Monday 30 November

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
Detailed Program

As of 27 November 2026 and subject to change

Monday, 30 November 2026

10:30-16:30	**Field Trip - Murray Mouth and Winery hosted by Hydrological Society SA (OFFSITE)** ***Separate registration is required for this Field Trip.*** ***For more information visit, https://hwrs2026.com.au/pre-symposium-field-trip/***

Venue	**The InterContinental Adelaide Hotel**
17:00-19:00	**Welcome Reception**

InterContinental Adelaide | From source to sea

Tuesday 1 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
Detailed Program

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Tuesday, 1 December 2026

Room	**Ballroom**			
08:30-09:30	**Acknowledgement of Country, Official Opening, Autodesk presentation, NCWE Welcome and awards**			
09:30-10:30	**Keynote - Dr Ellis Penning** **Implementing Nature-based Solutions for climate-resilient landscapes: linking interdisciplinary scientific system understanding and daily practice**			
10:30-11:00	**Morning Tea**			
Room	**Ballroom I**	**Ballroom II**	**Banksia room**	**Grevillea room**
11:00-12:40	**DF-1 - Design Floods**	**UW-1 - Urban Water**	**GW-1 - Groundwater**	**Flood Frequency Analysis**
Chair	**Pandora Sullivan**	**Peter Coombes**	**Alex Rogan**	**Monique Retallick**
11:00-11:20	Improving how we represent rainfall temporal variability in hydrologic models Matthew Scorah, David Stephens	Bayesian network framework for urban sewer overflow risk assessment Thi Hai Duong Ninh, Ilda Clos, Wei Zeng, Nhu Cuong Do, Nick Swain, Martin Francis Lambert	Benchmarking the 2023 TUFLOW subsurface flow solver Jarrah Muller, Jason O'Brien	Flood Frequency Analysis and launch of the new FLIKE interface 11:00-12:40
11:20-11:40	Back to basics with loss models: why we need to avoid varying loss parameters with event rarity Michelle Ho, Rory Nathan, Declan O'Shea, Conrad Wasko, Ashish Sharma	Assessing the Sensitivity of RDII Hydrologic Model Parameters in Wet Weather Wastewater Modelling for Steep and Flat Catchments Hossein Samadi, Mohan Mohanathasan	Beneath the bog: challenges in conceptualising alpine groundwater systems Deni Hourihan, Celine Anderson	
11:40-12:00	Simplifying Urban Flood Modelling Simulations: Are 10 Temporal Patterns Necessary in Small Catchments? Dayardi Dissanayaka, Glenn Ottrey	Climate-Adjusted Simulations in MUSICX for Assessing Water Sensitive Urban Design under Future Climate Conditions Mukta Sapkota, Chathura Gamage, Marcus Tessema	Evolution Process and Prevention Strategies for Confined Water Bursting During Bottom Sealing of Actively Controlled Prefabricated and Pressured Open Caissons Jianxiu Wang, Yuanwei Sun, Weifeng Wu, Weqiang Pan, Huboqiang Li, N.S. Abbasi	
12:00-12:20	Australian database of extreme storm patterns for hydrologic risk assessments Caleb Dykman, Youngil Kim, Conrad Wasko, Rory Nathan, Ashish Sharma	Digital twinning for flood resilience in data-scarce regions: A hybrid deep learning approach for urban drainage forecasting Shakeel Ahmad, Anam Ashraf, Muhammad Israr, Zhengxia Chen, Haifeng Jia	Groundwater-level reconstruction accuracy does not guarantee drought fidelity: Propagation of imputation choices into Standardised Groundwater Level Index Nadeem Tariq	
12:20-12:40	The Significant Impact of RORB Time Increment on Analysis that Causes the Monte Carlo Simulation to be Unusable David Kemp, Trevor Daniell, Guna Hewa	When Hydrology Meets Hydraulics: Estimating Surface Storage Losses in Urban Flood Modelling – a Victorian case study Adel Emadzadeh, Peter Coombes, Andrew Allan	Raiders of the lost ARBM: re-introduction of the Australian Representative Basins Model Jonathan Klaric, Ashis Dey, Benjamin Kus	
12:40-13:30	**Lunch**			

Tuesday 1 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
Detailed Program

As of 27 November 2026 and subject to change

Tuesday, 1 December 2026

Room	Ballroom I	Ballroom II	Banksia room	Grevillea room
13:30-15:30	**HY-1 - Hydraulics**	**WQ-1 - Water Quality**	**CC - Climate Change**	**ARR and ARQ workshop**
Chair	**Stefan Berger**	**Jeff Newman**	**Jarrah Muller**	**Monique Retallick**
13:30-13:50	Flood Resilience in the NT- From the top end to the red centre and big river in between Julian Orth	Hook, Light and Sinker – Increasing fish attraction in the pipe fishway using fish phototactic response to colour Emma Hu, Fletcher Arrastia, Jasmin Martino, Iain Suthers, Stefan Felder	Regional Climate Change Rainfall Intensity Scaling Factors Callan Schonrock, Conrad Wasko	NCWE update including - what is required for guideline updates 13:30-14:00 Australian Rainfall and Runoff - Update, Data hub updates (Mark Babister) Australian Runoff Quality- open discussion session on whether an update is needed 14:30-15:30 (Brett Phillips)
13:50-14:10	Flood-Resilient Bridge Design incorporating FHWA Scour Assessment Methods: Twentyfirst Street Bridge, Renmark James R. Woolley, James Farrall, Jason D. Nicolson	Investigation of a hydrogen sulphide incident in a lake with limited available information Yucen Lu, Eric Lam	Updating guidance for assessing climate change impact on Victoria's water availability Sandra Dharmadi, Geoff Steendam, Jacqui Lloyd, Brad Neal, Julia Tan	
14:10-14:30	Surface distribution patterns of buoyant particles in open-channel flows Ana Todorova, Robert K. Niven, Matthias Kramer	Abundance, Distribution, and Particle Size Characterization of Microplastics in Urban Stormwater Bioretention Systems in Melbourne, Australia Dayananda I.W.S.S., Tasnuva Tamanna, Shirley Gato-Trinidad, Iqbal Hossain	Supplementary advice for using Australian Rainfall and Runoff Climate Guidance in South Australia: objective, approach and recommendations Martin D. Allen	
14:30-14:50	Estimating Velocity Profiles in Rigid Vegetated Flows Using Analytical Solutions Rian Mantasa Salve Prastica, Badin Gibbes	Tackling the challenge of high operational costs of bubble plume destratification at Pindari Dam Fred Chaaya, Brett Miller, Matthew Gordos, Nathan Velautham, Andrew Richardson and Gerald Arends	Understanding the influence of teleconnections on precipitation extremes in ML-based downscaling across contrasting Australian climate regimes Maedeh Enayati, Aaron C. Zecchin, Graeme C. Dandy	
14:50-15:10	Beyond Afflux Mapping: A Hydraulic Design Framework for Targeted Flood Mitigation Optioneering Sina Akram, Michael Di Matteo, Jerry Liang, Bahman Esfandiar	From Catchment to Reservoir: Integrated Modelling of Water Quality in Adelaide's Primary Source-Water System to Support Decision-Making Alicja Makarewicz, Jeffrey Newman, Rob Daly	Assessing ENSO-related variability in atmospheric water vapour transport over the tropical Indian Ocean region during 1979-2024 Yixin Ma, Asaad Y. Shamseldin	
15:10-15:30	How comparable are TUFLOW and HEC-RAS rain-on-grid results? A multi-platform assessment of hydrologic and hydraulic consistency Ayesha Rahman	Towards sustainable solutions (TSS): Incorporating nature-based solutions to enhance water treatment Jessica A. Eisma, Xiujuan Chen, Jessica Seersma, Chowdhury Mohammad Toufiq Amin	Projected spatiotemporal variation of compound agricultural drought-heat events across Australia under future climate scenarios Mohammad Rezaiebalf, Lloyd H.C. Chua	
15:30-16:00	**Afternoon Tea**			

Tuesday 1 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
Detailed Program

As of 27 November 2026 and subject to change

Tuesday, 1 December 2026

Room	Ballroom I	Ballroom II	Banksia room	Grevillea room
16:00-17:20	**DF-2 - Design Floods**	**UW-2 - Urban Water**	**RR-1 - Catchment Models**	
Chair	**Anya Jones-Gill**	**Ben Kus**	**Robin Connolly**	
16:00-16:20	Spatial rainfall multipliers for climate change revisited – additional data, frequency outcomes and local physical basis Peter Coombes	Physics-Informed Stormwater Modelling for Improved Simulation of Stormwater Control Measures Yue Hu, Congying Li, Qijun Zheng	Hydrological state shift detection from observed data using a multivariate approach Enock Kajubi, Tim J Peterson, Arpita Mondal, Zahedi Sina Presenter: Tim Peterson	No workshop scheduled
16:20-16:40	Updated initial and continuing loss distributions and loss uncertainty in derived flood frequency curves Michelle Ho, Rory Nathan, Declan O'Shea, Caleb Dykman, Conrad Wasko	Challenges in Catchment-Scale Assessment of Stormwater Control Measures Congying Li, Tim D. Fletcher, Matthew J. Burns, Ian R. Gordon	Assessing Precipitation Sources for Hydrological Modelling in a Sparsely Gauged Peri-Urban Catchment Durga L. Shrestha, James Bennett, Andrew Schepen, David Robertson	
16:40-17:00	Data generation for flood risk estimation James E Ball	Hydraulic sensitivity of pit characteristics for stormwater drainage systems design Faisal Ahammed, Dilruba Farzana, Sagun S. P. Kafle, Sandeepa Bhandari, Zibing Wang	From Field to Flood: Physically Based Infiltration Losses for Rain-on-Grid Modelling Matthew Tiller, Lucy Reading, Marc Miska, Prasanna Egodawatta	
17:00-17:20	Joint probability of coincident rainfall across adjacent catchments: the piecewise z-correlation method Richard Sharpe	Benchmarking urban flood frequency estimation for ungauged Melbourne catchments Hugh T. Nguyen-Mallen	Application of Wavelet-LSTM Models for Streamflow Forecasting in Water Storage Systems Ehsan Zadeh	
17:30	**Pre-oration drinks**			
Room	**Ballroom**			
18:00 onwards	**Hall of Fame - Robert Culver and Graeme Dandy** **Munro Oration - Prof. Holger Maier**			

Wednesday 2 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
Detailed Program

As of 27 November 2026 and subject to change

Wednesday, 2 December 2026

Room	**Ballroom**			
09:00-10:00	**Keynote - Conrad Wasko** **Multiple lines of evidence for modelling changes in extreme rainfall and flooding**			
10:00-10:30	**Morning Tea**			
Room	**Ballroom I**	**Ballroom II**	**Banksia room**	**Grevillea room**
10:30-12:30	**DF-3 - Design Floods**	**UW-3 - Urban Water**	**RR-2 - Catchment Models**	
Chair	**Leanne Pearce**	**Michael Di Matteo**	**Fiona Johnson**	
10:30-10:50	Real-World Application of FFAs Given Physical Limitations on Waterways – A Case Study for Patterson River, Victoria Amber Smith, Sean Cowan, Glenn Ottrey, James Scott	Pathways to greater equity in flood risks governance revisited – additional data, case studies and spatial effects Peter Coombes, Katherine Daniell, Rob Swan, Andrew Allan and Michael Barry	Hydrology in the absence of data – some recent advances Ashish Sharma	No workshop scheduled
10:50-11:10	AEP Neutral Design Parameters in a Large, Complex Catchment Luke Toombes	Energy Losses in Stormwater Pits and Manholes: A century of development, remaining challenges, and future pathways Benjamin Kus, Ashis Dey, Geoffrey O'Loughlin, Jonathan Klaric	Rainfall interpolation under reduced gauge density: a Monte Carlo validation study Sudam Vidu Wanigatunga, James McGree, Prasanna Egodawatta, Buddhi Wijesiri	
11:10-11:30	Probability-Neutral Tailwater Levels for Coastal Flood Modelling near Melbourne Anthony R. Ladson, Lewis Hamilton, Sina Akram	River Torrens / Karrawirra Pari debris program Helen Braithwaite, Guy Fenwick, Ava Loechel, James Hensel, Richard Walsh, Christopher Keneally, Steven Delean, Justin Brookes	Practical challenges in remotely sensed streamflow space-time velocimetry Matt S. Gibbs, Magda Guglielmo, Brint Gardner, Justin Hughes, Cuan Petheram	
11:30-11:50	Improving the Complete Storm Multi-Duration Sampling Approach for Design Flood Estimation Mark Babister, Jayden Fraser, Behzad Jamali, Harrison Babister, Monique Retallick	Managing impacts of hypersaline mine water discharge into terminal lakes Krey Price, Fiona Taukulis	Deep learning-assisted event-based calibration of URBS for operational flood modelling Achini Colambage, Zhongzheng Wang, Buddhi Wijesiri, Jayaram Pudashine, Prasanna Egodawatta	
11:50-12:10	LiDAR Intensity and RGB Aerial Imagery for Pervious-Impervious Land-Cover Mapping in Hydrological and Hydraulic Modelling Amir Abbasnia, Ida Samadian	The value of data for modelling urban catchments Vu Phuong Tran, James E Ball	Automated quality control of rainfall observations for operational streamflow forecasting Ashkan Shokri, James C. Bennett, David E. Robertson	

Wednesday 2 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
Detailed Program

As of 27 November 2026 and subject to change

Wednesday, 2 December 2026

12:10-12:30	-	Artificial Versus Actual Intelligence: A Stock Take Case Study Andrew Allan, Peter Coombes, Chris Beardshaw	Spatial patterns in rainfall runoff model uncertainty and implications for water resource modelling in northern Victoria Phillip Jordan, Michael Finger, James Malcher, Hansini Weligamage, Michelle Ho, Matt Scorah, Kaung Si Thu	
12:30-13:30	**Lunch**			
Room	**Ballroom I**	**Ballroom II**	**Banksia room**	**Grevillea room**
13:30-15:30	**FR-1 - Flood Risk**	**WS-1 - Water Management**	**CC-1 - Climate Change**	**Nature based solutions workshop**
Chair	**Mark Thyer**	**Julian Whiting**	**Jarrah Muller**	**James Ball**
13:30-13:50	Mitigating Flood Risk at Bridge Girder Stockpile Yards to Ensure Construction Success Siobhan Maxwell, Eliza Mooring, Sarah Redfern	Take cover! Evaporation reduction from Hexa-Cover floating covers Kai Kinkela	Addressing hydrologic non-stationarity in Melbourne's water supply catchments using covariate analysis Phillip Jordan, K.S. Tan, Declan O'Shea, Leah Trail, Brad Neal	Nature based solutions workshop 13:30-15:30
13:50-14:10	Triumphs and tribulations of delivering flood mitigation in the Trinity Valley Simon Ims, Andy Sheehan, Travis Williams, Stephen Gribble Presenter: Simon Ims	Water Allocation in the Gwydir River – volume to value Nikul Kumari, Shahadat Chowdhury	Exploring Impacts of Climate Change Rainfall Scaling in the Upper Macquarie River Catchment Martin A. Griffin, Habba Rahimi, Brett C. Phillips, Xianhong Meng, Myles Lawrence, Ryan Valois Presenter: Brett Phillips	
14:10-14:30	Gathering observed trends from floodplain managers to calibrate the skills we need to evolve Ailsa Veldema, Amber Smith, Adele Kennedy	Integrated water balance modelling for water management at industrial facilities Amila P. Basnayaka, Andrew Holloway	Choice of downscaled rainfall products and bias correction methods affect future runoff projections Anjana Devanand, Francis H.S. Chiew, Nicholas J. Potter, David E. Robertson, Zaved Khan	
14:30-14:50	Curbing the surge: designing a climate-adaptable tidal levee bank in Rosetown Tim Kerby, Brandon Tan	Progressing integrated water resource management on Norfolk Island Joanne Vanderzalm, Cuan Petheram, Andrew Taylor, Justin Hughes, Lisa Golding	Artificial neural network modelling for bushfire prediction using combined climate indices: a case study for Victoria Afsin Islam, Monzur A. Imteaz, Iqbal Hossain	
14:50-15:10	From flood modelling to investment decisions: Translating climate risk into infrastructure planning for a coastal lagoon-based WWTP Jeffrey Newman, Laura Trotta, Courtney Smith, Belinda Dohring, Sid Samarth, Mirza Baig, Lucy McCarthy, Alex Barton, Che Biggs	Reallocating the Latrobe 3-4 Bench Bulk Entitlement: Enabling Cultural, Environmental and Agricultural Outcomes in a Changing Climate Rebecca Lett, Elizabeth Cryer, Erin Matchan	Integrating Landsat-based irrigation mapping and evapotranspiration to quantify long-term irrigation dynamics under climate variability Jorge Luis Pena Arancibia	

Wednesday 2 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
Detailed Program

As of 27 November 2026 and subject to change

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15:10-15:30	Interpreting Flood Maps: Implications for Property and Insurance Chris Thomas	Exploring Governance Models for Water-Limited Communities in the Dubbo/Western Plains region of the Murray-Darling Basin Chitresh Saraswat, Katherine Daniell, Hannah Feldmann, Lewis Treymane	A Multi-Scale Assessment of Run-of-River Hydropower Reliability through Spatial Pooling Mirza Kurniawan, Fiona Johnson, Ashish Sharma	
15:30-16:00	**Afternoon Tea**			
Room	**Ballroom I**	**Ballroom II**	**Banksia room**	**Grevillea room**
16:00-17:20		**GO-1 - Water Governance**	**FD-1 - Flood Forecasting**	**CC-2 - Climate Change**
Chair		**Chris Nielsen**	**David Kemp**	**Conrad Wasko**
16:00-16:20		Media Bias, Uneven Participation, and the Politics of the Murray–Darling Basin Plan: From Historical Conflict to Future Governance Nure Maliha	Advances in Modelling Regulated Catchments for Operational Short-Range Flood and Streamflow Forecasting A. Kabir, B. Deeks, H.A.P. Hapuarachchi, C. Wilson, M. Bari, U. Khan, A. Cornish	Uneven storms, uneven exposure: socioeconomic patterns in Australia's changing extreme rainfall intensity Nicholas Deeks, Emilly Barnes
16:20-16:40		Co-designing Governance Models for Water-Limited Communities: A Card-Based Participatory Workshop Toolbox Chitresh Saraswat, Katherine Daniell, Ariane Gienger, Melissa Nursey-Bray, Hannah Feldmann, Thomas Biedermann, Lewis Treymane, Peta Jeffries	Converting flood forecasts into operational risk mapping for crisis management Jayben Zhang, Rémy Baudot	Impact of declining snowpack on flood risk in the Snowy Mountains under climate change Julia Tan, Benson Liu, Declan O'Shea, David Stephens
16:40-17:00		Why Do Water Resources Challenges Persist? The Limits of 'Better' Solutions Babak Zolghadr-Asli, Aaron C. Zecchin, Sam A. Culley, Holger R. Maier	Counting Molecules in the World of Flood Forecasting Uncertainty Clint Chrystal, Michael Hughes	Investigating the Influence of Southern Annular Mode Variability on Bushfire Danger in Victoria Using Artificial Neural Networks Afsin Islam, Monzur A. Imteaz, Iqbal Hossain
17:00-17:20		No paper scheduled	Analysis and incorporation of in-river routing effects during extreme flood events Adam Broit, Krista Stock and Harry Pimm.	Non-Intrusive Optical Quantification of Artificial Rainfall Streaks and Inflow Correlation via Computer Vision M. S. Hossain, M Nazmi and Md Munir Hayet Khan.
Room	**Ballroom**			
18:30 - 21:30	**Symposium Dinner and Hydrologic Games**			

Thursday 3 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
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Room	Ballroom I	Ballroom II	Banksia room	Grevillea room
09:00-10:30	**HY-2 - Hydraulics**	**WQ-2 - Water Quality**	**WS-2 - Water Management**	
Chair	**Chris Thomas**	**Jeff Newman**	**Katherine Daniell**	
09:00-09:20	Scalable high-frequency transient analysis in pipe networks using hybrid PINN Chengcheng Yin, Wei Zeng, Martin F. Lambert, Benjamin S. Cazzolato	A low-cost system for in-situ turbidity measurement; a Franco-Australian demonstration of performance Paulo V. R. M. Silva, Kathryn L. Russell, Tim D. Fletcher, Frederic Cherqui, Oldrich Navratil, Etienne Cossart	Building the Barwon-Darling River System Model Scott Podger, Dom Regan-Beasley, Siv Teh	No workshop scheduled
09:20-09:40	Hydraulic wave reflection-based blockage detection in sewer pipes Anran Zhao, Chengcheng Yin, Martin F. Lambert, Wei Zeng	Understanding the drivers of TSS-turbidity relationships in river systems: implications for surrogate modelling Sejuti Saha, Anna Lintern, Brandon Winfrey, Danlu Guo, Vaughn Grey	Calibrating the Barwon–Darling River System Model Dom Regan-Beasley, Siv Teh, Scott Podger	
09:40-10:00	WaterRoute: an automated channel alignment and design model Cuan Petheram, Lynn Seo, Arthur Read, Kevin Devlin, Tze Ling Ng	Using Numerical Model Diagnostic Outputs to Improve Water Quality Modelling Accuracy Mitchell Smith, Michael Barry, D. Kitts, Chris Huxley	It's time for an uncertainty estimation framework for river system models Shaun S.H. Kim, Julien Lerat, Justin D. Hughes, Dom Regan-Beasley	
10:00-10:20	pyHB: A Python software package for estimating Herschel-Bulkley model parameters for modelling non-Newtonian fluids Md Atiqul Islam	Nutrient Extreme Characteristics of Rivers Can Be Predicted Using Electrical Conductivity Shahab Uddin, Tim Peterson, Anna Lintern, Danlu Guo	Water Allocation Certainty in Dry Climate Shahadat Chowdhury	
10:30-11:00	**Morning Tea**			
11:00-12:00	**Keynote - Sarah Wheeler** **Water Policy in the Murray-Darling Basin: Reviewing Two Decades of Reform and Lessons for the Future**			
Room	**Ballroom I**	**Banksia room I**	**Banksia room II**	**Grevillea room**
12:00-13:00	**UW-4 - Urban Water**	**DF-4 - Design Floods**	**GW-2 - Groundwater**	**State based guidance on climate change workshop**
Chair	**Brett Phillips**	**Brett Stinton**	**Nick Deeks**	**Michael Leonard**
12:00-12:20	Implementation of the Unified Stormwater Treatment Model in TUFLOW CATCH: a case study Michael Barry, Phil Ryan, Shuang Gao, Chris Huxley	Investigating State Shift Effects on Peak Flood Magnitude Across Australia Finn J. Kirkpatrick, Flynn Stimpson, Tram Hoang, Tim Peterson	Global Trends in Baseflow Across Köppen-Geiger Climate Zones: Spatiotemporal Analysis of 14,603 Watersheds (1960–2020) Ali R. Al-Aizari, Lichun Wang, Ather Abbas, Hylke Beck	

Thursday 3 December

ENGINEERS AUSTRALIA | National Committee on Water Engineering

Hydrology and Water Resources Symposium 2026
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As of 27 November 2026 and subject to change

Thursday, 3 December 2026

12:20-12:40	IoT and artificial intelligence in water and land management: a bibliometric analysis of global research trends from 1994 to 2024 Belal Al-Hakeem	PNG Highland Rainfall Based Catchment Design Flood Hydrograph Estimation Vinny Kim, William Meynink, Jonathon Armitage, Alexander Rogan	The drought that didn't end: rainfall decline and seasonal shift since the Millennium Drought in South Australia Kumar Savadamuthu, Daniel McCullough, Karina Gutierrez-Jurado, Sajani Bamunuarachchi, Deng Rose	State based guidance on climate change workshop 12:00-13:00
12:40-13:00	CFD Optimisation of an Underground Stormwater Flow Distribution Chamber within a Constrained Urban Environment Tuyet Pham, Damian Graham, Ali Jafari, Leon Arakelian, Jeremy Wagner	Selecting an appropriate tailwater condition: A data based analysis Lewis Hamilton, Glenn Ottrey, Anthony R. Ladson	Numerical Investigation on Seepage Evolution under Drainage Influence for a Karst Subway Tunnel Using Triple-Porosity Model Wang J.X., Sun Y.W., Li X.J., Wang X., Lei M.L., Yu D.H., Lv Y.Y.	
13:00-14:00	**Lunch**			
Room	**Ballroom I**	**Ballroom II**	**Banksia room**	**Grevillea room**
14:00-15:30	**FR-2 - Flood Risk**	**WS-3 - Water Management**	**RR-3 - Catchment Models**	
Chair	**Julian Orth**	**Fiona Ling**	**Anjana Devanand**	
14:00-14:20	Flood risk management with climate change – How much flooding can we live with? Suresh Hettiarachchi	Challenges in shifting from deterministic to stochastic approaches in water resource practice Diana Dai, Ella Guthrie, Petter Nyman, Robert Morden	Convergence of solutions in non-linear storage runoff-routing (Laurenson's method) hydrology models Jonathan Klaric, Benjamin Kus, Ashis Dey	No workshop scheduled
14:20-14:40	Here comes the rain again: Rethinking disaster planning Stephanie Kermode, William Prentice, Russell Beatty, Lisa Holden, Brad Neal	Using Meteorological Drought Indices to Forecast Hydrological Drought C. Dissanayake, M. A. Bhuiyan, L. N. N. Jayasuriya	Catchment Memory and Optimisation-Landscape Geometry in Rainfall–Runoff Calibration Nadir Loonat, Chas Egan, Dushmanta Dutta, Daniel Aramini	
14:40-15:00	Integrating Flood Sourcing and Evolutionary Optimisation for Climate-Resilient Flood Mitigation Planning Ruijie (Jerry) Liang, Michael Di Matteo	Hydrologic analysis of options for improving water security in the the Fish River-Wywandy Region Phuong Cu, Dushmanta Duta, Aaron Trim, Geoff Podger, Rameses Reyes	Rainfall and flow monitoring in an arid catchment – what significant events in Arcoona Creek in the Gammon Ranges tell us about catchment behaviour David Kemp	
15:00-15:20	Establishment of flood risk standards in Queensland Chris Nielsen, Tyrone Attard	Climate change impacts on resource recovery centre performance: insights from site-based water balance modelling Urvisha Kiri	Opportunities and Challenges of Geofabric-Aided Catchment Delineation in Highly Regulated River Systems Ankur Srivastava, Matthew Brooks, Xudong Han, Narendra Tuteja, Mahmudul Haque	
15:20-15:30	**Session discussion / changeover**			
Room	**Ballroom I**			
15:30-16:00	**Closing Ceremony**			