

19 – 22 May 2015 BUILDING A FLOOD RESILIENT AUSTRALIA

Brisbane Convention & Exhibition Centre

# 2015 Floodplain Management Association National Conference



Hosted by



Dedicated to a better Brisbane

## PROGRAM

(as at 17<sup>th</sup> February)

### Tuesday 19<sup>th</sup> May 2015

8.00am – 9.00am Pre-Conference Flood Workshop Registration

#### Session 1 Concurrent Workshops 9.00am – 10.30am

*Please select 1 Workshop Option ONLY*

	<b>Workshop 1</b> National Best Practice Floodplain Management	<b>Workshop 2</b> Flood Recovery
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10.30am – 11.00am Morning Tea

#### Session 2 Concurrent Workshops - continued 10.30am – 12.30pm

*This workshop is continued, please do not change workshops*

	<b>Workshop 1</b> National Best Practice Floodplain Management	<b>Workshop 2</b> Flood Recovery
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12.30pm – 1.30pm Lunch

#### Session 3 Concurrent Workshops - continued 1.30pm – 3.00pm

*This workshop is continued, please do not change workshops*

	<b>Workshop 1</b> National Best Practice Floodplain Management	<b>Workshop 2</b> Flood Recovery
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3.00pm – 3.30pm Afternoon Tea

#### Session 4 Concurrent Workshops – continued 3.30pm – 5.00pm

*This workshop is continued, please do not change workshops*

	<b>Workshop 1</b> National Best Practice Floodplain Management	<b>Workshop 2</b> Flood Recovery
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5.00pm – 7.00pm Conference Welcome Reception  
Boulevard Auditorium Foyer, BCEC

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## Day One – Wednesday 20<sup>th</sup> May 2015

7.30am Registration

### Session 1 Plenary

8.30am Welcome to Country

8.40am Welcome from Host Council  
Lord Mayor Graham Quirk, Brisbane City Council

9.00am Welcome from Floodplain Management Association  
Ian Dinham, Chairman, Floodplain Management Association

9.15am Conference Opening

9.30am – 9.35am Platinum Sponsor “NRMA Insurance” Address

9.35am – 10.20am Pete Fox, Director Flood and Coastal Risk Management (FCRM)  
Strategy and Investment, Environment Agency, UK

10.20am – 10.50am Morning Tea

### Session 2 Plenary

10.50am Gold Sponsor “BMT WBM” Address

10.55am State and Territory Presentations

12.25pm – 1.15pm Lunch

### Session 3 Field Trips

1.15pm – 3.15pm

	<b>FT 1 Long Tour:</b> Wivenhoe Dam	<b>FT2 Short Tour:</b> State and Local Disaster Coordination Centre	<b>FT3 Short Tour:</b> Backflow Prevention Devices “Sponsored by AWMA - Water Control Solutions”	<b>FT 4 Short Tour:</b> Coorparoo Creek Daylight Project
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3:15pm – 3:40pm Afternoon Tea

## Session 4      Concurrent + Field Trip continued

	4A: Identifying Flood Risk, Modelling and Tools	4B: Community Engagement, Consultation and Social Media	4C: 10 Minute Presentations	4D: 10 Minute Presentations	Long Field Trip Cont.
3.40pm – 4.05pm	Floodplain Risk Management in Practice – the Burnett River Experience <b>Ben Regan, GHD</b>	The Ebb and Flow of Flood Information – 40 Years of Learning’s <b>Ellen Davidge, Brisbane City Council</b>	<p>Disposable Flood Sensors <b>Fred Spain, NSW Public Works</b></p> <p>When Flooding Is Imminent, What Flood Abatement Options Do You Have? <b>Daniel Manolache, Factory Mutual Insurance Company (FM Global)</b></p> <p>Accessible Alerts – Communication Tools in Disaster Response Management for Deaf and Hard of Hearing Communities <b>Tony Bennetts, Conexu Foundation</b></p>	<p>Collaboration in Action: Queensland – Netherlands Integrated Flood Risk Management Community of Practice <b>Piet Filet, Filet Consulting</b></p> <p>Large Scale Floodplain Inundation Modelling at a Very High Spatial Resolution for Implementation of the Murray Darling Basin Plan <b>Dushmanta Dutta, CSIRO</b></p> <p>Community Resilience in Practice: The Somerset Level and Moors Case Study <b>Ella Harrison, WMAwater</b></p>	
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>			
4.10pm – 4.35pm	Building Schema to Categorise Australian Residential Buildings for Cost-effective Flood Mitigation Strategy Development <b>Tariq Maqsood, Geoscience Australia</b>	Flood Ready Agriculture - Building on Resilience <b>Rik Whitehead, NSW Department of Primary Industries</b>	<p>How Deep is Your Love? A Multi-agency Approach to Measuring Community Engagement to Optimise Program and Project Impact <b>Andrew Richards, NSW State Emergency Service</b></p> <p>Communicating Flood Risk Using Interactive Maps <b>Milly Mulroy, NSW State Emergency Service</b></p>	<p>Stakeholder Proactive Approach in Floodplain Risk Management in NSW Built Environment <b>Mohammad Mojtahedi, University of New South Wales</b></p> <p>Different Approaches to Flood Resilience in Rural and Urban Hydrological Catchments in Camden <b>Maria Pinto, Camden Council</b></p>	

			Using Community Engagement Tools for Successful Flood Mitigation Delivery <b>Megan Holcomb, GHD</b>	<i>Understanding the Geomorphic System for Floodplain Hazard Awareness</i> <b>Chris Thompson, The University of Queensland</b>
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>		
<b>4.40pm – 5.05pm</b>	An Impact Assessment of Climate Change Variables on Residential Canal Developments <b>Gavin Fields, XP Solutions</b>	Take a Difficult Message to the Community- Brisbane Water Foreshore Floodplain Risk Management Study <b>Robert Baker, Gosford City Council</b>	Getting the Job Done - Unconventional Contractual Arrangements <b>Bridget Goldsworthy, CDM Smith</b>  Improving Flood Resilience in Urban Areas; A North Queensland Case Study <b>Michael Hughes</b>  Design Flow Estimates for the Brisbane River Catchment <b>Ferdinand Diermanse, Deltares</b>	Using Monte-Carlo for Joint Probability Assessment of Closure Times on Linear Infrastructure <b>Ellis Symons, KBR</b>  The Insurability of Australian Flood Risk <b>James O'Brien, Risk Frontiers</b>
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>		
<b>5.10pm – 5.35pm</b>	Conceptual and Technical Challenges in Defining Flood Planning Areas in Urban Catchments <b>Chris Ryan, Catchment Simulation Solutions</b>	Why Getting People to Write an Emergency Plan May Not Be the Best Approach <b>Neil Dufty, Molino Stewart Pty Ltd</b>		
	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>

**5.35pm**

**Close of Day One**

**7.00pm**

**Casual Dinner, South Bank Surf Club  
Sponsored by “WMAwater”**

## Day Two – Thursday 21<sup>st</sup> May 2015

8.00am Registration (for 1 Day delegates)

### Session 5 Plenary

8.30am Welcome to Day Two

8.35am Conference Supporter “NSW Office of Environment & Heritage” Address

8.40am Silver Sponsor “WorleyParsons waterRIDE™” Address

8.45am – 9.05am Professor Bas Jonkman, Technical University Delft, The Netherlands

9.05am – 9.50am Australia-Netherlands Water Challenge

9.50am – 10.20am Morning Tea

### Session 6 Concurrent

10.20am – 12.20pm

	6A: Identifying Flood Risk, Modelling and Tools	6B: Flood Forecasting and Warning	6C: Land Use Planning and Legislative Issues	6D: National Solutions & Coordination
10.20am – 10.45am	Brisbane River Catchment Flood Study: 1D Models Are Back! – Monte Carlo Hydraulic Model Analysis <b>Phillip Ryan, BMT WBM</b>	An Enhanced Flood Forecasting and Flood Emergency Decision Support System for the Gold Coast <b>Hamid Mirfenderesk, Gold Coast City Council</b>	Risk to Life Policy – Shelter or Flee? A Case Study in Pittwater Council <b>Melanie Schwecke, Pittwater Council</b>	Improving National Best Practice in Flood Risk Management <b>Duncan McLuckie, NFRAG</b>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
10.50am – 11.15am	Brisbane River Catchment Flood Study: Comprehensive Hydraulic Assessment Overview <b>Cathie Barton, BMT WBM</b>	Flood Forecast Mapping Sans Modelling <b>Crispin Smythe, Sunshine Coast Council</b>	The Consent Authority and the Combat Agency Relationship Revisited – Has Anything Changed? <b>Marcus Morgan, NSW State Emergency Service</b>	The National Emergency Risk Assessment Guidelines (NERAG): The Bumpy Road to National Consistency <b>Ed Pikusa, SAFECOM</b>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>
11.20am – 11.45am	A Design Variable Method for Estimating Flood Risk in Australian Coastal Catchments <b>Seth Westra, University of Adelaide</b>	FloodReadyQ Smartphone App Prototype Development for Community Dissemination of Flood Warning and Flood Mapping Information <b>Paul Hart, Royal HaskoningDHV</b>	Building Brisbane’s Resilience to Flooding Through Land-use Planning <b>Phil Young, Brisbane City Council</b>	Delineating Hazardous Flood Conditions to People and Property <b>Grantley Smith, UNSW Water Research Laboratory</b>
5 minute	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>	<i>Changeover</i>

	<b>6A continued</b>	<b>6B continued</b>	<b>6C continued</b>	<b>6D continued</b>
<b>11.50am 12.15pm</b>	Overland Flow – What is It and What Can We Do About It? <b>Ainslie Frazer, NSW Office of Environment &amp; Heritage</b>	Coffs Harbour Flood Warning System <b>Greg Powter, Coffs Harbour City Council</b>	Managing Flood Risk in Urban Renewal Areas - A Case Study of Constraints and Opportunities in Green Square <b>Terry Kefalianos, City of Sydney</b>	Integrating Flood Modelling and Emergency Risk Assessment: Do We Have the Data We Need? <b>David Trebilcock, SA Fire and Emergency Services Commission</b>
	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>

**12.20pm – 1.20pm Lunch**

**Session 7 Concurrent**

**1.20pm – 2.45pm**

	<b>7A: Flood Resilient Urban Design and Building Design</b>	<b>7B: Disaster Planning and Emergency Response</b>	<b>7C: Environment, Climate Change, Sea Level Rise</b>	<b>7D:</b>
<b>1.20pm – 1.45pm</b>	Accommodating Water: Adaptive Architectures, Reactionary Planning & Designed Resilience <b>James Davidson, Highgate Hill</b>	A New Way of Examining Emergency Response Time and the Benefits Gained from Management Measures <b>Mark Babister, WMAwater</b>	Revision of Australian Rainfall and Runoff – the Interim Climate Change Guideline <b>Bryson Bates, CSIRO Oceans and Atmosphere Flagship</b>	Discussion of Issues Relevant to Local Government Councillors <b>Clr Only Meeting</b>
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	
<b>1.50pm – 2.15pm</b>	Building It Back Better to Reduce Risks After Multiple Disaster Events <b>Frankie Carroll, Queensland Reconstruction Authority</b>	Knowing When to Get Them Out - Improving Flood Evacuation Planning Through Flood Modelling and Stakeholder Involvement <b>Kieran McAndrew, Clarence Valley Council &amp; Michael Stubbs, NSW State Emergency Service</b>	Implications of the New ARR for Floodplain Management <b>James Ball, University of Technology Sydney</b>	
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>2.20pm – 2.45pm</b>	Flood Resilience: European Experience <b>Ellen Tromp, Deltares</b>	Brisbane River Disaster Management Tool <b>James Charalambous, Brisbane City Council</b>	The Development of Coastal Flooding Policy in Victoria <b>Viktor Brenners, Department of Environment and Primary Industries, Victoria</b>	Flood Risk Management Prioritisation Frameworks <b>Greg Rogencamp, Jacobs</b>
	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>

**2.50pm – 3.20pm Afternoon Tea**

**Session 8      FMA Annual General Meeting      3.20pm – 5.30pm**  
*“All FMA Members please attend”*

	<b>8A: FMA Annual General Meeting</b> <b>“All FMA Members please attend”</b>	<b>8B: Workshop: Australian Rainfall and Runoff</b>
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**5.30pm                      \*Close of Day Two\*\***

**7.00pm                      Conference Dinner, Brisbane City Hall**  
**Sponsored by “NSW State Emergency Service”**

## Day Three – Friday 22<sup>nd</sup> May 2015

8.30am Registration (for 1 Day delegates)

### Session 9 Plenary

9.00am Welcome to Day Three

9.05am – 9.50am Flood Insurance Forum

### Session 10 Concurrent 9.55am – 10.55am

	<b>10A: Identifying Flood Risk, Modelling and Tools</b>	<b>10B: Flood Forecasting and Warning</b>	<b>10C: Land Use Planning and Legislative Issues</b>	<b>10D: Flood Recovery - Rebuilding, Insurance, Economic and Community Issues</b>
<b>9.55am – 10.20am</b>	Hawkesbury-Nepean Valley Flood Management Review — Developing a Strategy Where Flood Depth Can Be Nine Metres Above Flood Planning Level <b>Sue Ribbons, Hawkesbury-Nepean Valley Flood Management Taskforce</b>	Queensland: Setting the Standard for Disaster Management. <b>Michael Shapland, The Office of Inspector General Emergency Management</b>	Rethinking Flooding As a Town Planning Opportunity Not a Constraint <b>Steven Molino, Molino Stewart Pty Ltd</b>	Effects of Disclosure of Flood-liability on Residential Property Values: a 10-year Update <b>Stephen Yeo</b>
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>10.25am – 10.50am</b>	Application of the New HEC-RAS 5.0 for Combined 1D/2D Modeling of the Truckee River and Tributaries <b>Mark Forest, HDR Engineering, Inc.</b>	A Flood Integrated Decision Support System for Melbourne <b>David Kirby, BMT WBM</b>	Sea-ing Change – Land Use and Emergency Planning for Existing and Future Flood Risk Due to Sea Level Rise <b>Isabelle Ghetti, Shoalhaven City Council</b>	Landswap – Local Government and Community Working Together for Sustainable Community Outcomes <b>Narelle Poole, Lockyer Valley Regional Council</b>
	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>

### 10.55am – 11.25 am Morning Tea



**Session 11**
**Concurrent**
**11.25am – 12.40pm**

	<b>11A: Identifying Flood Risk, Modelling and Tools</b>	<b>11B: Flood Forecasting and Warning</b>	<b>11C: Disaster Planning and Emergency Response</b>	<b>11D: Community Engagement, Consultation and Social Media</b>
<b>11.15am – 11.40am</b>	Benchmarking Finite Volume and Finite Difference Schemes Using a Coupled 1D/2D Rain-on-grid Model of Coolangatta <b>Monika Balicki, DHI Water &amp; Environment</b>	Queensland's State-of-the-Art Flood Early Warning System Pioneered at Oakey Township <b>Scott Moffett, Toowoomba Regional Council</b>	Natural Disasters & Global Climate Change <b>John McAneney, Risk Frontiers</b>	Building Community Awareness of Flood Risk in South Australia <b>Chrissie Bloss, Department of Environment, Water and Natural Resources</b>
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>11.45am – 12.10pm</b>	The National Award-winning Queensland Flood Mapping Program <b>Graeme Milligan, Queensland Department of Natural Resources and Mines and David Carlisle</b>	TARDIS - Making Rainfall and Water Level Data Accessible and Useful <b>Leanne Salter, Moreton Bay Regional Council</b>	Reliance Towards Resilience – Involving Community in the Planning Process <b>David Webber and Elspeth Rae, NSW State Emergency Service</b>	Brisbane River Catchment Floodplain Studies: Cooperative Planning for Flood Resilience <b>Roger Brewster, DSDIP</b>
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>12.15pm – 12.40pm</b>	Comparison of Direct Rainfall and Lumped-conceptual Rainfall Runoff Routing Methods in Tropical North Queensland – a Case Study of Low Drain <b>Peter Johnson, Townsville City Council</b>	Somerset Flood Early Warning System – Living Downstream of Wivenhoe Dam <b>Graeme Anderson, Pentair Environmental Systems</b>	Flood Detention Basins - Protection or Risk? The Dilemma Faced by NSW Councils <b>Leonie Gray, Fairfield City Council</b>	It is Hard to Love a Levee <b>Margaret Strelow, Rockhampton Regional Council</b>
<b>5 minute</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>	<b>Changeover</b>
<b>12.45pm – 1.10pm</b>	40 Years of Floodplain Management in Perth: A Report Card <b>Simon Rodgers, Department of Water, WA</b>	Flood Forecasting - What Can You Do With Your Data? <b>Cameron Druery, WorleyParsons</b>	FloodWise: A Flash Flooding Emergency Management Tool <b>Robert McGlinn, Brisbane City Council</b>	Community Flood Recovery and Risk Reduction – a Longitudinal Comparison Study in St George and Grantham, Queensland <b>Tetsuya Okada, Risk Frontiers</b>
	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>	<i>Trade Presentation</i>

**1.15pm – 2.10pm**
**Lunch**

**Session 12**

**Plenary**

**2.10pm – 3.00pm**

**Conference Forum**

Vision for Australian Floodplain Management

**Closing Ceremony**

3.00pm

**Afternoon Tea**