</i>)			
10.30am	Morning Tea [Venue: Exhibition Area]			
	Reconnecting and restoring	Innovations and Collaborations – Success Stories	Harnessing Technology	Health and wellbeing of stormwater systems
11.00am	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, Tonkin & Taylor</i>	Safenetworks: Reducing the Risk to Public Health at Auckland’s Safeswim Beaches <i>Jon Rix, Auckland Council</i>
11.30am	Stream Design Guideline for Greenfield Developments in the Nelson Tasman Region <i>Josh Markham, Tonkin & Taylor</i>	Green Square - Unlocking the Flood Risk Management Problems of the Past <i>Nicholas Taylor, WSP Opus</i>	Regenerate Christchurch: 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>
12.00pm	Fighting an Upstream Battle - The Barriers to Implementing the Fish Passage Guidelines <i>Colin Jermyrn, 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</i>
12.30pm	Lunch [Venue: Exhibition Area]			
1.30pm	Keynote Address: Chris Digman (<i>Stantec UK</i>)			
	Reconnecting and restoring	Innovations and Collaborations – Success Stories	Harnessing Technology	Health and wellbeing of stormwater systems
2.30pm	Climate Change and Urban Waterways: Alterations in the Flow Regime Under Multiple Ensembles <i>Muhammad Saleem Akhter, The University Of Auckland</i>	A Coupled Wetland Biofilter: The Best of Both Worlds <i>Dale Paice, Beca</i>	Quantifying the Contribution of Rainfall and Tide Levels on Flooding in Low-lying Coastal Areas <i>Cheryl Bai, Auckland Council</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>	Dynamic Influences on Coastal Stormwater – Waihi Beach Internet of Things Pilot Study <i>Anthony Kirk, Ghd</i>	Wigram Basin Upgrade <i>Kate Purton, Beca</i>
3.30pm	Afternoon Tea [Venue: Exhibition Area]			
	Reconnecting and restoring	Innovations and Collaborations – Success Stories	Harnessing Technology	Health and wellbeing of stormwater systems

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>Katherine Heays, 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>	Perceptions of Low-impact Development in New Zealand <i>Kirstin Newfield, University Of Toronto</i>	Dry Weather Discharges from a Monitored Stormwater Catchment <i>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>	Swimmable Stormwater? <i>Sarah Dudson, WSP Opus</i>
5.30pm	Welcome Function [Venue: Exhibition Area]			

THURSDAY 02 MAY 2019				
9.00am – 9:30am	Keynote Address: Rich Batiuk (<i>Coastwise Partners, USA</i>)			
9:30am – 10:30am	Innovation Showcase			
10.30am	Morning Tea [Venue: Exhibition Area]			
	Reconnecting and restoring	Asset availability, vulnerability, and resilience – Lifelines	Harnessing Technology	Health and wellbeing of stormwater systems
11.00am	Engineering the Life Back into Maketū Estuary <i>Jacob Steenkamp, Beca</i>	Kaikoura Earthquake Stormwater Infrastructure Resilience <i>Tom Parkes, Aurecon</i>	Adaptive Planning Using a Data-rich, Interactive and Accessible Tools <i>Jan Heijs, Morphum Environmental</i>	Regional Predictive Outputs for the NPS-FM – Auckland's Freshwater Management Tool <i>Tom Stephens, Auckland Council</i>
11.30am	Case Study: Sleemans Slip. A Grass Spillway Solution, using the Five Fundamentals of Successful Rehabilitation <i>Joe Johnson, Pgg Wrightson</i>	Bridge Manual Waterway Design: An Update <i>Iain Smith, Beca</i>	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>	Unintended Consequences: Stormwater to Ground vs Groundwater Drinking Supply Protection Brent Hamilton, WSP Opus	A Systemic Tool for a Multi-value Stormwater Management System <i>Ting Powell, e2 Environmental</i>	Regional Stormwater Management Facilities using an Engineered High-performance Biofiltration System <i>Michael Hannah, Stormwater360</i>
12.30pm	Lunch [Venue: Exhibition Area]			
	Innovations and Collaborations – Success Stories	Connecting people with water and our environment	Health and wellbeing of stormwater systems	
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>	

2.00pm	Enabling Factors for Transitioning to Improved Urban Water Outcomes; Winston Churchill Fellowship Findings <i>Stu Farrant, Morphum 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 & Color in Roof-water Preventing its Reuse and Technologies to Remove Them <i>Ropru Rangsavek, Lautrec Technology Group</i>	Prioritising to Deliver Safe Waterways and Harbours, Catchpit by Catchpit <i>Ying Yang, Ghd</i>	
3.00pm	Afternoon Tea [Venue: Exhibition Area]			
	Innovations and Collaborations – Success Stories	Asset availability, vulnerability, and resilience – Lifelines	Health and wellbeing of stormwater systems	Safety in design
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, Morphum Environmental</i>	Nested Hyetographs as Design Storms: The Cloud of Uncertainty <i>Lucy Whitelock-bell, Tonkin & Taylor</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>Jahangir Islam, Aecom New Zealand</i>	Water Quality Sampling from an Unmanned Aerial Vehicle <i>Tom Porter, Auckland Council</i>
4.30pm – 5:00pm	Stormwater Group Annual General Meeting			
7.00pm – 11:00pm	Conference Dinner			

FRIDAY 03 MAY 2019				
9.00am – 9:30am	Keynote Address: Craig McIlroy (Healthy Waters, Auckland Council)			
10.00am	Morning Tea [Venue: Exhibition Area]			
	Reconnecting and restoring	Asset availability, vulnerability, and resilience – Lifelines	Innovations and Collaborations – Success Stories	
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 Pty</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	Lunch [Venue: Exhibition Area]		
1.00pm – 5.00pm	Site Visits		