



CONFERENCE PROGRAM

(as at 15th March 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 in the Floodplain Management Process
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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 in the Floodplain Management Process
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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 in the Floodplain Management Process
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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 in the Floodplain Management Process
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5.00pm – 7.00pm **Conference Welcome Reception,**
Arena 2, 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 Michael Leonard , <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 & Tom Davies , <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

“Sponsored by City of Gold Coast”

Afternoon Tea on Field Trip

5.00pm

Close of Day One

7.00pm

Casual Dinner

Level 77, SkyPoint Observation Deck

Sponsored by: WMAwater

Day Two – Thursday 31st May 2018

8.00am

Registration (for 1 Day delegates)

Session 6

Concurrent

9.00am – 10.00am

	6A: Councillors Choice	6B: Infrastructure Projects	6C: Flood Resilience and Risk Management	6D: 10 Minute Presentations
9.00am – 9.30am	Councillors Choice <i>Opportunity for Councillors to raise and discuss issues of importance to Local Government</i>	Bruce Highway Link Flood Study Jenny Ahern, AECOM, Andrew Northfield, Hydrology and Risk Consulting	Setting Regional Floodplain Management Priorities in Victoria Shaun Morgan, North Central Catchment Management Authority	9.00am – 9.15am To Enter Floodwater or Not? Decision Making Perspectives from the 2017 Western Australia Floods Andrew Gissing, Risk Frontiers 9.15am – 9.30am Calculated Risk? Understanding NSW Emergency Service Workers' Decisions to Drive into Floodwater Mozumdar Arifa Ahmed, Macquarie University
9.30am – 10.00am		Mitigating the Risks of Flood Barriers Through Design Brett Kelly, AWMA	More Flood Resilient Futures Hamid Mirfenderesk, Gold Coast City Council	9.30am – 9.45am A Practical Comparison of ARR1987 and ARR2016 with Varying Rainfall Application Methodologies Ben Hughes, Water Technology 9.45am – 10.00am Clarity of Flood Protection Service Levels Leads to Better Community Understanding and Management Outcomes Thomas Hurst, Melbourne Water

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>Flume Engineering</i>	11.15am – 11.30am Presentation TBC 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 Blair Filer , <i>BMT</i> 12.00pm – 12.15pm Flood Modelling for Landslide Dam Failures Krey Price , <i>Surface Water Solutions</i>	Harvey, Irma, Maria, Debbie, Marcia, and Yasi: A Dysfunctional Cyclone Family Michael McMahon , <i>HDR Engineering</i>	11.45am – 12.00pm Improving Modelling of Coastal Risks Through A Network Of Miniaturised Tide Gauges Rodger Tomlinson , <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 <i>Royal HaskoningDHV & Herman de Jonge</i> <i>Royal HaskoningDHV Netherlands</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 & Steven Jarman</i> <i>Eco Logical Australia</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	Presentation TBA	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</i> 2.30pm – 2.45pm TBC

	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 Peter Cinque, NSW State Emergency Service	Community Driven Flood Risk Management Planning for Rural Toowoomba Townships Scott Moffett, Toowoomba Regional Council	Censored Continuous Simulation for Flood Probability Estimation in Estuarine Regions Wenyan Wu, University of Adelaide	2.45pm – 3.00pm Flood Study of Adelaide River Floodplain Kok Keng Tan, SMEC 3.00pm – 3.15pm Application of Hydrodynamic Models in Light Rail Network Design Ivan Varga Sampedro, Arup

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:
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5.30pm Close of Day Two

7.00pm Conference Dinner
Hall 4, Gold Coast Convention & Exhibition Centre
Sponsored by: Royal HaskoningDHV

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 & William Prentice <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</i>
9.30am – 10.00am	Four Floods in 18 Months – Who is to Blame? Clarissa Campbell , <i>Moreton Bay Regional Council</i>	Customer Centric Approach to Impact Based Forecasting and Warning Services - the Bureau of Meteorology way Dasarath (Jaya) Jayasuriya <i>Bureau of Meteorology</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>	Punching the Numbers: How Can We Do Better? Ella Harrison <i>WMAwater</i>	Flash Mob – Preparing a Music Festival for Floods Steven Molino , <i>Molino Stewart</i>	10.25am – 10.55am <i>TBC</i> 10.55am – 11.10am Modelling the Impacts of Solar Farms Daniel Niven & Gavin Fields <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**