

Antarctica New Zealand Science Update (40) February 2009

1. **Science Strategy:** The Ministers of Foreign Affairs, and Research, Science and Technology have agreed that the Draft Antarctic Science Strategy can be circulated to the Antarctic science community for consultation. We have sent a copy of the draft strategy and a covering letter to University and CRI research offices and directly to actively-engaged Antarctic scientists. We are now seeking written feedback from interested parties by 24 March. All submissions should be sent to Ed Butler at e.butler@antarcticanz.govt.nz. If you have any questions or have not received a copy of the draft strategy and would like to receive one, please call Ed on 03 3580205 or send him an email.
2. **Celebrations marking the end of the International Polar Year** are being held in Geneva, Switzerland on Wednesday 25th February. Antarctica New Zealand and the International Polar Year office have sponsored a New Zealand representative, Daniela Haase, to attend the celebrations. Daniela is the President of the Association of Polar Early Career Scientists and will be opening the celebrations at the World Meteorological Headquarters in Geneva.

Reminders:

3. Applications for the **Antarctic Postgraduate Scholarships** are due by **March 6 2009**. For more information contact Shulamit or go to: <http://www.antarcticanz.govt.nz/research/1027>
4. **2009 Antarctica New Zealand conference** from 1-3 July 2009 hosted by the University of Auckland. The general format of the conference can be found at: <http://www.antarcticanz.govt.nz/article/6973.html#10429>. More details on the conference will be available shortly. Conference registration will open in May. Antarctica NZ would like to acknowledge and thank the current sponsors of the conference: GNS Science, Ministry of Fisheries, Royal Society of New Zealand, Land Information New Zealand, and the Antarctic Attraction.

Some non-Ant NZ news of interest:

5. **International Polar Field School in Svalbard:** An Interdisciplinary Experience in Polar Studies. June 15- July 3, 2009. University Centre in Svalbard, Svalbard, Norway. Go to: <http://arcticportal.org/apecs/svalbard2009>
6. **Bilateral Research Activities Programme - Call for Applications:** Closing date is 4.00pm on Wednesday 15 April 2009 for activities which begin after 1 July 2009. Both the guidelines and application forms are available for downloading at <http://www.royalsociety.org.nz/site/funding/isat/default.aspx>
7. **Association of Polar Early Career Scientists (APECS)** February newsletter can be downloaded from: <http://arcticportal.org/uploads/TY/xr/TYxr1VDJ4voSenphp4u4sA/APECS-February-2009-Newsletter.pdf>

Publications submitted to Antarctica NZ this month:

Campbell, H. Davison, W. Fraser, K.P.P. Peck, L.S. Egginton, S.
Heart rate and ventilation in Antarctic fishes are largely determined by ecotype.
Journal of fish biology 74: 535–552 2009.
doi:10.1111/j.1095-8649.2008.02141.x

Fitzsimons, S.J. Webb, N. Mager, S. MacDonell, S. Lorrain, R. Samyn, D.
Mechanisms of basal ice formation in polar glaciers: an evaluation of the apron entrainment model.
Journal of geophysical research 113: F02010 2008.
doi:10.1029/2006JF000698.

Gregorich, E.G.
Soils research in the Antarctic Dry Valleys.
Canadian Antarctic research network newsletter 25: 1-6 2008.

Hawes, I.
The big freeze : summer-winter transitions in Antarctic ecosystems.
Antarctic 26(4): 76-77 2008.

McGaughran, A. Redding, G.P. Stevens, M.I. Convey, P.
Temporal metabolic rate variation in a continental Antarctic springtail.
Journal of insect physiology 55: 130-135 2009.
doi:10.1016/j.jinsphys.2008.10.009

Sandblom, E. Axelsson, M. Davison, W.
Circulatory function at sub-zero temperature: venous responses to catecholamines and angiotensin II in the Antarctic fish *Pagothenia borchgrevinki*.
Journal of comparative physiology B 179: 165-173 2009.
doi: 10.1007/s00360-008-0299-z

Wood, S.A. Mountfort, D.O. Selwood, A.I. Holland, P.T. Puddick, J. Cary, S.C.
Widespread distribution and identification of eight novel microcystins in Antarctic cyanobacterial mats.
Applied and environmental microbiology 74: 7243-7251 2008.