



Conference Program

(correct at 18 February, subject to change)

Monday 18th May 2020

9.30am – 5.00pm **Workshop TBC**
Facilitated by

Tuesday 19th May 2020

8.00am **Pre-conference Workshop Registration**
Lobby, Empire Theatre

Session 1 9.00am – 10.30am	Full Day Workshop	Full Day Workshop
--------------------------------------	--------------------------	--------------------------

Location

Facilitator

9.00am – 10.30am	Human Behaviour In Floods	Making Informed Decisions on Flood Risk Management Works
------------------	---------------------------	--

10.30am – 11.00am **Morning Tea**

Session 2 11.00am – 12.30pm	Full Day Workshop (continued)	Full Day Workshop (continued)
---------------------------------------	--------------------------------------	--------------------------------------

Location

11.00am – 12.30pm	Human Behaviour In Floods	Making Informed Decisions on Flood Risk Management Works
-------------------	---------------------------	--

12.30pm – 1.30pm **Lunch**

Session 3 1.30pm – 3.00pm	Full Day Workshop (continued)	Full Day Workshop (continued)
-------------------------------------	--------------------------------------	--------------------------------------

Location

1.30pm – 3.00pm	Human Behaviour In Floods	Making Informed Decisions on Flood Risk Management Works
-----------------	---------------------------	--

3.00pm – 3.30pm **Afternoon Tea**

Session 4 3.30pm – 5.00pm	Full Day Workshop (continued)	Full Day Workshop (continued)
-------------------------------------	--------------------------------------	--------------------------------------

Location

3.30pm – 5.00pm	Human Behaviour In Floods	Making Informed Decisions on Flood Risk Management Works
-----------------	---------------------------	--

5.00pm – 7.00pm **Conference Registration**
Lobby, Empire Theatre

5.00pm – 7.00pm **Welcome Reception**
Trade Display, Armitage Centre, Empire Theatre

Wednesday 20th May 2020

7.30am **Conference Registration**
Lobby, Empire Theatre

8.30am – 10.10am **Session 1 - Plenary**
Empire Theatre

8.30am **Welcome to Country**
8.40am **Welcome from Toowoomba Regional Council**
8.50am **Welcome from Floodplain Management Australia**
9.10am **Welcome from Minister (TBC)**
9.20am **Platinum Sponsor Insurance Council of Australia Address**
9.25am **Keynote Address**

10.10am – 10.40am **Morning Tea & Poster Presentations**

Session 2 10.40am – 12.40pm	2A: Flood Policy, Guidance, Best Practice (QRA)	2B: Modelling	2C: Flood Prediction and Warning	2D: Infrastructure Projects and Asset Management
---------------------------------------	--	----------------------	---	---

Location

Chair

10.40am – 11.10am	Brisbane River Cumulative Impact Assessment Katrina Smith , Queensland Reconstruction Authority	ARR2019 Quirks and How to Deal with Them Chris Ryan , Catchment Simulation Solutions	AI Flash Flood Alert System Timothy Kallady , Piccard AI	Sustainable Floodplains Through Sustainable Infrastructure Development Jean-Michel Benier , Melbourne Water Corporation
-------------------	---	--	--	---

11.10am – 11.40am	Delivering on the Brisbane River Strategic Floodplain Management Plan Graeme Milligan , Queensland Reconstruction Authority	Don't Get in a Bog with Your RoG Ben Tate , Water Technology	Forecasting Rainfall Losses Using Artificial Neural Networks and Machine Learning Galen Lewis , MHL	Raising Warragamba Dam: A Contingent Valuation Study of Flood Mitigation Versus Conservation Joel Dalberger , International Water Centre & Mcgregor Coxall
-------------------	---	--	---	--

11.40am – 12.10pm	Locally-led Implementation of the Burnett Catchment Flood Resilience Strategy Dwayne Honor , Bundaberg Regional Council	Toowoomba's Evolution in Flood Modelling and Floodplain Management Zita Dore , BMT	Supercell Thunderstorm Radar Signatures As an Indicator of Flash Flood Potential Warick Honour , Advisian	Are My Levees High Enough? Assessment of Freeboard Along the Eastern Seaboard Julian Skipworth , Water Modelling Solutions
-------------------	---	--	---	--

12.10pm – 12.40pm	Resilient Queensland: Perspectives of Community and Flood Resilience from Bauple to Boulia Steve Dredge , Queensland Reconstruction Authority	Storm Tide Inundation Modelling for Flood Database Cara van Megchelen , Cardno	Towards Zero Lives Lost Using Ensemble Flood Forecasts Alex Clifton , Bureau of Meteorology	Hunter Valley Flood Mitigation Scheme – Wallalong Levee, Aberdeen Levee and Wallis Creek Floodgates – Upgrade Works Ben Patterson , Royal HaskoningDHV
-------------------	---	--	---	--

12.40pm – 1.30pm **Lunch & Poster Presentations**

1.00pm **Long Field Trip Departs**

Session 3 1.30pm – 3.00pm	3A: Australian Rainfall and Runoff (ARR)	3B: Emergency Preparedness and Management, Recovery	3C: Flood Stories and Case Studies	3D: 10 Minute
-------------------------------------	---	--	---	----------------------

Location

Chair

1.30pm – 2.00pm	What Have We Learnt About Temporal Patterns and the New ARR Monique Retallick WMAwater	Compounding Flood Disasters Andrew Gissing Risk Frontiers	Not Just a Drain – Mixed-Use Opportunities in Newcastle’s Flashiest Catchment Kara Agllias,	1.30pm – 1.45pm The Hard Facts of Twelve Years of Lessons Learnt for Community Engagement in Melbourne Ray Jasper, Victoria State Emergency Service 1.45pm – 2.00pm Flood is Coming: Who Do We Listen To? Astrid Vachette, National Centre for Flood Research
2.00pm – 2.30pm	Wollongong Flood Risk Planning: Impacts of Blockage, Rainfall and ARR Updates Isabelle Ghetti, Wollongong City Council	Time Out – Flood Emergency Response for a Major Sports Venue Steven Molino, Molino Stewart	Before, During and After Hurricane Harvey: Performance of an ALERT2 Flood Warning System During a Category 4 Hurricane Ryan Guerrero, Campbell Scientific Incorporated	2.00pm – 2.15pm Using Sydney Flood Data for Strategic Purposes Isabelle Testoni, DPIE 2.15pm – 2.30pm Australian Floods in the 21st Century: A Database of the First Decades Sarah Odgers, National Centre for Flood Research

2.10pm FT 1: Gowrie Creek Flood Mitigation Works Tour depart (includes afternoon tea)

2.30pm – 3.00pm	Back to Basics – Testing the Validity of Wollongong Local Guidance for ARR2019 Heath Sommerville Rhelm	Purchase or Move? Lessons Learnt from Historic Property-based Floodplain Management Schemes Alana Mosely	Automated Post-event Analysis for the Parramatta Flash Flood Forecast System Luke Kidd, Royal HaskoningDHV	2.30pm – 2.45pm Innovative 3D Data Collection to Inform Farm Dam Failure Response Planning Tania Wilson, South Australian State Emergency Service 2.45pm – 3.00pm Flooding Impacts of Regional Farm Dams on Lowes Creek Maryland Precinct Development Maria Pinto, Camden Council
-----------------	---	--	---	--

3.10pm FT2: Grantham 2011 Flood Tour & FT3: 2012 Toowoomba Never Floods Exhibition at Cobb+Co Museum depart (includes afternoon tea)

5.30pm Close of Day One

7.00pm Casual Dinner
The Annex
Sponsored by WMAwater

Thursday 21st May 2020

Councillors Choice Breakfast Session

7.30am Opportunity for Councillors to raise and discuss issues of importance to Local Government

Conference Registration

8.30am Lobby, Empire Theatre

Session 4 9.00am – 10.30am	4A: Flood Policy, Guidance, Best Practice	4B: Social and Cultural Aspects	4C: Flood Prediction and Warning	4D: Workshop
-------------------------------	---	---------------------------------	----------------------------------	--------------

Location

Chair

9.00am – 9.30am	Defining Flood Risk in the Brisbane River Catchment – Australia's Greatest Risk Philip Haines, BMT	Towards a Model of Community Resilience for Flood Events in Australia Willow Forsyth, University of Newcastle	Innovations in Automated Alerting for Fast Responding Rivers Alex Clifton, Bureau of Meteorology
9.30am – 10.00am	Strategic Management of Flood Risk for Communities Duncan Mcluckie, DPIE	Both Flood and Community Engagement Specialists Working Together for Flood-informed Communities Stephen Yeo, Infrastructure NSW	Development of a Best Practice Flood Warning System Allan Herring, Brisbane City Council
10.00am – 10.30am	Distinguishing Between the Need for Flood Impact or Flood Risk Assessment Chris Thomas, Advisian	Flood Words: How Can We Communicate Them More Effectively to the Public? Neil Dufty, Molino Stewart	Building a State-of-the-art 3Di Flood Hazard Model for the City of Yangon, Myanmar Cornelis Digemanse, Royal HaskoningDHV

10.30am – 11.00am Morning Tea & Poster Presentations

11.00am – 12.45pm Session 5 – Plenary Empire Theatre

11.00am	Welcome to Day Two
11.05am	State and Territory Presentations
11.55am	Keynote Speaker
12.20pm	Keynote Speaker
12.35pm	Sponsor Address

12.45pm – 1.45pm Lunch & Poster Presentations

Session 6 1.45pm – 3.15pm	6A: Monetization of Floods	6B: Flood Stories and Case Studies	6C: Land Use Planning	6D: 10 Minute
------------------------------	----------------------------	------------------------------------	-----------------------	---------------

Location

Chair

1.45pm – 2.15pm	New Flood Stage-damage Curves for South East Queensland Sharmil Markar, WRM	A Tale of Two Cities Carrie Dearnley, BMT	Defining the Flood Planning Area for Overland Flow - Alternative Approaches Valerie Tulk, Northern Beaches Council	1.45pm – 2.00pm TC Debbie Flood Studies - Lessons Learnt Robyn Birkett, Mackay Regional Council
-----------------	---	---	--	--

2.00pm – 2.15pm

Ross River Dam, February 2019 – Successful Mitigation of Five Larger Peak Flows

Teegan Burke,
BMT

2.15pm – 2.30pm

Integrating Environmental Criteria in Statutory Floodplain Management Plans to Protect Floodplain Ecology

Simon Hunter,
Department of Planning, Industry and Environment

2.30pm – 2.45pm

In-situ Soil Moisture Monitoring in South Australia to Improve Flash Flood Forecasts

Dinesh Ratnayake,
University of South Australia (UniSA)

2.15pm –
2.45pm

Flood Damage Mechanisms in Contemporary Housing
Andrew Dyer, IAG

Presentation TBA

Guidelines for Development in Flood Affected Areas of East Gippsland
Michael Cawood,
Hydrology & Risk Consulting

2.45pm –
3.15pm

Improving Flood Management Economic Decision Making with 'fit for Purpose' Tools
Ngcebo Gwebu,
Jacobs

Townsville's 2019 Monsoonal Flood Event – Not Just a Ross River Flood
Wesley Bailey,
AECOM

2.45pm – 3.00pm
The Flood Resilient Homes Program – Empowering Residents To Live Through Floods
Jacqueline Brien,
Brisbane City Council

2.45pm – 3.00pm
Flood Considerations for Road Managers
Danny Rose,
Tweed Shire Council

3.00pm – 3.15pm
The Assessment of Flood Vulnerability Using Socio-economic Indices
Alireza Sadeghi Pouya
Townsville City Council

3.00pm – 3.15pm
Flood Mitigation on Large Scale Infrastructure – Challenges and a Way Forward
Ben Mason,
Jacobs

3.15pm – 3.45pm

Afternoon Tea & Poster Presentations

Session 7

3.45pm – 5.30pm

7A: FMA Annual General Meeting

7B: Workshop

Facilitated by:

Location

3.45pm –
5.30pm

ALL FMA MEMBERS PLEASE ATTEND

Workshop TBC

5.30pm

Close of Day Two

Conference Dinner & Floodplain Management Australia Excellence Awards

7.00pm

Venue TBC

Sponsored by Royal HaskoningDHV

Friday 22nd May 2020

8.30am **Conference Registration**
Lobby, Empire Theatre

9.00am – 10.20am **Session 8 – Plenary**
Empire Theatre

9.00am **Welcome to Day Three**
9.05am **Silver Sponsor Address**
9.10am **Presentation by Winner of FMA-NRMA Insurance Flood Risk Management Project of the Year Award**
9.25am **Silver Sponsor Address**
9.30am **Keynote Address**
10.10am **2021 FMA National Conference Presentation**

10.20am – 10.50am **Morning Tea & Poster Presentations**

Session 9 10.50am – 12.50pm	9A: Monetization of Floods	9B: Flood Prediction and Warning	9C: Land Use Planning	9D: - Emergency Preparedness and Management, Recovery
--------------------------------	-------------------------------	-------------------------------------	-----------------------	---

Location

Chair

10.50am – 11.20am	Prioritising Investment in Disaster Risk Reduction – the Applicability of Queensland and National Frameworks Jimmy Scott, Queensland Reconstruction Authority	Real-time Flood Forecasting and Dam Operations for the Ross River Phillip Jordan, HARC	A Framework for Resilient Development on Floodplains Mike Edwards, Department of Environment, Land, Water and Planning (Vic)	Developing an Integrated Flood, Coastal and Storm Tide Forecasting System in Noosa Daniel Rodger, JBP
11.20am – 11.50am	“Coast and Benefit”: Economic Analysis of Multi-Hazard Coastal Protection Measures Filippo Dall’Osso, Molino Stewart	Overview of Sunshine Coast Council’s Rainfall, Wind and Water Level Gauging Jeff Morrin, Sunshine Coast Council	Matching Land Use Tolerability and Flood Risk in the Brisbane River Floodplain Shannon Haines, Ethos Urban	Saving Lives from Floods Shayne Baker, Royal Life Saving Society Australia
11.50am – 12.20pm	How Much is It Worth? Economic Values for Floodplain Management Rhys Thomson, Rhelm	Parametric Rainfall Approach to Flood Forecasting: Lessons from the Townsville Monsoon Wesley Bailey, AECOM	Dilemmas of a Land-use Planner in Hawkesbury’s Extreme Flood Plains Sunehla Bala, Hawkesbury City Council	The Only Way Is Up – Flood Evacuation in Parramatta CBD Josh Nadiroglu BG&E
12.20pm – 12.50pm	Nationwide Flood Forecasting and Analysis – An Insurance Perspective Cameron Druery, Advisian	Flooded Road Warning Systems in Flash Flood Catchments Leanne Salter, Moreton Bay Regional Council	A Risk-based Approach to Contemplating the F-word (freeboard) Portia Rigby, Moreton Bay Regional Council	12.20pm – 12.35pm Calibrating Operational Flood Forecasting Models: when is 'Good Enough' Good Enough? Alex Cornish, Bureau of Meteorology 12.35pm – 12.50pm Lessons from SA’s Largest Expansion of Flood Warning Services in 20 Years Belinda Skilton, Department for Environment and Water

12.50pm – 1.40pm		Lunch & Poster Presentations		
Session 10 1.40pm – 3.10pm	10A: Flood Policy, Guidance, Best Practice, Monetization of Floods	10B: Modelling	10C: Infrastructure Projects and Asset Management	10D: 10 Minute
Location				
Chair				
				1.40pm – 1.55pm The Influence of Floodplain Characteristics on Property Annual Average Damage Estimates Hayden Guse, WRM Water & Environment
1.40pm – 2.10pm	National Guidelines for Flood Barriers Belinda Barker, AWMA	Testing of New HEC-RAS 5.1 Rain-On-Grid Solution Mark Forest, HDR	Structural Revolution: Utilising Implant Structures for Resilient Flood Protection Infrastructure Jasper Creighton J Steel Australasia	1.55pm – 2.10pm Tsunami Guide for Queensland Brenton Phillips, Queensland Fire and Emergency Services
				2.10pm – 2.25pm Tips and Traps when Using ARR2019 Anthony Ladson, Moroka
2.10pm – 2.40pm	Non-Worsening Criteria: When Best Practice Isn't Resilient Laurence Allan, Allan & Dennis	Flood Study of the Lower Derwent Catchment and Cascade of Hydropower Dams Bill Cohen, Entura	A Flood Resilient Bruce Highway for North Queensland: Haughton River Floodplain Upgrade Tina O'Connell, HDR	2.25pm – 2.40pm Tasmanian Statewide Strategic Flood Mapping: Challenges and Uncertainties Audrey Lau, Tasmania SES
				2.40pm – 2.55pm Planning to Action: Enabling Communities to Manage Flood Risk Rebecca Dick, DELWP
2.40pm – 3.10pm	Working Together for the Best Possible Flood Warnings in Queensland Graeme Milligan, Queensland Reconstruction Authority	Application of Australia Rainfall and Runoff 2019 Guidelines for Overland Flow Modelling and Mapping Janaka Gunawardena, Logan City Council	Terrestrial LiDAR – Lessons Learnt Both Practical and Technical Luke Ferguson Mackay Regional Council	2.55pm – 3.10pm A Flood Resilient Victoria: Using Technology to Provide Multiple Benefits Kedar Kumthekar Department of Environment, Land, Water and Planning
3.10pm – 3.40pm				
Conference Wrap-up with Afternoon Tea <i>Lobby, Empire Theatre</i>				