



# HYDRAULICS IN WATER ENGINEERING CONFERENCE

## 2D modelling Workshops at Hydraulics in Water Engineering Conference

### 1) Tuesday 14<sup>th</sup> Afternoon – Direct rainfall

### 2) Wednesday 15<sup>th</sup> Nov All day – Hydraulic modelling

A must attend for any hydraulic modeller. The day will feature high profile invited speakers on the issues that are topical in hydraulic modelling. Whether you are a modeller for floodplain management studies or a modeller of bridge impacts for infrastructure projects this is a day not to miss.

What will you learn:

- What will we be using in 5 years- new technologies and techniques
- How to approach the practical problems hydraulic modellers face every day
- What are the latest advances the software packages are offering
- What is Monte Carlo and practical advice in the application

### Tuesday Afternoon - Direct Rainfall

Time	Topic
1.30pm- 5.00pm	What do we really know
	What ways are people doing stuff
	What's been validated
	Recent experience

### Wednesday 15<sup>th</sup> Nov – 2d Modelling day

Time	Topic	Speaker
9.00am- 9.10am	Overview	
9.10am - 10.00am	<b>The state of hydraulic modelling – what does the future hold</b> Hear from industry experts on what the future of hydraulic modelling hold in this panel discussion. Topics will include: <ul style="list-style-type: none"><li>- Where will we be in 5 years what will be running</li><li>- GPU modelling</li><li>- Benchmarking software/approaches</li><li>- CFD or not</li><li>- Model storage and cloud computing</li><li>- Grid size</li><li>- Is there sufficient education of new modellers?</li><li>- How will AI affect our industry? Is automated model development and calibration a good idea?</li></ul>	Panel discussion: Bill Syme, Andrew McCowan, Mark Britton, Mark Babister and more



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	- ARR guidelines- how will they affect hydraulic modelling	
10.00am - 10.30am	Morning tea	
10.30am - 12.00pm	<b>Practical Problems</b>	
10.30am - 11.10 am	Blockage, Structures and acceptable impacts	
11.10am - 11.30am	Solving the 2D Free-Surface Flow Equations (or SWE) using Parallelised 1st and 2nd Order Solutions	Greg Collecutt, BMT WBM
11.30am- 12.00pm	The Evolution of the HEC products	Mark Forest, HDR / Gary Brunner, HEC - US Army Corps of Engineers
12.00pm- 1.00pm	lunch	
1.00pm- 3.00pm	<b>Innovations in Hydraulics</b> Hear from software suppliers on the latest advances in 2d modelling minus the sales pitch	Confirmed speakers: TUFLOW DHI 12d Innovyse HEC 2D Waterride
3.00pm- 3.30pm	Afternoon tea	
3.30pm- 4.00pm	<b>Monte Carlo with hydraulic models</b> - is it necessary? - advances in running 2d Monte Carlo - Advanced case studies –	Mark Babister
4.00pm- 4.30pm	Brisbane River Catchment Flood Study Monte Carlo Hydraulic Analysis	Mitchell Smith, BMT WBM
4.30pm- 5.00pm	Hawkesbury River Case study	Mark Babister, WMAwater

# 13<sup>th</sup>

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### **COST**

The full day 2d Modelling workshop (Wednesday) is available as a separate registration for:

<b>HIWE 2017 Wednesday Day Registration</b>	<b>Rates</b>
EA Member	\$650.00
Non-Member	\$780.00

### **Wednesday Workshop and Dinner ONLY Registration includes:**

- Attendance at Workshop and Conference on Wednesday 15 November, 2017
- One ticket to Conference Dinner at Dockside, Darling Harbour – Wednesday 15 November, 2017
- Day catering including morning, afternoon teas and buffet luncheons

### **Full conference registration:**

<b>HIWE 2017 Full Conference Registration (per person)</b>	<b>Standard Rates (23/09/17 to 06/11/17)</b>
EA Member	\$990.00
Non-Member	\$1,188.00
Student Member	\$750.00
Student Non-Member	\$900.00

More details at <http://hiwe2017.com.au/register/>

November 13-16, Dockside Sydney

