

Thursday morning					
*student talk <sup>J</sup> JSIAM/ANZIAM collaboration					
9:00–9:50	<b>Invited talk: Roberts, Tony J.</b> Form macroscale models via an ensemble of microscale phase-shifts (p25) <i>Chair: Herbert Huppert</i>				
	<b>Upper North</b> <i>Chair: Pascal Buenzli</i>	<b>Upper South</b> <i>Chair: Mark Flegg</i>	<b>Lakeview</b> <i>Chair: Bronwyn Hajek</i>	<b>Business Centre</b> <i>Chair: Phil Broadbridge</i>	<b>Summit Centre</b> <i>Chair: Pierluigi Cesana</i>
10:00–10:20	<b>Han, Daniel Seungmin</b> Self-reinforcing persistent random walks (p64)	<b>Roberts, Melanie</b> Modelling interventions in the MERGE gully erosion model (p107)	<b>Valdinoci, Enrico</b> Long-range capillarity theory (p122)	<b>Kukreja, Vijay</b> Solution of Fisher's and Burger's-Fisher equation using septic Hermite collocation method (p81)	<b>Warne, David</b> Generalised likelihood profiles for models with intractable likelihoods (p122)
10:20–10:40	<b>Pan, Michael</b> Modelling resource limitation and competition in gene regulatory networks (p103)	<b>Plank, Michael</b> Forecasting Covid-19 in Aotearoa New Zealand (p105)	<b>Stokes, Yvonne</b> The effect of internal structure on the stability of fibre drawing (p116)		<b>Saini, Lalit Mohan</b> Optimization of switching frequency and pulse width of buck converter based inverter (p110)
10:40–11:00	Morning tea on The Deck				

Thursday morning (continued)					
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	<b>Upper North</b> <i>Chair: J. Flegg</i>	<b>Upper South</b> <i>Chair: J. Holloway-Brown</i>	<b>Lakeview</b> <i>Chair: Mike Chen</i>	<b>Business Centre</b> <i>Chair: Graeme Hocking</i>	<b>Summit Centre</b> <i>Chair: Murk Bottema</i>
11:00–11:20	<b>Berry, Matthew</b> Predicting protection against Mpox infection (p47)	<b>Simpson, Matthew</b> Efficient prediction, estimation and identifiability analysis with mechanistic mathematical models (p113)	<b>Thamwattana, Natalie</b> Bio-geochemical clogging in permeable reactive barriers when treating acidic groundwater (p120)	<b>Campbell, Daniel</b> Injectivity in second-gradient nonlinear elasticity (p51)	<b>Haythorpe, Michael</b> Determining the crossing numbers of certain graph products (p66)
11:20–11:40	<b>Penington, Catherine</b> Spatial dynamics of inflammation-causing and commensal bacteria in the gastrointestinal tract (p104)	<b>Beeton, Nick</b> Spatial modelling for population replacement of mosquito vectors at continental scale (p47)	<b>Broadbridge, Philip</b> Reaction-diffusion models for fish populations with realistic mobility (p49)	<b>Lather, Jagdeep Singh</b> Synchronization of two coupled quadcopters using contraction theory (p82)	<b>Neogy, Samir Kumar</b> On solving a class of graph theoretic nonconvex optimization problems (p97)
11:40–12:00	<b>Sohail, Ayesha</b> Optimizing noninvasive ventilation strategies: a comparative study of mathematical models and machine learning approaches (p115)	<b>Flegg, Mark</b> Exact SSA for disease population dynamics coupled to within-host dynamics (p59)	<b>Forbes, Larry</b> FireNado! (p59)	<b>Matsue, Kaname<sup>J</sup></b> A unified characterization of blow-up solutions for ODEs through dynamics at infinity (p88)	<b>Tam, Matthew</b> A decentralised algorithms for min-max problems (p118)
12:10–1:00	<b>Invited talk: Jenner, Adrienne</b> Compare the pair: mathematics of disease responses and treatment variability (p22) <i>Chair: Alys Clark</i>				
1:00–1:10	Closing remarks and presentation of the Cherry Ripe Prize				
1:10–2:00	Lunch on The Deck				