

Modelling Symposium

Modelling for an uncertain future

15 - 16 March 2023 | Te Whanganui-a-Tara

Copthorne Hotel, Oriental Bay, Wellington
 Draft Programme

Day One – Wednesday 15 March

8.30am	Registration opens
8.45am	Mihi – Peter Jackson
9.00am	Welcome – <i>Fiona Macdonald, Chair, Modelling Group</i>
9.10am	Symposium Opening – Gillian Blythe, CE Water New Zealand
9.20am	Josh Richardson – Kainga Ora <i>Creating a framework for climate resilient public housing</i>
10.05am	Morning tea
10.20am	The National Flood Studies Programme for South Africa: Overview and Development to Date <ul style="list-style-type: none"> • Professor Jeff Smithers, University of KwaZulu-Natal
10.50am	Climate Change: Moving the target for Wastewater Overflows <ul style="list-style-type: none"> • Manu Ward, 3 Waters Engineer • Hydraulic Analysis Ltd
11.20am	Word from sponsor - DHI
11.25am	To Utilise Hydrological and Hydraulic Modelling to Support the Predication of Fluvial Erosion Risk in Auckland <ul style="list-style-type: none"> • Jackie Zhou, Principal Waters Planning Engineer • Auckland Council
11:55am	Word from Sponsor - HAL
12.00pm	Lunch
12.50pm	Creating Resilient Communities; Understanding and Defining Flood Risk <ul style="list-style-type: none"> • Simran Bassan, Graduate 3 Waters Engineer • Woods & Partners Consultants Ltd
1.20pm	Challenges of Flood Plain Publication <ul style="list-style-type: none"> • Hansol Lee, Senior Healthy Waters Specialist • Auckland Council



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1.50pm	A Radical Approach to Wastewater Model Builds – Saving Time and Money whilst Increasing Consistency	
	<ul style="list-style-type: none"> • Qihang Pan, Hydraulic Modeller • Mott MacDonald 	
2.20pm	Hydraulic Modelling for Integrated Catchment Planning at Urban Utilities	
	<ul style="list-style-type: none"> • Simon Lu, Water Engineer • Aurecon 	
2.50pm	Omāroro Reservoir – Integrating a Monster into Wellington’s Water Network	
	<ul style="list-style-type: none"> • Ben Davies, Water Networks Specialist, Stantec • Iman Aghamohammadi, Principal Modeller, Wellington Water 	
3.20pm	Afternoon tea	
3.30pm	Workshop 1 National Urban Stormwater Modelling Guide <ul style="list-style-type: none"> •  Rathika Jebamony, AWA – Project Director •  Michael Author, Metis – Project Manager & Lead Author 	Site visit Omāroro Reservoir <ul style="list-style-type: none"> • Bus to collect from venue and will return to venue. • Steel toed footwear, hi vis vest/jacket • You will be required to walk in the bush to get to the reservoir
5.00pm		
7:00pm – 10.30pm	Dinner – One80 Restaurant, Copthorne Hotel	



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Day Two – Thursday 16 March

8.00am	Registration opens
8.30am	Day 2 Opening comments – <i>Fiona Macdonald, Chair, Modelling Group</i>
8.35am	Word from Sponsor - Tuflow
8.40am	Modelling Group AGM <ul style="list-style-type: none"> Ⓞ Chairs Report Ⓞ Election of Committee Members
9.10am	Geoff Williams – Senior Advisor Strategy, Wellington Water <i>Robust decision making in an uncertain future: a Wellington water supply case study.</i>
9.50am	Investigating wave runup and coastal erosion sensitivity of a sheltered cliffed coast using GIS and numerical modelling under projected sea level rise <ul style="list-style-type: none"> • Lalita Garg • Arup
10.20am	Morning Tea
10.30am	Comparative Analysis of River Mouth Geometry Using a 2D Morphological Model <ul style="list-style-type: none"> • Alex White, Water Resources Engineer • Tonkin + Taylor Ltd
11.00am	Word from sponsor - Tonkin + Taylor
11.05am	Challenges in Modelling Energy Losses in Hydraulic Structures – <ul style="list-style-type: none"> • Kedan Li, Senior Healthy Waters Specialist • Auckland Council
11.35am	Regeneration of Christchurch Stormwater Modelling – Avon Citywide 2.0 Delivered <ul style="list-style-type: none"> • Tim Preston, Principal Engineer – Water • GHD



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12.05pm	Lunch
12.50pm	Workshop 2 Weather Rain Radar – Nasrine Tomasi, Mott MacDonald and Luke Sutherland-Stacey, Weather Radar New Zealand
1.50pm	Urban Flood Mapping and Stormwater Management Planning: A Case Study in Napier <ul style="list-style-type: none"> • Ali Paine, Principal Drainage Modeller Team Leader • Stantec
2.20pm	Modelling the ground(water) beneath our feet: Supporting a Resilient water supply for Wellington <ul style="list-style-type: none"> • Jeremy Bennett, Hydrogeologist • Tonkin + Taylor Ltd
2.55pm	Afternoon tea
3.10pm	Allowing Infill Subdivision on Flood Plain and Implications of RMA <ul style="list-style-type: none"> • Ivan Kholodov, Hydraulic Modeller • Wellington Water
3.40pm	Master planning for Climate Resilient Communities <ul style="list-style-type: none"> • Gina Nicholas, Three Waters Engineer • Woods & Partners Consultants Ltd
4.10pm	Closing remarks
4.30pm	Closed

