

Pre Conference Workshop Program: Monday, 19th October
Dockside Function Centre, Cockle Bay

8.00 am	Delegate Registration
9.00 am	Fundamentals of Erosion and Sediment Control During Construction <i>Andrew Macleod, SEEC and Michael Frankcombe, Seymour White</i>
9.00 am	The Arithmetic of Erosion Control <i>Mike Harding, Geosyntec, USA</i>
9.00 am	Urban Waterways – Excellence in Understanding Processes and Rehabilitation Design <i>Dr Dominic Blackburn and Ross Hardie, Alluvium</i>
10.30 am	Morning Tea
11.00 am	Pre Conference Workshops Continue
12.30 pm	Lunch
1.30 pm	Pre Conference Workshops Continue
2.30 pm	Fundamentals of Erosion and Sediment Control During Construction Workshop concludes
3.00 pm	Afternoon Tea
4.30 pm	The Arithmetic of Erosion Control and Urban Waterways Workshops conclude
6.00 pm – 9.00 pm	IECA Networking Dinner and Harbour Cruise Departure Point: Convention Centre Wharf, Darling Harbour. Delegates to arrive at the wharf by no later than 5.45 pm to ensure an on-time departure.

Pre Conference Workshop Program: Monday, 19th October
Aerial Function Centre, University of Technology Sydney

8.00 am	Delegate Registration
9.00 am	<p>New Edition of Australian Rainfall and Runoff Workshop</p> <p><i>Presenters:</i></p> <ul style="list-style-type: none"> • <i>Mark Babister, WMA Water</i> • <i>Associate Professor James Ball, UTS</i> • <i>Dr Peter Coombes, Urban Water Cycle Solutions</i> • <i>Professor Ashish Sharma, University of NSW</i> • <i>Dr Brett C Phillips, Cardno (NSW/ACT)</i> • <i>Rhys Thomson, Cardno (NSW/ACT)</i> • <i>Janice Green, Bureau of Meteorology</i>
10.30 am	Morning Tea
11.00 am	Pre Conference Workshop Continues
12.30 pm	Lunch
1.30 pm	Pre Conference Workshop Continues
3.00 pm	Afternoon Tea
5.00 pm	Workshop Concludes
6.00 pm – 9.00 pm	<p>IECA Networking Dinner and Harbour Cruise</p> <p>Departure Point: Convention Centre Wharf, Darling Harbour. Delegates to arrive at the wharf by no later than 5.45 pm to ensure an on-time departure.</p>

Conference Program: Tuesday, 20th October

8.00 am	Delegate Registration			
8.45 am	Welcome and Housekeeping			
8.55 am	Conference Opening Richard McManus, Stormwater NSW; Andrew Macleod, IECA Australasia; Dr Marlene van der Steeren, Engineers Australia			
9.15 am	Diamond Conference Sponsor Welcome PGG Wrightson			
9.20 am	Keynote Presentation: Creating Resilient Airports – A Case Study of Amsterdam’s Schiphol Airport Nanco Dolman, Royal HaskoningDHV, The Netherlands			
10.00 am	Keynote Presentation John Wright, T.R.E.E.S. Pty Ltd			
10.40 am	Morning Tea			
	Darling 1 and 2	Quay 1 and 2	Terrace Room	Gold Room
Theme	Integrated Water Management into Urban and Rural Planning and Design	Integrated Water Cycle Management	Targeting Erosion and Sediment Control During Construction	Effective governance and regulation at all levels of government
11.10 am	Taurarua Judges Bay: Stormwater Management and Low Impact Design <i>Bronwyn Rhynd, Stormwater Solutions Consulting Ltd, Auckland, New Zealand</i>	WSUD Practise in Israel <i>Dr Yaron Zinger, Dr Ana Deletic, Christelle Schang, Monash University, Melbourne, Australia</i>	50 Shades of Blue Book: Erosion and Sediment Control Compliance <i>Andrew Macleod, Alyssa Burnus SEEC, Bowral, NSW, Australia</i>	On-site Versus Off-site - The Business Case for Stormwater Treatment in Infill Areas in Blacktown <i>Mark Liebman^{1,2}, John Molteno¹, Natalie Payne¹ ¹Blacktown City Council, NSW, Australia, ²Sustainability Workshop, NSW, Australia</i>
	5 minutes to change rooms			

11.40 am	Design and Delivery of Waterway and Flood Protection Outcomes in the Growth Areas of Melbourne - Providing Multi-function Assets for Our New Communities When Paddocks Become Suburbs <u>Dennis Corbett</u> <i>Melbourne Water, Melbourne, Victoria, Australia</i>	Integrated Water Management: Assessing the needs of the Victorian Water Industry <u>Katia Bratieres</u> <i>Clearwater, Melbourne, Australia</i>	Using Relevant Parameters to Design <u>Dr Rob Loch</u> <i>Landloch, Queensland, Australia</i>	Stormwater Quality Offsets, an Alternative Pathway to H2olistic Integration? <u>Emma O’Neill</u> ¹ , Paul Dubowski ² ¹ <i>Ipswich City Council, Ipswich, QLD, Australia</i> , ² <i>BMT WBM Pty Ltd, Brisbane, QLD, Australia</i>
5 minutes to change rooms				
12.10 pm	Assessing Riparian Vegetation and Creek Channel Condition in a Rapidly Changing Urban Space: A Case Study from Blacktown LGA <u>Michael Dean</u> ¹ , <u>Carl Tippler</u> ² ¹ <i>Blacktown City Council, Blacktown, NSW, Australia</i> , ² <i>CTEnvironmental, Sydney, NSW, Australia</i>	Lessons Learnt from Designing and Constructing a \$4million Stormwater Harvesting Scheme <u>Craig Bush</u> ¹ , Mark Liebman ^{1,2} ¹ <i>Blacktown City Council, NSW, Australia</i> , ² <i>Sustainability Workshop, NSW, Australia</i>	It's More Than One <u>Bill Gardyne</u> and Dennis Baker <i>Oxbow Consulting, Brisbane, Australia</i> , ² <i>ESSA, Brisbane, Australia</i>	Transitioning Drainage into Urban Water Cycle Management <u>Dr Peter Coombes</u> <i>Urban Water Cycle Solutions, NSW, Australia</i>
12.35 pm	Lunch			
	Darling 1 and 2	Quay 1 and 2	Terrace Room	Gold Room
	Integrating Water Management into Urban and Rural Planning and Design	Modelling Techniques, Advances, Challenges and Integration	Water Cycle Management and Water Quality During Construction and Onto Operation	Community Expectations and Influences
1.30 pm	LIFE ON MARS - Designing and Implementing Micro-topographic Relief Systems and Patterns of Biological Accumulation to Replace the Dendritic Drainage Patterns Associated with Conventional Land and Water Management <u>Peter Stevens</u> , Tim Roberts, Steven Lucas, <i>University of Newcastle, Newcastle, Australia</i>	Characterisation of Stormwater Pollutant Concentrations from various catchment types in South-east Queensland <u>Dr Darren Drapper</u> ¹ , Dr Terry Lucke ² ¹ <i>Drapper Environmental Consultants, QLD, Australia</i> , ² <i>University of the Sunshine Coast, QLD, Australia</i>	Outcomes from ARR that will Benefit the Urban Water Sector <u>Mark Babister</u> , James Ball, Monique Retallick, <i>WMAwater, Sydney, Australia</i>	Liveability and an Urban Creek: Perspectives and Dreams of Residents Who Are Not Yet <u>Phillip Birtles</u> ¹ , Alan Hoban ² , Carl Tippler ³ , Ben Shoo ⁴ ¹ <i>Sydney Water, Sydney, NSW, Australia</i> , ² <i>Bligh Tanner, Brisbane, QLD, Australia</i> , ³ <i>CT Environmental, Sydney, NSW, Australia</i> , ⁴ <i>One Collective, Kyneton, Victoria, Australia</i>

	5 minutes to change rooms			
2.00 pm	Evolution of Raingarden Design at the City of Sydney <u>Paul Tatham</u> <i>City of Sydney, NSW, Australia</i>	Climatic Variabilities of Potential Rainwater Savings: A Case Study for Adelaide Monzur Imteaz, <u>Upendra Paudel</u> , Shirley Gato-Trinidad <i>Swinburne University of Technology, Melbourne, Victoria, Australia</i>	Holistic Water Quality Analysis - Bringing Together ESC and WSUD <u>Alan Hoban</u> <i>Bligh Tanner, Brisbane, Queensland, Australia</i>	Water Sensitive Project: Educating a Community: The Importance of Stormwater Management and Low Impact Design <u>Kellie Whisker</u> , Bronwyn Rhynd <i>IPENZ, Auckland, New Zealand</i>
	5 minutes to change rooms			
2.30 pm	Getting our Ducks in a Row: Taking it from the Top of the Duck River <u>Rebecca Bell</u> ¹ , David Knights ² ¹ <i>Bankstown Council, NSW, Australia,</i> ² <i>Alluvium, NSW, Australia</i>	Sedimentation Pond Detailed Deposition using Delft3D <u>Daniel Niven</u> <i>Cardno, Brisbane, Australia</i>	Concrete or Plants? Sediment and Erosion Control using WSUD Principles <u>Diana Kureen</u> <i>Central Tablelands Local Land Services, Dubbo, Australia</i>	Community Trust in Construction – Increasing Social Capital within the Warrandyte Sewer Backlog Project <u>Anna Kosova</u> <i>Yarra Valley Water, Melbourne, Victoria, Australia</i>
	5 minutes to change rooms			
3.00 pm	Afternoon tea			
	Darling 1 and 2	Quay 1 and 2	Terrace Room	Gold Room
	Operation and maintenance – cost, success stories, challenges and retro-fits	Integrated water management into urban and rural planning and design	Water cycle management and water quality during construction and onto operation	Erosion and Sediment Control
3.30 pm	Investigating the Performance of WSUD Assets in Relation to Design, Construction and Maintenance Practices <u>Maria Victoria Matamala</u> <i>RMIT University, Melbourne, Victoria, Australia</i>	Systematic Stormwater Literature Review of the Sydney Region <u>Beth Sargent</u> <i>WaterNSW, Penrith, NSW, Australia</i>	Field Evaluation of Hydrology and Pollution Removal Performance of Established Bioretention Cells Receiving Street Drainage <u>Dr Terry Lucke</u> , Peter Nichols <i>Stormwater Research Group, University of the Sunshine Coast, Sippy Downs, Queensland, Australia</i>	Certified Professional in Erosion and Sediment Control (CPESC) Forum

	5 minutes to change rooms			
4.00 pm	What Should It Cost To Maintain Stormwater Treatment Systems? A Case Study From ACT <u>Alexa McAuley</u> , David Knights <i>Alluvium Consulting, Sydney, Australia</i>	Exploring the Water-Energy-Food Nexus: Setting a Vision For Urban And Rural Planning In Australia Dr Peter Breen, Celeste Morgan <i>E2Designlab, Melbourne, VIC, Australia</i>	Treating Greenfield Development Runoff in the Construction and Operational Phases using Floating Wetland Treatment Systems <u>Christopher Walker</u> ^{1,2} , Dr Terry Lucke ² , Damion MacDonald ¹ ¹ <i>Covey Associates Pty Ltd, Maroochydore, Queensland, Australia,</i> ² <i>Stormwater Research Group, University of the Sunshine Coast, Sippy Downs, Queensland, Australia</i>	Certified Professional in Erosion and Sediment Control (CPESC) Forum (continued)
	5 minutes to change rooms			
4.30 pm	Assessing the Performance of Stormwater Treatment Systems in the ACT <u>Alexa McAuley</u> ¹ , David Knights ¹ , David Barratt ² , Michael Ross ³ ¹ <i>Alluvium Consulting, Sydney, Australia,</i> ² <i>Alluvium Consulting, Canberra, Australia,</i> ³ <i>ACT Government, Canberra, Australia</i>	Sydney Park Stormwater Harvesting and Reuse Project - A New Benchmark for WSUD <u>David Knights</u> ¹ , Mike Horne ² , Adam Hunter ³ , Mia Dalby-Ball ⁴ , Jenny Turpin ⁵ ¹ <i>Alluvium Consulting, Sydney, Australia,</i> ² <i>Turf Design, Sydney, Australia,</i> ³ <i>Environmental Partnership, Sydney, Australia,</i> ⁴ <i>Dragonfly Environmental, Sydney, Australia,</i> ⁵ <i>Turpin and Crawford, Sydney, Australia</i>	Assessing the Potential Cost Saving Benefits of Floating Wetland Treatment Systems <u>Damion MacDonald</u> ¹ , Christopher Walker ^{1,2} , Terry Lucke ² ¹ <i>Covey Associates Pty Ltd, Maroochydore, Queensland, Australia,</i> ² <i>University of the Sunshine Coast, School of Science and Engineering, Sippy Downs, Queensland, Australia</i>	
4.55 pm	Conference Close Day 1			
5.00 pm – 7.00 pm	Conference Welcome Reception at Dockside			

Conference Program: Wednesday, 21st October

8.00 am	Delegate Registration			
9.00 am	Welcome and Housekeeping			
9.15 am	Welcome from Conference Gold Sponsor Ecosol			
9.20 am	Keynote Presentation Michael Harding – Geosyntec			
10.00 am	Morning Tea			
	Darling 1 and 2	Quay 1 and 2	Terrace Room	Gold Room
	Integrated Water Cycle Management	Stormwater Quality Improvement Devices	Operation and Maintenance – Costs, Success Stories, Challenges and Retrofits	Erosion and Sediment Control
10.30 am	A Total Water Cycle Management Strategy for an isolated 120 Lot Subdivision <u>Dr Peter Bacon</u> <i>Woodlots and Wetlands Pty Ltd, Cherrybrook, Australia</i>	SQID Protocol Discussion Forum	Stormwater Reuse to Mitigate Impacts from Increased Runoff Frequency and Volume <u>Emma James</u> , Dr Peter Breen, Dr Sara Lloyd, <i>E2Designlab, Lane Cove, Australia</i>	RMS Discussion Forum
	5 minutes to change rooms		5 minutes to change rooms	
11.00 am	Incorporating Stormwater Improvements into the Milestone Redevelopment of Manly CBD <u>Garry Neville</u> , Andrew Morris, Richard Andrew, <i>Cardno (NSW/ACT) Pty Ltd, NSW, Australia</i>		Treating Greenfield Development Runoff in the Construction and Operational Phases using Floating Wetland Treatment Systems <u>Damion MacDonald</u> ¹ , Christopher Walker ^{1,2} , Dr Terry Lucke ² ¹ <i>Covey Associates Pty Ltd, Maroochydore, QLD, Australia,</i> ² <i>University of the Sunshine Coast, Sippy Downs, QLD, Australia</i>	

	5 minutes to change rooms		5 minutes to change rooms	5 minutes to change rooms
11.30 am	<p>Retrofitting the Suburbs - Applying Whole of Water Cycle Management (WWCM) Strategy into an Apartment Development in Inner Melbourne to Improve Climate Resilience</p> <p><u>Ian Adams</u> Organica Engineering, Victoria, Australia</p>	<p>SQID Protocol Discussion Forum Continued</p>	<p>Parsley Bay Catchment Stormwater Harvesting Projects</p> <p>Rod Ward¹, Jeff Hill¹, Chris Munroe¹, Emma Hawkins¹, <u>Hugh Williamson</u>², Lars Hengren², Renni Pitkanen³, Rex Sullings⁴, Rohan Last⁵</p> <p>¹Woollahra Municipal Council, Double Bay, NSW, Australia, ²Henry & Hymas Consulting Engineers, Chatswood, NSW, Australia, ³Neverstop Water Harvesting, Cromer, NSW, Australia, ⁴Aqueduct Consulting, Toukley, NSW, Australia, ⁵Environment & Natural Resource Solutions, Shoalhaven, NSW, Australia</p>	<p>Blue Book and White Book Discussion Forum</p>
	5 minutes to change rooms		5 minutes to change rooms	
12.00 noon	<p>Stormwater Design and Management in Coastal Environments - Managing and Promoting Groundwater Dependent Ecosystems.</p> <p><u>Mark Bayley</u>, Damian McCann AWC, Byron Bay, Australia</p>		<p>To be Confirmed</p>	
12.30 pm	Lunch			

	Darling 1 and 2	Quay 1 and 2	Terrace Room	Gold Room
	Integrating Water Management into Urban and Rural Planning and Design	Advances and Technologies for Effective Water Quality Management	Targeting Erosion and Sediment Control During Construction	Effective Governance and Regulation at all Levels of Government
1.30 pm	<p>The Biggest and Best Filter – Ecosystem Services from Soil</p> <p><u>Declan McDonald</u> SESL Australia, Victoria, Australia</p>	<p>Improving Stormwater Treatment Using Recycled Materials in Filtration Media</p> <p><u>Eric Love</u>¹, Steven Lucas², Charles Lee^{3,1}, ¹Centre for Organic Research & Education, Sydney, Australia, ²University of Newcastle, Newcastle, Australia, ³University of Newcastle, Singapore, Singapore</p>	<p>High Efficiency Sediment Basins Could Reduce Stormwater Quality Treatment Infrastructure Costs By \$5.4 Billion In South East Queensland Over The Next 30 Years</p> <p><u>Steve Dudgeon</u> O2 Environment + Engineering, Brisbane QLD, Australia</p>	<p>Enabling Waterway Health and Liveability in Sydney</p> <p><u>Dan Cunningham</u>, Fernando Ortega Sydney Water, Sydney, NSW, Australia</p>
	5 minutes to change rooms			
2.00 pm	<p>The Use of Vetiver Grass for Hedgerows and Erosion Control in the State of Oaxaca, México</p> <p><u>Julie Etra</u> Western Botanical Services Inc, Reno, NV, USA</p>	<p>Development of a Rapid Biofiltration Media Using Local Materials</p> <p><u>Michael Hannah</u>¹, Robyn Simcock², Jing Siong Cheah¹, Shanyn Curry¹ ¹Stormwater360, Auckland, New Zealand, ²Landcare Research, Auckland, New Zealand</p>	<p>Developing and Implementing Full Support Systems for Demolition and Rebuild Sites to Effectively Manage Erosion and Sediment on Worksites to Support the Christchurch Earthquake Recovery Programme</p> <p><u>Paul Gofton</u>^{1,2}, Robert Coulson^{1,2} ¹RST Environmental Solutions, Christchurch, New Zealand, ²IECA, Australasia, New Zealand</p>	<p>Working With Councils To Achieve Best Practice Stormwater Management</p> <p><u>Kristy Good</u>¹, Shireen Baguley² ¹WaterNSW, NSW, Australia, ²Molino Stewart, NSW, Australia</p>
	5 minutes to change rooms			

2.30 pm	Biofiltration Soils and Landscape Function - Integrating Hydrologic Functions with Landscaping Aims <u>Simon Leake</u> <i>SESL Australia, Sydney, NSW, Australia</i>	The Effect of Vegetation Selection on Infiltration Rate in Stormwater Bioretention Systems <u>Tracey Pham</u> ¹ , Emily Pham ¹ , Tim Fletcher ² , Belinda Hatt ¹ ¹ Monash University, Clayton, Victoria, Australia, ² Melbourne University, Burnley, Victoria, Australia	The Use of Large Mulch Bunds as an Erosion and Sediment Control Tool in Lake Macquarie City Area, NSW <u>Janine Koppel</u> , Lake Macquarie City Council, Speers Point, NSW, Australia	Water Sensitive Urban Design On The Line <u>Andrew O'Neill</u> ¹ , Amalie Wright ² , Kristy Gooding ¹ , Alan Hoban ³ ¹ Healthy Waterways, Spring Hill, Qld, Australia, ² Landscapology, Spring Hill, Qld, Australia, ³ Bligh Tanner, Fortitude Valley, Qld, Australia
3.00 pm	Afternoon Tea			
	Darling 1 and 2	Quay 1 and 2	Terrace Room	Gold Room
	Integrating Water Management into Urban and Rural Planning and Design	Modelling Techniques, Advances, Challenges and Integration	Targeting Erosion and Sediment Control During Construction	Community Expectations And Influences
3.30 pm	The Influence of Urbanisation on Invertebrate Biodiversity in Stormwater Wetlands <u>Teresa Jane Mackintosh</u> ¹ , Jenny Davis ² , Ross Thompson ² ¹ Monash University, Melbourne, VIC, Australia, ² University of Canberra, Canberra, ACT, Australia	Resolving Boundary Conditions in Economic Analysis of Distributed Solutions for Water and Stormwater Management <u>Dr Peter Coombes</u> ¹ , Michael Smit ² , Garth McDonald ³ ¹ Urban Water Cycle Solutions, NSW, Australia, ² Rainwater Harvesting Association of Australia, Qld, Australia, ³ RH Group, Qld, Australia	The Five Fundamentals for Successful Restoration of Disturbed Lands <u>Marc Theisen</u> Profile Products LLC, Signal Mountain, Tennessee, USA	Retrofitting Raingardens: Understanding Context and Satisfaction to Guide Streetscape Change <u>Dr Meredith Dobbie</u> Monash University, Clayton, Victoria, Australia
	5 minutes to change rooms			
4.00 pm	Creating Habitat Through WSUD <u>David Knights</u> , Andrew McMillan Alluvium Consulting, Sydney, Australia	Geocentric Decision Support Tool for Optimal Selection and Placement of WSUD Controls <u>Eland Afuang</u> Innovyze, Pty Ltd, Sydney, NSW, Australia	Combining Erosion and Sediment Controls with Rehabilitation Outcomes to Benefit the Operational Life Cycle of the Asset <u>Scott Black</u> Arrow Energy, Dalby, Australia	Raingardens vs. Car Parking: Competing Interests for Public Space in Sydney's Inner West <u>Claire Hanley</u> Marrickville Council, Sydney NSW, Australia
	5 minutes to change rooms			

4.30 pm	<p>Case study: Stormwater Management Using Natural Biofiltration Systems in Restoration of a Degraded Urban Stream: Popes Glen, Blackheath, Blue Mountains, Australia</p> <p><i>Alan Lane², Eric Mahony¹</i> ¹<i>Blue Mountains City Council, NSW, Australia,</i> ²<i>Popes Glen Bushcare Group, NSW, Australia</i></p>	To Be Confirmed	To Be Confirmed	<p>Investing in What Matters: Embedding Community Values into Decision Making</p> <p><i>Natalie Quinn, Sally Armstrong, Sue Jenkins</i> <i>Sydney Water, Sydney, NSW, Australia</i></p>
4.55 pm	Conference Close Day 2			
7.00 pm	<p>Conference Dinner incorporating the Stormwater NSW Awards for Excellence and the IECA Awards for Excellence</p> <p>After Dinner Speaker: Sir Murray Rivers (aka Bryan Dawe)</p>			

Conference Program: Thursday, 22nd October

8.00 am	Delegate Registration				
9.00 am	Welcome and Housekeeping				
9.15 am	Sponsor Welcome				
9.20 am	Keynote Presentation Stephen White, Philadelphia Water Department, USA				
10.00 am	Morning Tea				
	Darling 1 and 2	Quay 1	Quay 2	Terrace Room	Gold Room
10.30 am	Stormwater NSW Awards for Excellence Presentations	IECA Awards for Excellence Presentations	Operation and Maintenance: Costs, Success Stories, Challenges and Retrofits	Flood Management and Streamflow – Managing and Designing and Recovering Waterways	Advances and technologies for effective water quality management
10.30 am	Award Winner Presentation	Award Winner Presentation	Auditing Shows Up Mistakes Of The Past: <i>Please Don't Repeat!</i> <u>Murray Powell</u> , Simon Weaver <i>Optimal Stormwater, Chatswood, NSW, Australia</i>	Floodplain Development – Can We Get More Land for Development, Reduce Infrastructure Requirements and Help Our Creeks? <u>Ray Parsell</u> <i>Sydney Water, Sydney, NSW, Australia</i>	The Use and Verification of Micro Bio-Retention Systems in The United States <u>James Lenhart</u> ¹ , Michael Wicks ² , Mindy Hills ¹ ¹ Contech, Portland, Oregon, USA, ² Stormwater 360, Botany, NSW, Australia
	5 minutes to change rooms				

11.00 am	Award Winner Presentation	Award Winner Presentation	Private Realm WSUD - Blacktown's Pioneering Approach to an IWCM and WSUD Auditing Program <u>Russell Cadman</u> <i>Blacktown City Council, Blacktown, NSW, Australia</i>	How Robust are OSD and OSR Systems? <u>Dr Brett C Phillips</u> , Stephen Yu <i>Cardno (NSW/ACT) Pty Ltd, NSW, Australia</i>	Does Pruning Improve Stormwater Biofilter Performance? Brandon Winfrey ¹ , Andrew Mehring ² , Richard Ambrose ¹ , Lisa Levin ² , <u>Belinda Hatt</u> ³ , Perran Cook ³ ¹ <i>University of California Los Angeles, Los Angeles, CA, USA</i> , ² <i>University of California San Diego, La Jolla, CA, USA</i> , ³ <i>Monash University, Clayton, VIC, Australia</i>
5 minutes to change rooms					
11.30 am	Award Winner Presentation	AGM – IECA	SQID Function and Performance in SEQ - Lessons Learnt Over The Past Five Years <u>Mark Bayley</u> ¹ , Jesse Munro ¹ , Mitchell Cambridge ² , Damian McCann ¹ ¹ <i>AWC, Byron Bay, Australia</i> , ² <i>City of Gold Coast, Nerang, Australia</i>	Future Water Management Targets: Reducing the Quantity of Flow to Waterways <u>Dr Peter Breen</u> , Celeste Morgan <i>E2Designlab, Melbourne, VIC, Australia</i>	Passive Watering of Landscapes for Stormwater Treatment: Design and Modelling Guidelines <u>Dr Courtney Henderson</u> , Justine Kinch, Ben Newell <i>AECOM, Fortitude Valley, Australia</i>
5 minutes to change rooms					

12.00 pm	Award Winner Presentation	AGM – IECA (continued)	Physical Model Testing of Low Flow Bypass Pits for Water Sensitive Urban Roads <u>Christopher Drummond</u> ¹ , Brett Miller ¹ , Raymond Parsell ² ¹ Water Research Laboratory, UNSW Australia, Sydney, NSW, Australia, ² Sydney Water Corporation, Sydney, NSW, Australia	Mission to Mars - The Transformation of Mars Creek <u>Rod Wiese</u> Storm Consulting Pty Ltd, NSW, Australia	Advanced Permanent Erosion Control with Pyramid Structured Turf Reinforcement Mats with X3 Technology <u>Amir Shahkolahi</u> ¹ , Jason Crase ² , Raymond Chow ³ ¹ GlobalSynthetics, Brisbane, QLD, Australia, ² GlobalSynthetics, Brisbane, QLD, Australia, ³ GlobalSynthetics, Sydney, NSW, Australia
12.30 pm	Lunch				
	Darling 1 and 2	Quay 1	Quay 2	Terrace Room	Gold Room
	Integrated Water Cycle Management	Effective governance and regulation at all levels of government	Operation and Maintenance – costs, success stories, challenges and retrofits	Advances and technologies for effective water quality management	Flood management & streamflow – managing and designing and recovering waterways
1.30 pm	Regionalised Design Curves for Rainwater Harvesting: A Case Study for New South Wales, Australia <u>Dr Ataur Rahman</u> , Cameron Snook, Md Mahmudul Haque University of Western Sydney, Sydney, NSW, Australia	A Comparative Assessment of International WSUD Policy and Implementation Strategies in the Context of Different National Drivers <u>Katrie Lowe</u> , Dr Courtney Henderson, Alex Yat Fei Wu AECOM, Fortitude Valley, Australia	Sediment Sensitive Cities: An Investigation of Opportunities to Better Manage Sediment in Urban Waterways and Stormwater Control Measures <u>Dr Geoff Vietz</u> , Glaister Bonnie The University of Melbourne, Victoria, Australia	Is the Concept of WSUD Implementation Really Worth It? - Using Ecosystem Service Values to Determine the Cost Benefit of Improved Stormwater Management. <u>Tony Weber</u> ¹ , Jocelyn Delacruz ² , Brad Dalrymple ¹ , Adrian Volders ³ ¹ BMT WBM Pty Ltd, Brisbane, Qld, Australia, ² NSW Office of Environment and Heritage, Sydney, NSW, Australia, ³ A R Volders Consulting, Brisbane, Qld, Australia	Stormwater Retention 'At Source' Development Controls – A Key to Successful Urban Creek Rehabilitation <u>Ray Parsell</u> Sydney Water, Sydney, NSW, Australia

	5 minutes to change rooms				
2.00 pm	<p>The Business of Stormwater Harvesting at Blacktown International Sports Park</p> <p><u>Mark Liebman</u>^{1,2}, Craig Bush¹ ¹<i>Blacktown City Council, NSW, Australia,</i> ²<i>Sustainability Workshop, NSW, Australia</i></p>	<p>NSW State Government Interagency Collaboration</p> <p><u>Reid Butler</u>, Fernando Ortega <i>Sydney Water, Sydney, Australia</i></p>	<p>Heavy Metals in Stormwater Biofiltration Media: Will They Become a Management Issue?</p> <p><u>Mohammed Al-Ameri</u>¹, Dr Ana Deletic¹, Belinda Hatt¹, Professor Tim Fletcher², Sebastien Le Coustumer³ ¹<i>Department of Civil Engineering, Monash University for Liveability, Monash University, Melbourne, VIC, Australia,</i> ²<i>Department of Resource Management and Geography, Melbourne School of Land and Environment, The University of Melbourne, Melbourne, VIC, Australia,</i> ³<i>Fairfield City Council, Sydney, NSW, Australia</i></p>	<p>Bribie Lakes: A Case Study in using Floating Wetland Treatment Systems to Treat Urban Runoff</p> <p><u>Michael Nielsen</u>¹, Christopher Walker^{2,1}, Darren Drapper³, Terry Lucke¹ ¹<i>University of the Sunshine Coast, School of Science and Engineering, Sippy Downs, Queensland, Australia,</i> ²<i>Covey Associates Pty Ltd, Maroochydore, Queensland, Australia,</i> ³<i>SPEL Environmental, Carole Park, Queensland, Australia</i></p>	<p>Restoration of Glenbrook Lagoon from Aquatic Weeds to Rain-gardens in the Blue Mountains, Australia</p> <p><u>Geoffrey Smith</u>, Christina Day, Eric Mahony <i>Blue Mountains City Council, NSW, Australia</i></p>
	5 minutes to change rooms				
2.30 pm	<p>Centralised Potable Water Harvesting in the Suburbs of Melbourne</p> <p><u>Karina Mills</u>¹, David Hamlyn-Harris¹, Francis Pamminger² ¹<i>Bligh Tanner, Fortitude Valley, QLD, Australia,</i> ²<i>Yarra Valley Water, Melbourne, VIC, Australia</i></p>	<p>A Systems Framework of Big Data for Analysis of Policy and Strategy</p> <p><u>Dr Peter Coombes</u>¹, Michael Barry² ¹<i>Urban Water Cycle Solutions, NSW, Australia,</i> ²<i>BMT WBM, Qld, Australia</i></p>	<p>Seven Steps to Integrated Sustainable Weed Management</p> <p><u>Jeremy Winer</u> <i>Weedtechnics, Frenchs Forest NSW, Australia</i></p>		<p>Approaches for Assessing the Flood Impacts of Development during the Strategic Planning Phase</p> <p><u>Dr Brett C Phillips</u>, Sabina Lohani <i>Cardno (NSW/ACT) Pty Ltd, NSW, Australia</i></p>

3.00 pm	Afternoon Tea
3.30 pm	Conference Thanks and Prize Draw
3.40 pm	Conference Close

Technical Tour Program: Friday, 23rd October

8.00 am	Technical Tour Delegate Registration
8.30 am	<p>Technical Tour Departs by Coach. Sites to be visited include:</p> <ul style="list-style-type: none"> • Sydney Park featuring examples of stormwater diversion, harvesting and reuse, wetlands, swales bioretention systems • Victoria Park showcasing bioretention systems after 15 years of operation, plans for new stormwater treatment systems • Central Park Sydney highlighting the residential development with 10 storey green walls, wastewater treatment and reuse system, stormwater treatment systems.
10.15 am	Morning Tea
10.30 am	Technical Tour Continues
12.00 pm	Lunch
1.00 pm	Technical Tour Continues
3.30 pm	Coaches Return to Departure Location
4.30 pm	Technical Tour Concludes