



HYDRAULICS IN WATER ENGINEERING CONFERENCE

2D modelling Workshops at Hydraulics in Water Engineering Conference

1) Tuesday 14th Afternoon – Direct rainfall

2) Wednesday 15th 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 15th Nov – 2d Modelling day

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



13th

HYDRAULICS IN WATER ENGINEERING CONFERENCE

10.00am - 10.30am	Morning tea	
10.30am - 12.00pm	Practical Problems	
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 HEC2 to HEC-RAS	Mark Forest, HDR / Gary Brunner, HEC - US Army Corps of Engineers
12.00pm- 1.00pm	lunch	
1.00pm- 3.00pm	Innovations in Hydraulics 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	Monte Carlo with hydraulic models - is it necessary? - advances in running 2d Monte Carlo - Advanced case studies –	Mark Babister, WMAwater
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



HYDRAULICS IN WATER ENGINEERING CONFERENCE

COST

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

HIWE 2017 Wednesday Day Registration	Rates
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: More details at <http://hiwe2017.com.au/register/>

