



CONFERENCE PROGRAM

(Program, subject to change)

Monday 20 May 2024

8.30am – 5.00pm **Rainfall-runoff modelling with HEC-HMS Full Day Workshop**
BCEC (additional cost full day workshop)

Tuesday 21 May 2024

8.00am – 12.30pm **Pre-Conference Morning Rain on grid modelling with HEC-RAS Workshop**
BCEC (additional cost half day workshop – morning tea & lunch included)

8.30am – 12.30pm **Pre-Conference Morning Workshop: Risk to Life Tolerability in Floodplain Management**
BCEC (additional cost half day workshop – morning tea & lunch included)

Pre-Conference Morning Workshop: The data is in – how can we use research to shape change?

BCEC (additional cost half day workshop – morning tea & lunch included)

12.30pm – 5.00pm **Pre-Conference Afternoon Bridges and culverts in HEC-RAS Workshop**
BCEC (additional cost half day workshop – lunch & afternoon tea included)

12.30pm – 5.00pm **Pre-Conference Afternoon Workshop: Rising to the Challenge – learning from flood hazards to build resilient communities**
BCEC (additional cost half day workshop – lunch & afternoon tea included)

12.30pm – 5.00pm **YFM TriWater Cup**
BCEC (additional cost half day TriWater Cup)

5.00pm – 7.00pm **Conference Registration & Welcome Reception**
Trade Exhibition Area, Boulevard Auditorium Foyer, BCEC

From 7.00pm **YFM Function** (open to all delegates registered for the Conference)
The Charming Squire
Sponsored by KBR

Day One – Wednesday 22 May 2024

7.30am

Conference Registration, Boulevard Auditorium Foyer

Session 1

Plenary

8.30am – 10.10am

Welcome to Country

Welcome from Floodplain Management Australia

Ian Dinham, *President, Floodplain Management Australia*

Welcome from Brisbane City Council

Minister Address (TBC)

Keynote Address

Professor Gavin Smith, *North Carolina State University College of Design*

10.10am – 10.40am Morning Tea + Poster Presentations

Session 2

Concurrent

10.40am – 12.35pm

Sponsored by:



	2A: Emergency preparedness, response and recovery	2B: Flood case studies and stories	2C: Modelling and flood data	2D: Managing growth and land use planning
Location:	Boulevard Auditorium	B1	B2	B3
10.40am – 11.05am	No Escape: Secondary Risks in Flood-Isolated Communities Suede Stanton , NSW State Emergency Service & Shaza Raini , NSW DCCEEW	The good, bad and ugly Milwaukee's journey to sustainable flood management David Fowler , Association of State Floodplain Managers <i>International Presenter</i>	Hawkesbury-Nepean River Flood Study: key features and findings Stephen Yeo , NSW Reconstruction Authority	Adapting through risk-based planning - is there a role for the 1%AEP anymore? William Prentice , Water Technology
5 minute	Changeover	Changeover	Changeover	Changeover
11.10am – 11.35am	Burning Issues: The Impacts of Bushfires on Flood Preparedness and Response Gillian Webber , NSW State Emergency Service	Scotland's proactive approach to flood management: the Grangemouth Flood Protection Scheme Adele Jaccon , Jacobs Engineering <i>International Presenter</i>	NSW State Disaster Mitigation Plan – A Statewide Review of Managed Relocation Rhys Thomson , Rhelm	Impacts of the new ARR climate change factors on flood planning levels Mark Babister , WMAwater
5 minute	Changeover	Changeover	Changeover	Changeover

11.40am – 12.05pm	NSW Flood Data Portal: From the beginning, linking data to disaster response. Keiran O'Fee & Melissa Daley, NSW State Emergency Service	Ex-Tropical Cyclone Gabrielle Flood Hazard Categorisation, Hawke's Bay, New Zealand Ramon Strong, PDP <i>International Presenter</i>	Precipitation-streamflow regression to synthetically extend record length in flood frequency analyses Evan O'Brien, SMEC	Integrating flood risk into planning: Using data analysis to identify intolerable risk Stephen Dredge, Meridian Urban
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
12.10pm – 12.35pm	Combining and amplifying outcomes from FRMP's, Flood Forecasting and Community Awareness Projects Adam Berry, Synergy Solutions	Community experiences of the 2022 Tasmanian floods: A mixed methods study Darryl Stellmach, University of Tasmania	Update of design rainfall intensities for South East Queensland Phillip Jordan, HARC	Integrating Climate Change into Design Criteria: Science Becomes Policy Michael McMahon, HDR <i>International Presenter</i>

12.35pm – 1.15pm Lunch + Poster Presentations

Long Field Trip – Referable Dams departs at 1.00pm and return approximately 5.30pm, afternoon tea included on tour.

Session 3 Concurrent 1.15pm – 2.40pm

	3A: Flood policy, guidance and best practice	3B: Flood prediction and warning	3C: Flood case studies and stories	3D: 10 Minute Presentations
Location:	Boulevard Auditorium	B1	B2	B3
1.15pm – 1.40pm	\$31 Million Flood Risk Management Program Katrina Smith, Queensland Reconstruction Authority	Probabilistic flood forecasting – embrace a range or maintain the binary? Chris Samuel, Bureau of Meteorology	Comparing Flood Modelling Approaches: MIKE+ to TUFLOW in Tauranga, New Zealand Ramisa Bhuiyan, Aurecon	1.15pm – 1.25pm Estimating environmental damages from soil loss during flooding events Mitchell Kirby, JB Pacific 1.30pm – 1.40pm Getting harder and harder to drain: 'flood mitigation' in low-lying coastal floodplains Chrisy Clay, Rous County Council
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
1.45pm – 2.10pm	Everything's different north of the border – even flood risk management Mathew Martin & Carrie Dearnley, WRM Water & Environment	Understanding Flood Risk When Engineers and the General Public Do Not Speak the Same Language Mark Forest, Consor North America <i>International Presenter</i>	The flow must go on: more robust river gauges for future extremes Van Cuong Nguyen, Department of Water and Environmental Regulation	1.45pm – 1.55pm Flood Mitigation in the Pacific: A scoping Study for Ba, Fiji Luke Joseph, Royal HaskoningDHV 2.00pm – 2.10pm Croc n' Roll: Navigating Floods in the Adelaide River Tarkan Pasin, WRM Water and Environment

5 minute 2.15pm – 2.40pm	Changeover Presentation TBC	<i>Changeover</i> Applying the Bureau's Flood Scenarios Product to Emergency Response Coordination Tom Jory, NSW State Emergency Service & Ailsa Schofield, Bureau of Meteorology	<i>Changeover</i> Australia's largest measured river flow? Assessing the 2023 Fitzroy River rating curves Krey Price, Surface Water Solutions	Changeover 2.15pm – 2.25pm Innovative approaches for floodplain management – RFD flood model update 2022 Anne Kolega, BMT 2.30pm – 2.40pm How are Victorian authorities using climate change riverine modelling in decision making Lachlan Inglis, Water Technology
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Session 4	Short Field Trips	3.00pm – 5.30pm
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Short field trips depart at 3.00pm (sharp) and will return to BCEC approximately 5.30pm, afternoon tea is included on all tours.

FT2: City Cat Tour – Creating a Resilient River City

FT3: Delivering the Norman Creek Master Plan

FT4: Kedron Brook

5.30pm **Close of Day One**

7.30pm – 10.30pm **Casual Dinner**
Rivershed, Howard Smith Wharves
(return transfers available from Southbank – additional information to follow)
Sponsored by WMAwater

Day Two – Thursday 23 May 2024

8.30am

Registration (for 1 Day delegates), Boulevard Auditorium Foyer

Session 5

Concurrent

9.00am – 10.25am

	5A: Flood policy, guidance and best practice	5B: Social sciences, human behaviour and communication	5C: Environmental aspects, climate change, coastal hazards and adaptation	5D: 10 Minute Presentations
Location:	Boulevard Auditorium	B1	B2	B3
9.00am – 9.25am	Strategic Management of Flood Risk Duncan McLuckie , NSW DCCEEW	'Know your flood risk' simple advice for a profoundly mis-understood learning context Willow Forsyth , University of Newcastle	Tomorrow's Floodplain: A change in thinking on future coastal flooding Richard Sharp , Water Technology	9.00am – 9.10am IoT Hydrometric Smart Sensors – The Good, the Bad and the Ugly Brany Iezzi , Brisbane City Council 9.15am – 9.25am Impacts of pre-burst on extreme floods. A case study in southeast Queensland Ash Rasheed , HARC
5 minute	Changeover	Changeover	Changeover	Changeover
9.30am – 9.55am	Changes in Rural Floodplain Management in New South Wales Tim Morrison , NSW DCCEEW	Challenges in Providing Helpful Flood Information to Brisbane Residents Robert McGlinn , Brisbane City Council	Navigating the future: lessons for risk-based assessment of coastal flooding and erosion Christine Lauchlan Arrowsmith , Streamology	9.30am – 9.40am Environmental Modelling of the flood relief channels in the River Thames Scheme Keiko Yamagata , DHI 9.45am – 9.55am Discovering water information for robust modelling Chinee Mercado , Manly Hydraulics Laboratory
5 minute	Changeover	Changeover	Changeover	Changeover
10.00am – 10.25am	Keeping Flood Funding From Drying Out Meg Preston , Queensland Reconstruction Authority	What I have learnt engaging with flood affected communities for twenty years Emma Maratea , Rhelm	Influence of Climate Change on Logan Albert Flood Characteristic Janaka Gunawardena , Logan City Council	10.00am – 10.10am Community Flood Information Online - A Lismore City Council Case Study Cameron Druery , Worley Consulting 10.15am – 10.25am Communicating uncertainty in flash flood events Carla Mooney , Bureau of Meteorology

10.25am – 11.00am Morning Tea + Poster Presentations

Session 6	Plenary	11.00am – 12.30pm
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Welcome to Day 2

ANZ Updates 2024

Developing Brisbane's Floodplain: Lessons from History

Dr Margaret Cook, *Australian Rivers Institute, Griffith University*

12.45pm – 1.45pm Lunch + Poster Presentations

YFM Panel Session: The future of floodplain management - where we are headed

Session 7 Concurrent	1.45pm – 3.10pm
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	7A: Flood policy, guidance and best practice	7B: New technology and research	7C: Environmental aspects, climate change, coastal hazards and adaptation	7D: Community recovery
Location	Boulevard Auditorium	B1	B2	B3
1.45pm – 2.10pm	The Technical Mapping Advisory Council – Shaping US Flood Risk Management Practices Doug Bellomo <i>AECOM</i> <i>International Presenter</i>	Visualising multi-source data streams to communicate uncertainty in flood forecasts Fiona Johnson , <i>UNSW</i>	Partnering with Regional Communities to Develop Nature-Based Solutions to Flooding Roslyn Prinsley , <i>Australian National University</i>	After the floodwaters recede - Improving support for flood affected residents Mel Taylor , <i>Macquarie University / Enduring Advantage Consulting</i>
5 minute	Changeover	Changeover	Changeover	Changeover
2.15pm – 2.40pm	The Problem with Parks Alana Mosely , <i>City of Moreton Bay</i> <i>Young Floodplain Manager</i>	Rip Rap to Rock Bags, physical modelling of high flow cases Dan Messiter , <i>Royal HaskoningDHV</i>	Enabling healthy waterway outcomes in flood risk planning – a nature-based approach John Bucinkas & Nathan Pomfret , <i>NSW DCCEE</i>	Empowering Community-Led Resilience: A Co-Design Approach to Disaster Recovery in Wisemans Ferry Prawi Woods , <i>Alluvium Consulting</i>
5 minute	Changeover	Changeover	Changeover	Changeover
2.45pm – 3.10pm	Where do you Draw the Line? (Engineering Judgement in Flood Extent Delineation) Kate Prout , <i>Engeny</i>	Building better networks, Australia's new ALERT2TM Flood Warning Alarm System Laurens Willems van Beveren & Michael Galloway , <i>Manly Hydraulics Laboratory</i>	The power of innovative technology to deliver carbon negative flood management solutions Richard Crowder , <i>Jacobs</i> <i>International Presenter</i>	Prioritising properties for buyback, raising and retrofit – The Evidence Base and Approach to the Northern Rivers Resilient Homes Program Louise Collier , <i>Rhelm</i>

3.10pm – 3.45pm Afternoon Tea + Poster Presentations

Session 8	FMA Annual General Meeting <i>"All FMA Members please attend"</i>	3.45pm – 5.30pm
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Location:	Location:
8A: FMA Annual General Meeting - <i>"All FMA Members please attend"</i>	8B:

5.30pm

Close of Day Two

7.00pm

**Conference Dinner & Floodplain Management Australia
Excellence Awards**, Plaza Terrace Room, BCEC *Sponsored by
Royal HaskoningDHV*

Day Three – Friday 24 May 2024

8.30am

Registration (for 1 Day delegates), Boulevard Auditorium Foyer

Session 9 Plenary

9.00am – 10.20am

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

Bridging the gap: Making disaster insurance into an opportunity for risk reduction

Professor Paula Jarzabkowski, *University of Queensland*

2025 FMA National Conference Announcement

10.20 am – 10.50am Morning Tea + Poster Presentations

Session 10

Concurrent

10.50am – 12.45pm

	10A: Flood prediction and warning	10B: Managing growth and land use planning	10C: Infrastructure projects and asset management	10D: 10 Minute Presentations
Location:	Boulevard Auditorium	B1	B2	B3
10.50am – 11.15am	Townsville's FLASH New Flood Warning System Alan Baker , <i>Royal HaskoningDHV</i>	Development controls for equitable management of filling across the Lower Hunter Richard Murphy , <i>NSW DCCEEW & Michael Osborne</i> , <i>Port Stephens Council</i>	Dams and Levee System Operations, Maintenance and Emergency Management and Risk Comparison? Malcolm Barker , <i>GHD</i>	10.50am – 11.00am The Psychology of Flooding, how understanding psychology can assist with emergency management Melissa Blum , <i>Burchills Engineering Solutions</i> 11.05am – 11.15am Community-Based Flood Action Plans, an effective way of managing flood risk Jess Carey , <i>Stantec</i>
5 minute	Changeover	Changeover	Changeover	Changeover
11.20am – 11.45am	Real-time Flash Flood Forecasting in Adelaide Trent Laves , <i>Worley</i>	Is South East Queensland growing into high hazard flood areas? Pradesh Ramiah , <i>Moreton Bay Regional Council</i>	Eight years of working on the Hunter Valley Flood Mitigation Scheme Ben Patterson , <i>Royal HaskoningDHV</i>	11.20am – 11.30am Building back better – Balancing resilience in recovery William Kershaw , <i>Department of Energy and Public Works</i> 11.35am -11.45am Flood evacuation planning the meeting of models, data and logic Damion Cavanagh , <i>BMT</i>
5 minute	Changeover	Changeover	Changeover	Changeover
11.50am – 12.15pm	Flood Forecasting and warnings for ICOLLS Dan Rodger , <i>JB Pacific</i>	Managing Stormwater Flood Risk for Infill Development Nadia Guterres , <i>Sunshine Coast Council</i>	The Maitland Flood of July 2022 Ian Jackson , NSW DCCEEW	11.50am – 12.00pm Integrative Decision Support Tool for Flood-Informed Road Infrastructure Investment Prioritisation

				Gangfu Zhang, AECOM 12.05pm – 12.15pm Flood Mitigation Works – Improving Construction Cost Estimation and Cost Benefit Analysis Andrew Morris, Royal HaskoningDHV
5 minute	Changeover	Changeover	Changeover	Changeover
12.20pm – 12.45pm	New tools assisting adaptive pathway planning for sea level rise in NSW Galen Lewis, Manly Hydraulics Laboratory	Let Your Catchment Be Your Guide – Flood Sensitive Rezoning James Ogg, Inner West Council	Stormwater Backflow Device Operations During the February 2022 Brisbane Flood-Case Study Evan Caswell, Brisbane City Council	12.20pm – 12.30pm Interstate Levee Committee – Floods Know No Boundaries Phillip Buchanan NSW DCCEW 12.35pm – 12.45pm Not broken? Don't fix it! The cautionary tale of Pental Islands levees Shaun Morgan, North Central CMA

12.45pm – 1.30pm Lunch

Session 11 Concurrent

1.30pm – 3.00pm

	11A: Flood damages and insurance	11B: Flood Stories	11C: Modelling and flood data	11D: 10 Minute Presentations
Location:	Boulevard Auditorium	B1	B2	B3
1.30pm – 1.55pm	2022 Floods in the Northern Rivers: impacts on businesses and their recovery Tariq Maqsood, RMIT University	Effectively engaging with indigenous communities before, during and after floods Neil Duffy, Water Technology	Infragravity Wave Considerations in Small Coastal Creeks Geoff Newell, Sunshine Coast Council	1.30pm – 1.40pm Contaminants of emerging concern in floodwaters Minna Saaristo, EPA Victoria 1.45pm – 1.55pm A Strategic approach to building flash flood forecasting capability in South Australia Myles Fauser, Department for Environment and Water
5 minute	Changeover	Changeover	Changeover	Changeover
2.00pm – 2.25pm	Benchmarking the 2022 and 2023 DT01 Flood Damage Tool(s) to Seven Sub-Catchment(s) Martin Griffin, Stantec	FRMSPs when few buildings are inundated: the Boggabri case study Hayden Guse, WRM Water & Environment	Changing Flood Magnitudes through Flood Frequency Analysis Russel Haque, Goulburn Broken Catchment Management Authority	2.00pm – 2.10pm Brisbane's future flood resilience blueprint: mapping synergy of studies and technology Simon Otero, Brisbane City Council 2.15pm – 2.25pm Presentation TBC
5 minute	Changeover	Changeover	Changeover	Changeover

2.30pm – 2.55pm	Rising waters, sinking coverage: Innovative strategies for managing insurance hydrologic assessments Carson Ly, <i>Engeny Australia</i>	Update published: Climate Change Considerations chapter in Australian Rainfall and Runoff Guidelines Kirsty Mackay, <i>Department of Climate Change, Energy, the Environment and Water</i>	2.30pm – 2.40pm Leveraging Distributed Sensor Networks for Enhanced Flash Flood Monitoring Simon Igoi, <i>Lixia</i>	2.30pm – 2.40pm Flood Forecasting and Flood Management, Thailand Greg Whyte, <i>DHI Water & Environment</i>
			2.45pm – 2.55pm Aligning design rainfall and FFA flow estimates on the NSW south coast Luke Evans, <i>Rhelm</i>	2.45pm – 2.55pm MoretonAlert - Automating Flood Warning Messages Elton Chong, <i>City of Moreton Bay</i>

3.00pm – 3.30pm

Conference Wrap Up with Afternoon Tea