# **CONFERENCE PROGRAM**

# STORMWATER 2021 NATIONAL CONFERENCE

NEW FRONTIERS FOR STORMWATER: INTO THE NEXT DECADE

#### www.stormwater2021.com.au

13-16 APRIL 2021





NEW FRONTIERS FOR STORMWATER: INTO THE NEXT DECADE 13-16 APRIL 2021

www.stormwater2021.com.au



#### Pre-Conference Program: Monday 12 April 2021

8:45 am	Delegate Networking and Workshop Access		
	Online Via OnAIR	Online Via OnAIR	Online Via OnAIR
9:00 am	Full Day Workshop Stormwater NSW Guidelines for Maintenance of Stormwater Treatment Measures Workshop Presenter: Murray Powell, Optimal Stormwater	Half Day Morning Workshop Developing Stormwater User Fee and Incentive Programs Workshop Presenter: Dr Victoria Kramkowski, Toronto and Region Conservation Authorrahity	Half Day Morning Workshop Urban Stormwater Design Workshop Presenters: Sophia Buchanan, Senior Storm & Flood Engineer, Innovyze Steve Hughes, Senior Engineer, Storm Water Consulting Jack Hu, Senior Engineer, Storm Water Consulting
10:30 am		15 Minute Coffee Break	
10:45 am	Stormwater NSW Guidelines for Maintenance of Stormwater Treatment Measures Workshop continued	Developing Stormwater User Fee and Incentive Programs Workshop concludes at lunch	Urban Stormwater Design Workshop concludes at lunch
12:30 pm		30 Minute Lunch Break	
12:45 pm	Full Day Workshop continued		
2:15 pm		15 Minute Coffee Break	
2:30 pm	Full Day Workshop Continued		
4:00 pm		Conclusion of Workshops	



NEW FRONTIERS FOR STORMWATER: INTO THE NEXT DECADE 13-16 APRIL 2021



www.stormwater2021.com.au

#### **Conference Program: Tuesday 13 April 2021**

8:15 am	Delegate Registration – Virtual Networking	
9:00 am	Welcome to STORMWATER 2021 and Acknowledgement of Country Sarah Watkins, Stormwater Victoria and Conference Emcee	
9:10 am	Conference Opening Lord Mayor Sally Capp, The City of Melbourne	
9:25 am	Conference Opening Address Alan Hoban, National President, Stormwater Australia	
9:40 am	Keynote Presentation: 'Leaky Buckets': Perils, Pitfalls and Pathways of Water Planning in the Murray-Darling Basin Prof Quentin Grafton, UNESCO Chair, Water Economics and Transboundary Water Governance	Keynote Speaker sponsored by Melbourne Water <sup>®</sup>
10:25 am	Sponsor Address SPEL Stormwater	
10:30 am	Morning Tea, Trade Exhibition and Supplier Marketplace Pitches	

10:45 am	Move to Next Concurrent Session							
10.50 em	Allotment Scale Design & Practice         AR&R2019 Uptake         Co-Design & Place Making		gn & Place Making	Cor	nmunity, Society & Leadership			
10:50 am	Session Chair: Jacqueline Woodlo	ock Session Chair: Sara	h Watkins	Session C	Chair: Jamie Tainton	Se	ession Chair: Nausheen Obaid	
10:50 am	Creating Cooler, Greener, Leafier Streets for Melbourne's West Thou Large Scale Implementation of Pass Street Tree Irrigation <u>Marshall Kelaher</u> , Melton City Coun Dr Harry Virahsawmy, Alluvium Consulting, Dr Chris Szota, Universit Melbourne, Voltaire David, Holly Dillabough, Matthew Hutchinson, Melton City Council	gh Rainfalls sive Janice Green, Catherine Meteorology cil,	Using and Abusing the New Design Rainfalls Janice Green, Catherine Jolly, Bureau of		From Drains to Creeks: Three Styles of Natural Channel Design       M         Alan Hoban, Bligh Tanner       D         Alan Hoban and Bligh Tanner       D         Alan Hoban and Bligh Tanner       D         Alan Hoban and Bligh Tanner       D         Alan And Bligh Tanner       D		Aeasuring the Transition Progress of Councils Embedding Integrated Water Anagement as Mainstream Practice. Or Sara Lloyd, E2Design, <u>Rachelle</u> Adamowicz, Bronwen Hutchinson, Alicah Pendergast, Melbourne Water, Or Briony Rogers, CRC for Water ensitive Cities/School of Social Sciences t Monash University, Ross Allen, Ross Allen Consulting	
11:10 am	Move to Next Concurrent Session					1		
11:15 am	Community Engagement	AR&R2019 Uptake	Co-Design &	Place Making	International Trends in Management	Water	Community, Society & Leadership	
	Session Chair: Jacqueline Woodlock	Session Chair: Jamie Tainton	Session Chair:	Jamie Tainton	Session Chair: Sarah Wa	atkins	Session Chair: Nausheen Obaid	
11:15 am	Erosion and Sediment Control and Urban Stormwater Capacity Building Project for the Great Barrier Reef and South East Queensland Observations and Outcomes <u>Adrian Crocetti,</u> Healthy Land and Water	Adopting Next Best Practice. A Melbourne Case Study in the Application of ARR2019 in Council Managed Catchments <u>Andrew Allan</u> , Afflux	Sustainable Dr Element in Urb Stephen Borov Harrison, Golde	ac, <u>Andrew</u>	Emerging Guidelines in E - What Can We Learn? Dr Lars Herngren, H&H Consulting Engineer	-	An Australian IWM Transect - Observations on IWM Practices <u>Bertrand Salmi</u> , Water Technology, <u>Rianda Mills</u> , Rain Consulting	
11:35 am	Move to Next Concurrent Session				<u> </u>		<u> </u>	

11:40 am	Community Engagement	AR&R2019 Uptake and Big Data	Co-Design & Place Making	Systems Thinking
	Session Chair: Jacqueline Woodlock	Session Chair: Sarah Watkins	Session Chair: Jamie Tainton	Session Chair: Nausheen Obaid
11:40 am	Checking In – Is WSD for Single Dwellings Achieving Outcomes? April McKay, Midcoast Council	The Impact of Reduced IFD Totals – A Case Study on The Lara Flood Study Lachlan Inglis, Water Technology, <u>Fei</u> Thim Yong, City of Greater Geelong, Johanna Theliemann, Water Technology	'No Worsening' is Not a Thing. Tony Loveday, RMA Engineers	The Value of Legacy and FutureStormwater and Demand ManagementOptions for Sydney and MelbourneProf Peter Coombes, Southern CrossUniversity
12:00 pm	Move to Next Concurrent Session			
12:05 pm	Community Engagement	AR&R2019 Uptake & Big Data	Co-Design & Place Making	Systems Thinking
	Session Chair: Jacqueline Woodlock	Session Chair: Petra Katona	Session Chair: Jamie Tainton	Session Chair: Nausheen Obaid
12:05 pm	Community Led Integrated Water Management, The How, What, Lessons Learnt and What's Next <u>Michael Yule</u> , Spiire	East Gippsland Livestock Exchange, Bairnsdale City Oval and Magees Gully Integrated Water Management Study <u>Dr Gayani Chandrasena</u> , Simon Hof, Water Technology, Megan Dennett, East Gippsland Shire Council	Embedding Successful WSUD Asset Management Practices Jamie Comley Environmental Consulting, <u>Stuart Joyce</u> , Dean Watts, Morphum Environmental	Our Stormwater Treatment Systems are the Product of Our Policies. Did We Get It Right or Wrong and Where to From Here? Mark Liebman, Sustainability Workshop
12:25 pm	Lunch, Trade Exhibition and Supplier Ma	rketplace Pitches		
12:55 pm	Community Engagement	Modelling and Design	Co-Design & Place Making	Systems Thinking
	Session Chair: Rachelle Adamowicz	Session Chair: Ruby Ardren	Session Chair: Jamie Tainton	Session Chair: Nausheen Obaid
12:55 pm	Regional Stormwater Service Planning <u>Matt Mulqueeney</u> City of Greater Geelong	Jigsawing - The Often Forgotten Final Piece to the ARR2019 Puzzle <u>Peter Woodman</u> , Gavin Hay, Greg Eaton, Rushiru Kanakaratne, Mick Turnley, Mardi Medwell-Squier, GHD	Communities Working Together to Build Resilience in Their Place <u>Rachael Naspelzes</u> , Healthy Land and Water	Muddy Waters. Managing Dispersive Soils in the Melbourne Growth Corridors Declan McDonald, Regen Soils
1:15 pm	Move to Next Concurrent Session	1	l	

1:20 pm	Community Engagement	Modelling and Design	Systems Thinking
	Session Chair: Rachelle Adamowicz	Session Chair: Ruby Ardren	Session Chair: Nausheen Obaid
1:20pm	Do the Numbers Stack Up? The Role of the Stormwater Sector in Supporting Cool and Thriving Communities <u>Celeste Morgan</u> , E2designlab	Early Flood Modelling Considerations for Railway Duplication and Level Crossing Removals <u>Alice Lisitsa</u> , Roozbeh Hasanzadeh Nafari, ARUP	Let's Clean Up Our Act - How to Design A Successful ESC Compliance Program Adrian Crocetti, Glenn Browning, Karen Toms, Sarah Choudhury, Healthy Land and Water
1:40 pm	Wrap Up and Close of Day 1		



NEW FRONTIERS FOR STORMWATER: INTO THE NEXT DECADE 13-16 APRIL 2021



www.stormwater2021.com.au

#### **Conference Program: Wednesday 14 April 2021**

8:30 am	Delegate Registration and Virtual Networking
9:00 am	Welcome, Housekeeping and Acknowledgement of Country Jocelyn Ellero, Stormwater NSW and Conference Emcee
9:05 am	Keynote Presentation: Water management for urban sustainability – Integrated Systems Analyses framework for liveable cities Prof Ana Mijic, Imperial College London, UK
9:50 am	SQIDEP Forum - Towards a Laboratory Validation Protocol for SQID's         Presented By: Ben Modra, Andrew Swindells and Alan Hoban         Session Overview:         -       Governance         -       Technical Review timeline and outcome/s         -       Industry voice/concerns
10:40 am	Morning Tea, Trade Exhibition and Supplier Marketplace Pitches

10:55 am	Move to Next Concurrent Session			
11:00 am	Community, Society & Leadership	Modelling & Design	Co-Design & Place Making	Technology in Practice
	Session Chair: Beth Salt	Session Chair: Nerida Taylor	Session Chair: Murray Powell	Session Chair: Darren Drapper
11:00 am	Industry Health Card – A Biased Opinion Valerie Mag, Stormy Water Solutions,	Industry Tools Developed by the CRC for Water Sensitive Cities Malcolm Eadie, CRCWSC	Stormwater Harvesting Vs SewerMining - Review of DecentralisedWater Reuse TechnologyPhil Li, Optimal Stormwater	How Hazardous are Your Bioretention Basins? Nausheen Obaid, Aidan Stephens, City of Casey
11:20 pm	Move to Next Concurrent Session			
11:25 am	Economics & Community Engagement	Modelling & Design Case Studies	Co-Design & Planning Case Studies	Technology in Practice
	Session Chair: Beth Salt	Session Chair: Nerida Taylor	Session Chair: Murray Powell	Session Chair: Darren Drapper
11:25 am	Plastic Pollution Mitigation and Classification Before Environmental Release from Established Stormwater Drainage Systems <u>Blair Jedras</u> , Darren Drapper, Drapper Environmental Consultants	Flood Modelling for a Retrofit Urban Transport Project - A Case Study from the Level Crossing Removal Project Zaki Matar, WSP, Brett Disley, Natasha Webb, Beca	The Growing Grass Frog Masterplan in Action <u>Ross Carnegie,</u> Spiire, <u>James Walsh</u> , DELWP	Experience with Pervious Paving <u>Dr Tim Johnson</u> , University of South Australia, City of Mitcham, <u>Russell King</u> Sproutt
11:55 am	Move to Next Concurrent Session		•	
12:00 pm	Flooding Management Session Chair: Beth Salt	Modelling & Design Case Studies Session Chair: Nerida Taylor	IWM & CP Policy Session Chair: Murray Powell	Technology in Practice Session Chair: Darren Drapper
12:00 pm	Designation of Shallow Flood Depths - Why is it Important Stephen D'Agata, Golder Associates	The Real Benefits of Creating a Digital Twin for Storm Water Management Decision Making <u>Mardi Medwell-Squier</u> , GHD, <u>Mark</u> Thompson, Lachlan Johnson, City of	WSUD Reset - Moving Beyond 85/65/45 <u>Alexa McAuley</u> , David Knights, Civille, Dr Peter Davies, Macquarie University, Nerida Taylor, Sydney Water,	Treatment and Cure of a Terminally II GPT Suffering from Severe Backwater Guy Amos, Optimal Stormwater, Yasas de Silva, Woollahra Municipal Council

12:40 pm	Move to Next Concurrent Session					
12 4E pm	Flooding Management	Planning &	& Adapting for the Future	IWM & CP Poli	су	Technology in Practice
12.45 pm	Session Chair: Beth Salt	Sessio	n Chair: Nerida Taylor	Session Chair: Murra	y Powell	Session Chair: Darren Drapper
12:45 pm	Designing WSUD soils for the Melbourne Metro Rail Tunnel project Declan McDonald, Regen Soils	Delivering Co Progressive Design Appr <u>Alan Hoban</u> , Tanner, Erin Sydney Wate Architectus, Phillip Graus	ogies for Western Sydney: ool Green Suburbs Through Water Sensitive Urban oaches Himanthi Mendis, Blight Saunders, Phil Birtles, er, Jane Freeman, Peter Gillam, AECOM, Greater Sydney , Simeon King, ASPECT	A Blueprint for Improving Quality Policy <u>Glenn Browning</u> , Healthy L Water		Permeable Pavements as an Innovative, Sustainable, Storm Water Management System. <u>Keanu Andrews</u> , Concrete Masonry Association of Australia
1:05 pm	Move to Next Concurrent Session			<u> </u>		
	Research		IWM &	CP Policy		Urban Density vs Liveability
1:10 pm	Session Chair: Beth Salt		Session Chair:	Murray Powell		Session Chair: Darren Drapper
1:10 pm	Size Matters – Why Policy and Planning for Stormwater Treatment Must Consider Property Title and SizeRuby Ardren, Northern Beaches Council, Macquarie University, <u>A/A/ Prof Peter Davies</u> , Macquarie University		Big Guesses for Little Flow Design Flow Determination <u>Michael Mag</u> , Stormy Wate	1		s - <b>A New Benchmark for WSUD</b> <u>ts,</u> Mr Andrew McMillan, Civille
1:30 pm	Wrap Up and Close of Day 2					
6:00 pm – 7:30 pm	Presentation of the National Aw1700ard	s for Excellenc	ie			



NEW FRONTIERS FOR STORMWATER: INTO THE NEXT DECADE 13-16 APRIL 2021

www.stormwater2021.com.au

## Conference Program: Thursday 15 April 2021

8:30 am	Delegate Registration and Virtual Networking						
9:00 am		Welcome, Housekeeping and Acknowledgement of Country Rick Dennis, Stormwater Queensland and Conference Emcee					
9:05 am		International perspective on developing and validating pathogen performance targets for urban stormwater systems Prof Nick Ashbolt, Southern Cross University					
9:50 am	Move to Next Concurrent Session						
9:55 am	Flooding Management	IWM & CP Case Studies	IWM & CP Policy	Maintenance & Ops			
	Session Chair: Stephen D'Agata	Session Chair: Jamie Tainton	Session Chair: Bill Johnson	Session Chair: Michael Mag			
9.55 am	Yarra Flood Levels- Testing Assumptions About Flow Frequency Andrew Allan, Afflux	Implementation and Application of Meaningful Planning Controls to Support Effective Water and Catchment Management in the Ku- ring-gai Local Government Area, NSW Sophia Findlay, Penny Hemsworth, Russell Cadman, Ku-ring-gai Council	Municipal Infrastructure Standards and Specifications for WSUD Infrastructure in the ACTDr Brett Phillips, Cardno, Darwin Zeta, ACT Government	A Year of Maintaining Inner City Streetscape WSUD Assets <u>Ralf Pfleiderer</u> , <u>Rob Catchlove</u> , Wave Maintenance Australia <u>, Jane Spence</u> , City of Stonnington			
10:15 am	Move to Next Concurrent Session		1				

STORMWATER AUSTRALIA

10:20 am	Flooding Management	IWM & CP Case Studies	IWM & CP Policy	Maintenance & Ops
	Session Chair: Stephen D'Agata	Session Chair: Jamie Tainton	Session Chair: Bill Johnson	Session Chair: Michael Mag
10:20 am	Al Flash Flood Alert System <u>Timothy Kallady</u> , Piccard Al, <u>Paul</u> <u>Rasmussen</u> , Melbourne Water	Grid Size and Roughness Sensitivity Analysis of Rainfall on Grid Approach for Urban Flood Modelling <u>Charles Lee</u> , Water Technology, University of Melbourne	Rethinking Water Quality Policy toImprove Catchment-Wide TreatmentEfficiency: Replacing PercentageReduction Based Targets with PollutantLoad LimitsStephanie Noble, Jack Grinsell, Northrop	57 Reasons Why Local Governments Struggle to Maintain their Stormwater Control Measures Dr Andrew Thomas, Blacktown City Council Prof Tim Fletcher, Dr Darren Bos, Dr Stephanie Lavau, The University of Melbourne, Dr Peter Morison, VicWater
10:40 am	Morning Tea, Trade Exhibition and Supp	lier Marketplace Pitches		
10:55 am	Move to Next Concurrent Session			
11.00 am	IWM & CP Case Studies	IWM & CP Policy	Resilience and Climate Change	Modelling & Design Case Studies
11:00 am	Session Chair: Stephen D'Agata	Session Chair: Jamie Tainton	Session Chair: Bill Johnson	Session Chair: Michael Mag
11:00 am	Cooling, Greening, Watering - The Infrastructure Trend Sweeping the Nation Stephanie Brown, E2DesignLab	Zero Impact Development. The Journey Towards Protecting Wild Rivers in South West Sydney <u>Rob Catchlove</u> , Ralf Pfleiderer, Wave Consulting Australia, Ibrahim Muharrem, Wollondilly Shire Council, Prof Stuart Khan, UNSW	Natural Systems Approach – for Green Infrastructure Dr Judy van Gelderen, Ki Studio	Rainwater Harvesting. Important Developments in Integrated Urban Water Cycle Management <u>Michael Smit</u> , Kingspan Water and Energy, <u>Prof Peter Coombes</u> , Southern Cross University
11:35 am	Move to Next Concurrent Session		1	1

11:40 am	IWM & CP Case Studies	IWM & CP Policy	Sewage, Water and Stormwater	Modelling & Design Case Studies
	Session Chair: Stephen D'Agata	Session Chair: Jamie Tainton	Session Chair: Bill Johnson	Session Chair: Michael Mag
11:40 am	Smart Detention Tank Storage - The Cost Effective Solution to Catchment Scale Flooding	Policy to Implementation – Providing Guidance to Improve Stormwater Strategies	An Integrated Water, Biodiversity, Heat, Wind and Urban Forest Approach for Fishermans Bend	Planes, Trains and Automalls – A Dutch Innovation for Climate Change in Brisbane
	<u>Russell King</u> , Sproutt, Aaron Wood, City of Unley, Rujie Liang, Mark Thyer, Holger Maier, University of Adelaide	April McKay, <u>Prue Tucker</u> , Midcoast Council, Mark Wainwright, Alluvium Consulting	<u>Dr Casey Furlong,</u> GHD, Todd Berry, Fishermans Bend Taskforce, <u>Anissa</u> <u>Webb</u> , GHD, Holly Kirk, Centre for Urban Research, RMIT University, David Howard, GHD, Tony Wong, CRC for Water Sensitive Cities	<u>David Cox</u> , Ian Varley, SMEC
12:00 pm	Move to Next Concurrent Session			
12:05 pm	IWM & CP Case Studies	IWM & CP Policy	Sewage, Water and Stormwater	Modelling & Design Case Studies
	Session Chair: Stephen D'Agata	Session Chair: TBC	Session Chair: Bill Johnson	Session Chair: Michael Mag
12:05 pm	Session Chair: Stephen D'Agata Subcatchment Planning to Improve Ecological Sustainability in the Inner West Sarah Kamarudin, Lana Frost, Urban Ecology	Session Chair: TBC Development Planning the Right Way Around: Casey Green Wedge Western Port Integrated Water Management Strategy <u>Glenn Ottrey</u> , Engeny Water Management, <u>Daniel Fokkens</u> , City of Casey	Session Chair: Bill Johnson Guidelines for MUSIC Modelling - The next evolution Dr Dale Browne, E2designLab	Session Chair: Michael Mag Sustainable Solution for Designing Stormwater Channels <u>Amir Shahkolahi</u> , Global Synthetics, Drew Loizeaux, Propex GeoSolutions
12:05 pm 12:25 pm	Subcatchment Planning to Improve Ecological Sustainability in the Inner West Sarah Kamarudin, Lana Frost, Urban	Development Planning the Right Way Around: Casey Green Wedge Western Port Integrated Water Management Strategy Glenn Ottrey, Engeny Water Management, Daniel Fokkens, City of Casey	Guidelines for MUSIC Modelling - The next evolution	Sustainable Solution for Designing Stormwater Channels <u>Amir Shahkolahi</u> , Global Synthetics,
	Subcatchment Planning to Improve Ecological Sustainability in the Inner West Sarah Kamarudin, Lana Frost, Urban Ecology	Development Planning the Right Way Around: Casey Green Wedge Western Port Integrated Water Management Strategy Glenn Ottrey, Engeny Water Management, Daniel Fokkens, City of Casey	Guidelines for MUSIC Modelling - The next evolution	Sustainable Solution for Designing Stormwater Channels <u>Amir Shahkolahi</u> , Global Synthetics,
12:25 pm	Subcatchment Planning to Improve Ecological Sustainability in the Inner West Sarah Kamarudin, Lana Frost, Urban Ecology	Development Planning the Right Way Around: Casey Green Wedge Western Port Integrated Water Management Strategy Glenn Ottrey, Engeny Water Management, Daniel Fokkens, City of Casey	Guidelines for MUSIC Modelling - The next evolution	Sustainable Solution for Designing Stormwater Channels <u>Amir Shahkolahi</u> , Global Synthetics,

1:00 pm	Improving Future Urban Stormwater Management Through Use of Planning Support Tools Peter Ryan, Georges Riverkeeper, <u>Veljko</u> <u>Prodanovic,</u> UNSW	How Many People Does it take to Plan A Waterway? <u>Kim Markwell</u> , Sally Boer, E2Designlab	Tools for Blue Green Streetscapes – Opportunities Map and Design Standards <u>Penny Ball</u> , Dr Cintia Dotto, City of Melbourne	Emerging Passive Irrigation Tool for Kerb Side Trees: TREENET Inlets <u>Harsha Sapdhare</u> , David Lawry, Space Down Under, Dr Timothy Johnson, City of Mitcham
1:20 pm	Move to Next Concurrent Session			
1:25 pm	Planning & Adapting for the Future	Stormwater Offsets	Stormwater & Road infrastructure	Urban Streams & Indigenous Insights
	Session Chair: Stephen D'Agata	Session Chair: Ruby Ardren	Session Chair: Bill Johnson	Session Chair: Rachelle Adamowicz
1:25 pm	Creating a Bird Airport –A New Stormwater Wetland Ecosystem for Migratory Shorebirds Under Threat from Habitat Loss David Knights, Civille	Can my Stormwater Project Help Save the Planet <u>Martin O'Dea</u> , Clouston Associates	Infiltration Rates of Recycled Tyre- Based Permeable Asphalt Pavements and Future Maintenance Ramin Raeesi, Amin Soltani, <u>Dr Mahdi</u> <u>Disfani</u> , The University of Melbourne, School of Engineering, Russell King, Sproutt	Small-Scale Interventions and Indigenous Water Knowledge – Moving Storm Water into the Next Decade <u>Kate Harriden</u> , Australian National University
1:45 pm	Wrap Up and Close of Day 3	1	1	1



NEW FRONTIERS FOR STORMWATER: INTO THE NEXT DECADE 13-16 APRIL 2021



www.stormwater2021.com.au

#### **Conference Program: Friday 16 April 2021**

8:30 am	Delegate Registration and Virtual Networking								
8:55 am	Welcome, Housekeeping and Acknowledgement of Country         Stormwater South Australia Representative and Conference Emcee								
9:00 am	Keynote Presentation: Paying for Rain: The Evolution Dr Brian Alexander Chalfant, Pennsylvania Department	Keynote Speaker sponsored by							
9:45 am	Keynote Presentation: 2020 Vision for Stormwater Fina Prof Warren Campbell, Western Kentucky University	Keynote Speaker sponsored by spelstormwater							
10:30 am	Morning Tea, Trade Exhibition and Supplier Marketplace Pitches								
10:45 am	Modelling & Design Case Studies	Technology in Practice	Co-Design & Planning Case Studies						
	Session Chair: Nerida Taylor	Session Chair: Alice Lisitsa	Session Chair: Nausheen Obaid						
10:45 am	Next Generation Urban Surface Water Modelling Capabilities Chris Huxley, Tuflow (BMT)	Time for Real-Time Asset Monitoring <u>Jarrod Gaut</u> , water_insites, <u>Natalie Barron</u> , City of Greater Geelong	Can I Swim Here? An activation Framework to Bring Back Swimming to Parramatta River David Knights, Civille						

11,10 am	Modelling & Design Case Studies         Session Chair: Nerida Taylor         Wollert Waterways Realignment – Overcoming the         Challenge of Enhancing Habitats and Environmental         Sustainability While Optimising Commercial Needs         Emilie Wilson, Golder		Technologies Case StudiesSession Chair: Alice LisitsaEvent Simulation: Treatment Efficiency Evaluation of a Constructed Floating Wetland in an Urban Residential Precinct Saline CanalJane-Louise Lampard, University of Sunshine Coast, Dr Darren Drapper, Drapper Environmental Consultants, Andy Hornbuckle, SPEL Stormwater, Phil Tyrer, Jonathan Baxter, Hamish Pressland, Pelican Waters Developments, Travis Hivon, Georgia Kelly, Halls Contracting, Kevin Covey, Charles Cook, Covey Associates, Assoc Prof Neil Tindale, University of The		Technology in PracticeSession Chair: Celine MarchenayCombined Circular and Slot Outlet (CS Outlet) for Reducing the Volume of Flow Detention Measures Including Underground Detention Tanks, Rainwater Tanks and Detention PondsParham Ghasemzadeh, Ardill Payne And Partners	
11:10 am						
11:10 am						
11:30 am	Move to Next Concurrent Session	1	Sunshine Coast			
11:35 am	Maintenance & Operations	Technologies Case Studies		Rain/Stormwater Harvesting		IWM & CP Case Studies
1115 2011	Session Chair: Nerida Taylor	Session Chair: Alice Lisitsa		Session Chair: TBC		Session Chair: Nausheen Obaid
11:35 am	H2Oak – From Flood to Foliage, Smart Water Design at Mitcham <u>Russell King</u> , Sproutt, Dr Tim Johnson, City of Mitcham	New K and C* Values Verified from Mesocosm Testing of Floating Wetlands in South East Queensland Rachael Biggins, <u>Darren Drapper</u> , Drapper Environmental Consultants		Tapping the Urban Catchment – 10Years on Enabling Urban ExpansionWithout Requiring Extra WaterPeter Wilson, Jackie Bowe, WannonWater		The Journey Towards a Water Sensitive City Maria Mccrann, City of Greater Bendigo
11:55 am	Move to Next Concurrent Session					
12:00 pm	Maintenance & Operations	Technologies Case Studies		Rain/Stormwater Harvesting		Stormwater Quality Management
	Session Chair: Nerida Taylor	Session Chair: Alice Lisitsa		Session Chair: TBC		Session Chair: Nausheen Obaid

12:00 pm	Flood Management in Mexico City – Vicente Guerrero StormWater Pumping Station <u>Mariaelena Rodriguez Hernandez,</u> Indar	Perform? Alan Hoban, (	etention Systems Really Carlos Gambirazio, ndis, Bligh Tanner	Review of Stormwater Harv Schemes in the City of Mell <u>Cintia Dotto</u> , Penny Ball, Mo Kharouf, <i>City of Melbourne</i>	ourne	Stormwater Pollution: Problems, Challenges and Opportunities in Industrial Catchments Dr Claudette Kellar, Dr Ana Miranda, Dr Kathryn Hassell, A3P, RMIT University, Alison Rickard, Birgit Jordan, Heath Baker, Michael Godfrey, Trish Grant, Dr Rhys Coleman, Prof. Vincent Pettigrove, Melbourne Water		
12:20 pm	Move to Next Concurrent Session							
12:25 pm	Maintenance & Operations	Maintenance & Operations		Economics and Community Engagement		Rain/Stormwater Harvesting		
	Session Chair: Nerida Taylor		Session Chair: Alice Lisitsa		Session Chair: Nausheen Obaid			
12:25 pm	Storm Water Harvesting at Melbourne & Olympic Parks Precinct. Seven Years of Operation. What has Been Achieved and Lessons Learnt <u>Iouri Vaisman</u> , <i>IVWater</i>		Exclusion Bar Ramifications for All Councils, Based on the Wollongong Tragedy Coroners Report <u>Murray Powell</u> , Optimal Stormwater, <u>Prof Peter</u> <u>Coombes</u> , Southern Cross University		Delivering High Value Urban Tree and Green Space Services: Stormwater Scheme Design Advice Framework <u>Geoff Connellan</u> , G&M Connnellan Consultants			
12:45 pm	Move to Closing Session							
12:50 pm	Closing Remarks							
	Alan Hoban, National President, Stormwat	er Australia						
1:00 pm	Thank You, Exhibitor Passport Prize Draw, Conclusion of Stormwater 2021 Conference MC							
1:15 pm	Conclusion of Stormwater 2021							