

Southern Exposure: Antarctic Research at the University of Canterbury

Conference programme

Thursday, 30 January 2020

(Rehua Te Moana nui a kiwa)

9:00	Opening of the Conference Mihi (Corban Te Aika)
9:15	Welcome by the Director of Gateway Antarctica, Prof Adrian McDonald
9:30	Update on Logistics and Funding within the New Zealand Antarctic Programme (Fiona Shanhun)
9:45	Screening of the documentary: Te Whakairo
10:00	Conference session (15 minutes per oral presentation) Māori Connections to Antarctica (Billy van Uitregt) History of Architecture in Antarctica through a biophilic lens (Katelyn Hudson)
10:30	Morning tea break and poster session
11:00	Conference session (15 minutes per oral presentation) A New Reagent-free Battery-powered Remotely-deployable Water Quality Monitoring System (Deb Crittenden) Combining satellite and ground based observations of cloud phase over the Southern Ocean (Cameron McErllich) Land of the Foehn: Spatial and temporal characteristics of Foehn events in the Dry Valleys of Antarctica (Peyman Zawar-Reza) Impacts of Strong Surface Winds over the Ross Sea Polynya (Adrian McDonald) Exploring how musical compositions can reflect scientific, natural and historical phenomena as part of a broad picture of Antarctica (Patrick Shepherd) Past and Present: Can we use historical research to assess current Arctic trends and challenges? (Ron Doel)
12:30	Lunch
1:30	Conference session (15 minutes per oral presentation) The Philosophy of Law and Geopolitics Interface in Antarctica (Alan Hemmings) Marine Protected Areas in the Southern Ocean: Reflections on an Evolving Web of Legal Mechanisms (Natasha Gardiner) Antarctica and the Southern Ocean in South American imagination (Pablo Wainschenker) What and who is an Antarctic ambassador? (Karen Alexander)
2:30	World Café workshop: Introduction and strategic goals
3:00	Afternoon tea and poster session
3:30	World Café workshop to develop an interdisciplinary Antarctic and Southern Ocean research cluster
5:30	Public talk and Antarctic quiz at Kaiser Beer Garden (Level 1/96 Oxford Terrace, Christchurch City)

Friday, 31 January 2020

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9:00	Welcome by the Head of School, Prof Jamie Shulmeister
9:15	Conference session (15 minutes per oral presentation) 30 Years of Korea's Antarctic Microbial Research (HongKum Lee) Ross Sea Region Ecology in a Warming World: Terrestrial Hydro-climates (Marwan Katurji) Fire and Ice - Looking for New Thermophilic Micro Organisms on Mt Erebus (Matthew Stott) Toward the Development of In Vitro Biofilm Model in Antarctica (Yilei Zhang) In the Neighbourhood: Adélie Penguin Populations in the Ross Sea Region (Fiona Shanhun)
10:30	Morning tea break and poster session
11:00	Conference session (15 minutes per oral presentation) Toward a standardized monitoring program for ice-obligate predators in the Southern Ocean (Michelle LaRue) Satellite imagery and citizen science reveal the ecology of Crabeater seal distribution in the Weddell Sea (Mia Wege) Secret life of seals: Using Seal-mounted Cameras to Assess Behavioural Ecology of Lactating Female Weddell Seals in McMurdo Sound, Antarctica (Rose Foster) Remote sensing of Southern Ocean phytoplankton blooms in a warming world (Shinae Montie) The link between geophysics and earth observation - perspectives for polar remote sensing at UC (Wolfgang Rack) Investigating ice shelf and sea ice interactions with field validated electromagnetic induction and satellite remote sensing techniques (Gemma Brett)
12:30	Lunch
1:30	Conference session (15 minutes per oral presentation) Ice-Tongue stability in a changing world (Rodrigo Gomez Fell) Bedrock reconstruction from free surface data for unidirectional glacier flow with basal slip (Liz McGeorge) Wind-driven sea-ice drift estimation from high-resolution satellite images in the Ross Sea, Antarctica (Usama Farooq) Hillary's Hut VR Project (Francesca Eathorne)
2:30	World Café workshop
3:00	Afternoon tea and poster session
3:30	World Café workshop: Final discussion and conclusion
4:30	Closing of the conference and award ceremony