



## Conference Program

(subject to change)

### Tuesday 13 May 2025

8.00am – 12.30pm **Morning Pre-Conference Workshop: A hands-on introduction to a simple Monte Carlo engine compatible with all major Australian hydrologic models** *(additional cost half day workshop)*

12.30pm – 5.00pm **Afternoon Pre-Conference Workshop: Implementing flood research from Victoria and South Australia – the challenges and opportunities** *(additional cost half day workshop)*

5.00pm – 7.00pm **Conference Registration & Welcome Reception**  
*Trade Exhibition Area*

7.30pm – 9.30pm **YFM Function**  
*Beer DeLuxe Federation Square*  
(open to all delegates registered for the Conference)

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### Wednesday 14 May 2025

7.45am **Conference Registration**

8.30am – 10.05am **Session 1 – Opening Plenary**

Welcome to Country

Welcome from Floodplain Management Australia

**Sue Ribbons**, President, *Floodplain Management Australia*

Welcome from Victorian Minister (TBC)

Conference Keynote Address and Official Opening

**Brendan Moon**, *Coordinator-General of the National Emergency Management Agency (NEMA)*

Platinum Sponsor Address

Gold Sponsor Address

10.05am – 10.35am **Morning Tea + Poster Presentations**

Session 2 10.35am – 12.30pm	2A: Flood policy, guidance and best practice	2B: Emergency preparedness, response & recovery	2C: Social sciences, human behaviour and communication	2D: Managing growth and land use planning
10.35am – 11.00am	The evolution of flood mapping in Melbourne: lessons learned and forward planning <b>Sina Akram</b> <i>Melbourne Water</i>	Knowing the flood boundary: Improving timely flood extent mapping in emergency response <b>Melissa Daley</b> <i>NSW SES</i>	How can we improve community responses to flood warnings? <b>Neil Dufty</b> <i>Water Technology</i>	Risk based decision making for non-stationary flood behaviour in planning decisions <b>Rob Swan</b> <i>HARC</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
11.05am – 11.30am	\$49 million Flood Risk Management Program – 1 year to go <b>Cheryl – Lee Fitzgerald</b> <i>Queensland Reconstruction Authority</i>	Emergency Levees – Victoria's experience before, during and after the 2022 floods <b>Steven Muncaster</b> <i>VICSES</i>	Communication of Uncertainty across the flash flood warning value chain <b>Carla Mooney</b> <i>Bureau of Meteorology</i>	Implementing Flood Studies: Learnings from Amendment C131 to the Latrobe Planning Scheme <b>Tegan Mckenzie</b> <i>Latrobe City Council</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
11.35am – 12.00pm	How multi-hazard Disaster Adaptation Plans can unlock regional flood risk management outcomes <b>Nerida Buckley</b> <i>NSW Reconstruction Authority</i>	Considerations for utilising flood sirens in a Total Flood Warning System <b>Jess Carey</b> <i>Stantec</i>	Engaging for community action & behaviour change <b>Liz Frazer</b> <i>VICSES</i>	Assessing flood risk for sub regional land planning in Perth <b>Terry Kefalianos</b> <i>Department of Water and Environmental Regulation</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
12.05pm – 12.30pm	Implementing the Flood Risk Management Framework in NSW <b>Duncan McLuckie</b> <i>NSW DCCEEW</i>	Piecing the puzzle together - subsectors optimising emergency management and warning strategies <b>Kirra Waine, NSW SES</b>	"Ground roots", really connecting with Vulnerable Communities in flood-prone areas <b>Sue Sheldrick,</b> <i>VICSES</i>	A History of Flood Planning Policy in Victoria and what comes next <b>Andy Sheehan</b> <i>Stantec</i>
<b>12.30pm – 1.30pm Lunch + Poster Presentations</b>				
Session 3 1.30pm – 2.55pm	3A: Flood policy, guidance and best practice	3B: Managing growth and land use planning	3C: New technology and research	3D: 10 Minute Presentations
1.30pm – 1.55pm	So you have adopted a new flood study? Great! But what now? <b>Paul Hackney</b> <i>City of Parramatta Council</i>	Raising the flood planning level: A Hawkesbury Story <b>Colleen Haron</b> <i>Hawkesbury City Council</i> & <b>Monique Retallick,</b> <i>WMAwater</i>	Narrowing at-site flood frequency analysis using simulations from the AWRA-L landscape model <b>Julien Lerat</b> <i>CSIRO</i>	<b>1.30pm – 1.40pm</b> A review on Nature-based Solutions for catchment-scale flood mitigation <b>Prabhasri Herath &amp; Roslyn Prinsley</b> <i>Australian National University</i> <b>1.45pm – 1.55pm</b> Exploring the Role of Bathymetric Survey in Fluvial and Pluvial Flood Assessments. <b>Daniel Esposito</b> <i>WMS Engineering</i>

5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
2.00pm – 2.25pm	Assessing business resilience: 2022 Northern rivers floods <b>Ken Dale</b> <i>Geoscience Australia</i>	Managing flood and climate in Melbourne: The need for integrated urban planning <b>Jessica Hellier</b> <i>Melbourne Water</i>	Embedding Innovations from Large-Scale Projects to Enhance Delivery across All Project Scales <b>Adam Parkes</b> <i>Jacobs</i> International presenter	2.00pm – 2.10pm Implementing a soil moisture monitoring network for hydrological purposes in South Australia <b>Hassan Ranjbar</b> <i>Department for Environment and Water</i>
				2.15pm – 2.25pm A Flood Forecasting System in Your Pocket – Expanding Flood Intelligence Reach <b>Cameron Druery</b> <i>Worley</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
2.30pm – 2.55pm	Riverine, flash flooding, overland flow modelling, where should we draw the line? <b>Mahnaz Sedigh</b> <i>City of Gold Coast</i>	Assessing cascading flood hazards: a case study from Aotearoa New Zealand <b>Damian Debski</b> <i>Jacobs</i> International presenter	Lake MacDonald Temporary Cofferdam – Rock Bag Physical Model Testing <b>Ben Patterson</b> <i>Royal HaskoingDHV</i>	2.30pm – 2.40pm Flood Evacuation Model 3.0 <b>Paul Fuller</b> <i>NSW Reconstruction Authority</i>
				2.45pm – 2.55pm Python Scripting for Workflow Efficiency with GitHub Copilot and AI-Driven Tools <b>Elliot Jones</b> <i>Arup</i>
3.00pm – 5.30pm <b>Session 4 - Field Trips</b>				
Field trips depart at 3.00pm (sharp) and will return approximately 5.30pm, afternoon tea is included on all tours.				
<b>Close of Day One</b>				
7.00pm – 10.00pm	<b>Casual Dinner</b> <i>The Australian Sports Museum, Melbourne Cricket Ground</i> Sponsored by 			

Session 5 8.30am – 10.25am	5A: Flood policy, guidance and best practice	5B: Infrastructure projects and asset management	5C: Modelling and flood data	5D: 10 Minutes
8.30am – 8.55am	Shelter-in-place guideline for flash flooding - NSW land use planning guideline <b>Melanie Schwecke</b> NSW DPHI	The True Cost of Natural and Beneficial Functions <b>Scott Blossom</b> <i>Blossom Consulting and Engineering</i> International presenter	Is continuous simulation an overlooked modelling technique for floodplain management? <b>Prawi Woods</b> <i>Alluvium Consulting</i>	8.30am – 8.40am Flood Knows No Boundaries, and Neither Does AI <b>Blake Marxsen</b> WMS 8.45am – 8.55am Potential Application of Artificial Intelligence in Flood Operations for Regulated Water Storages <b>Md Atiquzzaman</b> WaterNSW
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
9.00am – 9.25am	Flood Risk Awareness and Preparedness: Understanding regional similarities and differences <b>Rachel Pagitz</b> NSW Reconstruction Authority	Modern solutions to flood protection infrastructure – Rangitāiki River floodway and spillway <b>Niroy Sumeran</b> <i>Bay of Plenty Regional Council</i> International presenter	With limited time, how do we select which flood events to simulate? <b>Niels Fraehr</b> <i>Jacobs</i>	9.00am – 9.10am Evaluation and Testing of Enviromon Alternative for Flood Warning Intelligence <b>Elton Chong</b> <i>City of Moreton Bay</i> 9.15am – 9.25am Access All Areas- Evolution of The Somerset RC Community Flood Information Portal <b>Trent Laves, Worley</b>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
9.30am – 10.25am	Enduring Resilience for Queenslanders – The Resilient Homes Fund <b>Sam Bowstead</b> <i>Resilient Homes Fund, Department of Housing and Public Works &amp; Vina Varsani, Queensland Reconstruction Authority</i> <i>Changeover</i>	Transforming Te Awa Kairangi/Hutt River – More than Meets the Eyes <b>Sharyn Westlake</b> <i>Greater Wellington Regional Council</i> International presenter	Beyond Monaco: Monte Carlo analysis for application to Australian hydrologic models <b>Chris Ryan</b> Catchment Simulation Solutions	9.30am – 9.40am Upgrading the Longest Levee in Sydney You've Never Heard of-St Marys Levee <b>Monica Laut</b> <i>Royal HaskoningDHV</i> 9.45am – 9.55am Fitzroy Bridge Replacement Design and Construction <b>Sima Safarkhani, BG&amp;E</b>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
		Making Room for the Ōtākaro Avon River – A Post Earthquake Story <b>Tom Parsons</b> <i>Storm Environmental</i> International presenter	Simplifying the Joint Probability Approach for Estimating Concurrent Rainfall AEPs <b>Ash Rasheed</b> HARC	10.00am – 10.10am Assessing the longevity of traditional hydrologic modelling tools in Australia <b>Sophia Buchanan</b> <i>Jacobs</i>

				10.15am – 10.25am Private Property, Public Approval: The Challenge and Cost of River Views <b>Andrew Morris</b> <i>Royal HaskoningDHV</i>
10.25am – 10.55am	Morning Tea + Poster Presentations			
10.55am – 12.15pm	Session 6 – Plenary			

Welcome to Day Two


Sponsor Address

Australia and New Zealand Updates 2025

Sponsor Address

Egowra Flood Warning System presented by St Joseph’s Catholic Primary School STEM & Rhelm

12.15pm – 1.10pm	Lunch + Poster Presentations			
Session 7 1.10pm – 3.05pm	7A: Infrastructure projects and asset management	7B: Council flood case studies and stories	7C: Environmental aspects, climate change, coastal hazards & adaptation	7D: 10 Minute Presentations
1.10pm – 1.35pm	Levees, where art thou? <b>James McMillan</b> <i>Streamology</i>	Lismore Flood – Then and Now <b>Steve Kreig</b> <i>Lismore City Council</i>	The Crystal Ball- Past studies informing future decisions in a changing climate <b>Eliza Towndrow</b> <i>WMAwater</i>	1.10pm – 1.20pm Whole of Catchment Flood Modelling for Greater Melbourne to Improve Emergency Preparedness <b>Ross Butler</b> <i>VICSES</i>
				1.25pm – 1.35pm Flood Risk Management Plan for a Remote, Cyclone-prone Community <b>Lauchlan Bye,</b> <i>JB Pacific</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
1.40pm – 2.05pm	Turning the Line into a Levee <b>Ed Henty</b> <i>Dryside Engineering</i>	Remote Flood Monitoring and Warning System in Quilpie Shire <b>Eng Lim</b> <i>Quilpie Shire Council</i>	Flood to Flourish: Collaborating for community-led flood resilience <b>Adriana Keating</b> <i>Monash Sustainable Development Institute</i>	1.40pm – 1.50pm To Block or not to Block - that is the question <b>Angela Halcrow</b> <i>NSW DCCEEW</i>
				1.55pm – 2.05pm Developing Exposure databases for future time horizons in the Hawkesbury-Nepean Valley <b>Stephen Yeo,</b> <i>NSW Reconstruction Authority</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>

2.10pm – 2.35pm	Fighting the Markham – Flood Defences in PNG <b>Alan Rotsey</b> <i>Royal HaskoningDHV</i>	Managing Launceston’s Floodplain: Past Lessons, Current Challenges, Future Actions <b>Erica Deegan</b> <i>City of Launceston</i>	Are our coastal floodplain management assumptions changing with the climate? <b>Michael South</b> <i>Venant Solutions</i>	2.10pm – 2.20pm The Wallis Creek heavy rainfall and inundation event July 2022 <b>Carlos Velasco-Forero</b> <i>Bureau of Meteorology</i>
				2.25pm – 2.35pm <i>The Hazards Insurance Partnership: addressing the insurance protection gap in Australia</i> <b>Henry Zovaro</b> <i>National Emergency Management Agency</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
2.40pm – 3.05pm	How do we justify flood impacts from transport infrastructure? <b>Greg Roads</b> <i>WRM Water and Environment</i>	Analysing the Broader Risks of Publicising Flood Information: A Council Case Study <b>Naomi Harris</b> <i>Blacktown City Council</i>	Revitalising Forest Creek: A collaborative Approach to Sustainable Floodplain Management <b>Alex Simmons</b> <i>SWM Consulting</i> YFM Presenter	2.40pm – 2.50pm Breaking Planning Amendment Boundaries between Flood Studies and Planning Schemes in Victoria <b>Amy Bell, North Central CMA &amp; Nathan Lord,</b> <i>Mount Alexander Shire Council</i>
				2.55pm – 3.05pm Stakeholder driven insights for enhancing flood information management in South Australia <b>Myles Fauser</b> <i>Department for Environment and Water</i>
3.05pm – 3.35pm	<b>Afternoon Tea + Poster Presentations</b>			
Session 8 3.35pm – 5.30pm	<b>FMA Annual General Meeting</b>			
	<b>FMA Annual General Meeting -</b> <i>“All FMA Members please attend”</i>			
	<b>Close of Day Two</b>			
7.00pm – 11.30pm	<b>Conference Dinner &amp; Floodplain Management Australia IAG Excellence Awards</b> <i>Grand Ballroom, Pullman Melbourne on the Park</i> <b>Sponsored by</b>			
				

Friday 16 May 2025

8.00am

Conference Registration

8.30am –  
9.50am

Session 9 – Plenary

Welcome to Day Three

Presentation by Winner of FMA - IAG Flood Risk Management Project of the Year Award

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Conference Keynote Address

**Bhiamie Williamson**, *Monash University*

Sponsor Address

2026 FMA National Conference Announcement

9.50am –  
10.20am

Morning Tea + Poster Presentations

Session 10 10.20am – 12.15pm	10A: Flood policy, guidance and best practice	10B: Modelling ARR	10C: Infrastructure projects and asset management	10D: Emergency preparedness, response and recovery
10.20am – 10.45am	Hurricane Helene: Impacts, Challenges, and Breaking the Damage Rebuild Damage Cycle <b>Doug Bellomo</b> <i>AECOM</i> <i>International presenter</i>	Improving flood frequency analysis by estimating empirical regional priors <b>Mark Babister</b> <i>WMAwater</i>	Securing, Simplifying and Upgrading Australia's Flood Infrastructure Network <b>Ella Harrison</b> <i>Bureau of Meteorology</i>	Where is the floodway? Testing the Indicator Technique in Urban Floodplains <b>Louise Collier</b> <i>Rhelm</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
10.50am – 11.15am	Flood Risk to Life Tolerability: What do we know? <b>Rhiannon Garrett</b> <i>Water Technology</i>	The area that ARR forgot: AI-based best practices for ephemeral lake hydrology <b>Krey Price</b> <i>Surface Water Solutions</i>	<i>Presentation TBC</i>	Regional Flood Evacuation: Can it be done? <b>Steven Molino</b> <i>Water Technology</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
11.20am – 11.45am	Development and Application of an Urban Flood Risk Index <b>Markus Eder</b> <i>WMAwater</i>	What ARR we to do about climate change? <b>Ben Tate</b> <i>Water Technology</i>	Complexities of delivering flood mitigation at scale; A Central Victorian case study <b>Priyanka Wickramasuriya</b> <i>Stantec</i>	Floodways and flooded roads – are we sending mixed messages to drivers? <b>Daniel Sheehy</b> <i>WRM Water &amp; Environment</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
11.50am – 12.15pm	Ensemble modelling: selecting a single output <b>Tony Ladson</b> <i>Moroka</i>	Implications of the New ARR Climate Change Factors on Flood Estimation <b>Janaka Gunawardena</b> <i>Logan City Council</i>	Upgrading Existing Infrastructure - Not for the Faint-Hearted <b>Leonie Gray</b> <i>Fairfield City Council</i>	How to develop Emergency Plans for sites affected by Multiple Food Mechanisms <b>Alireza Pouya</b> <i>BMT</i>

12.15pm –

Lunch + Poster Presentations

1.05pm				
Session 11 1.05pm – 3.00pm	11A: Infrastructure projects and asset management	11B: Social sciences, human behaviour and communication	11C: Flood policy, guidance and best practice	11D: 10 Minute Presentations
1.05pm – 1.30pm	What the 2022 NSW Floods Taught Us About Building Stability <b>Rhys Thomson</b> <i>Rhelm</i>	Using Flood Risk Evidence to Drive Transformative Recovery in Indigenous Communities <b>Stephen Dredge</b> <i>Meridian Urban</i>	A new approach to Flood Mitigation Assessment <b>Alice Lisitsa</b> <i>BG&amp;E</i>	1.05pm – 1.15pm Hydrological Analysis of a catchment using RORB, RRR and HEC-HMS Models <b>Jotinder Singh</b> <i>University of South Australia</i>
				1.20pm – 1.30pm Challenges of urban flood modelling – lessons we are learning <b>Suresh Hettiarachchi</b> <i>Alluvium</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
1.35pm – 2.00pm	Extending Geoscience Australia's suite of flood vulnerability models <b>Ken Dale</b> <i>Geoscience Australia</i>	Australia's Riverine Flood Seasonal Outlook – Challenges in the public's understanding <b>Steven Muncaster</b> <i>Victoria State Emergency Service</i>	Tasmanian flood planning informed by statewide flood mapping and stakeholder collaboration <b>Emma Maratea</b> <i>Rhelm</i>	1.35pm – 1.45pm Hydrodynamic model development for a semi-enclosed coastal lagoon in eastern Australia <b>Songyan Yu</b> <i>City of Gold Coast</i>
				1.50pm – 2.00pm How can the model be wrong - I validated it <b>Glenn Mansell</b> , Stantec
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
2.05pm – 2.30pm	Resilient buildings - practical city responses to a changing climate. <b>Phil Young</b> <i>Brisbane City Council</i>	Improving flood knowledge and practices in Fiji through enhanced engagement <b>Tom Stewart</b> <i>Alluvium Consulting</i>	Conveyance Mapping on an LGA scale <b>Donnie Carroll</b> <i>DCPM</i>	2.05pm – 2.15pm How much is too much or too little when filtering results? <b>Eoghain O'Hanlon</b> <i>JB Pacific</i>
				2.20pm – 2.30pm Investigating Implications of Updated Climate Change Considerations in Australian Rainfall and Runoff <b>Rachel Allen</b> , Jacobs
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
2.35pm – 3.00pm	Disaster insurance market in NSW: perceptions, preferences and supply <b>Ignatius Forbes</b> <i>NSW Reconstruction Authority</i>	Empowering Communities around Flood Awareness: A strategic collaboration between Humbli and essential services. <b>Brendan Maggs</b> , <i>Humbli</i>	Analysing and funding flood mitigation for multiple benefits – an International perspective <b>Cathryn Spence</b> <i>AECOM</i>	2.35pm – 2.45pm Adapting to ARR Climate Change Updates During A Flood Study Program <b>Thomas Ward</b> , KBR
				2.50pm – 3.00pm Modern flood frequency analysis in plain English and Python <b>Lindsay Millard</b> , WRM



				<i>WRM Water &amp; Environment</i>
<b>3.00pm – 3.30pm</b>	<b>Conference Wrap Up with Afternoon Tea</b>			