



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 **NSW Flood Risk Management: Implementing the 2023 Manual and toolkit**
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)

Bureau of Meteorology Sponsor Address

The Application of Flood Risk Reduction Techniques: Lessons for Community-Led Relocation

Professor Gavin Smith, North Carolina State University College of Design

Queensland Reconstruction Authority Sponsor Address

NSW Department of Climate Change, Energy, the Environment and Water Sponsor Address

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
Chair:	Steve Muncaster	Allan Gear	Daniel Copelin	Patrick Paynter
10.40am – 11.05am	No escape: secondary risks in flood-isolated communities Suede Stanton-Drudy, 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 International Presenter	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	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>

11.10am – 11.35am	Burning issues: the impacts of bushfires on flood preparedness and response Gillian Webber, <i>NSW State Emergency Service</i>	Scotland's proactive approach to flood management: the Grangemouth Flood Protection Scheme Adele Jaccon, <i>Jacobs Engineering International Presenter</i>	NSW State Disaster Mitigation Plan – a statewide review of managed relocation Rhys Thomson, <i>Rhelm</i>	Impacts of the new ARR climate change factors on flood planning levels Mark Babister, <i>WMAwater</i>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
11.40am – 12.05pm	NSW Flood Data Portal: from the beginning, linking data to disaster response Keiran O'Fee & Melissa Daley, <i>NSW State Emergency Service</i>	Ex-Tropical Cyclone Gabrielle flood hazard categorisation, Hawke's Bay, New Zealand Ramon Strong, <i>PDP International Presenter</i>	Precipitation-streamflow regression to synthetically extend record length in flood frequency analyses Evan O'Brien, <i>SMEC</i>	Integrating flood risk into planning: using data analysis to identify intolerable risk Stephen Dredge, <i>Meridian Urban</i>
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, <i>Synergy Solutions</i>	Community experiences of the 2022 Tasmanian floods: a mixed methods study Darryl Stellmach, <i>University of Tasmania</i>	Update of design rainfall intensities for South East Queensland Phillip Jordan, <i>HARC</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>

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
Chair:	Sharyn Westlake	Ramon Strong	Camille White	Mike Edwards
1.15pm – 1.40pm	\$31 Million Flood Risk Management Program Katrina Smith, <i>Queensland Reconstruction Authority</i>	Probabilistic flood forecasting – embrace a range or maintain the binary? Chris Samuel, <i>Bureau of Meteorology Young Floodplain Manager</i>	Tomorrow's floodplain: a change in thinking on future coastal flooding Richard Sharp, <i>Water Technology</i>	1.15pm – 1.25pm Estimating environmental damages from soil loss during flooding events Mitchell Kirby, <i>JB Pacific Young Floodplain Manager</i>
				1.30pm – 1.40pm Getting harder and harder to drain: 'flood mitigation' in low-lying coastal floodplains Chrysy Clay, <i>Rous County Council</i>

5 minute 1.45pm – 2.10pm	Changeover Everything's different north of the border – even flood risk management Mathew Martin & Carrie Dearnley , WRM Water & Environment	Changeover Understanding flood risk when engineers and the general public do not speak the same language Mark Forest , Consor North America <i>International Presenter</i>	Changeover The flow must go on: more robust river gauges for future extremes Van Cuong Nguyen , Department of Water and Environmental Regulation <i>Young Floodplain Manager</i>	Changeover 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 & Environment
5 minute 2.15pm – 2.40pm	Changeover The Maitland flood of July 2022 Ian Jackson & Tom Sigley , NSW Department of Climate Change, Energy, the Environment and Water	Changeover Applying the Bureau's flood scenarios product to emergency response coordination Tom Jory , NSW State Emergency Service & Ailsa Schofield , Bureau of Meteorology	Changeover 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 Abigail Lillo , BMT 2.30pm – 2.40pm How are Victorian authorities using climate change riverine modelling in decision-making? Lachlan Inglis , Water Technology

Session 4 Short Field Trips 3.00pm – 5.30pm

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

Sponsored by:



VICTORIA
State
Government

Energy,
Environment
and Climate

	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
Chair:	Ainslie Frazer	Paul Grech	Carla Mooney	
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	Risks to day-to-day coastal floodplain drainage with rising sea levels Alice Harrison , UNSW Water Research Laboratory	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 McGlenn , 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

Welcome to Day 2

NSW State Emergency Service Sponsor Address

Water Technology Sponsor Address

Australia and New Zealand Updates 2024

Stantec Sponsor Address

Developing Brisbane's Floodplain: Lessons from History
Dr Margaret Cook, Australian Rivers Institute, Griffith University

TUFLOW Sponsor Address

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

	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
Chair:	Andrew Thompson			Meg Preston
1.45pm – 2.10pm	The Technical Mapping Advisory Council – shaping US flood risk management practices Doug Bellomo AECOM <i>International Presenter</i>	Use of satellite imagery to produce water level timeseries for ungauged water-bodies Louisa Chen, Jacobs	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	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
2.15pm – 2.40pm	The problem with parks Alana Mosely, <i>City of Moreton Bay 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 DCCEEW</i>	Empowering community-led resilience: a co-design approach to disaster recovery in Wisemans Ferry Prawi Woods, <i>Alluvium Consulting</i>
5 minute	Changeover	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>

2.45pm – 3.10pm	Where do you draw the line? (engineering judgement in flood extent delineation) Kate Prout, Engeny	Building better networks, Australia's new ALERT2™ 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>Rhelim</i>
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3.10pm – 3.45pm Afternoon Tea + Poster Presentations

Session 8 FMA Annual General Meeting 3.45pm – 5.30pm
All FMA Members please attend

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

Jacobs Sponsor Address

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

Professor Paula Jarzabkowski, *University of Queensland*

Sponsor Address

VIC Department of Energy, Environment and Climate Action Sponsor Address

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
Chair:	Sue Ribbons	Allan Gear		Fraser Ramsay
10.50am – 11.15am	Townsville's FLASH new flood warning system Alan Baker , <i>Royal HaskoningDHV</i>	Integrating climate change into design criteria: science becomes policy Michael McMahon , HDR <i>International Presenter</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> <i>Young Floodplain Manager</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	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
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>	Highway/Freeway Environments: Understanding and Addressing Complexity Nilmini Pannipitiya, <i>SMEC</i>	11.50am – 12.00pm Integrative decision support tool for flood-informed road infrastructure investment prioritisation Gangfu Zhang, <i>AECOM</i> 12.05pm – 12.15pm Flood mitigation works – improving construction cost estimation and cost benefit analysis Andrew Morris, <i>Royal HaskoningDHV</i>
5 minute	Changeover	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
12.20pm – 12.45pm	New tools assisting adaptive pathway planning for sea level rise in NSW Galen Lewis, <i>Manly Hydraulics Laboratory</i>	Let your catchment be your guide – flood sensitive rezoning James Ogg, <i>Inner West Council</i>	Stormwater backflow device operations during the February 2022 Brisbane flood-case study Evan Caswell, <i>Brisbane City Council</i>	12.20pm – 12.30pm Interstate Levee Committee – floods know no boundaries Phillip Buchanan <i>NSW DCCEE</i> 12.35pm – 12.45pm Not broken? Don't fix it! The cautionary tale of Pental Islands levees Shaun Morgan, <i>North Central CMA</i>

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
Chair:		Steve Molino		Alana Mosely
1.30pm – 1.55pm	2022 floods in the Northern Rivers: impacts on businesses and their recovery Tariq Maqsood, <i>RMIT University</i>	Effectively engaging with indigenous communities before, during and after floods Neil Dufty, <i>Water Technology</i>	Infragravity wave considerations in small coastal creeks Geoff Newell, <i>Sunshine Coast Council</i>	1.30pm – 1.40pm Contaminants of emerging concern in floodwaters Minna Saaristo, <i>EPA Victoria</i> 1.45pm – 1.55pm A strategic approach to building flash flood forecasting capability in South Australia Myles Fauser, <i>Department for Environment and Water</i>
5 minute	Changeover	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>

2.00pm – 2.25pm	Benchmarking the 2022 and 2023 DT01 Flood Damage Tool(s) to Seven Sub-Catchment(s) Martin Griffin, <i>Stantec</i>	FRMSPs when few buildings are inundated: the Boggabri case study Hayden Guse, <i>WRM Water & Environment</i> <i>Young Floodplain Manager</i>	Changing flood magnitudes through flood frequency analysis Russel Haque, <i>Goulburn Broken Catchment Management Authority</i>	2.00pm – 2.10pm Brisbane’s future flood resilience blueprint: mapping synergy of studies and technology Simon Otero, <i>Brisbane City Council</i> 2.15pm – 2.25pm Using Failure to Make Informed Engineering Decisions Simon Tang, <i>Engeny Australia</i>
5 minute	Changeover	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
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 Leanne Wilkinson Department of Climate Change, Energy, the Environment and Water	2.30pm – 2.40pm Leveraging distributed sensor networks for enhanced flash flood monitoring Ian Atkinson <i>Lixia</i> 2.45pm – 2.55pm Aligning design rainfall and FFA flow estimates on the NSW south coast Luke Evans, <i>Rhelm</i>	2.30pm – 2.40pm Flood forecasting and flood management, Thailand Greg Whyte, <i>DHI Water & Environment</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

POSTER PRESENTATIONS

Poster displays will be available for the duration of the conference. Authors will be available at their poster to discuss and give a short presentation at the following times:

Morning Tea – Wednesday 22 May - Hard Copy

10.20am	Victorian Murray Flood Restoration Project, Water Modelling Greg Whyte, DHI Water & Environment
10.23am	FRT - A land use based approach to flood damages assessment for Queensland Luke Joseph, Royal HaskoningDHV
10.26am	TUFLOW-FEWS Integration: Direct Rainfall Simulations through DELFT-FEWS Eranda Perera, BMT

Lunch – Wednesday 22 May - Electronic

12.45pm	El Niño does not mean we're on vacation from floods Aoife Soden-Taylor, Brisbane City Council
12.48pm	Nature's Fury: Assessing the March 2023 flood impacts at Lawn Hill Gorge Hong Vu, Arup
12.51pm	Dollars and sense – an outcome driven way to prioritise limited budgets Joshua Eggleton, KBR
12.54pm	Come Rain, Shine (or Wind): Differences between Wind and Solar Stormwater Management Ramya Srinivasan, Engeny Australia

Morning Tea – Thursday 23 May - Electronic

10.40am	Who Benefits? Using FloodAdapt to Support Equitable Flood Risk Management Simone De Kleermaeker, Deltares
10.43am	Increasing flood resilience using flood intelligence software in the Hunter Valley Adrian Milne, NSW Department of Climate Change, Energy, the Environment and Water
10.46am	Enhancing Floodplain Resilience and Climate Adaptation: Ross River Environmental Flow Paths Project Wesley Bailey, AECOM

Lunch – Thursday 23 May - Electronic

1.05pm	Juggling Competing Interests in ICOLL Management - The Byron Bay Experience Steve Twohill, Byron Shire Council
1.08pm	An overview of renewable energy guidelines for flood risk assessments across Victoria Jorja Strack, Water Technology
1.11pm	Gemfields flood triggers for spatially varying design events Anthony Densten, Stantec
1.14pm	Review I: current Wivenhoe Dam Flood Manual – a mixture of understandings Greg McMahon, Integrated Project Management
1.17pm	Review I: current Wivenhoe Dam Flood Manual – a mixture of understandings Greg McMahon, Integrated Project Management

Afternoon Tea – Thursday 23 May – Hard Copy

3.20pm	Improving Floodplain Connections Tim Morrison, NSW Department of Climate Change, Energy, the Environment and Water
3.23pm	RegioFEM – a floodplain evaluation method to support future-oriented flood risk management Markus Eder, WMAwater

Morning Tea – Friday 24 May - Electronic

10.40am	Effect of mesh and roughness coefficients on mountainous terrain in 2D-flood modelling Oshini Peramuna, RMIT University
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