

CONFERENCE PROGRAMME

WEDNESDAY 03 MAY 2017

9.30am	Welcome and Conference Opening: [PRINCES BALLROOM C] <i>Penny Hulse, Chair of the Environmental and Community Committee, Auckland Council</i> <i>Mike Hannah, Managing Director, Stormwater360</i> Keynote Address: Hector Cyre, Water Resource Associates, USA			
10.30am	MORNING TEA [EXHIBITION AREA]			
	FLOOD MODELLING AND FUTURE READY [PRINCES BALLROOM C] SESSION CHAIR: DEAN WATTS	INNOVATION AND TECHNOLOGY [PRINCES BALLROOM B] SESSION CHAIR: BRONWYN RHYND	AS-BUILT, OPERATIONS AND MAINTENANCE [PRINCES BALLROOM A] SESSION CHAIR: GRAHAM ROBERTSON	INNOVATION AND TECHNOLOGY [GALLERY 3] SESSION CHAIR: MICHAEL HANNAH
11.00am	Protecting Brisbane Central District – Case Study in Future Flood Readiness <i>Kerry Olsson & James Logan</i>	A Trillion Data Points, One Source of Truth <i>Ken Williams & Tom Joseph</i>	Is There Any Benefit for Enhanced Stormwater Treatment from Non-Forecourt Discharges? <i>Hayden Easton & Martin Robertson</i>	Artificial Turf Sports Fields and the Water Environment – Public Perception, Evidence and the Unknown <i>James Reddish & Marke Jennings-Temple</i>
11.30am	HEC-RAS 2D – An Accessible and Capable Modelling Tool <i>Carey Lintott</i>	Data, Data Everywhere – Life After Data Collection <i>Jules Scott-Hansen & Peter Christensen</i>	Upgrade of Portobello Road Stormwater Screen <i>Tim Matheson</i>	Collaboration Driven Innovation for Deep Concrete Culvert Design and Installation – An Example of Safety in Design <i>Amanda Siquera, Warren Bird & Husham Issa</i>
12.00pm	Applying Agile Process Management to Flood Hazard Modelling <i>Lisa Dowson</i>	Stormwater Pond Surveying: Why Probe When You Can Ping <i>Jennifer Leslie & Hayden Easton</i>	Automating As-built Processing – It's About Time! <i>Scott Ferguson</i>	Simplifying Stormwater on a Complex Site <i>Stephanie Thompson</i>
12.30pm	LUNCH [EXHIBITION AREA]			
1.30pm	Keynote Address: Jamie Ewert, CRC for Water Sensitive Cities. Sponsored by Morphum Environmental [PRINCES BALLROOM C]			



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WEDNESDAY 03 MAY 2017 CONTINUED

	HYDROLOGICAL AND HYDRAULIC ASSESSMENT [PRINCES BALLROOM C] SESSION CHAIR: PETER CHRISTENSEN	WATER SENSITIVE DESIGN AND ASSET MANAGEMENT PLANNING [PRINCES BALLROOM B] SESSION CHAIR: JAMES REDDISH	OPERATIONAL MANAGEMENT [PRINCES BALLROOM A] SESSION CHAIR: HAMISH JONES	STORMWATER MANAGEMENT AND FLOOD MAPPING [GALLERY 3] SESSION CHAIR: ANDY IRWIN
2.30pm	CFD Modelling to Inform Pumpstation Design <i>Mike Summerhays & Wageed Kamish</i>	A Large Multi-Functional Bioretention Device <i>Stephen Priestley</i>	Are We Fully Prepared to Ensure the Long Term Performance of WSD-Related Stormwater Facilities? <i>Dr Frank Tian</i>	Towards Uniformity in Flood Mapping <i>Mike Law</i>
3.00pm	Hayward Interchange – Innovative Drainage Design to Overcome Site Challenges <i>Michael Paine & Costas Chrissyafis</i>	Are Quality Control/ Assurance Procedures Needed for Bioretention Treatment Devices? <i>Dr John Cheah</i>	Stormwater Infrastructure Decision-Making: On the Hurdles of Going Green <i>Arash Farjood</i>	The Cook Islands Approach to Stormwater Management: Where ‘Other’ Priorities Merge <i>Roanna Salunga & Paul Maoate</i>
3.30pm	AFTERNOON TEA [EXHIBITION AREA]			
	CATCHMENT AND ASSET MANAGEMENT PLANNING [PRINCES BALLROOM C] SESSION CHAIR: GRAHAM LEVY	CONDITION ASSESSMENTS [PRINCES BALLROOM B] SESSION CHAIR: STEVE APELDOORN & PAUL UTTING	INDUSTRIAL AND RISK MANAGEMENT [PRINCES BALLROOM A] SESSION CHAIR: FRANCES CHARTERS	AUCKLAND UNITARY PLAN [GALLERY 3] SESSION CHAIR: JANE JONES
4.00pm	When Grey Meets Green – A Hybrid Treatment Story <i>Troy Brockbank & Kevin Jonathan</i>	Discussion Forum – Condition Assessment and the Update of the NZ Pipe Inspection Manual <i>Steve Apeldoorn & Paul Utting</i>	Management of Stormwater on Large Scale Industrial Sites <i>Nick Simpson</i>	Auckland Council's Healthy Waters team will lead a panel discussion on the new stormwater approach through the Unitary Plan (Operative in Part) and implementation of this within the industry from a regulatory perspective
4.30pm	Supporting Tauranga City Council's Integrated Stormwater Project <i>Carl Johnson</i>		Managing Industrial Stormwater – Fonterra's Approach <i>Mike Roberts & Emily MacDonald</i>	
5.00pm	The Hamilton City Stormwater Master Plan, Big Data for Smart City Planning <i>Damian Young</i>		Innovative Treatment System Trial on Industrial Site <i>Dr Sean Finnigan</i>	
5.30pm	WELCOME FUNCTION SPONSORED BY ABERGELDIE HARKER [EXHIBITION AREA]			



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THURSDAY 04 MAY 2017

9.15am	Keynote Address: <i>Jack Mullaly, Ideanthro</i> [PRINCES BALLROOM C]			
10.00am	MORNING TEA [EXHIBITION AREA]			
	WATER QUALITY [PRINCES BALLROOM C] SESSION CHAIR: TROY BROCKBANK	COMMUNITY ENGAGEMENT AND CULTURAL VALUES [PRINCES BALLROOM B] SESSION CHAIR: NICK SIMPSON	INNOVATION AND FUTURE READY [PRINCES BALLROOM A] SESSION CHAIR: SARAH SUTHERLAND	FUTURE READY [GALLERY 3] SESSION CHAIR: ZEB WORTH
10.30am	Assessing Algal Growth Using a 2-Dimensional Hydrodynamic and Water Quality Model <i>Wageed Kamish</i>	Assessing Indicators of Cultural Well-Being in an Urban Stormwater Decision Support System <i>Jonathan Moores</i>	Impact of Megatrends on Stormwater Management <i>Pulith Kapugama & Suman Khareedi</i>	Pandora's Box? Or the Neighbourhoods of Tomorrow <i>Nick Aiken & Surya Pandey</i>
11.00am	Determining Stormwater Treatment Requirements for a Greenfields Development in the Catchment of a Hypertrophic Lake <i>Jim Cooke</i>	Community Engagement and Environmental Education as a Means of Achieving Stormwater Comprehensive Consent Compliance <i>Radleigh Cairns & Marcel de Leur</i>	Improving Understanding of Rain Gauge Uncertainty Using Scanning and Vertically Pointing Radar <i>Luke Sutherland-Stacey</i>	Climate Change Effects on Aquatic Ecology and the Future for Stormwater Management <i>Paul Battersby & Emily Jones</i>
11.30am	Nutrients and Bacterial Loads in Urban Stormwater <i>Patricia Melero Marin</i>	Building Resilience into a Rigid Flood Management System: Lessons from the Riverlink Project <i>Angie Campbell & Alistair Allan</i>	Climate Change Risk Assessments – What NZ Can Learn! <i>Liam Foster</i>	Connecting Communities to Water <i>Linda Norman & Benny Larsen</i>
12.00pm	LUNCH [EXHIBITION AREA]			
	CASE STUDIES [PRINCES BALLROOM C] SESSION CHAIR: JOHN PALMER	INNOVATION AND RESILIENCE [PRINCES BALLROOM B] SESSION CHAIR: FRANK TIAN	NATIONAL POLICY STATEMENT IN FRESHWATER MANAGEMENT [PRINCES BALLROOM A] SESSION CHAIR: SUE-ELLEN FENELON	
1.00pm	Dudley Creek Flood Remediation from a Project Manager's Perspective <i>Martin Smith</i>	Innovative Stormwater Treatment Asset Conversion at Auckland Motorways <i>Troy Brockbank</i>	Let's Do the NPS Dance – Integrating the New Stormwater Requirements <i>Ian McComb</i>	
1.30pm	Project Twin Streams – Twelve Years of Community Riparian Planting and Stream Health Reporting <i>Brett Stansfield</i>	Kauri Flats School – Resilient Stormwater Design in a Challenging Environment <i>Aidan Cooper</i>	Catchment-Scale Stormwater Quality Improvement Strategies: What to Do? Where? And How Much Will It Cost? <i>Dustin Bambic</i>	
2.00pm	Building in a Bathtub – Where to Next in Kilbernie? <i>Tim Strang</i>	Discharge Lift Height Upgrade of a Large Archimedes Screw Pump Station <i>Matthew Sheppard</i>	Resolving the Jagged Problem of Offsetting: A Tool for Freshwater Management? <i>Chad Croft</i>	
2.30pm	AFTERNOON TEA [EXHIBITION AREA]			

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THURSDAY 04 MAY 2017 CONTINUED

	TREATMENT DESIGN [PRINCES BALLROOM C] SESSION CHAIR: WARREN BIRD	FUTURE READY [PRINCES BALLROOM B] SESSION CHAIR: GRAHAM ROBERTSON	ENVIRONMENTAL IMPACT ASSESSMENTS [PRINCES BALLROOM A] SESSION CHAIR: FRANCES CHARTERS
3.00pm	Stormwater Treatment Design and Simulation for Transmission Gully Project <i>Jahangir Islam</i>	Optimising the Media of Next Generation Low Impact Designs for Phytoremediation and Bioremediation <i>Suman Khareedi & Dr Lokesh Padhye</i>	Minimising the Environmental Effects of Dredging – Wharemauku Stream <i>Kyle Christensen</i>
3.30pm	Taking The Pain Out of The Treatment Train: Continuous Simulation Modelling for Integrated Water Management <i>Reuben Ferguson & Stu Farrant</i>	Creating a New Generation of Stormwater Practitioners <i>Annise Raea</i>	Erosion Control Treatment Trials on Loess Soils <i>Hannah Goslin</i>
4.00pm	Permeability of Raingardens – Field Measurements and Observations in Auckland <i>Ruben Roelofs</i>		Hydrology of Urban Development: What Measures, What Outcomes? <i>Cameron Oliver & Graham Levy</i>
4.45pm	STORMWATER GROUP ANNUAL GENERAL MEETING [GALLERY 3]		
7.00pm	CONFERENCE DINNER [MARITIME ROOM PRINCES WHARF]		



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FRIDAY 05 MAY 2017

9.15am	Keynote Address: <i>Hugh Logan, Land and Water Forum</i> [PRINCES BALLROOM C]		
10.00am	MORNING TEA [EXHIBITION AREA]		
	STREAM HEALTH, CONTAMINANTS AND CONTAMINANT LOADING [PRINCES BALLROOM C] SESSION CHAIR: PHIL JAGGARD	HYDROLOGICAL AND HYDRAULIC ASSESSMENT [PRINCES BALLROOM B] SESSION CHAIR: KEN WILLIAMS	RISK MANAGEMENT AND FUTURE READY [PRINCES BALLROOM A] SESSION CHAIR: PETER CHRISTENSEN
10.30am	Experimental Investigation of the Effect of Temperature on Flow Pattern of a Sediment Retention Pond <i>Ehsan Hendi</i>	Rainfall Reporting: Past, Present, Future? <i>Kris Fordham</i>	Using Criticality to Manage Stormwater Assets <i>Paul Utting</i>
11.00am	Inline Pond Treatment Performance and Longitudinal Instream Monitoring in a Stormwater-Affected Urban Waterway <i>Frances Charters</i>	TP108 – Where to from Here? <i>Graham Levy</i>	Do You Want Your Pipes Cleaned? The Value of ‘Real World Modelling’ <i>Mark Groves</i>
11.30am	Not All Faecal Pollution is Equal; Identifying the Source is Key to Effective Management <i>Justine Quinn</i>	A Hybrid Stormwater Management System for a Residential Development – An Experience <i>Dr Babar Mahmood & Shane Sai</i>	Adaptive Consenting and its Application to Stream Works <i>Adrian Percival & Therese Malcon</i>
12.00pm	LIGHT LUNCH [EXHIBITION AREA]		

SITE VISITS

1.00pm – 5.00pm	SITE VISIT 1 – TAKANINI Large infrastructure project to unlock urban land, Residential development implementing WSD.	SITE VISIT 2 – WHENUAPAI AND WESTGATE SHA development implementing SMAF AUP OiP provisions, Kopupaka Reserve Stormwater Ponds (winner of 2016 landscape of the year at World Architecture festival) integration of community amenities with engineering and ecology for stormwater management.	SITE VISIT 3 – WAIATARUA AND AIRPORT Treatment and flood management from a large urban catchment. Designed for resilience, operation and maintenance in real-time experience. ‘The Cloak’ – green roofed building within a commercial setting.	SITE VISIT 4 – TE AUAUNGA AWA RESTORATION (OAKELY CREEK) Large scale stream rehabilitation and transformation of Walmsley and Underwood Reserves to reduce stormwater flooding and restore the natural ecology of the stream.
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