



Modelling

WATER NEW ZEALAND | SPECIAL INTEREST GROUP



## Water New Zealand Modelling Symposium

11 – 12 March 2020, Grand Mercure Hotel, Auckland

### DRAFT PROGRAMME

#### Day One – Wednesday 11 March

|                 |   |
|-----------------|---|
| 8.30-9.00am     | Registration / Tea and Coffee   |
| 9.00am          | Welcome and Symposium Opening - <i>Nadia Nitsche, Chair, Modelling Group</i>  |
| 9.15am          | Keynote Address – <a href="#">Dr Celine Cattoen-Gilbert</a> – NIWA – Flow/Flood Forecasting   |
| 10.00am         | Morning Tea   |
| 10.30am         | Word from Sponsor - HAL   |
| 10.45am         | Guest Speaker – The Future of 2D Hydraulic Modelling: Presentation of new sub-grid turbulence and elevation sampling approaches and impact on result accuracy – <i>Bill Syme – BMT Global</i> |
| 11.15am         | Bridging the gap between Modellers and Decision Makers – <i>Fatima Bashir - DHI</i>   |
| 11.45am         | HEC-RAS Modelling: Using 1D and 2D models to model bridges with rapidly changing design processes – <i>Courtenay Giles - WSP</i>  |
| 12.15pm         | Lunch – Vue Restaurant level 13 Grand Mercure   |
| 1.00pm          | Three-way coupled stormwater model – <i>Girija Mulay - Stantec</i>  |
| 1.30pm          | Development of a city-wide drainage model to assess system performance – <i>Bertrand Salmi – Water Technology</i>   |
| 2.00pm          | Modelling in infrastructure investment for Sulphur Beach – <i>Hansol Lee &amp; Jackie Zhou – Auckland Council</i>   |
| 2.30pm          | Making models work; small investments, big rewards – <i>Brendon Schicker - WSP</i>  |
| 3.00pm          | Afternoon Tea   |
| 3.15pm          | Bus transfer to field trip  |
| 3.30pm – 4.30pm | Auckland University – Fluids Lab<br>Bus transfer  |
| 5.00 - 6.00pm   | Networking event  |
| 6.30pm          | Dinner – The Conservatory, E1/17 Jellicoe St, Nth Viaduct, Akld CBD   |

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#### Day Two – Thursday 12 March

|             |  |
|-------------|--|
| 8.30-9.00am | Welcome Tea & Coffee   |
| 9am         | Day 2 Opening comments - <i>Nadia Nitsche, Chair, Modelling Group</i>  |
| 9.05am      | Keynote Address – <b>Bertrand Salmi – Water Technology</b> - Banyule Swamp, my neighbour, will you give me a glass of water?                                   |
| 9.45am      | Word from one of our sponsors - <b>JEFF BOOTH</b>  |
| 10.00am     | Morning Tea  |
| 10.30am     | BRANZ workshop residential end-use project <b>Andrew Pollard (BRANZ) and Lesley Smith (Water New Zealand)</b>  |
| 12pm        | Complexity in Modelling – <i>Ben Davies - Stantec</i>  |
| 12.30pm     | Lunch – <b>Vue Restaurant level 13 Grand Mercure</b>   |
| 1.15pm      | Modelling Group AGM  |
| 1.30pm      | The use of Dynamic Freeboard – <i>Kristin Stokes - Jacobs</i>  |
| 2.00pm      | Use of detailed flood models for options analysis – <i>Ivan Kholodov – Wellington Water</i>  |
| 2.30pm      | Runoff estimation for an ungauged catchment - the Piha flood hazard modelling – <i>Kevin Fan – Auckland Council</i>  |
| 3.00pm      | Afternoon Tea  |
| 3.30pm      | Word from one of our sponsors - <b>JDHI</b>  |
| 3.45pm      | Modelling long-term volume retention in a reuse rainwater tank – <i>Jahangir Islam – AECOM New Zealand</i>   |
| 4.15pm      | Development and assessment of a reservoir sediment management routine for the soil and water assessment tool– <i>Jayandra Shrestha – Canterbury University</i> |
| 4.45pm      | Detailed 2D Modelling for Puhoi - Tests on model parameters and software – <i>Jorge Astudillo – Auckland Council</i>   |
| 5.15pm      | Symposium close  |

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