

Stormwater 2019

Mō Āpōpō – Stormwater: The Next Generation

1–3 May 2019, Grand Millennium, Auckland

CONFERENCE PROGRAMME



WEDNESDAY 01 MAY 2019

9.00am	Welcome and Conference Opening [Millennium Ballroom]			
9.30am	Keynote Address: Dwane Jones, Director of the Center for Sustainable Development + Resilience, University of the District of Columbia, USA [Millennium Ballroom]			
10.15am	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 Mike Cope, WSP Opus	Saving 450 Years of History from Tidal Flooding in St Augustine, Florida James Logan, Hygrade Products	What is the Future of Stormwater Management for Transport and Urban Environments in New Zealand? Richard Wilson & Tim Fisher, Tonkin + Taylor	Safenetworks: Reducing the Risk to Public Health at Auckland's Safeswim Beaches Jon Rix, Tonkin + Taylor
11.15am	Climate Change and Urban Waterways: Alterations in the Flow Regime Under Multiple Ensembles Muhammad Saleem Akhter, The University Of Auckland	Green Square – Unlocking the Flood Risk Management Problems of the Past Nicholas Taylor, WSP Opus	Digital Tools for Innovative Public Engagement James Sturman, Aurecon NZ	WSUD can be Cost-effective and Low-maintenance, not to mention all the other benefits Jonathan Moores, NIWA
11.45am	Fighting an Upstream Battle – The Barriers to Implementing the Fish Passage Guidelines Colin Jermyrn, Stantec	Between a Rock and a Hard Place: Sumner Road Stormwater Rebuild Angela Pratt, Beca	High Resolution Stormwater Drainage Assessments Using GPU Acceleration Bill Syme, BMT	Waikato Stormwater Management Guidelines Megan Wood, Wainui Consulting & Brian Richmond, Waikato Regional Council
12.15pm	Lunch [Exhibition Area]			
1.00pm	Keynote Address: Chris Digman, Stantec UK [Millennium Ballroom]			
2.00pm	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 Alex MacLeod, Stormwater360	A Coupled Wetland Biofilter: The Best of Both Worlds Dale Paice, Beca		Improving Catchment Health While Reducing Flooding: the Opāwaho/Heathcote River Story Peter Christensen, CTN Consulting
3.00pm	Characterising Load, Treatment, and Monitoring as Sources of Variability in Stormwater Treatment Devices Forrest Bilek, University Of Canterbury	Whose Discharge is this? Collaboration between a Port and a City Radleigh Cairns, Tauranga City Council		Wigram Basin Upgrade – Retrofitting an Existing Blue-Green Asset Kate Purton, Beca
3.30pm	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? James Hughes, Tonkin + Taylor	Culturally Enhanced Stormwater – Interweaving Mātauranga Māori Troy Brockbank, WSP Opus	Cost-Effective Tools for Urban Water Quality Monitoring Jennifer Gadd, NIWA
4.30pm	Te Auaunga – Flood Management Driven by Community and Delivering Significant Social and Environmental Outcomes Mark Lewis, Boffa Miskell	The Stormwater and Tide Interface in Christchurch Graham Harrington, Christchurch City Council	Quantifying the Contribution of Rainfall and Tide Levels on Flooding in Low-lying Coastal Areas Cheryl Bai, Auckland Council	Dry Weather Discharges from a Monitored Stormwater Catchment Ed Clayton, Pattle Delamore Partners
5.00pm	Auckland's Approach to the Stream Erosion Problem Josh Irvine, WSP Opus	Fast-tracking Floodplain Management in an Uncertain Climate: The Opāwaho/Heathcote River Story Peter Christensen, CTN Consulting	Using Global Lessons to Implement Water Sensitive Design into Local Neighborhoods Justine Jones, Beca	
5.30pm – 6.30pm	Welcome Function [Exhibition Area]			



CONFERENCE PROGRAMME

THURSDAY 02 MAY 2019

8.30am	Keynote Address: Rich Batiuk, Coastwise Partners, USA [Millennium Ballroom]			
9.30am	Innovation Showcase [Millennium Ballroom]			
10.30am	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 Mark Townsend, BOPRC & Jacob Steenkamp, Beca	Bridge Manual Waterway Design: An Update Iain Smith, Beca	Adaptive Planning Using a Data-rich, Interactive and Accessible Tools Damian Young, Morphum Environmental	Regional Predictive Outputs for the NPS-FM – Auckland’s Freshwater Management Tool Dustin Bambic, Paradigm Environmental
11.30am	Case Study: Sleemans Slip. A Grass Spillway Solution, using the Five Fundamentals of Successful Rehabilitation Joe Johnson, Pgg Wrightson	Unintended Consequences: Stormwater to Ground vs Groundwater Drinking Supply Protection Brent Hamilton, WSP Opus	Temporal Rainfall – A Risk-Based Approach Andrew Boldero, WSP Opus	The Effect of Inlet Width on the Performance of Retention Ponds in Thermally Induced Flows Ehsan Hendi, The University Of Auckland
12.00pm	Addington Brook – A Catchment Approach to Improving the Health of an Urban Waterway Jenny Watters, Environment Canterbury		A Systemic Tool for a Multi-value Stormwater Management System Ting Powell, e2 Environmental	Modelling Long-Term Volume Retention In A Bioretention Device Jahangir Islam, Aecom New Zealand
12.30pm	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]
1.30pm	Sweating the Assets: A Smart Infrastructure Approach for an Intensified Future Roger Seyb, Beca	Reflecting Mātauranga Māori in Water Sensitive Urban Design Emily Afoa, Tektus Consultants	Delivering Value for Money Water Quality Improvements – Evaluating the Retrofit of Proprietary Treatment Devices Jackie Zhou, WSP Opus	Presentation of the Stormwater Education and Training Plan and the Way Forward James Reddish, WSP Opus & Clare Feeney
2.00pm	Enabling Factors for Transitioning to Improved Urban Water Outcomes; Winston Churchill Fellowship Findings Stu Farrant, Morphum Environmental	Back to Takanini – Pipes? Where we’re going, we don’t need pipes Andrew Nell, Ar & Associates	Identification, Prioritization, and Mitigation – a Three Step Process for Stormwater Quality Management Kalyan Chakravarthy, DHI New Zealand	
2.30pm	Rain Radar Nowcasting of High Intensity Rain Events in Auckland and Wellington Luke Sutherland-Stacey, Weather Radar New Zealand	Solids & Colour in Roof-water Preventing its Reuse and Technologies to Remove Them Ropru Rangisivek, Lautrec Technology Group	Prioritising to Deliver Safe Waterways and Harbours, Catchpit by Catchpit Ying Yang & John Tetteroo, GHD	
3.00pm	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 Patrick Barciel, Hynds	Embedding Successful WSUD Asset Management Practices – Lessons from across the Ditch Stuart Joyce, Morphum Environmental	One NDC for Auckland – An Adaptive Management Approach Paula Vincent, Auckland Council	Public Safety at Catchpits – Lessons from Tragedy James Reddish, WSP Opus
4:00pm	The Aquacomb Response to Shrinking Permeable Surface Problem – an Innovative Solution Andrew Olsen, Construction Solution Products	Water Sensitive Design Performance over the past 10 years: A Road Map to the Future Linda Norman, ACH Consulting	Climatological Variability and Limitations of Forecasting Extreme Rainfall Statistics Nick Brown, Auckland Council	Water Quality Sampling from an Unmanned Aerial Vehicle Tom Porter, Auckland Council & Thom Gower Pattle Delamore Partners
4.30pm – 5.00pm	Stormwater Group Annual General Meeting [Millennium I]			
7.00pm – 11.00pm	Conference Dinner [St-Matthews-In-The-City]			

CONFERENCE PROGRAMME

FRIDAY 03 MAY 2019

9.00am	Keynote Address: Craig McLroy, Healthy Waters, Auckland Council [Millennium Ballroom]		
10.00am	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 Neill Raynor, Aurecon New Zealand	Operation Dashboard Alex Osti, Mott MacDonald & Andrew Skelton, Auckland Council	Wetland 1 at the Drury South Precinct - Opportunities within the Floodplain Andrew Hope Tonkin + Taylor & Benjamin Loh, Boffa Miskell
11.00am		Structural Renewal of Deteriorated Under-road John Monro, Interflow Pty	A Successful Collaborative Story of a Boating Club in Achieving an Innovative Treatment Solution Mariana Basilio, Stormwater360 & Leon Blackburn, Auckland Council
11.30am	Contaminants within urban waterways sediment and the implications for flood protection projects Gareth Oddy, ENGEO	Assessment and Acceptance of New Stormwater Pipelines Husham Issa Al-Saleem, Civil Consultant	Grahams Creek - Flood Mitigation when Engineering and Environment Combine Ghassan Basheer, Waikato Regional Council
12.00pm	Lunch [Exhibition Area]		
	Site Visits		
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]