



CONFERENCE PROGRAM

(as at 9th February please note this is subject to change)

Tuesday 29th May 2018

8.00am – 9.00am **Pre-Conference Flood Workshop Registration**

Session 1 Concurrent Workshops 9.00am – 10.30am

Workshop 1: Interaction of Catchment Flooding with Coastal Processes	Workshop 2: Community Engagement
--	--

10.30am – 11.00am **Morning Tea**

Session 2 Concurrent Workshops - continued 11.00am – 12.30pm

Workshop 1: Interaction of Catchment Flooding with Coastal Processes	Workshop 2: Community Engagement
--	--

12.30pm – 1.30pm **Lunch**

Session 3 Concurrent Workshops - continued 1.30pm – 3.00pm

Workshop 1: Interaction of Catchment Flooding with Coastal Processes	Workshop 2: Community Engagement
--	--

3.00pm – 3.30pm **Afternoon Tea**

Session 4 Concurrent Workshops – continued 3.30pm – 5.00pm

Workshop 1: Interaction of Catchment Flooding with Coastal Processes	Workshop 2: Community Engagement
--	--

5.00pm – 7.00pm **Conference Welcome Reception,
Trade Display Area**



Day One – Wednesday 30th May 2018

7.30am Registration

Session 1 Plenary 8.30am – 10.00am

8.30am Welcome to Country

8.40am Welcome from Host Council

8.50am Welcome from Floodplain Management Australia

9.10am Keynote Address

10.00am – 10.30am Morning Tea + Poster Presentations

Session 2 Plenary 10.30am – 11.25am

10.30am – 11.25am State & Territory Presentations

Session 3 Concurrent 11.30am – 12.30pm

	3A: Flood Resilience & Risk Management	3B: Flood Policy, Guidance & Best Practice	3C: Adaptation to Climate Change	3D: Assessing Flood Hazard
11.30am – 12.00pm	Mackay Region Flood and Stormwater Strategy: Theory Meets Practice Luke Ferguson , <i>Mackay Regional Council</i>	Improving Delivery Under the NSW Flood Prone Land Policy Duncan McLuckie , <i>NSW Office of Environment & Heritage</i>	Impact of Climate Change on Australian Flood Risk: A Review of Recent Evidence Seth Westra , <i>University of Adelaide</i>	Manly and Narrabeen Lagoon Flood Intelligence Tool – Integrating Coastal Flooding Information Bronson McPherson , <i>Manly Hydraulics Laboratory</i>
12.00pm – 12.30pm	Is Your Community Resilient? Guidelines for Flood Resilience in the Built Environment Maisie Auld , <i>Edge Environment</i>	Show Me the Money! – Economic Analysis in Floodplain Management Rhys Thomson , <i>Rhelm</i>	Coastal Hazard Assessments in Victoria Viktor Brenners , <i>Department of Environment, Land, Water and Planning</i>	From Modelling to Reality – Catchment Management - Practical Risk Based Application of Findings Quentin Underwood , <i>Lockyer Valley Regional Council</i>

12.30pm – 1.30pm Lunch + Long Field Trip Departure

Session 4 Concurrent**1.30pm – 3.00pm**

	4A: Flood Policy, Guidance & Best Practice	4B: Flood Emergency Preparedness & Management	4C: Assessing Flood Hazard & Risk	4D: Building Community Resilience & Engagement
1.30pm – 2.00pm	ARR2016 - 18 Months on and the OEH Guidelines Mark Babister, <i>WMAwater</i>	Flood Information System Enhancing Emergency Management in South Australia Aaron Blasch, <i>South Australian State Emergency Service</i>	Flood Studies for Large Catchments: the Importance of Rainfall Spatial Variability David Stephens, <i>HARC</i>	Exploring the Experiences of Those Who Shelter in Place During Flooding Katharine Haynes, <i>Macquarie University</i>
2.00pm – 2.30pm	Implementing National Best Practice Guidance on Flood Risk Management – 12 Months on Duncan McLuckie, <i>National Flood Risk Advisory Group</i>	Improving Decision Support in Flood Response – Impact Based Intelligence Simon Rodgers, <i>Department of Water and Environmental Regulation WA</i>	Estimating the Life Safety Benefits Associated with Flood Warning Systems Michael Cawood, <i>Michael Cawood & Associates</i>	Environments of Preparation, Response and Recovery – One Size Doesn't Fit All Carina Heppell, <i>Victorian State Emergency Service</i>
2.30pm – 3.00pm	Further Benchmarking of Floodplain Risk Management Practice Monique Retallick, <i>WMAwater</i>	Ex-Tropical Cyclone Debbie – Listening to Communities in the NSW Northern Rivers Justin Robinson, <i>Bureau of Meteorology</i>	Effects of ARR2016, and Rating Curve Changes on Design Flood Conditions for the Hunter River Rohan Hudson, <i>Royal HaskoningDHV</i>	Putting the Community into Total Flood Warning Systems Neil Dufty, <i>Molino Stewart</i>

Session 5 Field Trips**3.00pm – 5.30pm****Afternoon Tea on Field Trip****5.00pm****Close of Day One**

Day Two – Thursday 31st May 2018

8.00am

Registration (for 1 Day delegates)

Session 6

Concurrent

9.00am – 10.00am

	6A: Emergency Management	6B: Infrastructure Projects	6C: Flood Resilience and Risk Management	6D: 10 Minute Presentations
9.00am – 9.30am	More Flood Resilient Futures Hamid Mirfenderesk , <i>Gold Coast City Council</i>	Bruce Highway Link Flood Study Phillip Jordan , <i>Hydrology and Risk Consulting</i>	Setting Regional Floodplain Management Priorities in Victoria Shaun Morgan , <i>North Central Catchment Management Authority</i>	9.00am – 9.15am To Enter Floodwater or Not? Decision Making Perspectives from the 2017 Western Australia Floods Andrew Gissing , <i>Risk Frontiers</i> 9.15am – 9.30am Calculated Risk? Understanding NSW Emergency Service Workers' Decisions to Drive into Floodwater Mozumdar Arifa Ahmed , <i>Macquarie University</i>
9.30am – 10.00am	Flash Flood Warning Systems – How Have They Performed? Christopher Wright & Dinesh Ratnayake , <i>University of South Australia</i>	Mitigating the Risks of Flood Barriers Through Design Brett Kelly , <i>AWMA</i>	Harvey, Irma, Maria, Debbie, Marcia, and Yasi: A Dysfunctional Cyclone Family Michael McMahon , <i>HDR Engineering</i>	9.30am – 9.45am A Practical Comparison of ARR1987 and ARR2016 with Varying Rainfall Application Methodologies Ben Hughes , <i>Water Technology</i> 9.45am – 10.00am Clarity of Flood Protection Service Levels Leads to Better Community Understanding and Management Outcomes Thomas Hurst , <i>Melbourne Water</i>

10.00am – 10.30am Morning Tea + Poster Presentations

Session 7 Plenary 10.30am – 11.10am

- 10.30am Housekeeping Notes
- 10.35am Sponsor Address
- 10.40am **Keynote Address**
 Building Queensland's Flood Resilience: Supporting Local Governments Through a Catchment Approach to Flood Risk Reduction
Brendan Moon, *Queensland Reconstruction Authority*

Session 8 Concurrent 11.15am – 12.15pm

	8A: QLD Flood Resilience Program	8B: Infrastructure Projects	8C: Flood Resilience & Risk Management	8D: 10 Minute Presentations
11.15am – 11.45am	QLD Flood Resilience Program, Graeme Milligan , <i>Queensland Reconstruction Authority</i>	Linking Asset Management, Design and Floodplain Risk Management Isabelle Ghetti , <i>Wollongong City Council</i>	That Was Then, This is Now, Futuristic View of Mudgeeraba Creek Floodplain Jacob Franklin , <i>Burchills Engineering Solutions</i>	11.15am – 11.30am Floodplain Risk Management – Art or Science Angela Halcrow , <i>Halcrow & Associates</i> 11.30am – 11.45am Extreme Event Analysis of Rainfall and Streamflow in the Logan Catchment Rohan Eccles , <i>Griffith University</i>
11.45am – 12.15pm		11.45am – 12.00pm Dam Failure Flood Inundation – Comparing Traditional Analytical Methods and 2D Hydraulic Modelling Eoghain O'Hanlon , <i>BMT WBM</i> 12.00pm – 12.15pm Flood Modelling for Landslide Dam Failures Krey Price , <i>Surface Water Solutions</i>	Presentation TBC	11.45am – 12.00pm Improving Modelling of Coastal Risks Through A Network Of Miniaturised Tide Gauges Jessica Bourner , <i>Gold Coast Waterways Authority</i> 12.00pm – 12.15pm Project U-Turn Brendan Davies , <i>NSW State Emergency Service</i>

12.15pm – 1.15pm Lunch + Poster Presentations

Session 9 Concurrent

1.15pm – 3.15pm

	9A: Land Use Planning	9B: Flood Emergency Preparedness & Management	9C: Assessing Flood Hazard & Risk	9D: 10 Minute Presentations
1.15pm – 1.45pm	Building Community Resilience through Development Controls – The New Victorian Development Guidelines Mike Edwards, <i>Department Environment, Land, Water and Planning, Victoria</i>	Good, Bad and Ugly: Assessing Evacuation Compliance, Murrumbidgee Region Flooding, March 2012 Stephen Yeo, <i>Flood Focus Consulting</i>	Parramatta Flash Flood Forecasting Information System Ben Patterson & Jaap Flikweert, <i>Royal HaskoningDHV</i>	1.15pm – 1.30pm Flood Mitigation Challenges in Built Urban Environment - Brickmakers Creek Flood Mitigation Maruf Hossain, <i>Liverpool City Council</i> 1.30pm – 1.45pm Stormwater Infrastructure Planning to Support Land Use Planning – Local Government Infrastructure Plan (LGIP) Glen Dare, <i>Brisbane City Council</i>
1.45pm – 2.15pm	Strategic Planning in a Highly Developed Rural Floodplain (Macquarie River) Tim Morrison, <i>Morrison Water and Spatial</i>	Development and Running of a Staff Ride for a Flood Event Ray Jasper, <i>Victoria State Emergency Service</i>	The Long Road to Planning for Natural Hazards – Reflections on Mangaroa Sharyn Westlake, <i>Greater Wellington Regional Council</i>	1.45pm – 2.00pm Frequent Flood Events & Environmental Protection: What Ecology Can Teach Us Nicole Webb, <i>Stephen N Webb & Associates</i> 2.00pm – 2.15pm Discovery and Access Portal for NSW Flood Risk Information Elliott Simmons, <i>NSW State Emergency Service</i>
2.15pm – 2.45pm	Best Practice Urban Design in Flood Prone Areas Paul Hackney, <i>City of Parramatta Council</i>	Quarries in the Floodplain an Emergency Management Challenge During Flooding Keith O'Brien, <i>Victoria State Emergency Service</i>	Atmospheric Rivers in Australia? Implications for Flood Risk and Community Resilience James Stuart, <i>SunWater</i>	2.15pm – 2.30pm Pragmatic Assessment of the Interaction of Riverine and Coastal Flooding Barry Rodgers, <i>BMT WBM</i> 2.30pm – 2.45pm Modelling to Support Flood Resilience in a Rapidly Developing Environment in WA Stephan Suter, <i>DHI</i>

	9A continued	9B continued	9C continued	9D continued
2.45pm – 3.15pm	An Evidence-based Approach to Addressing Flood Emergency Management Considerations in Land-use Planning Marcus Morgan, <i>NSW State Emergency Service</i>	Community Driven Flood Risk Management Planning for Rural Toowoomba Townships Blake Boulton, <i>Water Modelling Solutions</i>	Censored Continuous Simulation for Flood Probability Estimation in Estuarine Regions Wenyan Wu, <i>University of Adelaide</i>	2.45pm – 3.00pm Flood Study of Adelaide River Floodplain Kok Keng Tan, <i>SMEC</i> 3.00pm – 3.15pm Application of Hydrodynamic Models in Light Rail Network Design Ivan Varga Sampedro, <i>Arup</i>

3.15pm – 3.45pm Afternoon Tea + Poster Presentations

Session 10 FMA Annual General Meeting 4.00pm – 5.30pm
“All FMA Members please attend”

10A: FMA Annual General Meeting <i>“All FMA Members please attend”</i>	10B: Workshop:
--	-----------------------

5.30pm Close of Day Two

Day Three – Friday 1st June 2018

8.30am

Registration (for 1 Day delegates)

Session 11

Concurrent

9.00am – 11.00am

	11A: Flood Stories & Case Studies	11B: Flood Policy, Guidance & Best Practice	11C: Assessing Flood Hazard & Risk	11D: Infrastructure Projects
9.00am – 9.30am	Lessons Learned from the Floods Following Cyclone Debbie on the Logan-Albert Rivers Janaka Gunawardena , <i>Logan City Council</i>	A Review of Modelling Practice in a Gauged Urban Catchment Under ARR2016 Daniel Wood , <i>Cardno</i>	The Incorporation of Climate into the Flood Hydrology of South East Queensland Greg McMahon , <i>G M McMahon Consultants</i>	Emergency Breaching Protocols for the Protection of Yenda Daniel Williams , <i>BMT WBM</i>
9.30am – 10.00am	Four Floods in 18 Months – Who is to Blame? Clarissa Campbell , <i>Moreton Bay Regional Council</i>	Punching the Numbers: How Can We Do Better? Ella Harrison , <i>WMAwater</i>	Hydraulic Categrisation Neal Albert , Office of Environment and Heritage	Can a Detention Basin Project Have Outcomes Other Than Flood Mitigation? Adam Berry , <i>Ipswich City Council</i>
10.00am – 10.30am	A Case Study of ARR 2016 Temporal Patterns for Design Flow Estimation Crispin Smythe , <i>Sunshine Coast</i>	Flood Risk Management and Flood Dependent Ecosystems – Low Flow, High Flow and Everything in Between Louise Collier , <i>Rhelm</i>	Testing of Simulated Flood Effects on the Strength of Selected Building Components Tariq Maqsood , <i>Geoscience Australia</i>	Journey to a Safe and Efficient City Drainage System Simon Harding , <i>City of Greater Geelong</i>
10.30am – 11.00am	Risk-based Approach to Developing Flood Warning Services, Example of Charlton Victoria Yves Bessard , <i>Bureau of Meteorology</i>	Connecting Communities: Building Household Preparedness to Flood Through a School Education Program Avianto Amri , <i>Risk Frontiers</i>	Flash Mob – Preparing a Music Festival for Floods Steven Molino , <i>Molino Stewart</i>	10.25am – 10.55am Examining the Effect of ICOLL Entrance Management on Estuary Flooding Luke Evans , <i>Cardno</i> 10.55am – 11.10am Modelling the Impacts of Solar Farms May-Le Ng , <i>Premise Water</i>

11.00am – 11.30am Morning Tea + Poster Presentations

Session 12 Concurrent

11.00am – 12.30pm

	12A: Modelling	12B: Flood Policy, Guidance & Best Practice	12C: Flood Emergency Preparedness & Management	12D: 10 Minute Presentations
11.30am – 12.00pm	Testing of New HEC-RAS 2D Model Features Mark Forest, HDR	Riparian Vegetation Management: A Unifying Framework for River and Flood Management Andrew Brooks, Griffith University	Crying Wolf and Herding Cats: Optimising NSW Flood, Storm and Tsunami Warnings Andrew Richards, NSW State Emergency Service	11.30am – 11.45am How Flood Intelligence is Utilised to Support Community Preparedness Within Greater Melbourne Ray Jasper, Victoria State Emergency Service 11.45am – 12.00pm Hydronet Rainwatch – Forecasted, Observed and Historical Weather Data at Your Fingertips Brian Jackson, Water Technology
12.00pm – 12.30pm	A Comparison of Ensemble and Average Variability Method (AVM) Temporal Pattern Approaches Ari Craven, Engeny Water Management	Applying Natural Flood Management Principles to Australian Catchments Justine Kemp, Griffith University	Developing a Performance-based Standard for Flood Warning Infrastructure Carla Mooney, Bureau of Meteorology	12.00pm – 12.15pm Ensemble Storm Injector: Updating Australia's Hydrologic Models for ARR 2016 Chris Ryan, Catchment Simulation Solutions 12.15pm – 12.30pm "Rain-on-grid" Modelling - Is Depth-varying Roughness the Key to Representative Outcomes? Peter Woodman, GHD
12.30pm – 1.00pm	Horses for Courses, Practical Floodplain Modelling Ben Tate, Water Technology	ARR 2016 – Adopting a Practical Methodology for Catchment Scale Urban Flood Mapping Projects Rob Swan, Cardno	Presentation TBC	12.30pm – 12.45pm 2017 Melbourne Flood Response and Recovery Wendy Smith, Melbourne Water 12.45pm – 1.00pm An Adaptive Approach to Flood Planning Scott Marshall, Manly Hydraulics Laboratory

1.00pm – 1.45pm Lunch + Poster Presentations

Session 13**Plenary****1.45pm – 3.00pm**

1.45pm – 2.30pm

Keynote Address

2.30pm

Wrap Up + Closing

3.00pm**Afternoon Tea**