

Conference Programme

Stormwater 2018

23–25 May 2018, Millennium & Copthorne, Queenstown

Wednesday 23 May 2018

9.00am	Welcome and Conference Opening [Millennium: Galaxy I & Galaxy II] Alexa Forbes, Chair of the Infrastructure Committee, Queenstown Lakes District Council Keynote Address: Operations and Maintenance of Green and Grey Infrastructure James Lenhart, PE, D.WRE, Contech Engineered Solutions, USA			
10.30am	Morning Tea [Millennium: Exhibition Area]			
11.50am	ROAD CROSSING			
	WAI ORA [Millennium: Galaxy I]	DESIGN CONSTRUCTION PERFORMANCE [Millennium: Galaxy II]	FUTURE READY [Copthorne: Conference Room I]	GOVERNANCE & PLANNING [Copthorne: Conference Room III]
11.00am	How to Map your Watershed Plans Daniel Nutsford, Abley	Evolving Water Quality Management in The Rotokauri Catchment, Hamilton Caleb Clarke, Morphum Environmental	Integrated Catchment Management Planning for the Next Generation Zeb Worth, CKL Surveys	Affordability of Stormwater and Flood Risk Management Schemes for Local Government Sarah Dudson, WSP Opus
11.30am	ROAD CROSSING			
11.40am	Tools For Water Quality Prediction And NPS-FM Implementation In Urban Settings Dr Jenni Gadd, NIWA	Street-Scale Bioretention – Practical Lessons Learnt from Applications in Christchurch Peter Christensen, CTN Consulting	Christchurch Multi-Hazard Analysis Approach Tom Parsons, Innovate Consulting	Walking the ‘Road Map’ of Global Stormwater Management for Urban Catchments Grant Russell, Stantec NZ
12:10pm	ROAD CROSSING			
12.20pm	Flooded with Opportunities – Turning Flood Management Mitigation Schemes into Community Assets Amber Murphy, Beca & Karissa Hyde, Octa Associates	Stormwater Management Devices for the Auckland Region – Success in Our Sites Dr Gretel Silyn-Roberts, Auckland Council	The Realities of Adaptive Flood Risk Management Dr David Cobby, Jacobs NZ	Infrastructure Renewal – Maximising Public Benefit Through Collaboration and Engagement Jenny Vince, Beca & Caroline Crosby, Auckland Council
12.50pm	Lunch [Millennium: Exhibition Area]			
	CATCHMENT AND ASSET MANAGEMENT PLANNING [Millennium: Galaxy I]	DESIGN CONSTRUCTION PERFORMANCE [Millennium: Galaxy II]	STORMWATER QUALITY MANAGEMENT [Copthorne: Conference Room I]	GOVERNANCE & PLANNING [Copthorne: Conference Room III]
1.50pm	Stormwater Management for Regeneration of the Three Kings Quarry Roger Seyb, Beca	Performance of New Stormwater System at Fonterra Tirau Dr Malcolm Peacey, Fonterra	Tauranga Comprehensive Stormwater Consent Monitoring – The First Five Years Kieran Miller, Boffa Miskell & Radleigh Cairns, Tauranga City Council	Auckland Stormwater Bylaw Implementation Claire Cunningham, Auckland Council
2.20pm	ROAD CROSSING			
2.30pm	Planning to Reduce Flood Risk – Takanini North Lisa Dowson, Auckland Council	RNZAF Base Auckland – A Strategic Approach to Stormwater Management Rob Van der Munchhof, Tonkin & Taylor & Lisa Williams, NZ Defence Force	OIEWG Petroleum Industry Guidelines – An Update Martin Robertson, Z Energy	Developing National Good Management Practices for Urban Stormwater Sarah Boone & Jo Burton, Ministry for the Environment
3.00pm	Afternoon Tea [Millennium: Exhibition Area]			
	CATCHMENT AND ASSET MANAGEMENT PLANNING [Millennium: Galaxy I]	DESIGN CONSTRUCTION PERFORMANCE [Millennium: Galaxy II]	FUTURE READY [Copthorne: Conference Room I]	STORMWATER QUALITY MANAGEMENT [Copthorne: Conference Room III]
3.30pm	ROAD CROSSING			
3.40pm	Setting Limits for E.Coli – the Urban Allocation Stuart Easton, Jacobs	Auckland Unitary Plan SMAF Rules: A Stormwater Engineer’s Experience Hannah Law & Jonathan Chambers, Harrison Grierson	A Resilience Based Assessment Method for Primary Stormwater Management Systems Urban Flood Control Nariman Valizadeh, University of Auckland	Safeswim – A Sea Change in Assessing Beach Water Quality Risk Dr Martin Neale, Puhoi Stour
4.10pm	ROAD CROSSING			
4.20pm	Confronting the Residual Effects of Development on Stormwater Andrea Phillips, Hamilton City Council	Bio-Filtration Raingarden, from Design to Built Tony Wang, CKL Surveys	Emergent Challenges Adapting Coastal Stormwater and Drainage Systems Dr Rob Bell, NIWA	How Auckland Council Are Using Stormwater Interventions to Meet Environmental Requirements Tom Porter, Auckland Council
4.50pm	ROAD CROSSING			
5.00pm	Catchment Planning – What Level of Detail is Appropriate When Modelling Future Development Scenarios Robert Kelly, Aurecon	Using Biophilic Design to Integrate Water Sensitive Design With Land Development Brendan Oversby, Calibre Group	Climate Change and Impact on Stormwater Systems – Can We Change Our Future? Liam Foster, WSP Opus	LDCP Framework for Setting Load Limits in Urban Catchments Dr Kalyan Chakravarthy, DHI Water & Environment
5.30pm	Abergeldie Harker Welcome Function [Millennium: Exhibition Area]			

Thursday 24 May 2018

9:00am	Innovation Showcase [Millennium: Galaxy I & Galaxy II]			
10.00am	Morning Tea [Millennium: Exhibition Area]			
	CATCHMENT AND ASSET MANAGEMENT PLANNING [Millennium: Galaxy I]	DESIGN CONSTRUCTION PERFORMANCE [Millennium: Galaxy II]	DESIGN CONSTRUCTION PERFORMANCE [Cophorne: Conference Room I]	WAI ORA [Cophorne: Conference Room III]
10.30am	Acid Sulphate Soils: Identification and Management in NZ's Largest Airport Hayden Easton, Pattle Delamore Partners	Calibration of Runoff - Routing Models for the Port Hills Catchments Mark Passier, AECOM NZ & Sally Williams, AECOM Australia	Unique Soakage Design for the Three Kings Quarry Gerald Strayton, Pattle Delamore Partners	Improving Bathing Water Quality: Auckland Case Studies Tom Porter, Auckland Council
11.00am				
11.05am	The Benefits of Continuous Simulation Stormwater Quality Modelling in Christchurch Gareth Bailey, Aurecon	Application of Artificial Neural Network Model to Forecast Runoff for Waikato River Catchment Dr Babar Mahmood, Unitec Institute of Technology	Soakage in Accordance With E1/VM1: That's Just a Start Iain Smith & Sian France, Beca	Safeswim, Wai Ora and the NPSFM Nick Brown, Auckland Council
11.35am				
11.40am	Avon River Modelling Bears Fruit Tom Parsons, Innovate Consulting & Tim Preston, GHD	Continuous Simulation Modelling to Support Healthy Waterways Dr Jahangir Islam, AECOM & Josh Irvine, WSP Opus	Fish Passage Design for Ecological Connectivity to a Stormwater Facility Marcia Ho, Aurecon	The New Zealand Fish Passage Guidelines 2018: Rising To The Challenge Of Reconnecting our Waterways Dr Eleanor Gee, NIWA
12.10pm	Lunch [Millennium: Exhibition Area]			
	WAI ORA [Millennium: Galaxy I]	FUTURE READY [Millennium: Galaxy II]	GOVERNANCE & PLANNING [Cophorne: Conference Room I]	FUTURE READY [Cophorne: Conference Room III]
1.10pm	Culturally Enhanced Stormwater Management - Intergration With Te Ao Māori Troy Brockbank, Stormwater360	Rising Expectations - Sea Level Rise Effects on the Stormwater System at Auckland International Airport Edwin Nixon, Pattle Delamore Partners	The Devil is in the Detail: is the Planning Process Enabling Stream Loss? Josh Markham, Tonkin & Taylor	Pluvial Flood Risk at Auckland Coastal Settlements Richard Smedley, Auckland Council
1.40pm	ROAD CROSSING			
1.45pm	Engagement for NPS-FM Implementation Using Watershed Plans Claire Cunningham, Auckland Council	Improving Operational Use of Scanning Rain Radar Estimates with Vertically Pointing Radar Ken Williams, Auckland Council	Collaborative Solutions to Urban Stormwater Management Mark Newton, Cawthron Institute	Judgement and Decision Making Under Stress - Making the Right Choice, a Stormwater Industry Perspective Britta Jensen, WSP Opus
2.15pm	ROAD CROSSING			
2.20pm	Development of a Freshwater Management Tool to Support Integrated Watershed Planning for Auckland Waterways Caleb Clarke, Morphum Environmental	Lake Rotorua - Wai Ora Mo A Maatau Mokopuna Keith Frenz, Beca & Andy Bruere, Bay of Plenty Regional Council	An Applied Stormwater Education Programme Mike Hannah, Stormwater360	You want WSUD With That? Identifying and breaking barriers to uptake Jonathan Moores, NIWA
2.50pm	Afternoon Tea [Millennium: Exhibition Area]			
	TRAINING AND EDUCATION FORUM [Millennium: Galaxy I]	DESIGN CONSTRUCTION PERFORMANCE [Millennium: Galaxy II]	STORMWATER QUALITY MANAGEMENT [Cophorne: Conference Room I]	DESIGN CONSTRUCTION PERFORMANCE [Cophorne: Conference Room III]
3.20pm	A chance to interact with organisations involved in stormwater education and training, including a facilitated open discussion on future training needs.	Soft Solutions For Hard Engineering Problems Linda Norman, Ach Consulting	Copper and Zinc Concentrations from an Artificial Turf Field Ed Clayton, Pattle Delamore Partners	Where are we as a Water Sensitive City? A Case Study on a Sustainable Development Dr Katherine Heays & Dr Tim Fisher, Tonkin & Taylor
3.50pm			ROAD CROSSING	
3.55pm		Better Understanding Of The Intent of AS/NZS 3725:2007 - Case Study Dene Cook, Humes	Diesel Exhaust Fluid - Innovative Stormwater Treatment Trials for High Ammoniacal Nitrogen Concentrations Dr John Cheah, Stormwater360	Rain Garden Maintenance Costs in an Industrial Development Jeremy Rees, Davis Ogilvie & Partners
4.35pm	Stormwater Group Annual General Meeting [Millennium: Galaxy 1]			
7.00pm	CKL Pre-Dinner Drinks & Conference Dinner [Buses from Millennium]			

Friday 25 May 2018

9.30am-1.30pm	Site Visits [Meet Buses at Millennium]	
	Site Visit 1 Jack's Point Site Visit	Site Visit 2 Kirimoko Site Visit