

# ORSNZ Conference 2019 Schedule

## Tuesday 3 December – OSHA Day on Health

08:30	Registration		
08:50	Welcome		
09:00	Plenary	Vicky Mabin	Use of reframing in evidence-based modelling to support policy decisions
10:00	Morning tea		
10:20	Logistics & Scheduling	Maaïke Vollebergh, Caroline Jagtenberg, Jo Røislien	Who will be covered and who will be left behind? Advising the Norwegian Air Ambulance Foundation on fairness
10:40		Caroline Jagtenberg, Andrew Mason	Improving fairness in ambulance planning by time sharing
11:00		Snigdha Saha, Olivier Graffeuille	The optimisation of milk collection
11:20		Isaac Cleland, Andrew Mason, Michael O'Sullivan	Automatic nurse rostering for the Waikato District Health Board
11:40		Thomas Adams, Michael O'Sullivan, Cameron Walker	Comparison of objective functions for scheduling surgeries
12:00	Lunch		
12:40	Forecasting & Simulation	Michael O'Sullivan	Simulation of Dargaville Medical Centre
13:00		Kian Wee Soh, Cameron Walker, Michael O'Sullivan	The utility of hybrid models in model selection or model averaging for predicting surgery durations
13:20		Ai June Lau, Michael O'Sullivan, Cameron Walker, Ilze Ziedins	Length of stay variability, and forecasting short-term unit occupancy, in an ICU
13:40		Toya Shaw, Thomas Adams, Cameron Walker, Michael O'Sullivan, Anil Nair, Franco Schreve	Implementation of a pod system in a hospital emergency department
14:00		Andreas W. Kempa-Liehr, Christina Lin, Randall Britten, Delwyn Armstrong, Jonathan Wallace, Dylan Mordaunt, Michael O'Sullivan	Healthcare pathway discovery, conformance, and enrichment
14:20	Afternoon tea		
14:40	Analytics Forum (401.439, 20 Symonds St)	Margaret Brandeau	What should we do about the opioid epidemic? Models to support good decisions
15:40	Analytics Forum		
16:45	Drinks + Pizza		
19:00	ORSNZ Dinner (Ima Cuisine)		

## Wednesday 4 December

08:30	Tea/Coffee		
09:00	ENR Session on Energy and Emissions	James Tipping	Key questions facing the NZ electricity sector - how can analytics help?
09:40		Andy Philpott, Anthony Downward, Regan Baucke	Multistage capacity planning using JuDGE
10:00		Anthony Downward, Andy Philpott	Management of hydro reservoirs with emissions charges and more renewables
10:20		Stephen Poletti	Market power in the NZ wholesale market 2010-2016
10:40		Grant Read	Panel Discussion
11:20	Morning tea		
11:40	Traffic & Logistics	James Tidswell, Andrea Downward, Clemens Thielen, Andrew Raith	Minimising emissions in traffic assignment with non-monotonic arc costs
12:00		Ali Akbar Sohrobi, Andrea Raith	Finding an interval without negative cycles in shortest path sub-problems of a column generation approach for bi-objective multi-commodity flow
12:20		Parameshwaran Iyer, Ronald Veldman, Yao Zhang	Universal locker systems for urban metros
12:40		Michael Zhang, Andrea Raith, Andrew Mason	Airline scheduling and crew scheduling rule modelling
13:00	Lunch (AGM)		
14:00	Decision Support & Analysis	Christopher Peace, Victoria J. Mabin, Carolyn Cordery	The goal tree: a research and practical tool
14:20		Warren Fitzgerald, Robert Y. Cavana, Vipul Jain	Preliminary system dynamics analysis of waste management practices in New Zealand
14:40		Hrishi Kodthuguli, Michael O'Sullivan, Cameron Walker	Developing a decision making tool for Housing New Zealand
15:00		Graham Scott, Victoria J. Mabin	The real problem with budgeting: A systems approach to the issues
15:20		Richard Logan, Robert Y. Cavana, Ian Yeoman, Bronwyn Howell	The danger of oversimplifying complexity: Pike River - A mining disaster in New Zealand
15:40	Afternoon tea (Council Meeting)		
16:00	Analysing Complex Problems	Victoria J. Mabin, Robert Y. Cavana, John Davies	Analysis of complex social issues: a multi-framing systems thinking case study of alcohol sales in New Zealand supermarkets
16:20		Maryam Mirzaei, Victoria J. Mabin	Application of evaporating cloud to project dilemmas
16:40		Sarah Marshall, Richard Arnold, Stefanka Chukova, Yu Hayakawa	Mean value function of an alternating geometric process
17:00	YPP and JAG Prizegiving		