



## Day 1 | Thursday 21 November 2019

9:00	Introduction:	<b>Professor Richard Blaikie</b> Deputy Vice-Chancellor (Research and Enterprise), University of Otago
9:15	Keynote:	<b>Dr Laura Watts</b> Ethnographer of futures and author of <i>Energy at the End of the World: An Orkney Islands Saga</i> .
10:15	<b>Session: Changing energy cultures. (Chair: Sean Connelly)</b>	
10:15	<b>Kakau Foliaki, Janet Stephenson, Ben Anderson and Patrick Vakaoti</b>	Understanding the energy cultures of Tongan households: Implications for effective energy efficiency policy.
10:30	<b>Mariona Alcaraz-Corbella</b>	How much does a nearly zero-energy building (nZEB) housing stock cost? A case study in multi-property apartment buildings in Barcelona.
10:45	<b>Morning tea</b>	
11:00	<b>Session: Decarbonising energy systems. (Chair: Sandra Mandic)</b>	
11:00	<b>Jen Purdie, Grant Telfar</b>	Balancing the energy trilemma: Modelling the New Zealand electricity system out to 2050.
11:15	<b>Michael Jack/ Janet Stephenson</b>	Decarbonising New Zealand's energy system: More supply infrastructure or more demand flexibility and efficiency?
11:30	<b>Tsani Rakhmah, Nathan Berg and Sean Connelly</b>	Quantifying firm-level barriers to more effective private sector involvement in the transition to low carbon energy systems.
11:45	<b>Dougal McQueen</b>	A tool for identification and evaluation of pump hydro energy storage opportunities.
12:00	<b>Lunch</b>	
13:00	Keynote:	<b>Dr Christina Hood</b> Internationally recognised policy expert in climate change, energy and carbon pricing.
14:00	<b>Session: Climate session I. (Chair: Sara Walton)</b>	
14:00	<b>Douglas Hill and Sean Connelly</b>	Climate leaders coalition: Corporate social responsibility for transformative change?
14:15	<b>Eugene Kavale</b>	Politically founded, scientifically grounded: Can New Zealand's action on climate change be improved?
14:30	<b>Pam McKinlay</b>	There's no such thing as a free lunch.
14:45	<b>Session: Poster presentations</b>	
15:00	<b>Afternoon tea / poster viewings</b>	
16:00	<b>Session: Climate session II. (Chair: Inga Smith)</b>	
16:00	<b>Anna P. Tarr, Inga J. Smith and Craig J. Rodger</b>	Carbon dioxide emissions from international air transport of people and freight.
16:15	<b>Helen Roberts, Ivan Diaz-Rainey, Sebastian Gehrlicke and Renzhu Zhang</b>	Trump vs. Paris: The impact of climate policy and climate risk on US-listed oil and gas firm valuation.
16:30	<b>Bridie Lonie</b>	Connecting the dots, again: Citizen art.
16:45	<b>Bob Lloyd</b>	The Greta effect.
17:00	<b>Close</b>	

## Poster presentations

Scott Willis, Renee Gordon, Tess Rushton, Cisse Van Meervenne, Martin Kean | Climate safe housing: Building better for climate justice.  
 Helen Prime, Sam Lowrey, Richard Blaikie, Zhifa Sun | Characterising micro and nanopatterned surfaces for anti-icing applications.  
 Duncan Thomas, Cem Akcaoglu, Zhifa Sun, Stephen Moratti | Computational fluid dynamics (CFD) analysis of domestic heat storage systems.  
 Zoe Louyot, Cem Akcaoglu, Zhifa Sun, Stephen Moratti | Characterisation and manufacturing composite pellets for thermochemical heat storage systems.  
 Jean Vassalli, Oseweuba Valentine Okoro, Zhifa Sun | Economic assessment of the desulphurisation of biogas using sewage.  
 Eugene Kavale | Politically founded, scientifically grounded: Can New Zealand's action on climate change be improved?  
 Inga J. Smith, Andrew G. Pauling, Cecilia M. Bitz, Katherine Lilly, Patricia J. Langhorne, Christina L. Hulbe | Modelling the impacts of increased Southern Ocean freshwater fluxes in CCSM4.

## Day 2 | Friday 22 November 2019

9:00	Welcome	
9:05	Keynote:	<b>Dr Ben Anderson</b> Principal Research Fellow in the Energy and Climate Change Division and current holder of the prestigious EU Marie Skłodowska-Curie Global Fellow.
10:05	<b>Session: Digitalisation of energy and the energy of digitalisation. (Chair: David Eysers)</b>	
10:05	<b>Jens Gröger</b>	Energy consumption of software.
10:20	<b>Rafferty Parker and Michael Jack</b>	An exploration of statistical models for forecasting hot water electricity demand.
10:35	<b>Morning tea</b>	
11:05	<b>Session: More energy technology or less? (Chair: Michael Jack)</b>	
11:05	<b>Bill Currie/Sarah Wakes</b>	Small scale distributed wind: The Thinair turbine as a case study of the technical and commercial challenges of introducing an innovative renewable generation option.
11:20	<b>Cem Akcaoglu, Louis Cordier, Raphael Carnet, Zhifa Sun and Stephen Moratti</b>	Experimental investigation of laboratory-scale thermochemical heat storage systems.
11:35	<b>Jack Forsman</b>	The role of bicarbonate in limiting damage to Photosystem II.
11:50	<b>Sandra Mandic, Andrew Jackson, John Lieswyn, Jennifer S. Mindell, Enrique Garcia Bengoechea, John C. Spence, Ben Wooliscroft, Celia Wade-Brown, Kirsten Coppel and Erica Hinckson</b>	Multi-sector and multidisciplinary endeavour to develop key policy recommendations for increasing active transport in New Zealand.
12:05	<b>Lunch</b>	
13:00	Panel discussion:	<b>Anna Berka</b> (Academic Consult), <b>Elrond Burrell</b> (Passive House Institute New Zealand), <b>Eric Pyle</b> (Solar City), <b>Nico Vessiot</b> (Powerco), <b>Martin White</b> (emhTrade). (Chair: Janet Stephenson)
15:00	<b>Best student presentation awards. (Sponsor: Aurora Energy)</b>	
15:15	<b>Close</b>	