

# 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	<a href="#">Josh Richardson</a> – <b>Kainga Ora</b> <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"> <li>• <a href="#">Professor Jeff Smithers</a>, University of KwaZulu-Natal</li> </ul>
10.50am	Climate Change: Moving the target for Wastewater Overflows <ul style="list-style-type: none"> <li>• Manu Ward, 3 Waters Engineer</li> <li>• Hydraulic Analysis Ltd</li> </ul>
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"> <li>• <a href="#">Jackie Zhou</a>, Principal Waters Planning Engineer</li> <li>• Auckland Council</li> </ul>
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"> <li>• <a href="#">Simran Bassan</a>, Graduate 3 Waters Engineer</li> <li>• Woods &amp; Partners Consultants Ltd</li> </ul>
1.20pm	Challenges of Flood Plain Publication <ul style="list-style-type: none"> <li>• <a href="#">Hansol Lee</a>, Senior Healthy Waters Specialist</li> <li>• Auckland Council</li> </ul>



# Modelling Symposium

Modelling for an uncertain future

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

Copthorne Hotel, Oriental Bay, Wellington  
Draft Programme

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



# Modelling Symposium

Modelling for an uncertain future

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

Copthorne Hotel, Oriental Bay, Wellington  
Draft Programme

## 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"> <li>Chairs Report</li> <li>Election of Committee Members</li> </ul>
9.10am	<b><a href="#">Geoff Williams</a> – Senior Advisor Strategy, Wellington Water</b> <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"> <li><a href="#">Lalita Garg</a></li> <li>Arup</li> </ul>
10.20am	Morning Tea
10.30am	Comparative Analysis of River Mouth Geometry Using a 2D Morphological Model <ul style="list-style-type: none"> <li><a href="#">Alex White</a>, Water Resources Engineer</li> <li>Tonkin + Taylor Ltd</li> </ul>
11.00am	Word from sponsor - Tonkin + Taylor
11.05am	Challenges in Modelling Energy Losses in Hydraulic Structures – <ul style="list-style-type: none"> <li><a href="#">Kedan Li</a>, Senior Healthy Waters Specialist</li> <li>Auckland Council</li> </ul>
11.35am	Regeneration of Christchurch Stormwater Modelling – Avon Citywide 2.0 Delivered <ul style="list-style-type: none"> <li><a href="#">Tim Preston</a>, Principal Engineer – Water</li> <li>GHD</li> </ul>



# Modelling Symposium

Modelling for an uncertain future

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

Copthorne Hotel, Oriental Bay, Wellington  
Draft Programme

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"> <li>• <a href="#">Ali Paine</a>, Principal Drainage Modeller Team Leader</li> <li>• Stantec</li> </ul>
2.20pm	Modelling the ground(water) beneath our feet: Supporting a Resilient water supply for Wellington <ul style="list-style-type: none"> <li>• <a href="#">Jeremy Bennett</a>, Hydrogeologist</li> <li>• Tonkin + Taylor Ltd</li> </ul>
2.55pm	Afternoon tea
3.10pm	Allowing Infill Subdivision on Flood Plain and Implications of RMA <ul style="list-style-type: none"> <li>• Ivan Kholodov, Hydraulic Modeller</li> <li>• Wellington Water</li> </ul>
3.40pm	Master planning for Climate Resilient Communities <ul style="list-style-type: none"> <li>• <a href="#">Gina Nicholas</a>, Three Waters Engineer</li> <li>• Woods &amp; Partners Consultants Ltd</li> </ul>
4.10pm	Closing remarks
4.30pm	Closed

