



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)

Sponsored by



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 AM, *Coordinator-General of the National Emergency Management Agency*

Platinum Sponsor Address

Anna Lucas, *Melbourne Water*

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 Sina Akram <i>Melbourne Water</i>	Knowing the flood boundary: Improving timely flood extent mapping in emergency response Melissa Daley, NSW SES	How can we improve community responses to flood warnings? Neil Dufty <i>Water Technology</i>	Risk based decision making for non-stationary flood behaviour in planning decisions Rob Swan & Carolyn Tsioulos, HARC
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 Cheryl – Lee Fitzgerald <i>Queensland Reconstruction Authority</i>	Emergency Levees – Victoria's experience before, during and after the 2022 floods Steven Muncaster <i>VICSES</i>	Communication of Uncertainty across the flash flood warning value chain Carla Mooney <i>Bureau of Meteorology</i>	Implementing Flood Studies: Learnings from Amendment C131 to the Latrobe Planning Scheme Tegan Mckenzie <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 Nerida Buckley <i>NSW Reconstruction Authority</i>	Considerations for utilising flood sirens in a Total Flood Warning System Jess Carey <i>Stantec</i>	Engaging for community action & behaviour change Liz Frazer <i>VICSES</i>	Assessing flood risk for sub regional land planning in Perth Terry Kefalianos <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 Duncan McLuckie <i>NSW DCCEEW</i>	Piecing the puzzle together - subsectors optimising emergency management and warning strategies Kirra Waine & Claire Flashman, NSW SES	"Ground roots", really connecting with Vulnerable Communities in flood-prone areas Sue Sheldrick, <i>VICSES</i>	A History of Flood Planning Policy in Victoria and what comes next Andy Sheehan <i>Stantec</i>
12.30pm – 1.30pm Lunch + Poster Presentations				
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? Paul Hackney <i>City of Parramatta Council</i>	Raising the flood planning level: A Hawkesbury Story Colleen Haron <i>Hawkesbury City Council & Monique Retallick, WMAwater</i>	Narrowing at-site flood frequency analysis using simulations from the AWRA-L landscape model Julien Lerat <i>CSIRO</i>	<p>1.30pm – 1.40pm A review on Nature-based Solutions for catchment-scale flood mitigation Prabhasri Herath & Roslyn Prinsley <i>Australian National University</i></p> <p>1.45pm – 1.55pm Exploring the Role of Bathymetric Survey in Fluvial and Pluvial Flood Assessments Daniel Esposito</p>

				<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 Ken Dale <i>Geoscience Australia</i>	Managing flood and climate in Melbourne: The need for integrated urban planning Jessica Hellier <i>Melbourne Water</i>	Embedding Innovations from Large-Scale Projects to Enhance Delivery across All Project Scales Adam Parkes <i>Jacobs</i> International presenter	2.00pm – 2.10pm Implementing a soil moisture monitoring network for hydrological purposes in South Australia Hassan Ranjbar <i>Department for Environment and Water</i>
				2.15pm – 2.25pm A Flood Forecasting System in Your Pocket – Expanding Flood Intelligence Reach Cameron Druery <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? Mahnaz Sedigh <i>City of Gold Coast</i>	Assessing cascading flood hazards: a case study from Aotearoa New Zealand Damian Debski <i>Jacobs</i> International presenter	Lake MacDonald Temporary Cofferdam – Rock Bag Physical Model Testing Ben Patterson <i>Royal HaskoingDHV</i>	2.30pm – 2.40pm Flood Evacuation Model 3.0 Paul Fuller <i>NSW Reconstruction Authority</i>
				2.45pm – 2.55pm Python Scripting for Workflow Efficiency with GitHub Copilot and AI-Driven Tools Elliot Jones <i>Arup</i>
3.00pm – 5.30pm Session 4 - Field Trips				
Field trips depart at 3.00pm (sharp) and will return approximately 5.30pm, afternoon tea is included on all tours.				
Close of Day One				
7.00pm – 10.00pm	Casual Dinner <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 Melanie Schwecke NSW DPHI	The True Cost of Natural and Beneficial Functions Scott Blossom <i>Blossom Consulting and Engineering</i> International presenter	Is continuous simulation an overlooked modelling technique for floodplain management? Prawi Woods <i>Alluvium Consulting</i>	8.30am – 8.40am Flood Knows No Boundaries, and Neither Does AI Blake Marxsen WMS 8.45am – 8.55am Potential Application of Artificial Intelligence in Flood Operations for Regulated Water Storages Md Atiquzzaman 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 Rachel Pagitz & Tara Venturini NSW Reconstruction Authority	Modern solutions to flood protection infrastructure – Rangitāiki River floodway and spillway Niroy Sumeran <i>Bay of Plenty Regional Council</i> International presenter	With limited time, how do we select which flood events to simulate? Niels Fraehr <i>Jacobs</i>	9.00am – 9.10am Evaluation and Testing of Enviromon Alternative for Flood Warning Intelligence Elton Chong <i>City of Moreton Bay</i> 9.15am – 9.25am Access All Areas- Evolution of The Somerset RC Community Flood Information Portal Trent Laves, Worley
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 Sam Bowstead <i>Resilient Homes Fund, Department of Housing and Public Works & Vina Varsani, Queensland Reconstruction Authority</i> <i>Changeover</i>	Transforming Te Awa Kairangi/Hutt River – More than Meets the Eyes Sharyn Westlake <i>Greater Wellington Regional Council</i> International presenter	Beyond Monaco: Monte Carlo analysis for application to Australian hydrologic models Chris Ryan Catchment Simulation Solutions	9.30am – 9.40am Upgrading the Longest Levee in Sydney You've Never Heard of-St Marys Levee Monica Laut <i>Royal HaskoningDHV</i> 9.45am – 9.55am Fitzroy Bridge Replacement Design and Construction Sima Safarkhani, BG&E
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 Tom Parsons <i>Storm Environmental</i> International presenter	Simplifying the Joint Probability Approach for Estimating Concurrent Rainfall AEPs Ash Rasheed HARC	10.00am – 10.10am Assessing the longevity of traditional hydrologic modelling tools in Australia Sophia Buchanan <i>Jacobs</i>

				10.15am – 10.25am Private Property, Public Approval: The Challenge and Cost of River Views Andrew Morris <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

St Josephs Catholic Primary School STEM Eugowra Flood Warning System supported by NSW Reconstruction Authority and 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? James McMillan <i>Streamology</i>	Lismore Flood – Then and Now Steve Kreig <i>Lismore City Council</i>	The Crystal Ball- Past studies informing future decisions in a changing climate Eliza Towndrow <i>WMAwater</i>	1.10pm – 1.20pm Whole of Catchment Flood Modelling for Greater Melbourne to Improve Emergency Preparedness Ross Butler <i>VICSES</i>
				1.25pm – 1.35pm Flood Risk Management Plan for a Remote, Cyclone-prone Community Lauchlan Bye, <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 Ed Henty <i>Dryside Engineering</i>	Remote Flood Monitoring and Warning System in Quilpie Shire Eng Lim <i>Quilpie Shire Council</i>	Flood to Flourish: Collaborating for community-led flood resilience Adriana Keating <i>Monash Sustainable Development Institute</i>	1.40pm – 1.50pm To Block or not to Block - that is the question Angela Halcrow <i>NSW DCCEEW</i>
				1.55pm – 2.05pm Developing Exposure databases for future time horizons in the Hawkesbury-Nepean Valley Stephen Yeo, <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 Alan Rotsey <i>Royal HaskoningDHV</i>	Managing Launceston’s Floodplain: Past Lessons, Current Challenges, Future Actions Erica Deegan <i>City of Launceston</i>	Are our coastal floodplain management assumptions changing with the climate? Michael South <i>Venant Solutions</i>	2.10pm – 2.20pm The Wallis Creek heavy rainfall and inundation event July 2022 Carlos Velasco-Forero <i>Bureau of Meteorology</i> 2.25pm – 2.35pm <i>The Hazards Insurance Partnership: addressing the insurance protection gap in Australia</i> Henry Zovaro <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? Greg Roads <i>WRM Water and Environment</i>	Analysing the Broader Risks of Publicising Flood Information: A Council Case Study Naomi Harris <i>Blacktown City Council</i>	Revitalising Forest Creek: A collaborative Approach to Sustainable Floodplain Management Alex Simmons <i>SWM Consulting</i> <i>YFM Presenter</i>	2.40pm – 2.50pm Breaking Planning Amendment Boundaries between Flood Studies and Planning Schemes in Victoria Amy Bell, North Central CMA & Nathan Lord, <i>Mount Alexander Shire Council</i> 2.55pm – 3.05pm Stakeholder driven insights for enhancing flood information management in South Australia Myles Fauser <i>Department for Environment and Water</i>
3.05pm – 3.35pm	Afternoon Tea + Poster Presentations			
Session 8 3.35pm – 5.30pm	FMA Annual General Meeting			
	FMA Annual General Meeting - <i>“All FMA Members please attend”</i>			
	Close of Day Two			
7.00pm – 11.30pm	Conference Dinner & Floodplain Management Australia IAG Excellence Awards <i>Grand Ballroom, Pullman Melbourne on the Park</i> Sponsored by  Royal HaskoningDHV <i>Enhancing Society Together</i>			

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

Sponsor Address

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 Doug Bellomo <i>AECOM</i> <i>International presenter</i>	Improving flood frequency analysis by estimating empirical regional priors Mark Babister <i>WMAwater</i>	Securing, Simplifying and Upgrading Australia's Flood Infrastructure Network Ella Harrison <i>Bureau of Meteorology</i>	Where is the floodway? Testing the Indicator Technique in Urban Floodplains Louise Collier <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? Rhiannon Garrett <i>Water Technology</i>	The area that ARR forgot: AI-based best practices for ephemeral lake hydrology Krey Price <i>Surface Water Solutions</i>	Better Road Performance - The voyage can educate everyone Anthony Densten <i>SMEC</i>	Regional Flood Evacuation: Can it be done? Steven Molino <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 Markus Eder <i>WMAwater</i>	What ARR we to do about climate change? Ben Tate <i>Water Technology</i>	Complexities of delivering flood mitigation at scale; A Central Victorian case study Priyanka Wickramasuriya <i>Stantec</i>	Floodways and flooded roads – are we sending mixed messages to drivers? Daniel Sheehy <i>WRM Water & 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 Tony Ladson <i>Moroka</i>	Implications of the New ARR Climate Change Factors on Flood Estimation Janaka Gunawardena <i>Logan City Council</i>	Upgrading Existing Infrastructure - Not for the Faint-Hearted Leonie Gray <i>Fairfield City Council</i>	How to develop Emergency Plans for sites affected by Multiple Food Mechanisms Alireza Pouya <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 Rhys Thomson <i>Rhelm</i>	Using Flood Risk Evidence to Drive Transformative Recovery in Indigenous Communities Stephen Dredge <i>Meridian Urban</i>	A new approach to Flood Mitigation Assessment Alice Lisitsa <i>BG&E</i>	1.05pm – 1.15pm Hydrological Analysis of a catchment using RORB, RRR and HEC-HMS Models Jotinder Singh <i>University of South Australia</i>
				1.20pm – 1.30pm Challenges of urban flood modelling – lessons we are learning Suresh Hettiarachchi <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 Ken Dale <i>Geoscience Australia</i>	Australia's Riverine Flood Seasonal Outlook – Challenges in the public's understanding Steven Muncaster <i>Victoria State Emergency Service</i>	Tasmanian flood planning informed by statewide flood mapping and stakeholder collaboration Emma Maratea <i>Rhelm</i>	1.35pm – 1.45pm Hydrodynamic model development for a semi-enclosed coastal lagoon in eastern Australia Songyan Yu <i>City of Gold Coast</i>
				1.50pm – 2.00pm How can the model be wrong - I validated it Glenn Mansell , 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. Phil Young <i>Brisbane City Council</i>	Improving flood knowledge and practices in Fiji through enhanced engagement Tom Stewart <i>Alluvium Consulting</i>	Conveyance Mapping on an LGA scale Donnie Carroll <i>DCPM</i>	2.05pm – 2.15pm How much is too much or too little when filtering results? Eoghain O'Hanlon <i>JB Pacific</i>
				2.20pm – 2.30pm Investigating Implications of Updated Climate Change Considerations in Australian Rainfall and Runoff Rachel Allen , 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 Ignatius Forbes <i>NSW Reconstruction Authority</i>	<i>Presentation TBC</i>	Analysing and funding flood mitigation for multiple benefits – an International perspective Cathryn Spence <i>AECOM</i>	2.35pm – 2.45pm Adapting to ARR Climate Change Updates During A Flood Study Program Thomas Ward , KBR
				2.50pm – 3.00pm Modern flood frequency analysis in plain English and Python Lindsay Millard , WRM

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