

December 2006 (15)

1. IPY

The IPY budget process continues. The cabinet paper has been seen and noted by Cabinet. There is still a few issues with who will front the budget bid, but all of that is being worked through. We are still hopeful for a positive indication from the government in February 2007.

2. Field Experience with K049

Dean spent two weeks at the Whitehall Glacier with K049 (Nancy Bertler's group) working on ice coring. The group had done the Ground Penetrating Radar (GPR) work to identify the drill site on the glacier before Dean and one student (Julia Bull) arrived. The group of six then created a snow pit for the drill rig and began drilling into the glacier to retrieve a core sample of glacial ice as deep as possible for the duration of their stay. Dean went out into the field to get a first-hand understanding of the conditions of Antarctic research in a deep field camp.

3. LGP Special Edition of *Antarctic Science* is **HOT OFF THE PRESS.** This edition contains 18 LGP-related papers from New Zealand, U.S. and Italian groups whose work contributes to the LGP. Thanks are due to all financial and scientific contributors, editors, reviewers and the staff of *Antarctic Science* who made this special edition possible. Check out this link for a full list of papers: <http://journals.cambridge.org/action/displayIssue?jid=ANS&volumeld=18&issueeld=04>

4. LGP International Workshop (July 2006, Hobart) - Final Report available: This workshop was a very successful forum for presenting much of the work that is being undertaken under the framework of the LGP and for discussion on where the LGP should progress in the future. There was particular emphasis on strengthening current, and fostering new, international collaborations especially in the Antarctic Peninsula. This compilation of workshop presentations and discussions can be downloaded from: <http://www.lgp.aq/conferences/> (note this will take some time to download due to file size). If you would like a hard copy of the report - just send me an email and I will mail you a copy. Many thanks to the SCAR programme EBA (Evolution and Biodiversity in Antarctica) for contributing funds for the printing of this report.

5. Congratulations to Tim Haskell of Industrial Research Ltd who has been awarded the Marsden Medal for a lifetime of outstanding service to science, with a particular mention about his Antarctic research. This was awarded at the Annual Science Honours Dinner held in Auckland in November. Tim has been studying sea ice processes in Antarctica for over 20 years.

6. ANDRILL

The ANDRILL project has reached 700 metres below the sea floor! They are now cementing off the second diameter section and are in the process of going down to the last diameter hole size. They are still looking at the real opportunity of reaching 1200 meters before stopping the drilling in January. I would hope that you all have had a chance to read the press on the project and to look at the ANDRILL web site www.andrill.org There is a huge amount of information on the project now at this site and weekly updates, videos and articles. Congratulations to ALL involved with ANDRILL, I know it hasn't been easy, but you really doing a wonderful job.

7. Professor William Davison

Just when you think you Bill has had a good year, he has received another honour. Bill has been made full Professor at Canterbury University. Congratulations Bill !!!

8. Applications for the 2007 Antarctic Science Bursary are now open. Go to: <http://www.antarcticbursary.org.uk/index.php> for more information.

Reminders:

10. Ant NZ Postgraduate scholarships: Deadline March 9th 2007. See <http://www.antarcticanz.govt.nz/research/1027>

11. 50-Year Anniversary Conference: Duxton Hotel, Wellington. 2-6 July 2007. Note that this replaces Ant NZs Annual Antarctic Conference for 2007.

Publications submitted to Ant NZ this month:

Stevens, M.I. Hogg, I.D

The molecular ecology of Antarctic terrestrial and limnetic invertebrates and microbes.

in: Trends in Antarctic terrestrial and limnetic ecosystems: Antarctica as a global indicator. Bergstrom D.M. Convey P. Huiskes A.H. (eds.) Dordrecht, The Netherlands: Springer. 2006. pp. ISBN 1-4020-5276-6

Langhorne, P.J. Purdie, C.R. Smith, I.J. Leonard, G.H. Kempema, E.W. Petrich, C. Gribble, M.A. Bond, P.E. Haskell, T.G.

Antarctic landfast sea ice: the role of platelet ice.

in: Proceedings of the 18th IAHR International Symposium on Ice, 28 August 1 September, 2006, Sapporo, Japan, Vol. 1. Sakei H. (ed) Hokkaido University, Japan: Nakanishi Publishing Co. Ltd.. 2006. pp.285-292 ISBN 4-89115-152-8

Leonard, G.H. Purdie, C.R. Langhorne, P.J. Haskell, T.G. Williams, M.J.M. Frew, R.D.

Observations of platelet ice growth and oceanographic conditions during the winter of 2003 in McMurdo Sound, Antarctica.

Journal of geophysical research 111: C04012, 2006.

doi: 10.1029/2005JC002952

Petrich, C. Langhorne, P.J. Sun, Z.F.

Modelling the interrelationships between permeability, effective porosity and total porosity in sea ice.

Cold regions science and technology 44(2): 131-44, 2006.

doi:10.1016/j.coldregions.2005.10.001

Pringle, D.J. Trodahl, H.J. Haskell, T.J.

Direct measurement of sea ice thermal conductivity: No surface reduction.

Journal of geophysical research 111: C5, C05020, 2006.

doi: 10.1029/2005JC002990

Lamare, M. Barker, M.F. Lesser, M.P. Marshall, C.

DNA photorepair in echinoid embryos: effects of temperature on repair rate in Antarctic and non-Antarctic species.

Journal of experimental biology 209: 5017-5028, 2006.

doi:10.1242/jeb.02598

Harrowfield, D.L. Analysis of timber weathering and wind velocity at Cape Adare, with comments on other historic sites in Antarctica.

Polar record 42(223): 291-307, 2006.

doi: 10.1017/S0032247406005584

November 2006 (14)

1. Invited Visitor Programme: Antarctica New Zealand has just hosted two Invited Visitor groups in Antarctica. The first group consisted of the Hon Steve Maharey (Minister of Science), Dr Helen Anderson (COE MoRST) and Dr Keith Turner (CEO of Meridian Energy). The group was shown a number of science events supported and held discussions on science relevance for New Zealand work undertaken in the Antarctic. The visit coincided with the first day of core recovery for the ANDRILL project. Thank you to all of the scientists involved with the visit for your time and energy, which helped make this a very successful few days.

The second group consisted of Leslie Middleton (General Manager MoRST), Dr Alex Malahoff (CEO GNS) and Prof Peter Barrett (ARC Director). The group concentrated on ANDRILL; how this project is progressing and its importance to New Zealand.

2. ANDRILL is fully underway with core being recovered from the ocean floor. The drill system is operating correctly and everything is 'go'. There are 57 scientists involved with the project on the Ice and many more are at each of the four countries involved. The project is a few days behind schedule, but should be able to proceed to the target of 1200 metres of core before the cut-off day in January.

3. The **IPY** cabinet paper is almost finalised and will soon be sent off for a decision from government on New Zealand's participation on IPY. Once that has been received a budget bid will be sent to Treasury.

4. NZ Student Involvement in the International Polar Year: The Youth Steering Committee (YSC) for the International Polar Year was established last year to ensure the IPY meets its aim of including the "next generation of Polar Scientists" through its activities. In New Zealand, the YSC is focusing its efforts on a project called the Polar Contests. This will involve networking early career polar researchers and engaging this network in outreach to secondary schools. The NZ YSC is currently looking for students working in polar research to join their online network and share their research and experiences of the Polar Regions with other youth. For more information, please see: www.ipyyouthnz.org.

5. The Conferences and Workshop web page on the Ant NZ website has been updated. This can be found at: <http://www.antarcticanz.govt.nz/education/6699>. If you know of any relevant events that are not on this page, do let Shulamit know so it can be added.

6. The Antarctic Treaty Secretariat has released its recent newsletter. Go to: <http://www.ats.aq/> to download it.

Reminders:

7. Please send Shulamit contact details for any of your **students** who would be interested in being added to the student liaison email list.

8. Ant NZ Postgraduate scholarships: Deadline March 9th 2007. See <http://www.antarcticanz.govt.nz/research/1027>

9. 50-Year Anniversary Conference: Duxton Hotel, Wellington. 2-6 July 2007.

Publications Submitted to Ant NZ this month:

Ayling, B.F. McGowan, H.A.

Niveo-eolian sediment deposits in coastal South Victoria Land, Antarctica: indicators of regional variability in weather and climate.

Arctic, Alpine and Antarctic Research 38(3): 313-324, 2006.

Cockrem, J.F. Potter, M.A. Candy, E.J.

Corticosterone in relation to body mass in Adelie penguins (*Pygoscelis adeliae*) affected by unusual sea ice conditions at Ross Island, Antarctica.

General and comparative endocrinology 149: 244-252, 2006.

doi:10.1016/j.ygcen.2006.06.002

Danesi, S. Bannister, S. Morelli, A.

Repeating earthquakes from rupture of an asperity under an Antarctic outlet glacier.

Earth and planetary science letters, 2006.

doi:10.1016/j.epsl.2006.10.023

Elliott, C.

Rock weathering along the Victoria Land coast, Antarctica.

Ph.D., University of Canterbury, 2006.

Lowe, C.J. Davison, W

Thermal sensitivity of scope for activity in *Pagothenia borchgrevinki*, a cryopelagic Antarctic nototheniid fish.

Polar biology 29: 971-977, 2006.

doi: 10.1007/s00300-006-0139-0

October 2006 (13)

1. International Polar Year: The Officials Antarctic Committee has completed a paper on IPY for Cabinet. The paper will be submitted to Cabinet later this month, which outlines New Zealand's plans for IPY and asks for a direction on how much effort and funding New Zealand is willing to put into IPY projects. Once a response is given by Cabinet a budget bid to Treasury for IPY will be completed and sent out for funding for FY2007/08.

2. 50-Year Anniversary Conference: The 50-Year Anniversary Conference Committee met at Antarctica New Zealand last week to finalise the conference agenda. The conference will be five days long and held at the Duxton Hotel in Wellington from 2-6 July 2007. All speakers for the conference will be invited speakers. Research presentations focused on current research that would normally have been presented at the annual conference will be asked to be in poster form for this special 50-Year celebration. We are looking forward to a very interesting and comprehensive conference highlighting all the research and international collaborations over the past fifty years with an eye toward the future. More information to come shortly.

3. Antarctica NZ Student Liaison: Resulting from conversations with several students at this year's Antarctic conference and recognising that students are our Principle Investigators of the future, Shulamit has become an informal 'student liaison' for Ant NZ, so that graduate students who have questions on Antarctic science issues/event issues etc have a first point of contact. They will also receive these science update emails. She sent an email out to the students she did know of and got a great positive response to the idea. To broaden this email list, Shulamit would be grateful if you could supply her with the names and emails of any students you have who might benefit from receiving this information.

4. Leaflets and posters for the 2007/08 Postgraduate Antarctic Scholarships were mailed out last week. If you did not receive these and would like some, or you'd like more, please contact Shulamit. You can also go to <http://www.antarcticanz.govt.nz/research/1027> for more information. Please bring these scholarships to the attention of any appropriate students.

5. The New Zealand Antarctic Online Bibliography has just been updated. Check out: <http://www.antarcticanz.govt.nz/education/1135>

Publications submitted to Antarctica NZ this month:

Geology

Ross, P.-S. White, J.D.L. Reubi, O.

Ferrar large igneous province rocks at Allan Hills, South Victoria Land.

Canadian Antarctic research network newsletter 21: 8-10, 2006.

Soils and Geomorphology

Aislabie, J.N. Chhour, K.-L. Saul, D.J. Miyauchi, S. Ayton, J. Paetzold, R.F. Balks, M.R.

Dominant bacteria in soils of Marble Point and Wright Valley, Victoria Land, Antarctica.

Soil biology and biochemistry 38(10): 3041-3056, 2006.

doi:10.1016/j.soilbio.2006.02.018

Ayling, B.F. McGowan, H.A.

Niveo-eolian sediment deposits in coastal South Victoria Land, Antarctica: indicators of regional variability in weather and climate.

Arctic, Alpine and Antarctic Research 38(3): 313-324, 2006.

Elberling, B. Gregorich, E.G. Hopkins, D.W. Sparrow, A.D. Novis, P. Greenfield, L.G.
Distribution and dynamics of soil organic matter in an Antarctic dry valley.
Soil biology and biochemistry 38: 3095-3106, 2006.
doi:10.1016/j.soilbio.2005.12.011

Gregorich, E.G. Hopkins, D.W. Elberling, B. Sparrow, A.D. Novis, P. Greenfield, L.G.
Rochette, P.
Emission of CO₂, CH₄ and N₂O from lakeshore soils in an Antarctic dry valley.
Soil biology and biochemistry 38: 3120-3129, 2006.
doi:10.1016/j.soilbio.2006.01.015

Hopkins, D.W. Sparrow, A.D. Novis, P.M. Gregorich, E.G. Elberling, B. Greenfield, L.G.
Controls on the distribution of productivity and organic resources in Antarctic Dry Valley soils.
Proceedings of The Royal Society 273: 2687-2695, 2006.
doi: 10.1098/rspb.2006.3595

Hopkins, D.W. Sparrow, A.D. Elberling, B. Gregorich, E.G. Novis, P.M. Greenfield, L.G.
Tilston, E.L.
Carbon, nitrogen and temperature controls on microbial activity in soils from an Antarctic dry
valley.
Soil biology and biochemistry 38: 3130-3140, 2006.
doi:10.1016/j.soilbio.2006.01.012

Panicker, G. Aislabie, J. Bej, A.K.
Analysis of aggregative behavior of *Pseudomonas* sp. 30-3 isolated from Antarctic soil.
Soil biology and biochemistry 38(10): 3152-3157, 2006.
doi:10.1016/j.soilbio.2006.02.006

Marine Biology

Lowe, C.J. Davison, W.
Thermal sensitivity of scope for activity in *Pagothenia borchgrevinki*, a cryopelagic Antarctic
nototheniid fish.
Polar biology 29: 971-977, 2006.
doi: 10.1007/s00300-006-0139-0

Terrestrial Biology

Adams, B.J. Bardgett, R.D. Ayres, E. Wall, D.H. Aislabie, J. Bamforth, S. Bargagli, R. Cary,
C. Cavacini, P. Connell, L. et al.
Diversity and distribution of Victoria Land biota.
Soil biology and biochemistry 38(10): 3003-3018, 2006.
doi:10.1016/j.soilbio.2006.04.030

Barrett, J.E. Virginia, R.A. Hopkins, D.W. Aislabie, J. Bargagli, R. Bockheim, J.G. Campbell,
I.B. Lyons, W.B. Moorhead, D.L. Nkem, J.N. et al.
Terrestrial ecosystem processes of Victoria Land, Antarctica.
Soil biology and biochemistry 38: 3019-3034, 2006.
doi:10.1016/j.soilbio.2006.04.041

Hogg, I.D. Cary, S.C. Convey, P. Newsham, K.K. O'Donnell, A.G. Adams, B.J. Aislabie, J.
Frati, F. Stevens, M.I. Wall, D.H.
Biotic interactions in Antarctic terrestrial ecosystems: Are they a factor?
Soil biology and biochemistry 38(10): 3035-3040, 2006.
doi:10.1016/j.soilbio.2006.04.026

Sinclair, B.J. Stevens, M.I.

Terrestrial microarthropods of Victoria Land and Queen Maud Mountains, Antarctica: Implications of climate change.

Soil biology and biochemistry 38(10): 3158-3170, 2006.

doi:10.1016/j.soilbio.2005.11.035

Stevens, M.I. Hogg, I.D.

Contrasting levels of mitochondrial DNA variability between mites (Penthalodidae) and springtails (Hypogastruridae) from the Trans-Antarctic Mountains suggest long-term effects of glaciation and life history on substitution rates, and speciation processes.

Soil biology and biochemistry 38(10): 3171-3180, 2006.

doi:10.1016/j.soilbio.2006.01.009

September 2006 (12)

1. International Polar Year: The Officials Antarctic Committee (OAC) is working on a paper to Cabinet outlining options for New Zealand's commitment to IPY. The paper will ask for a steer from government for the up coming budget bid for FY 2007/08 for IPY. Once Cabinet has indicated the level of commitment an appropriate budget bid will be developed and submitted by the OAC. If successful, an announcement of new funding will be made early in 2007 and proposals will be sought from individuals related to the 37 IPY project previously identified. Go to: <http://www.antarcticanz.govt.nz/major-projects/9494> for more information.

2. Southern Ocean Marine Research Workshop: In March 2006 the OAC submitted a paper to Cabinet titled 'The Strategy for the Future Management of the Marine Living Resources and Biodiversity of the Ross Sea'. The cabinet paper was in response to Government's strategic interests in increasing New Zealand's focus on Southern Ocean issues. To follow-up on the cabinet paper and begin the planning of the Census of Antarctic Marine Life project, a one-day Southern Ocean Marine Workshop was held on, 15 August 2006 at NIWA, Greta Point. A total of 32 marine researchers from the universities, NIWA and GNS, currently doing Southern Ocean research, were represented at the workshop. The workshop was focused on creating outcomes and objectives for New Zealand's contribution to the Census of Antarctic Marine Life. A report of the workshop is currently being written.

3. NSF Trans Antarctic Mountains Workshop: A NZ delegation consisting of Shulamit Gordon, Peter Barrett, Bryan Storey and Craig Cary attended a 2-day workshop in Columbus, Ohio to join U.S scientists in discussing potential future scientific research in the Trans Antarctic Mountains. The workshop was a great success in bringing multi-disciplinary groups together to identify specific study sites for multi-disciplinary research camps. More information can be found at: http://www-bprc.mps.ohio-state.edu/workshops/tam_2006.php

3. Planning for the 50-Year Anniversary Conference is underway. This conference will be held at the Duxton Hotel in Wellington from 2-6 July 2007 and will celebrate the many accomplishments of science, arts and education over the past 50 years. The planning committee has met twice now and is coming up with a very interesting agenda with an international flavour. So highlight those dates in your calendar!

4. Several Postgraduate Antarctic Scholarships are on offer for the 2007/08 season. Leaflets advertising these will be mailed out in the next few weeks. Meanwhile, you can go to <http://www.antarcticanz.govt.nz/research/1027> for more information. Please bring these scholarships to the attention of any appropriate students.

Reminders:

5. Science Review and 2000-2005 Bibliography: Hard copies of these publications are available from us upon request. If you would like a copy of one or both of these documents, please let us know by return email.

Publications submitted to Antarctica NZ this month:

Atmospherics

Baumgaertner, A.J.G. Jarvis, M.J. McDonald, A.J. Fraser, G.J.
Observations of wavenumber 1 and 2 components of the semi-diurnal tide over Antarctica.
Journal of atmospheric and solar-terrestrial physics 68: 1195-1214, 2006.
doi:10.1016/j.jastp.2006.03.001

Marine Biology

Egginton, S. Campbell, H. Davison, B.
Cardiovascular control in Antarctic fish.
Deep-sea research II 53: 1115-1130, 2006.
doi: 10.1016/j.dsr2.2006.03.007

Thrush, S. Dayton, P. Cattaneo-Vietti, R. Chiantore, M. Cummings, V. Andrew, N. Hawes, I.
Kim, S. Kvitek, R. Schwarz, A.-M.
Broad-scale factors influencing the biodiversity of coastal benthic communities of the Ross Sea.
Deep-sea research II 53: 959-971, 2006.
doi:10.1016/j.dsr2.2006.02.006

Social Science

Stewart, E.J. Kirby, V.G. Steel, G.D.
Perceptions of Antarctic tourism: A question of tolerance.
Landscape research 31: 193-214, 2006.

Terrestrial Biology

Aislabie, J.M. Broady, P.A. Saul, D.J.
Culturable aerobic heterotrophic bacteria from high altitude, high latitude soil of La Gorce
Mountains (8630'S, 147W), Antarctica.
Antarctic science 18(3): 313-321, 2006.
doi:10.1017/S0954102006000368

Nolan, L. Hogg, I.D. Stevens, M.I. Haase, M.
Fine scale distribution of mtDNA haplotypes for the springtail *Gomphiocephalus hodgsoni*
(Collembola) corresponds to an ancient shoreline in Taylor Valley, continental Antarctica. Polar
biology 29: 813-819, 2006.
doi 10.1007/s00300-006-0119-4

Sinclair, B.J. Scott, M.B. Klok, C.J. Terblanche, J.S. Marshall, D.J. Reyers, B. Chown, S.L.
Determinants of terrestrial arthropod community composition at Cape Hallett, Antarctica.
Antarctic science 18(3): 303-312, 2006.
doi: 10.1017/S0954102006000356

August 2006 (11)

1. There will be no **interim bidding** round this year for the 2007/08 season. The next bidding round will be for two years of support for the 08/09 and/or 09/10 seasons. A call for proposals will be made in August 2007 with a deadline in early October. For more information on the application process go to:
<http://www.antarcticanz.govt.nz/science/1067?PHPSESSID=c53de8230ea69880d92ec0cc7cdd4fb9>

2. **International Polar Year (IPY):** The Officials Antarctic Committee is working on a paper to Cabinet outlining options for New Zealand's commitment to IPY. The paper will ask for a steer from government for the up coming budget bid for FY 2007/08 for IPY. Thank you for the information you have supplied us with on all the projects that New Zealand is working on for IPY.

3. The **IPY International Programme Office (IPO)** has published its first quarterly newsletter aiming to provide updates on IPO activities throughout the IPY. This can be downloaded at: <http://www.antarcticanz.govt.nz/major-projects/9494>

4. **Celebrating NZ Antarctic Scientists:** Four NZ Antarctic Scientists were bestowed honours during the year, recognizing their innovation, commitment and influence in the field of Antarctic research. Congratulations to them all.

a) **Professor Peter Barrett** - Director of Victoria University of Wellington Antarctic Research Centre. In June 2006, Peter was awarded the SCAR President's Medal for Outstanding Achievement in Antarctic Science. In a citation accompanying the Medal, the SCAR President noted Peter's contribution to bringing Antarctic science to a wider public audience and his role in establishing the international programme on Antarctic Climate Evolution.

b) **Professor Gary Wilson** – Geologist, University of Otago. Gary was one of six people nationwide to receive a 2006 Sir Peter Blake Emerging Leader Award. The aim of the Sir Peter Blake Trust is to create a legacy for Sir Peter of future generations of leaders who will use their passion and commitment to strengthen our country and contribute positively to the world in their chosen fields. The awards are presented annually to people recognized as younger leaders of considerable potential.

c) **Dr Victoria Metcalf** - University of Canterbury postdoctoral research fellow (Biological Sciences). Victoria has had a very successful year having been awarded three prestigious awards:

i) The ZONTA Science Award (NZD\$10 000 plus around-the-world airfares). For the best all round early-to-mid career woman scientist in New Zealand.

ii) The Antarctic Science Bursary (£4000). This is an international award that was given to four promising Antarctic scientists.

iii) The SCAR Fellowship (USD\$10 000) which is another highly competitive international award. Victoria will be using these funds to work in Boston for some months next year with the collaborators of her research project.

d) **Professor Bill Davison** – Professor of Biological Sciences, University of Canterbury. Bill will receive an honorary PhD from the University of Goteborg, Sweden later this year. The degree of *Doctor Honoris Causa* recognizes Bill's unique knowledge of Antarctic fish physiology and ecology and the inspiration he has bestowed upon fellow scientists all around the world, and for your hospitality to both researchers and students from the Department of Zoophysiology in Göteborg.

Reminders:

5. Science Review and 2000-2005 Bibliography: Hard copies of these publications are available from us upon request. If you would like a copy of one or both of these documents, please let us know by return email.

6. 2007 Conference: "50 Years of New Zealand Antarctic Science, IPY-IGY". This joint Antarctica New Zealand/ Royal Society of New Zealand conference will be held in Wellington from 2 to 6 July 2007, celebrating New Zealand's science activities in Antarctica. Please take note of these dates. More information to follow.

Publications submitted to Antarctica NZ this month:

Aislabie, J. Saul, D.J. Foght, J.M.
Bioremediation of hydrocarbon-contaminated polar soils.
Extremophiles 10: 171-179, 2006.
doi: 10.1007/s00792-005-0498-4

Cheng, C.-H. Cziko, P.A. Evans, C.W.
Nonhepatic origin of notothenioid antifreeze reveals pancreatic synthesis as common mechanism in polar fish freezing avoidance.
Proceedings of the National Academy of Sciences USA 103(27): 10491-10496, 2006.
doi: 10.1073/pnas.0603796103.

Dugger, K.M. Ballard, G. Ainley, D.G. Barton, K.J.
Effects of flipper bands on foraging behaviour and survival of Adlie penguins (*Pygoscelis Adeliae*).
Auk 123(3): 858-869, 2006.

Duncan, S.M. Farrell, R.L. Thwaites, J.M. Held, B.W. Arenz, B.E. Jurgens, J.A. Blanchette, R.A.
Endoglucanase-producing fungi isolated from Cape Evans historic expedition hut on Ross Island, Antarctica.
Environmental microbiology 8(7): 1212-1219, 2006.
doi: 10.1111/j.1462-2920.2006.01013.x

Held, B.W. Jurgens, J.A. Duncan, S.M. Farrell, R.L. Blanchette, R.A.
Assessment of fungal diversity and deterioration in a wooden structure at New Harbor, Antarctica.
Polar biology 29: 526-531, 2006.
doi: 10.1007/s00300-005-0084-3

Negri, A. Burns, K. Boyle, S. Brinkman, D. Webster, N.
Contamination in sediments, bivalves and sponges of McMurdo Sound, Antarctica.
Environmental pollution 143: 456-467, 2006.
doi: 10.1016/j.envpol.2005.12.005

Veevers, J.J. Belousova, E.A. Saeed, A. Sircombe, K. Cooper, A.F. Read, S.E.
Pan-Gondwanaland detrital zircons from Australia analysed for Hf isotopes and trace elements reflect an ice-covered Antarctic provenance of 700-500 Ma age, TDM of 2.0-1.0 Ga, and alkaline affinity.
Earth science reviews 76: 135-174, 2006.

Webster, N.S. Negri, A.P.
Site-specific variation in Antarctic marine biofilms established on artificial surfaces.
Environmental microbiology 8(7): 1177-1190, 2006.
doi: 10.1111/j.1462-2920.2006.01007.x

July 2006 (10)

1. **Annual Antarctic Conference, Victoria University of Wellington:** Once again the annual conference was a huge success. Thanks go out to all involved, especially everyone at VUW who made it all happen in a seamless way. Each year the calibre of the talks increases. Congratulations to all those who gave talks and presented posters. We are very proud of the effort made by the entire Antarctic community.
2. **IPY:** The planning for the International Polar Year has now turned a corner. We have received a large number of responses from an earlier email asking for input. Thanks to everyone who did respond. Dean is now putting together a budget bid paper with MoRST, MFAT, MFish, FRST and LINZ, which captures all the ideas and directions presented by the science and education and outreach communities related to IPY.
3. **SCAR Open Science Conference, Hobart:** Shulamit and Dean attended this conference from 8-15th July to attend various meetings and workshops. These are summarised below:
 - a) **International Latitudinal Gradient Project (LGP) Workshop:** This was held on Monday 10th July with approx 37 people from 13 countries attending throughout the day. Following an introduction to the LGP by Dean, Pete Convey from BAS gave an overview of the new SCAR programmes Evolution and Biodiversity in Antarctica (EBA) which the LGP fits within. A range

of short presentations by NZ and US scientists working under the LGP were then give to show how their work relates to the 8 key questions defined by the LGP. Clive Howard-Williams then led discussions on how other relevant research around the continent might be incorporated under the framework of the LGP. This could enable the comparison between latitudinal gradients in the Victoria Land Coast and the Antarctic Peninsula for example. Several links were made with other researchers which will be followed up. The workshop notes will be made available on the LGP website.

- b) **Joint Committee on Antarctic Data Management (JCADM):** Shulamit represented New Zealand as the coordinator of the National Antarctic Data Centre during this 4 day meeting. JCADM's role is to ensure that Antarctic data are stored in appropriate data repositories (national or international) and that information on these data (metadata) are submitted to the Antarctic Master Directory so that they can be easily traced and retrieved in the future. This process is very important to ensure that our collected investment into obtaining the data are not wasted by improper data storage. Shulamit will have already been in touch with many of the active principal investigators to help enter metadata as part of our post-season reporting process. At this meeting Shulamit became the JCADM liaison for the SCAR EBA programme, which will work well with her role as LGP Project manager.
- c) **SCAR Open Science Conference:** This was an impressive forum for international Antarctic Science, exemplified by the fact that at times there were 13 concurrent sessions. There was a high visibility of NZ scientists and their students with talks and posters being given in most disciplines. The NZ contingent made a great impression on the conference, particularly with the first ever SCAR President's medal awarded for service to the Antarctic community to Peter Barrett, and a SCAR scholarship awarded to Victoria Metcalf to undertake research in the US. Congratulations to Peter and Victoria!

June 2006 (9)

1. Census of Antarctic Marine Life (CAML): The International Polar Year project CAML continues its plans for the next few seasons. Dean was recently in Bremerhaven, Germany at the latest CAML Science Steering Committee meeting. Six nations have committed vessel time to the project and another seven are in the final planning stages for ship time. The first research voyage for CAML will be this year on the AWI RV Polarstern. The research voyage will be in the Weddell Sea and managed by Dr Julian Gutt. Dr Don Robertson from NIWA has begun a process of planning for the RV Tangaroa cruise in February 2008. Don has sent out an email about the plans. If you have not received an email please contact us and we will get the information to you.

2. International Polar Year (IPY): The Royal Society Committee on Antarctic Science met on 19 May to discuss the upcoming SCAR meeting and to plan for IPY. The committee up with a total of 43 projects that New Zealand is collaborating on for IPY. Dean and Clive Howard-Williams (NZ Delegate to SCAR) then presented the projects to the Officials Antarctic Committee (OAC) on 30 May. At the OAC meeting Dean was appointed the point of contact to put together an interdepartmental budget bid to Treasury for IPY funding. This will be for new money (science and logistical) specific for the IPY projects identified. There will be more information on this in a detailed email from Dean later this week.

3. Science PI Tour: A group of event planning people from Antarctica New Zealand has been touring the country, talking with scientists about their logistical needs for the 2006/07 Season. We feel that this is an important time to talk with most of you on a one-on-one basis. Thanks to all of you who have been available to talk and have a catch-up on science issues. We also hope that these Science Updates have been useful to keep you informed.

4. New Zealand Antarctic Bibliography 2000-2005: Thanks to all of you who let us know of any publications that we didn't already have in the bibliography. This will be published by the end of June and distributed at the Annual Antarctic Conference. If you are not going to the conference, but would like to receive a copy, please email Tash on n.edwards@antarcticanz.govt.nz with your contact details, and she'll send you one.

Reminder:

5. 2007 Conference: "50 Years of New Zealand Antarctic Science, IPY-IGY". This joint Antarctica New Zealand/ Royal Society of New Zealand conference will be held in Wellington from 2 to 6 July 2007, celebrating New Zealand's science activities in Antarctica. Please take note of these dates. More information to follow.

Publications submitted to Antarctica NZ this month:

Banks, J.C. Paterson, A.M.

Multi-host parasite species in cophylogenetic studies.

International Journal of Parasitology 35: 741-746, 2005.

Berkman, P.A. Cattaneo-Vietti, R. Chiantore, M. Howard-Williams, C. Cummings, V. Kvitek, R.

Marine research in the Latitudinal Gradient Project along Victoria Land, Antarctica.

Scientia Marina 69: 57-63, 2005.

Bertler, N.A.N. Mayewski, P.A. Aristarain, A. Barrett, P. Becagli, S. Bernardo, R. Bo, S. Xiao, C. Curran, M. Qin, D. et al.

Antarctic Snow Chemistry.

Annals of glaciology 41: 167-179, 2005.

Bertler, N.A.N. Barrett, P.J. Mayewski, P.A. Sneed, S.B. Naish, T.R. Morgenstern, U.

Solar forcing recorded by aerosol concentrations in coastal Antarctic glacier ice, McMurdo Dry Valleys.

Annals of glaciology 41: 52-56, 2005.

Mager, S.

A Compositional Approach to Understanding the Formation of Basal Ice in Antarctic Glaciers.
Ph.D., University of Otago: 2005.

Mayewski, P.A. Frezzotti, M. Bertler, N.A.N. van Ommen, T. Hamilton, G.S. Jacka, T.H.
Welch, B. Frey, M. Qin, D. Ren, J. et al.

The International Trans-Antarctic Scientific Expedition (ITASE) - An Overview.
Annals of glaciology 41: 10-13, 2005.

Patterson, N.G. Bertler, N.A.N. Naish, T.R. Morgenstern, U.

ENSO variability in the deuterium excess record of a coastal Antarctic ice core from the McMurdo
Dry Valleys, Victoria Land.

Annals of glaciology 41: 140-146, 2005.

Banks, C.J. Palma, R.L. Paterson, A.M.

Cophylogenetic relationships of penguins and their chewing lice.

Journal of Evolutionary Biology 19(1): 156-166, 2006.

doi:10.1111/j.1420-9101.2005.00983.x

Pannowitz, S. Green, T.G.A. Schlenz, M. Seppelt, R.D. Sancho, L.G. Schroeter, B.

Photosynthetic performance of *Xanthoria mawsonii* Dodge in coastal habitats, Ross Sea region,
continental Antarctica.

Lichenologist 38: 67-81, 2006.

van Woerden, T.H.

Volcanic geology and physical volcanology of Mount Morning, Antarctica.

M.Sc., University of Waikato: 2006.

Wheatley, K.E. Bradshaw, C.J.A. Davis, L.S. Harcourt, R.G. Hindell, M.A.

Influence of maternal mass and condition on energy transfer in Weddell seals.

Journal of Animal Ecology 75: 724-733, 2006.

doi:10.1111/j.1365-2656.2006.01093.x

May 2006 (8)

1. IPY meeting held by the Royal Society Committee on Antarctic Science (RSCAS). The RSCAS met on 19th May to discuss the projects that New Zealand plans to contribute to as part of the International Polar Year. IPY officially begins in April 2007 and closes at the end of March 2009. There are currently 72 projects that New Zealand is associated with, 27 of which have strong NZ connections. A paper from the RSCAS will be going to the Officials Antarctic Committee at the end of the month to begin a process for a bid to Treasury.

2. Annual Antarctic Conference, Victoria University of Wellington 4-6 July 2006.

Registrations close **June 2nd**. Go to <http://www.antarcticanz.govt.nz/article/6973.html#10429> for more information and registration form.

3. 2007 Conference: "50 Years of New Zealand Antarctic Science, IPY-IGY". This is the first notification of this joint Antarctica New Zealand/ Royal Society of New Zealand conference to be held in Wellington from 2 to 6 July 2007, celebrating New Zealand's science activities in Antarctica. Please take note of these dates. More information to follow.

Reminders:

4. Antarctica NZ Bibliography 2000-2005: A final reminder that we are planning to publish this bibliography in June. It will comprise references to publications by personnel supported by Antarctica NZ or its predecessors and will include scientific publications, theses, and internal University and Government reports. Short abstracts will not be included. If you haven't already, please look through the draft version of this bibliography which can be downloaded at: <http://www.antarcticanz.govt.nz/education/1135>. and see if there are any applicable publications that need to be added. Please send all comments to Shulamit by the end of May.

5. SCAR Open Science Meeting 12-14th July, Hobart. Click [here](#) for more information.

6. An LGP International workshop will be held in conjunction with the SCAR conference on July 10th. The proposed agenda can be found on the LGP website at: www.lgp.aq. Registration for this is through the general registration for the SCAR conference.

Publications submitted to Antarctica NZ this month:

Broady, P.A.

The distribution of terrestrial and hydro-terrestrial algal associations at three contrasting locations in southern Victoria Land, Antarctica.

Algological studies 118: 95-112, 2005.

Pannewitz, S. Green, T.G.A. Schlensog, M. Seppelt, R.D. Sancho, L.

Photosynthetic performance of *Xanthoria mawsonii* Dodge in coastal habitats, Ross Sea region, continental Antarctica.

Antarctic science 17(3): 341-352, 2005.

Pannewitz, S. Maysek, K. Schlensog, M. Seppelt, R.D. Sancho, L. Schroeter, B. Türk, Green, T.G.A.

The photosynthetic response of bryophytes to CO₂ concentrations, PPFD, temperature and water content measured at coastal sites, Ross Sea, Antarctica.

Polar biology 26: 545-551, 2005.

Wharton, D.A. Barrett, J. Goodall, G. Marshall, C.J. Ramløv, H.

Ice-active proteins from the Antarctic nematode *Panagrolaimus davidi*.

Cryobiology 51: 198-207, 2005.

Cottle, J.M. Cooper, A.F.

The Fontaine Pluton: an early Ross Orogeny calc-alkaline gabbro from southern Victoria Land, Antarctica.

New Zealand journal of geology and geophysics 49(2): 177-189, 2006.

Cottle, J.M. Cooper, A.F.

Geology, geochemistry, and geochronology of an A-type granite in the Mulock Glacier area, southern Victoria Land, Antarctica.

New Zealand journal of geology and geophysics 49(2): 191-202, 2006.

Kantvilas, G. Seppelt, R.D

Polysporina frigida sp. nov. from Antarctica.

Lichenologist 38(2): 109-113, 2006.

McClintock, M.K. White, J.D.L.

Large phreatomagmatic vent complex at Coombs Hills, Antarctica: Wet, explosive initiation of flood basalt volcanism in the Ferrar-Karoo LIP.

Bulletin of volcanology 68(3): 215-239, 2006.

doi: 10.1007/s00445-005-0001-1

Stevens, M.I. Fjellberg, A. Greenslade, P. Hogg, I.D. Sunnucks, P.

Redescription of the Antarctic springtail *Desoria klovstadi* using morphological and molecular evidence.

Polar biology: doi:10.1007/s003000-006-0120-y, 2006.

Wheatley, K.E. Bradshaw, C.J.A. Davis, L.S. Harcourt, R.G. Hindell, M.A.

Influence of maternal mass and condition on energy transfer in Weddell seals.

Journal of Animal Ecology 75: 724-733, 2006.

doi:10.1111/j.1365-2656.2006.01093.x

April 2006 (7)

1. Antarctica NZ Bibliography 2000-2005: We are planning to publish this bibliography in the next few months. It will comprise references to publications by personnel supported by Antarctica NZ or its predecessors and will include scientific publications, theses, and internal University and Government reports. Short abstracts will not be included. A draft version of this bibliography can be downloaded at: <http://www.antarcticanz.govt.nz/education/1135>. If you, your colleagues or students have published any relevant papers/theses/chapters/reports/books etc. over the 2000-2005 period, we urge you to please check that they are included in this bibliography. If you note any omissions or errors, please let Shulamit know. Also, entries marked with an asterisk are publications that Ant NZ does not have access to. If you have a copy/photocopy of these publications, they would also be gratefully received by Shulamit for the Ant NZ reprint collection. Please send all comments to Shulamit by the end of May.

2. A New Zealand Youth Steering Committee (YSC) for the IPY has been set up to encourage the participation of the next generation of polar scientists. The YSC is a network of student groups from around the world with an interest in polar research from a broad range of disciplines encompassing both the sciences and social sciences. For more information, a leaflet can be downloaded from: <http://www.antarcticanz.govt.nz/major-projects/9494>

Reminders:

3. 2006 Antarctic Conference will be hosted by Victoria University of Wellington from 4-6th July 2006. A draft outline of the programme will be sent, and the call for abstracts will be made in the first week of May with a registration deadline on **2nd June**.

4. Early bird registration date extended for the SCAR Open Science Meeting!! This deadline has been moved out to **April 30th**. Fees increase after this date. This meeting will be held from July 12-14th 2006 in Hobart. Click [here](#) for more information.

5. An LGP International workshop will be held in conjunction with the SCAR conference on July 10th. The proposed agenda can be found on the LGP website at: www.lgp.aq. Registration for this is through the general registration for the SCAR conference.

Publications submitted to Antarctica NZ this month:

Bertler, N.A.N. Naish, T.R. Mayewski, P.A. Barrett, P.J.

Opposing oceanic and atmospheric ENSO influences on the Ross Sea Region, Antarctica.

Advances in geosciences 6: 83-86, 2006.

Broady, P.A.

The distribution of terrestrial and hydro-terrestrial algal associations at three contrasting locations in southern Victoria Land, Antarctica.

Algological studies 118: 95-112, 2005

Wheatley, K.E. Bradshaw, C.J.A. Harcourt, R.G. Davis, L.S. Hindell, M.A.

Chemical immobilization of adult female Weddell seals with tiletamine and zolazepam: effects of age, condition and stage of lactation.

BMC veterinary research 2(8): doi: 10.1186/1746-6148/2/8, 2006.

March 2006 (6)

1. Science Events for next season 2006/07: Next season will be one of the largest ever supported and therefore we are still in a state of trying to accommodate a large number of events. After the February Board meeting, Dean wrote letters to all the PIs of proposed 06/07 events to explain what step of the acceptance/planning process each event is in. Many PIs are still waiting for a final decision on support. This will be made at the next Board meeting at the end of April. Thank you all for your patience on this, we are working hard to fit as much as possible into this next season.

2. Meetings in the US: Dean and Clive Howard-Williams (SCAR Vice-President) are on their way back from the US after several meetings with NSF, the National Academy of Sciences (Polar Programs) and NOAA about New Zealand's IPY plans and the next five years of science planned in Antarctica. Brian Young from MoRST was also at the meetings to better understand the Antarctic branch of New Zealand science. Brian is stationed in Washington DC as New Zealand's science attaché. He is very interested in the US/NZ relationship and sees the Antarctic programme as an important part of that. The meetings have begun a new future planning process that has been needed for years between the two countries. We look forward to being able to better support deep-field work through better long term planning.

3. The New Arrival Height Laboratory building has been erected and completion of the interior is being undertaken through the winter. The lab is scheduled to be fully commissioned and ready for occupancy by early October. Click [here](#) for a link to a webcam shot of the new building (and a further new addition it seems!).

4. A Latitudinal Gradient Project Science Steering Committee meeting was held at NIWA Wellington on March 14th. For those interested, the minutes can be found on the LGP website [here](#). Work at the LGP's first and northernmost site, Cape Hallett, has now been completed. Plans are now being made for further LGP studies at sites near the Darwin Glacier (terrestrial), and Terra Nova Bay (marine).

5. The call for Postgraduate Antarctic Research Scholarships applications has now closed. Twelve students applied for the three scholarships on offer this year (the Helicopter NZ Doctoral scholarship, and the Kelly Tarlton's and New Zealand Post scholarships). They will be notified of the outcome at the end of April.

6. Royal Society Communicator's Workshop will be held from 19-21 April in Wellington. Its a hands-on, 3-day course with tips on improving media skills, handling interviews, developing a clear writing style and expanding presentation skills. For more info go to the website [here](#).

Reminders:

5. The SCAR Open Science Meeting will be held from July 12-14th 2006 in Hobart. Registrations are now open. Click [here](#) for more information. Note that early bird registration has been EXTENDED to **14th April**. Fees increase after this date. With the proximity of this conference, we are hoping for a strong NZ turn out!

6. An LGP International workshop will be held in conjunction with the SCAR conference on July 10th. Registration for this is through the general registration for the SCAR conference.

7. 2006 Antarctic Conference will be hosted by Victoria University of Wellington from 4-6th July 2006. The call for abstracts will be made in early May.

Publications submitted to Antarctica NZ this month:

These are publications of research by people/events who have been supported by Antarctica NZ (or its predecessor) at some point in time. If you have any recent publications that fall into this

category, please send them to Shulamit. We will shortly be publishing a bibliography of 1999-2005 publications, so it is important that all relevant publications are included. We also maintain an [online bibliography](#) for your reference (updated annually in August).

Ainley, D.G. Ballard, G. Karl, B.J. Dugger, K.M. [K123]
Leopard seal predation rates at penguin colonies of different size.
Antarctic science 17(3): 335-340, 2005.

Baumgaertner, A.J.G. McDonald, A.J. Fraser, G.J. Plank, G.E [K055]
Long-term observations of mean winds and tides in the upper mesosphere and lower thermosphere above Scott Base, Antarctica.
Journal of atmospheric and solar-terrestrial physics 67: 1480-1496, 2005.

Cziko, P.A. Evans, C.W. Cheng, C.-H.C. DeVries, A.L. [K014]
Freezing resistance of antifreeze-deficient larval Antarctic fish.
Journal of experimental biology 209: 407-420, 2006.

Harrowfield, D.L. [K282]
Archaeology on ice: a review of historical archaeology in Antarctica.
New Zealand journal of archaeology 26: 5-28, 2004.

Hofstee, E.H. [Recipient of LGP Postgraduate Scholarship 04/05] [K123]
Soils and hydrology of Seabee Hook, Cape Hallett, Antarctica.
M.Sc., University of Waikato, 2006.

Lesser, M.P. Barry, T.M. Lamare, M.D. Barker, M.F. [K068]
Biological weighting functions for DNA damage in sea urchin embryos exposed to ultraviolet radiation.
Journal of experimental marine biology and ecology 328: 10-21, 2006.

Pannowitz, S. Green, T.G.A. Mayesk, K. Schlenso, M. Seppelt, R. Sancho, L.G. Trk, R. Schroeter, B. [K024]
Photosynthetic responses of three common mosses from continental Antarctica.
Antarctic science 17(3): 341-352, 2005.

Sinclair, B.J. Terblanche, J.S. Scott, M.B. Blatch, G.L. Klok, C.J. Chown, S.L. [K140]
Environmental physiology of three species of Collembola at Cape Hallett, North Victoria Land, Antarctica.
Journal of insect physiology 52: 29-50, 2006.

Skotnicki, M.L. Mackenzie, A.M. Clements, M.A. Selkirk, P.M. [past K022]
DNA sequencing and genetic diversity of the 18S-26S nuclear ribosomal internal transcribed spacers (ITS) in nine Antarctic moss species.
Antarctic science 17(3): 377-386, 2005.

February 2006 (5)

1. OS 20/20: The Ocean Survey 20/20 Advisory and Coordinating Committee has finalised the Cabinet paper outlining OS 20/20 recommendations and direction forward. The paper has been reviewed by the Minister for Land Information New Zealand and will be presented to Cabinet in the near future. The IPY Census of Antarctic Marine Life project is the number one priority for the 2007/08 year, which will guarantee 60% of the funding necessary for the CAML research voyage. There will still need to be a budget bid to Treasury in the next year for the additional ship costs and science funding.

2. Science Review: The report from the Independent Science Review Committee has been presented to the Board of Antarctica New Zealand. The recommendations from the committee were well received from the Board and action points are now being assigned from the committee's recommendations. The final draft of the report will be circulated for public viewing in the next few weeks.

3. ANDRILL: After a very interesting logistical season with Ice Breaker problems, sea ice difficulties and iceberg interruptions the US supply vessel and fuel tanker have made it to McMurdo. The ANDRILL drill rig and hot water drill rig was delivered to Scott Base. All of the equipment was checked out and is ready for our first season of drilling next year. The hot-water rig was tested at Windless Bight and Dr Naish's group was able to complete their research using a hole created in the ice shelf. Congratulations to all involved!

4. Shulamit has just returned from a 3 week voyage to the Ross Sea region and the Subantarctic Islands on board Quark Expedition's *I/B Kapitan Khlebnikov* as a New Zealand Government Representative. All tourist ships heading to these sites must carry on board a government representative from either DOC or Ant NZ to monitor landings and operations at all sites. The opportunity was also taken to conduct environmental monitoring at some of the sites visited. The experience was a valuable one and it was evident that the passengers were very appreciative of the efforts NZ takes to preserve and protect the Subantarctic and Antarctic environments. Taking advantage of the voyage ending in Hobart, Shulamit visited the Australian Antarctic Division and met with her science and National Antarctic Data Centre counterparts, as well as some key scientists.

Reminders:

5. The SCAR Open Science Meeting will be held from July 12-14th 2006 in Hobart. Registrations are now open. Click [here](#) for more information. Note that early bird registration is **31st March**. Fees increase after this date. Click [here](#) for download of pdf poster advertising the event. Please take the time to print some of these off to display at your institution. With the proximity of this conference, we are hoping for a strong NZ turn out!

6. An LGP International workshop will be held in conjunction with the SCAR conference on July 10th. Registration for this is through the general registration for the SCAR conference.

7. 2006 Postgraduate Antarctic Research Scholarships deadline is **March 10 2006**. Click [here](#) for more info.

8. 2006 Antarctic Conference will be hosted by Victoria University of Wellington from 4-6th July 2006.

January 2006 (4)

1. OS 20/20: The Ocean Survey 20/20 Advisory and Coordinating Committee met on 18 January to discuss the first draft of the Cabinet paper outlining OS 20/20 recommendations and direction forward. The first draft has begun to show the vast amount of work that the OS 20/20 group has done over the past year and outlined a way forward. There are still some major concerns about the document from the committee and therefore more work is needed before a final draft is produced. The IPY Census of Antarctic Marine Life project has been marked as the number one priority in the Cabinet paper for the 2007/08 year. Dean is looking forward to having a completed Cabinet paper by mid-February.

2. The deadline for submission of 2006 SCAR Abstracts has been extended to February 13 2006. The SCAR Open Science Meeting will be held from July 12-14th 2006 in Hobart. Registrations are now open. Click [here](#) for more information. Note that early bird registration is 31st March. Fees increase after this date. Click [here](#) for download of pdf poster advertising the event. Please take the time to print some of these off to display at your institution. With the proximity of this conference, we are hoping for a strong NZ turn out!

3. An LGP International workshop will be held in conjunction with the SCAR conference on July 10th. Registration for this is through the general registration for the SCAR conference.

4. Ant NZ's webpage listing general Antarctic interest conferences and workshops has been updated. Click [here](#). Please let Shulamit know if there are any events that should be added.

Correction:

5. The Non-Native Species in the Antarctic workshop is being convened by Antarctica New Zealand, Gateway Antarctica AND the centre for Biodiversity and Biosecurity (University of Auckland) in April 2006. Auckland was omitted in last month's message. For more information, contact Neil Gilbert at Antarctica NZ.

Reminders:

6. 2006 Postgraduate Antarctic Research Scholarships deadline is **March 10 2006**. Click [here](#) for more info.

7. 2006 Antarctic Conference will be hosted by Victoria University of Wellington from 4-6th July 2006.

8. 2nd Australia- New Zealand Climate Change & Business Conference: 20-21 February 2006, Adelaide, Australia. <http://www.climateandbusiness.com/>