



Antarctic Science Platform Conference Wellington 17 – 20 November 2020

Tuesday, 17 November 2020

Victoria University of Wellington, Kelburn Parade, Te Toki a Rata Foyer

Conference Icebreaker and National Modelling Hub Opening

- 17:00-18:30 **Hon David Parker, Minister for the Environment**
Opening of the National Modelling Hub
MC Prof. Margaret Hyland – VUW Vice-Provost (Research)
A/Prof. Nick Golledge – Chair of the National Modelling Hub
A/Prof. Sandy Morrison – Chair of the Antarctic Science Platform Kāhui Māori
(Te Toki a Rata Foyer)
- 18:30-19:00 Antarctic Science Conference Icebreaker (Te Toki a Rata Foyer)

Wednesday, 18 November 2020

Victoria University of Wellington, Pipitea Campus, Rutherford House, LT 1

Nau Mai / Welcome

- 8:00-8:50 Registration
9:00-9:10 **A/Prof. Nancy Bertler and A/Prof. Sandy Morrison**
Nau Mai / Welcome

Chair A/Prof. Huw Horgan – Research Priority 1: Understanding the Stability of the West Antarctic Ice Sheet (RH LT 1)

- 9:10-10:10 **Prof. Christina Hulbe**
Overview of the Aotearoa New Zealand Ross Ice Shelf Programme and transition into ASP – highlights and on-going plans (9:10-9:30am)
- Dr. Dan Lowry**
Addressing uncertainty in projections of the Antarctic Ice Sheet's future sea level contribution (9:30-9:50am)
- Dr. Jamey Stutz**
Deflated: Glacial thinning stories from the Transantarctic Mountains (9:50-10:10am)

Tuesday

Wednesday



10:10-10:30 Morning Tea (RHMZ 06)

Chair Dr. Natalie Robinson— Research Priority 2: Understanding the Impacts of Change in the Antarctic Atmosphere and Southern Ocean (LT 1)

10:30 -12:10 **Prof. Craig Stevens**

Antarctic Oceans and the ASP: Past, Present and Future (10:30-10:50am)

Dr. Denise Fernandez

Driving the ASP with Ocean Data: A synthesis of available observations and modelling (10:50-11:10am)

Dr. Olivia Truax

Past is prologue: integrating proxy records and model simulations to reconstruct Holocene Ross Sea climate variability (11:10-11:30am)

A/Prof. Richard Levy (Invited Talk)

Te tai pari o Aotearoa - Future Sea Level Rise around New Zealand's Dynamic Coastline (11:30-11:50am)

Dr. Mike Williams (Invited Talk)

The Deep South Challenge: climate modelling and climate adaptation for New Zealand (11:50am-12:10pm)

12:10-13:00 Lunch (RH MZ 06)

Chair Prof. Pat Langhorne – Research Priority 3: Understanding Threats to Ecosystem Dynamics in the Ross Sea region (RH LT 1)

13:00 -14:00 **Dr. Matt Pinkerton (Invited Talk)**

Ross Sea Research and Monitoring Programme (Ross-RAMP): How can we tell if the world's largest Marine Protected Area is effective (13:00-13:20)

Dr. Graham Rickard

Using the global coupled CMIP ensemble of models for present day and future projections for the Ross Sea region and Southern Ocean (13:20-13:40)

Dr. Jocelyn Turnbull

Diagnosing changes in Southern Ocean overturning circulation from atmospheric radiocarbon observations (13:40-14:00)



Chair Prof. A/Prof. Wolfgang Rack – Research Priority 4 : Understanding Change in Terrestrial and Nearshore Antarctic Environments (RH LT 1)

14:00-15:00 **Dr. Inga Smith**

A review of platelet ice: The Southern Ocean's hidden ice (14:00-14:20)

Dr. Gemma Brett

Satellite altimetry detection of ice shelf-influenced fast ice (14:20-14:40)

Ben Jolly

Towards a unified collaborative environment for geospatial data analysis in the Ross Sea Region (14:40-15:00)

15:00-15:30 Afternoon Tea (RH MZ 06)

Chair Prof. John Cottle – Open Session of Invited Talks (RH LT 1)

15:30-16:50 **A/Prof. Sandy Morrison**

Mātauranga Māori and Te Ao Māori in the Context of Antarctic Research (15:30-15:50)

Simone Hartmann and Simon Shelton

Operations/Scott Base Redevelopment Update (15:50-16:10)

Ceisha Poirot

New Zealand science and environmental protection: Where are the opportunities? (16:10-16:30)

Dr. Fraser Morgan

Antarctic Data Analysis Tool – Interactive Visualization of Scientific Data (16:30-16:50)

Reflections and Closing of the Day (RH LT 1)

16:50-17:00 **Prof. Tim Naish and Prof. Ian Hawes – ASP Programme Leaders**
A/Prof. Sandy Morrison – Chair ASP Kāhui Māori

Polar Film Night (RH LT 1)

18:30-20:35 **New Zealand Antarctic Society (Wellington Branch) – Dr. Jamey Stutz (RH LT 1)**

Polar Film Night -Antarctica 'Through Fresh Eyes' & Explorers Club Polar Film Fest
Antarctica Through Fresh Eyes (18:30-19:05)

Break with refreshments provided by the Antarctic Research Centre (19:05-19:20)

Explorers Club Polar Film Festival with Sarah Bouckoms (19:20-20:30)

Closing (20:30-20:35)



Thursday, 19 November 2020

Victoria University of Wellington, Pipitea Campus, Rutherford House

Nau Mai / Welcome (RH LT 1)

8:00-8:50 Registration
9:00-9:10 **A/Prof. Nancy Bertler**
Nau Mai / Welcome

Chair A/Prof. Nancy Bertler – Stakeholder Plenary Session (Invited Talks, RHLT1)

9:10-10:30 **Dr. Geoffroy Lamarche**
The importance of evidence-based information and research to maintain or improve the quality of the New Zealand environment (9:10-9:30)

Prof. Tim Naish
The Uncertain Contribution of Antarctic Ice Sheets to Future Sea-Level rise: Implications & Impacts (9:30-9:50)

Dr. Andy Reisinger
The Relevance of Antarctic Research for Environmental Policy (9:50-10:10)

Prof. James Renwick
NZ Climate Change Impacts from the Deep South (10:10-10:30)

10:30-11:00 Morning Tea (RH MZ 03)

Chair Dr. Neil Gilbert – Stakeholder Plenary Session (Invited Talks, RH LT 1)

11:00-13:00 **Jana Newman**
Addressing the Information Gaps in Developing Evidence-Based Policy across the Antarctic Treaty System (11:00-11:20)

Prof. Ian Hawes
Projecting Ecosystem Responses to Climate Change (11:20-11:40)

11:40-12:30 **Panel Discussion facilitated by Dr. Neil Gilbert**
Panel Members: Dr. Geoffroy Lamarche, Dr. Andy Reisinger, Jana Newman, Prof. John Cottle

Reflections and Closing of the Antarctic Science Conference (RH LT 1)

12:30-12:40 **Gillian Wratt – Chair Antarctic Science Platform Steering Group**



12:40-13:30 Lunch (RH MZ 03)

Commencement of the Antarctic Science Platform Workshops

- 13:00-16:30 **Dr. Neil Gilbert**
Ross Sea Marine Protected Area (MPA) Stakeholder Workshop (by invitation only)
(RH LT 3)
- 13:00-16:30 **A/Prof. Richard Levy and A/Prof. Huw Horgan**
ASP Project 1 Planning and Implementation Workshop (Project 1 members only)
(RH MZ 02)
- 13:30-14:30 **Georgia Nelson**
Sharing your research with everyday New Zealanders
(RH 104)

15:00-15:30 Afternoon Tea (RH MZ 03)

16:30-17:30 Reception (Light Refreshments and Beverages, RH G 24)

Continuation of the Antarctic Science Platform Workshops

- 17:00-18:30 **Prof. Ian Hawes**
Enhancing Opportunities for Vessel-Based Science
(RH LT3)



Friday, 20 November 2020

Victoria University of Wellington, Pipitea Campus, Rutherford House

Continuation of the Antarctic Science Platform Workshops

- 8:00-10:00 **Prof. James Renwick, Dr. Natalie Robinson, Prof. Miles Lamare, A/Prof. Nancy Bertler**
Prioritisation of Sea Ice Research - Opportunities, Challenges and Key Deliverables
(RH MZ 03)
- 9:00-12:00 **A/Prof. Sandy Morrison**
Mātauranga Māori and Te Ao Māori in the Context of Antarctic Research
(RH LT 3)
- 9:00-10:00 **Georgia Nelson**
Sharing your research with everyday New Zealanders
(RH 104)
- 10:15-13:00 **A/Prof. Nick Golledge & Dr. Liz Keller**
Future Projections and Modelling Hub Workshop
(RH MZ 05 & 06)

9:30-10:30 Morning Tea (RH 102)

12:30-13:00 Lunch (RH 102)

- 13: 15-14:15 **Georgia Nelson**
Sharing your research with everyday New Zealanders
(RH 104)
- 13:15-15:30 **Prof. Miles Lamare and Dr. Charlie Lee**
Ross Sea ecosystem responses to warming: Building new capacity and knowledge
to understand and forecast change
(RH MZ 03)