

Annual Antarctic Conference 2006
Tuesday 4th to Thursday 6th July
Maclaurin Lecture Complex, Victoria University of Wellington

Day 1	Tuesday 4th July	
8.30-10.50	Registration for workshop participants	
9.00-12.00	LGP Workshop: Cotton Building, Room 228 (for registered participants of workshop)	
10.50-12.00	ANDRILL Workshop: Cotton Building, Room 216 (for registered participants of workshop)	
12.00-12.30	Lunch – Workshop participants only	
12.30-1.00	General Registration	
1.00-1.05	Introduction Dean Peterson	Science Strategy Manager, Antarctica New Zealand
1.05-1.10	Welcoming Address Professor Pat Walsh	Vice-Chancellor, Victoria University of Wellington
1.10-1.15	Opening Address Hon Chris Carter	Minister of Conservation
<u>ANTARCTICA NEW ZEALAND MANAGEMENT TEAM – Key points from each area</u>		
1.15-1.35	Lou Sanson	Chief Executive
1.35-1.50	Dean Peterson	Science Strategy Manager
1.50-2.10	Julian Tangaere	Operations Manager
2.10-2.25	Neil Gilbert	Environmental Manager
2.25-2.40	Emma Reid	Communications Manager
2.40-3.20	Question Time with Antarctica New Zealand Panel	
3.20-3.50	Afternoon tea	
	Science Strategy Theme: Antarctic Physical Environments Research Sub-Themes: The Lithosphere/Ice-Free Regions Chair: Peter Barrett, Antarctic Research Centre, Victoria University of Wellington and the Joint Antarctic Research Institute	
3.50-4.10	Age of the Transantarctic Mountains in Northern Victoria Land (K104) Rupert Sutherland	GNS Science
4.10-4.30	Climate, Glacial Erosion and Uplift of the Transantarctic Mountains Tim Stern	School of Earth Sciences, Victoria University of Wellington
4.30-4.50	Physical Volcanology of a Trachyte – Phonolite – Basanite Assemblage, Mount Morning, Antarctica Adam Martin	Department of Geology, University of Otago New Zealand Post Postgraduate Scholar 2005/2006
4.50-5.10	Geometry and Contact Relationships of High-Level Intrusions, Coombs Hills, Ferrar LIP, Antarctica Emilie Guégan	Department of Geology, University of Otago
5.10-5.30	The Importance of Dating the Dry Valley Landscapes Martin Schiller	Antarctic Research Centre, Victoria University of Wellington

6.00-7.30 **Mid-Winter Function** – Government House
 Presentation of the 2006/2007 Scholarships
 Sponsored by the Joint Antarctic Research Institute (GNS Science and Victoria University of Wellington)

Day 2 Wednesday 5th July

8.30-9.00 Registration

Chair: Matthew Bartholomew, International Advisor, Ministry of Fisheries

9.00-9.40 Keynote: Antarctica the Great Integrator: Developing an Ecosystem Approach
 Dr. John Glaister Chief Executive, Ministry of Fisheries

9.40-10.00 Integrating Decades of Antarctic Research – Producing a Trophic Model of the Ross Sea
 Janet Bradford-Grieve National Institute for Water and Atmospheric Research

10.00-10.20 Marine Protection in the Antarctic - Preliminary Results from the Balleny Islands Research Cruise
 Franz Smith Independent Researcher

10.20-10.50 Morning tea

Science Strategy Theme: Southern Ocean Research

Chair: Matthew Bartholomew, International Advisor, Ministry of Fisheries

10.50-11.10 The Meroplankton Community of the Northern Ross Sea: a Preliminary Comparison with the
 McMurdo Sound Region
 Mary Sewell School of Biological Sciences, University of Auckland

11.10-11.30 DNA repair in Echinoid Embryos Across Latitudinal and Experimental Temperature Gradients
 Miles Lamare Department of Marine Science, University of Otago

11.30-11.50 Fish with Warm Hearts: Thermal Acclimation in the Cardiovascular System of *Pagothenia
 borchgrevinki*
 Esme Robinson School of Biological Sciences, University of Canterbury
 Kelly Tarlton's Postgraduate Scholar 2004/2005

11.50-12.10 Fatty Acid Transport In Antarctic Notothenioid Fish – Evidence for Cold Adaptation?
 Victoria Metcalf School of Biological Sciences, University of Canterbury

12.10-12.30 Ice, Mud, Science and Poetry
 Mary Livingston Ministry of Fisheries

12.30-1.20 Lunch

Chair: Kerry McDonald, Antarctica New Zealand Board Member

1.20-2.10 Science Presentations from the Outside in: Challenges and Solutions for Scientists Presenting to
 People Outside their Field
 Lee Wilkinson Director, Communicate Consultants

2.10-2.30 New Zealand and the Scientific Committee on Antarctic Research (SCAR)
 Bryan Storey Gateway Antarctica, University of Canterbury

2.30-2.50 New Zealand's Contribution to the International Polar Year (IPY)
 Dean Peterson Science Strategy Manager, Antarctica New Zealand

2.50-3.10 Introduction of Posters

3.10-3.50 Poster session and afternoon tea

Science Strategy Theme: Physical Environments Research/ Antarctic Ecosystems Research

Sub-Themes: The Cryosphere/ Management and Conservation

Chair: Warren Dickinson, Antarctic Research Centre, Victoria University of Wellington

- 3.50-4.10 Structural Evolution of Aprons at the Margins of Cold Glaciers: Implications for the Apron Entrainment Model of Basal Ice Formation
Sean Fitzsimons Department of Geography, University of Otago
- 4.10-4.30 The Role of Cryoconite Holes in the Hydrological System, Wright Lower Glacier, McMurdo Dry Valleys
Shelley MacDonell Department of Geography, University of Otago
Sir Robin Irvine Doctoral Scholar 2005/2006
- 4.30-4.50 Stress and Fear in Adelie Penguins
John Cockrem Institute of Veterinary, Animal and Biomedical Sciences, Massey University
- 4.50-5.10 Anthropological Research and Applications in the Antarctic
Jessica O'Reilly Fulbright Fellow, Gateway Antarctica, University of Canterbury/Department of Anthropology, University of California

5.10 Close

6.30-7.30 Pre-dinner drinks for dinner registrants

7.30-Midnight Dinner

The Dockside, Queen's Wharf

Day 3

Thursday 6th July

Chair: Tim Naish, GNS Science and the Joint Antarctic Research Institute

- 9.00-9.40 Keynote: The New Zealand Antarctic Sea Ice Programme: Overview and Sea Ice Applications of Magnetic Resonance in McMurdo Sound
Professor Paul Callaghan MacDiarmid Institute for Advanced Materials and Nanotechnology, School of Chemical and Physical Sciences, Victoria University of Wellington
- 9.40-10.01 Antarctic Forcing of the Ocean – Yesterday, Today and Tomorrow
Lionel Carter Antarctic Research Centre, Victoria University of Wellington
- 10.00-10.20 Understanding Oceanographic Variability in McMurdo Sound and its Implications
Mike Williams National Institute for Water and Atmospheric Research

10.20-10.50 Morning tea

Education, Arts, Media and Culture

Chair: Emma Reid, Communications Manager, Antarctica New Zealand

- 10.50-11.10 Degrees of Separation
Laurence Fearnley Author
- 11.10-11.30 Integration, Engagement and Connection
Bette Flagler Freelance Journalist
- 11.30-11.50 Youth Not on Thin Ice Anymore
Blair Gilbert, Mark Smith, Thomas Hayes, Kerryn Yates Project K
- 11.50-12.30 Design for Survival
David Trubridge Sculptor

12.30-1.20	Lunch
	<p>Science Strategy Theme: Antarctic Physical Environments Research/Southern Ocean Research Sub-Themes: The Cryosphere/ Oceanography of the Ross Sea/ Marine Ecosystems Chair: Tim Naish, GNS Science and the Joint Antarctic Research Institute</p>
1.20-1.40	<p>Sedimentation and Water Properties Under the McMurdo Ice Shelf Gavin Dunbar Antarctic Research Centre, Victoria University of Wellington</p>
1.40-2.00	<p>Diatom Record of a Glacial to Interglacial Transition Beneath the McMurdo Ice Shelf, Antarctica Margaret Harper School of Earth Sciences, Victoria University of Wellington</p>
2.00-2.20	<p>Modelling Platelets in Antarctic Sea Ice Mark McGuinness School of Maths, Statistics, and Computer Science, Victoria University of Wellington</p>
2.20-2.40	<p>Productivity and Ecophysiology of Antarctic Sea Ice Bacteria Andrew Martin School of Biological Sciences, Victoria University of Wellington New Zealand Post Postgraduate Scholar 2004/2005</p>
2.40- 3.00	Introduction of posters
3.00-3.40	Poster session and afternoon tea
	<p>Science Strategy Theme: Antarctic Ecosystems Research Sub-Themes: Terrestrial Biodiversity/ Ecosystem Functioning Chair: Mike Hannah, School of Earth Sciences, Victoria University of Wellington</p>
3.40-4.00	<p>Adaptive or Selective –Lichens in Antarctica Allan Green School of Biological Sciences, University of Waikato</p>
4.00-4.20	<p>Monitoring Antarctic Airborne Fungal Spores Within Four Antarctic Special Protected Areas of the Ross Sea Region Roberta Farrell School of Biological Sciences, University of Waikato</p>
4.20-4.40	<p>Distribution and Adaptations in Nematodes from the Cape Hallett Region, Northern Victoria Land Mélianie Raymond Department of Zoology, University of Otago Kelly Tarlton's Postgraduate Scholar 2005/2006</p>
4.40-5.00	<p>Remembering the Old Days – Can Microbial Mats be Used as Indicators of Past Conditions? Donna Sutherland National Institute for Water and Atmospheric Research</p>
5.00-5.10	Closing Remarks Lou Sanson
5.10	Close of Conference