

Looking out my window, I can see fresh snow lit up by the sun on the mountains. Hopefully that is not heralding the end of summer! Welcome back everyone, some of us have been back for a couple of weeks, others just starting back in, and others of us heading off for a last chance break before semester starts (we're off to Manly (Sydney) on Tuesday, we hoped to find some sun but the weather looks pretty awful!). I know many academics have been using this quiet spell to complete the first draft of their PBRF Evidence Portfolio.

Matthew has been doing a sterling job looking after our interests on the central timetable - the 8 am Monday lecture seems to have disappeared! By the time we get to our first staff meeting on the 8th February the teaching timetable should be set in stone, and we hope to have some idea of the timetable for us to move back into the Biology Building. We also should be updated by then on the process and timetable for fixing the Research Building. By then we should also have a good idea of student numbers and the flow on to our budget for the year. Conservatively numbers seem to be looking okay at this stage - not brilliant but okay.

Quite clearly we are going to continue to have aftershocks, so staff it is important to make sure any new students know the earthquake procedures - and especially in the labs if we have to evacuate. Personal safety of course comes before equipment and experiments, but each Lab Manager should now have a plan of priorities, and everyone on a particular floor should know these, in event of a large aftershock.

On that note, and as this is the first newsletter for 2012, may I wish everyone a safe, productive and happy 2012.

Best regards

~ Paula ~

Building News

I guess the news that everyone wants to know is that we have unrestricted access across the linkway for this week. Note, however, that this can change at very short notice and we are likely not to be told about it. As an example, Concut decided to cut through the shearwall last Friday afternoon which affected access. The obvious comment is that if the linkway on level 2 looks closed, then it probably is, and you should use the alternative route, rather than pushing past the builders.

Von Haast. The latest news is that the engineers have been able to see what they need to see with just the covers taken off the heaters, which is excellent. The other good news is that they have decided not to remove the green tiles. Hopefully this means our labs and offices can be put back together fairly quickly.

New Building. The remediation team held a workshop last week to start putting together a plan for earthquake remediation. You may see some contractors fossicking around in the building, but the word is they have all the information they need.

The cardboard floor on level one was rejected by the MAF inspector during her recent inspection and this will need to be replaced.

Stage 2 (old Zoology). Lots of work is planned for the linkway between von Haast and Zoology but much of it will not affect us. Work is about to start on fitting new doors and this will affect space in von Haast. The big (100 tonne) crane is about to be located in the west end building site (hence the fluorescent paint markers). This is because work is to start on the lifts. As part of this exercise we will get a container walkway up the ramp into the new building.

Concut are continuing their work cutting various bits out of the building (and some of this will be on the outside of the building) so expect lots of noise this week. In addition, a lot of concrete will be pumped into the building, so expect noise from the concrete pump.

MAF Audit

As many of you will be aware, we had a major MAF audit last week. By-and-large this went very well, although the report sitting on my desk has 11 corrective actions and 12 recommendations which will keep Nicole and I busy for much of this week. Many of these problems are minor issues, but they come up at almost every audit. Four of these are:

1. Staff and students working in PC2 labs without lab coats. Meghan saw enough of this to warrant making this a corrective action. I cannot understand why people think it is Ok to be in a lab without protective clothing in the middle of a MAF audit.
2. Computers without keyboard covers. We all know this is a requirement, so why is this always an issue? One worrying aspect is that laptops are slowly working their way back onto workbenches.
3. Unlabelled material in a freezer. We found this because Meghan was specifically looking for it as an item that had been imported into the lab. We worked out it was the material she was looking for by a process of elimination. Any material in a PC2 lab (actually any lab) MUST be labelled, because it is potentially dangerous – if we don't know what it is, we can't make this call.
4. Stereo system on an active workbench. Any items like this must be in "clean" areas of the lab, not on the workbench. And of course it will need to be decontaminated before removal from the lab.

Bill

Latest publications in the school

Broggt, E., Sampson, K.A., Comer, K., Turnbull, M.H. and McIntosh, A.R. (2011). Using institutional research data on tertiary performance to inform departmental advice to secondary students. *Journal of Institutional Research* 16(2): 26-41.

Campbell, R.E., Harding, J.S., Ewers, R.M., Thorpe, S. and Didham, R.K. (2011). Production land use alters edge response functions in remnant forest invertebrate communities. *Ecological Applications* 21(8): 3147-3161.

Greig, H.S., Kratina, P., Thompson, P.L., Palen, W.J., Richardson, J.S. and Shurin, J.B. (2012). Warming, eutrophication, and predator loss amplify subsidies between aquatic and terrestrial ecosystems. *Global Change Biology* 18: 504-514.

Jackson, R.R. and Cross, F.R. (2011). Olfaction-based mate-odor identification by jumping spiders from the genus *Portia*. *The Journal of Arachnology* 39(3): 439-443.

Kornfeld, A., Horton, T.W., Yakir, D. and Turnbull, M.H. (2012). Correcting for nonlinearity effects of continuous flow isotope ratio mass spectrometry across a wide dynamic range. *Rapid Communications in Mass Spectrometry* 26: 460-468.

O'Brien, J.M., Hamilton, S.K., Kinsman-Costello, L.E., Lennon, J.T. and Ostrom, N.E. (2012). Nitrogen transformations in a through-flow wetland revealed using whole-ecosystem pulsed ¹⁵N additions. *Limnology and Oceanography* 57(1): 221-234.

Romero-Suarez, S., Jordan, B. and Heinemann, J.A. (2012). Isolation and characterization of bacteriophages infecting *Xanthomonas arboricola* pv. *juglandis*, the causal agent of walnut blight disease. *World Journal of Microbiology and Biotechnology*: doi: 10.1007/s11274-11011-10992-z.

Turnbull, M.H., Pharis, R.P., Kurepin, L.V., Sarfati, M., Mander, L.N. and Kelly, D. (2012). Flowering in snow tussock (*Chionochoa* spp.) is influenced by temperature and hormonal cues. *Functional Plant Biology* 39(1): 38-50.

Whitehead, D., Barbour, M.M., Griffin, K.L., Turnbull, M.H. and Tissue, D.L. (2011). Effects of leaf age and tree size on stomatal and mesophyll limitations to photosynthesis in mountain beech (*Nothofagus solandrii* var. *cliffortioides*). *Tree Physiology* 31: 985-996.

Xu, C.-Y., Turnbull, M.H., Tissue, D.T., Lewis, J.D., Carson, R., Schuster, W.S.F., Whitehead, D., Walcroft, A.S., Li, J. and Griffin, K.L. (2011). Age-related decline of stand biomass accumulation is primarily due to mortality and not to reduction in NPP associated with individual tree physiology, tree growth or stand structure in a *Quercus*-dominated forest. *Journal of Ecology*: doi: 10.1111/j.1365-2745.2011.01933.x.

Yang, Y.-T., Whiteman, M. and Giese, S.P. (2012). HOC1 causes necrotic cell death in human monocyte derived macrophages through calcium dependent calpain activation. *Biochimica et Biophysica Acta* 1823: 420-429.

and now for something completely different...

[something to make you smile](#)

Thought for the week

I never came upon my discoveries through the process of rational thinking - Albert Einstein

The year is starting with a real bang – over recent and coming weeks we are attending to PBRF portfolios, Marsden grant pre-proposals and the outcome of the new timetabling system. We seem to be saying certain periods are “very busy” a lot these days – I hope we don’t sound like we are overstating the situation! I know staff are putting in a lot of extra administrative effort, in addition to all the other things they are here to do (I forgot to mention teaching preparation above!) – thanks to everybody for that. I hope that, in addition to these activities, you have time to quickly scan the newsletter!

~ Matthew ~

Journal news

Latest publications in the school

Geering, A.D.W., Thomas, J.E., Holton, T., Hadfield, J. and Varsani, A. (2012). Paspalum striate mosaic virus: an Australian mastrevirus from *Paspalum dilatatum*. Archives of Virology 157: 193-197.

Godsoe, W. and Harmon, L.J. (2012). How do species interactions affect species distribution models? Ecology 93: 10.1111/j.1600-0587.2011.07103.x.

Hogsden, K.L. and Harding, J.S. (2012). Consequences of acid mine drainage for the structure and function of benthic stream communities: a review. Freshwater Science 31(1): 108-120.

McIntosh, A.R., McHugh, P. and Budy, P. (2012). *Salmo trutta* L. (brown trout). A handbook of global freshwater invasive species. R. A. Francis. Abingdon, Oxon, Earthscan: 285-296.

Monjane, A.L., Van Der Walt, E., Varsani, A., Rybicki, E.P. and Martin, D.P. (2011). Recombination hotspots and host susceptibility modulate the adaptive value of recombination during maize streak virus evolution. BMC Evolutionary Biology 11(350): doi:10.1186/1471-2148-1111-1350.

Peckarsky, B.L., Allan, J.D., McIntosh, A.R. and Taylor, B.W. (2010). Understanding the role of predation in open systems. The Ecology of Place. I. Billick and M. V. Price. Chicago, USA, The University of Chicago Press: 187-206.

and now for something completely different...

Perhaps confused over what sex it is... sighted on the 5th floor



Thought for the week

After Nadal lost to Djokovic:

"Even if I lost, it was something really special for me," said the 25-year old Spaniard, who started his speech with a cheery "good morning" to the crowd who had stayed until 0137 local time to see the match finish.

Newsletter 217

Tuesday 7 February 2012

On Thursday there is a College of Science Forum in C2 at 10.30. Speakers include Jarg Pettinga, Chris Hawker and Peter Molony who will provide an update on buildings, earthquake evacuation & recent seismic activity. Everyone is welcome to attend.

As the Vice-Chancellor mentions, we do need to remain alert to seismic activity. If the power goes off evacuation is mandatory. If it doesn't, then the decision in the labs is made by the Lab Manager. I strongly suggest at all times you carry your keys, wallet and cell phone with you, preferably leave passports and other personal documentation somewhere secure but other than at UC. Usually there is time to take your laptop with you if it is nearby - evacuation is not quite as urgent as in the case of fire, but as we know a second aftershock can be stronger. The University is investing in a campus-wide siren to notify full evacuation. If there are new people in your lab group, or people new to the campus, then please take the initiative and discuss the situation with them.

Start of term is rapidly approaching – and I'm off to Melbourne next week for a conference focused on Plant Reproduction for Food. Matthew will be Acting HoS in my absence.

Space will continue as an issue through this year and we will need to bring in a process of 'hot-desking' for many of our 4th year and masters students. However, by year-end I hope we will have moved into the newly refurbished office space.

~ Paula ~

Avon-Otakaro Park

A vision from city to sea

Imagine a beautiful park from city to sea, a place to play, to fish, to row, to walk among native bush and parkland.

Our vision is grand, and it's achievable. It builds on success stories such as the Styx Living Laboratory, the Avon Heathcote Estuary Ihutai Trust and Te Waihora (Lake Ellesmere) Trust to create a unique, inspiring place of nature and leisure for all of Christchurch.

You can help us turn our vision into reality: Sign our petition to Parliament (at SBS reception), Check out the [Facebook](#) page and share your ideas, Visit our [website](#) to find out more and read our charter or [Email](#) us to find out how you can help.

Journal news

Latest publications in the school

Forgan, L.G. and Forster, M.E. (2012). Oxygen dependence of metabolism and cellular adaptation in vertebrate muscles: a review. *Journal of Comparative Physiology B* 182: 177-188.

Nelson, X.J. and Jackson, R.R. (2011). Evidence that olfaction-based affinity for particular plant species is a special characteristic of *Evarcha culicivora*, a mosquito-specialist jumping spider. *The Journal of Arachnology* 39: 378-383.

and now for something completely different...

[Wellington Sevens](#)

[Long live the Queen](#)

Thought for the week

You make a living by what you get, but you make a life by what you give. -Anonymous

Newsletter 218

Monday 13 February 2012

One week to go before the start of the teaching year, so this is a time of significant activity for staff and students. We will start to have significant numbers of new students on campus from this week, so please offer a helping hand if you see lost souls wandering around. Other “lost souls” will have more nefarious intents, so please be vigilant – our public buildings are an easy target for “stairwell surfers”, who will happily part you from your belongings. Keep your offices locked if unattended and also do not leave valuables on show – in any case you should always carry your wallet/purse, keys and phone with you in case of emergencies.

~ Matthew ~

We welcome...



Meenu and Tony Joseph (PhD candidate) have a new son, **Thomas**, born on Saturday, 4th February at 11.20am. Meenu & baby are doing well. Jayden gave a warm welcome to his little brother!

Journal news

Latest publications in the school

Chapman, M.A., Lewis, M.H. and Winterbourn, M.J. (2011). Guide to the freshwater Crustaceae of New Zealand. Christchurch, New Zealand Freshwater Sciences Society. 188pp.

Chelikani, V., Downard, A.J., Kunze, G., Gooneratne, R., Pasco, N. and Baronian, K.H.R. (2011). Investigating yeast cell responses to oestrogen by electrochemical detection. *Electrochimica Acta*: 10.1016/j.electacta.2011.1011.1078.

Harun, A., James, R.M.J., Lim, S.M., Majeed, A.B.A., Cole, A.L.J. and Ramasamy, K. (2011). BACE1 inhibitory activity of fungal endophytic extracts from Malaysian medicinal plants. *BMC Complementary and Alternative Medicine* 11: 79.

Haslett, N.D., Rawson, F.J., Barrière, F., Kunze, G., Pasco, N., Gooneratne, R. and Baronian, K.H.R. (2011). Characterisation of yeast microbial fuel cell with the yeast *Arxula adenivorans* as the biocatalyst. *Biosensors and Bioelectronics* 26: 3742-3747.

Pham, H.T.M., Giersberg, M., Uhlig, S., Hanke, G., Simon, K., Kunath, K., Baronian, K.H.R. and Kunze, G. (2012). EstraMonitor - A monitor for amperometric detection of estrogenic activity with *Arxula adenivorans* yeast cells as the biocomponent. *Sensors and Actuators B: Chemical* 161: 137-145.

Rawson, F.J., Gross, A.J., Garrett, D.J., Downard, A.J. and Baronian, K.H.R. (2012). Mediated electrochemical detection of electron transfer from the outer surface of the cell wall of *Saccharomyces cerevisiae*. *Electrochemistry Communications* 15: 85-87.

and now for something completely different...

At the end of the Buller Gorge Marathon with Matt Walters, Arvind Varsani, Brent Gilpin (ESR) and Emily Parker (Chem).





[The lighter side of what Professors do](#)

Thought for the week

And if by chance that special place
That you've been dreaming of
Leads you to a lonely place
Find your strength in love

~ Greatest love of all, Whitney Houston ~

Newsletter 219

Monday 20 February 2012

A big welcome back to all our returning students and a big welcome to all our new students. Many of you have been in Christchurch over the summer (what summer some of us have been saying as we eye trusses of green tomatoes in our veggie gardens) and have been conducting research as Summer Scholarship students or as MSc students beginning or continuing their research, and of course as PhD students.

It would be nice to put the events of 2011 behind us, but unfortunately we do need to remain aware and ready to respond in the event of another major aftershock. Please remember to carry keys, cell phone and wallet with you at all times, and please do leave personal items such as passports somewhere secure but preferably not on campus.

Please come along to the activities this week to welcome our large cohort of 4th year students

Best wishes for the year ahead

~ Paula ~

Car Parking

As term has started Security will be enforcing parking regulations. This means that anyone without a valid parking sticker runs the risk of incurring a fine, or having their vehicle clamped. Students and contractors are not allowed to park in the Biology car park. Staff must display a current (green 2012) parking sticker. The yellow 2011 ones are out of date.

Building Information

Von Haast and Rutherford

All remediation work should have been completed in these buildings. If anything is still outstanding, let me know.

Biology/Zoology

The big news this week is that Lunds intend to increase the size of their Western building site by 120 square metres by erecting fences in front of the Geological Sciences loading bay. It will be there for about a month while they assemble the cladding for the sides of the linkway. We have been promised access to the ramp into Biology, and we have also been promised that some work will finally be done to get rid of Lake Lund, the large permanent puddle at the bottom of the ramp.

There will be a lot of crane activity all of this week at both ends of the building, so watch out for this. When the crane is operating by the ramp, use the level 2 linkway.

~ Bill ~

Amazing Aquarium Facts

The big black newcomer to the aquarium is a black cod or Maori Chief (*Notothenia angustata*). As its name implies, it is a notothenioid, one of a group of fish restricted to the Southern hemisphere. Most of these fish are cold water specialists found only in the frigid waters of Antarctica, using antifreezes to survive. The black cod has the genes to produce antifreeze proteins but does not express them. This tells us that its ancestor originated in Antarctica and headed north for a holiday during an ice age when temperatures were lower. When things warmed up again the black cod decided that New Zealand was a neat place to live so stayed here. It still likes cold water and is found on the east side of the South Island up to about Kaikoura though the places to get them are Otago and Stewart Island. It grows to about 60cm, so the one in our tank still has a bit of growing to do.

SBS School Committees 2012

Committee Name & Chair	Postgraduate Student representative
3Ps/Health & Safety (W. Davison)	Anastasia Shchepetkina
Staff Meeting (P. Jameson)	Dorien Coray
Research (H. Chapman)	Brigitta Kurenbach
Teaching & Learning (M. Turnbull)	Jane Andrews
Staff/Student Liaison (L. Greenfield)	Olivia Burge
Postgraduate Students (O. Burge)	Staff rep: Will Godsoe

Journal news

Latest publications in the school

Péréfarres, F., De Bruyn, A., Kraberger, S., Hoareau, M., Barjon, F., Lefevre, P., Pellegrin, F., Caplong, P., Varsani, A. and Lett, J.-M. (2012). Occurrence of the Israel strain of *Tomato yellow leaf curl virus* in New Caledonia and Loyalty Islands. *New Disease Reports* 25: 6.

and now for something completely different...

[Many moons ago Christchurch looked like this...](#)

[\(these are black and white images!\)](#)

Thought for the week

Fate only takes you so far, then it's up to you to make it happen. -Unknown

Newsletter 220

Monday 27 February 2012

On the 22nd I attended the University memorial service along with many staff and students, and others went into the ceremony in Hagley Park. Many of us appreciated the opportunity to just stop and reflect on that day a year ago, but also to reflect on the many months that have passed since 4th September, 2010. We are all very aware that we have managed in our own ways to achieve a considerable amount whether we are staff or students, yet we remain very aware that we may still have seismic events ahead of us. If an event does happen, we know how and what we can do to keep teaching and research moving forward. In the meantime remain alert, keep your personal items with you, and forge ahead with course work and research.

Take care

~ Paula ~

Building News

Lots of things are happening on the linkway. On Monday the first of the big metal frames for the sunscreens was lifted onto the south side of the linkway (no I don't know why we need a sunscreen on the south side). Very soon, this will be covered in perforated aluminium plates. The next metal frame is about to arrive on site for the north side.

We lose access through level 2 of the linkway today for a period of at least 2 weeks. This is because Lunds need level 2 to pump concrete into the new shearwall on level 1, working through holes drilled in the floor of level 2. Following that they will be building the boxing on level 2 for the next level of shearwall.

Preparation for remediation work in the research building is about to spring into action, and a lot of time is about to be devoted to producing a plan and timeframe. At the moment the plan is still to start work once we have moved into old Zoology and once teaching has finished, and the initial work will probably focus on levels 2 and 3, with other floors left alone until at least this time next year. Note, though, that this is still preliminary and could change, especially as we have yet to have detailed discussions about levels 0 (basement) and 1.

~ Bill ~

Journal news

Journal of Animal Ecology

Amanda Klemmer (PhD candidate) has her first journal publication highlighted on the homepage of 'Journal of Animal Ecology'. You can view it [here](#). Congratulations!

Latest publications in the school

Klemmer, A.J., Wissinger, S.A., Greig, H.S. and Ostrofsky, M.L. (2012). Nonlinear effects of consumer density on multiple ecosystem processes. *Journal of Animal Ecology* doi:10.1111/j.1365-2656.2012.01966.x.

Weston, K.A., Chapman, H.M., Kelly, D. and Moltchanova, E.V. (2012). Dependence on sunbird pollination for fruit set in three West African montane mistletoe species. *Journal of Tropical Ecology* 28: 205-213.

Thought for the week

“Falling down is a part of life, getting back up is living.” ~ Author Unknown

Newsletter 221

Monday 5 March 2012

Semester 1 is well underway and the centralised timetabling bedding in. If anyone is aware of any current issues, or things to be avoided for Semester 2, please let Matthew Turnbull know as feedback is being requested.

As you are all probably aware this year is the third round of the Performance Based Research Fund (PBRF) which aims to “reward and encourage research excellence in the tertiary sector”. Most PBRF eligible staff in the School have been working on their Evidence Portfolios since the New Year. The University gains approximately \$26 million in income from this fund (the School approx. \$2.76 million). If you are interested in the value of the different components of the fund use the following

link: https://intranet.canterbury.ac.nz/research/researchprofiling_pbrf/pbrf/pbrf_help.shtml

Approximately \$16 of the \$26 million comes to UC based on the Quality Evaluation of each PBRF eligible staff member – hence the amount of time we are putting into preparation of our portfolios.

I had an interesting interlude during my weekend – polishing *Anthurium* flowers (well the spathes actually) for an exhibit in the Ellerslie Flower Show that opens this week!

~ Paula ~

Building news

Stage 2

The northern section of the linkway sunscreen will be assembled this week, so expect the big crane to move in, and the fences to go up again. Weather permitting, the plan is to lift it into place on 13th March. There has been a hold-up with the manufacture of the aluminium plates that will form the actual sunscreen with no indication of when they will be fitted.

Access will continue through level 3 of the linkway until the level 2 shearwall has been poured, and this is on hold until the sunscreen has been fitted.

Remedial Work

Things are beginning to ramp up with this and we are starting to formulate plans for moving people out of the Research Building. To date we have had some preliminary discussions with staff on levels 2 and 3 with a view to starting work on these floors at the end of teaching in October.

~ Bill ~

Welcome to the world...

Anna Maria has arrived to give big brother Alex a new playmate! Angela and Thomas Evans are the happy parents.



Journal news

Latest publications in the school

Domigan, L.J., Healy, J.P., Meade, S.J., Blaikie, R.J. and Gerrard, J.A. (2012). Controlling the dimensions of amyloid fibrils: toward homogenous components for bionanotechnology. *Biopolymers* 97(2): 123-133.

Evans, G.L., Schuldt, L., Griffin, M.D.W., Devenish, S.R.A., Pearce, F.G., Perugini, M.A., Dobson, R.C.J., Jameson, G.B., Weiss, M.S. and Gerrard, J.A. (2011). A tetrameric structure is not essential for activity in dihydrodipicolinate synthase (DHDPS) from *Mycobacterium tuberculosis*. *Archives of Biochemistry and Biophysics* 512: 154-159.

Hoover, S.E.R., Ladley, J.J., Shchepetkina, A.A., Tisch, M., Giese, S.P. and Tylianakis, J.M. (2012). Warming, CO₂, and nitrogen deposition interactively affect a plant-pollinator mutualism. *Ecology Letters* 15: 227-234.

Laliberté, E. and Tylianakis, J.M. (2012). Cascading effects of long-term land-use changes on plant traits and ecosystem functioning. *Ecology* 93: 145-155.

Piasecki, T., Kurenbach, B., Chrzastek, K., Bednarek, K., Kraberger, S., Martin, D.P. and Varsani, A. (2012). Molecular characterisation of an avihepadnavirus isolated from *Psittacula krameri* (ring-necked parrot). *Archives of Virology* 157: 585-590.

Rao, S.P., Meade, S.J., Healy, J.P., Sutton, K.H. Larsden, N.G., Staiger, M.P. and Gerrard, J.A. (2012). A tetrameric structure is not essential for activity in dihydrodipicolinate synthase (DHDPS) from Mycobacterium tuberculosis. American Institute of Chemical Engineers Biotechnology Programme 28(1): 248-256.

Rao, S.P., Meade, S.J., Joyce, N.I., Healy, J.P., Sutton, K.H., Larsden, N.G. and Gerrard, J.A. (2011). Amyloid fibril formation from crude protein mixtures. American Institute of Chemical Engineers Biotechnology Programme 27(6): 1768-1776.

Young, L M., Kelly, D. and Nelson, X.J. (2012). Alpine flora may depend on declining frugivorous parrot for seed dispersal. Biological Conservation: doi:10.1016/j.biocon.2011.1012.1023.

and now for something completely different...

I could mention that Putin has been re-elected to become Russia's President again, but instead some cuteness

[Polar Bear Cub's First Steps](#)

Thought for the week

Excellence is doing ordinary things extraordinarily well. -John W. Gardner

Building news

Everything is very quiet at the moment. We have no work happening in the new building other than hopefully replacement of the broken glass in the ceiling of the Atrium.

Work in old Zoology continues, with concrete pouring in the east end shear wall today. Weather permitting, the plan is to lift the large metal frame into place on the northern face of the linkway. Once that is in place, the concrete pump can get in to allow pouring of the shear wall on the western wall of Zoology. Once that is completed we will need to move floors across the linkway, but more on that when it is about to happen.

Planning for remediation work in the Research Building is ramping up. We had two lots of engineers through last week, with more visits planned for this week.

A reminder about fire alarms

The university will be conducting their fire evacuation drills for much of the rest of the month. When the alarm sounds, please evacuate to the allocated collecting point – grassed area in front of C lecture block for von Haast people, bridge over the Okeover for people in the Research Building, grassed area to the west of Rutherford for those people on level 5.

Floor wardens need to clear their floors, then report to the blue reporting box. First person there please remember to phone the fire brigade.

Lecturers, remember that if you are in a lecture theatre when the alarm sounds, you become the fire warden and take on those duties.

~ Bill ~

Journal news

Latest publications in the school

McKenzie, J.L., Robson, J., Berney, M., Smith, T.C., Ruthe, A., Gardner, P.P., Arcus, V.L. and Cook, G.M. (2012). A VapBC toxin-antitoxin module is a post-transcriptional regulator of metabolic flux in mycobacteria. *Journal of Bacteriology*: Epub ahead of print.

and now for something completely different...

[Thirteen sleeps till the Give Way Rules Change! Best get your insurance details up to date now...](#)

Last chance to view the Christchurch Cathedral before it is deconstructed

Saturday and Sunday, 17 and 18 March 2012, 9am to 5pm. Pedestrians will not be admitted in after 4.30pm.

The walkway route will be the same as previously, leaving from and exiting at the Re:Start Mall at the intersection of Colombo Street and Cashel Mall. [Full run down of do's and don't.](#)

[Highlights of Christchurch - view of the Cathedral in all its glory](#)

Thought for the week

No trumpets sound when the important decisions of our life are made. Destiny is made known silently. -
Agnes De Mille (1905-1993)

Matt Walters is putting together some informative posters regarding how to correctly handle lab waste. You should already know all this but it never hurts to be reminded of the correct procedures since lab waste is not only a compliance issue but is a major health and safety issue within both our research and teaching labs. And naturally we should never, ever find disposable coffee cups in lab waste (!).

I applaud the Waste-watchers campaign currently on campus: Walking around and, as a user of the recycling bins, I am quite surprised how often recyclable materials are in the waste bins. As a School of Biological Sciences let's lead the way in recycling.

~ Paula ~

Building news

There will be lots of activity in and around the old Zoology building over the next couple of weeks, with lots of access issues, so keep an eye out for things, especially cranes and concrete pumps working overhead. Access through the linkway is currently unrestricted and on Level 2.

1. The concrete pump will be in action at the west end of the building on Tuesday afternoon, filling up the level 3 shear wall through holes in the floor on level 4. There will be a short period of time when the atrium door and possibly the linkway access will be restricted as they manoeuvre the pump into place, otherwise this should not interfere with access. Every two or three days for the next couple of weeks there will be a concrete pour.
2. There will be intermittent crane work in the west end compound mainly associated with moving the shutters and bracing for the shear wall between floors. There will also be a period towards the end of this week when cranes will be working at both ends of the building lifting equipment up to level 7.
3. Work is about to start on the dangerous goods stores in what will eventually be our compound (currently the east end building site). Initially this will involve a lot of truck movements moving equipment and dirt, so watch out for this if you are driving in the car park area. In about a week's time you might see some precast concrete panels arriving. This will involve lots of crane work and could interfere with access through the car park. Again, watch out for this happening and keep well clear.
4. Hawkins will be carrying out some work on the roof of the Atrium early this week, probably on Tuesday afternoon and will want to close access to the Atrium. We will try to liaise with both sets of builders to ensure that we do have access via either the Atrium front door or the linkway.

A final comment. We are having problems with people using the west end building compound as a shortcut.

It doesn't seem to be us, but rather engineering students moving between lecture theatres. However, I need to remind you that building sites are restricted areas and you are not allowed in them.

~ Bill ~

Amazing Aquarium Facts

There is a newcomer to the tank in the form of a small shark. It is a spiny dogfish (*Squalus acanthias*). Found worldwide in temperate waters of both hemispheres, it is the most encountered shark in the world. The spiny dogfish is ovoviviparous, meaning the female retains her eggs and gives birth to live young which are born at 20-30 cm long. They can grow to 1.5 metres. In New Zealand they are very common in shallow coastal waters, especially on the east coast of the South Island where the adults tend to be a bycatch in trawl nets. They are very abundant off Birdlings Flat.

Our latest Doctor of Philosophy...



Dr Tony Joseph, being congratulated by Dr Mark Clearwater, Oral Examiner and his Senior Supervisor, Prof Matthew Turnbull. Well done!

Latest publications in the school

Peckarsky, B.L., Encalada, A.C. and McIntosh, A.R. (2011). Why do vulnerable mayflies thrive in trout streams? *American Entomologist* 57(3): 152-164.

Sandblom, E., Davison, W. and et al. (2012). "Cold physiology: Postprandial blood flow dynamics and metabolism in the Antarctic fish *Pagothenia borchgrevinki*." *PLoS ONE* 7(3): e33487.

Tuckey, N.P.L., Janssen, G.J.A., Forster, M.E. and Gieseg, S.P. (2012). *In Vitro* perfused chinook salmon (*Oncorhynchus tshawytscha*) tails: a potential model for studying post-harvest tissue chemistry and metabolism in valuable fish tissues. *Journal of Aquatic Food Product Technology* 21: 156-167.

and now for something completely different...

Is the new Ministry of Innovation, Business and Employment likely to follow the English route?

Check out ['Funding woes for English universities'](#)

Phoenix rises from Christchurch Rubble

The newly founded Phoenix University of Canterbury opened for business this week, signifying the start of a new era of tertiary education for Christchurch.

The new universitech, which was the result of a ministerially-driven merger of Canterbury-based tertiary institutions, had until this week been provisionally trading under the name LinctaburyPIT. It has now completed its rebranding and market positioning exercise. The result is it will partner with, and adopt the branding of the United States' largest education provider, Phoenix University. Phoenix University of Canterbury also announced this week that its streamlined post-merger flexible human resourcing structure would deliver significantly improved returns for bond investors.

"We believe that by removing duplication of library services, back office functions and administration we can save money. We will be able to offer our customers, students, a twenty-four hour a day service to complement their learning experience," said newly appointed chiefancellor Sir Giles Carrfield.

"Looking forward, these savings have allowed us to invest in Phoenix University's strategic direction, by appointing a new layer of management".

[Canterbury Crusaders first home game - Saturday 24 March - How to get tickets](#)

[City to Surf - Sunday 25 March - It's never to late to register!](#)

Thought for the week

Neighbours Day - Saturday 24 - Sunday 25 March

Great neighbourhoods start with great neighbours and it all starts with YOU.

[Sign up today](#) and become a part of a campaign that is a catalyst for kiwis from all over Aotearoa in getting to know their neighbours.

New Zealand lost a truly gifted scientist and communicator of science in the passing of Sir Paul Callaghan over the weekend. Dr Garth Carnaby, President of the Royal Society of New Zealand, says “Paul was undoubtedly one of New Zealand’s most inspirational scientists. His passion for science shone through in everything he did. We will remember him for the excellence of his own personal research, for his inspirational leadership of other scientists, and his ability to communicate about science to one and all.”

This week we have the Royal Society Cockayne Lecture from Professor Kevin Gould on Wednesday evening. Kevin is also an award winning teacher and during our Thursday seminar slot he will be presenting “Can we teach more by lecturing less? Key trends, critical challenges, and technological fixes for tertiary level Biology”. I encourage all teachers to attend!

It is hard to believe that we are almost through Term 1 – and summer has finally arrived!

~ Paula ~

Building news

We have approval for a standby generator for the Research Building. Selwyn and I have just returned from a planning meeting, getting the project up and running. The biggest hurdle in terms of time will probably be the time needed to gain consents from the Council and Ecan. There will be some construction issues because we have to site the generator away from existing buildings, and the exclusion zone around Commerce will influence where it eventually goes, but that will be sorted this week. So now we just wait to see what happens.

~ Bill ~

Our latest Doctors...

Hossein Alizadeh, 'An investigation into bioactive proteins and their changes during imbibition, germination and development of red kidney bean seeds' and **Dayo Osinubi** 'Habitat effect on the behaviour and condition of the yellow-breasted Boubou (*Laniarius atroflavus*) both had their PhD oral exams last week. No photos this time round, but they were looking smart in their suits. Congratulations to both!

Journal news

Latest publications in the school

Aizen, M.A., Sabatino, M. and **Tylianakis, J.M.** (2012). Specialization and rarity predict nonrandom loss of interactions from mutualist networks. *Science* 335: 1486-1489.

Check Jason out: [Predicting the collapse of pollinators](#)

Stouffer, D.B., Sales-Pardo, M. Irmak Sirer, M. and Bascompte, J. (2012). Evolutionary conservation of species' roles in food webs. *Science* 335: 1489-1492.

Check Daniel out: [Prioritising conservation needs](#)

and now for something completely different...

[Where loyal fans were on Saturday](#)

["Hunger Games" gorges on \\$214 million global debut](#)

Thought for the week

A smile is an inexpensive way to change your looks. -Charles Gordy

Today seemed to be full of interesting but unfortunately for me clashing activities - a number of staff and students are at the BIC Symposium, another group are at the Food Web Symposium over in Maths and Stats, and a smaller group of us listened to developments in Korea on conservation of genetic resources using cryobanks. So, as we also had a TLC meeting with the Dean to discuss the length of our masters programme (particularly the Part II) and, as shortly I will attend the Biology Remediation Group meeting with FM, this Newsletter introduction will stop here!

Have a safe and happy Easter [the University is closed from Friday to Tuesday inclusive – but normal afterhours access will work]

~ Paula ~

Building news

The builders are hoping to be close to finishing the west end shear wall in Zoology this week so watch out for lots of concrete pump work. That will leave only the shear wall in the middle of level 1 to complete.

On 4th April (Wednesday) there will be crane work in the west end building yard, mainly associated with moving shear wall boxing, so watch out for ramp closures throughout that day.

We should see scaffolding starting to come down this week, especially at the south eastern end of Zoology.

Following the impressive demonstration of our new water feature last week, the soil is now dry enough for excavation work to begin again in the eastern builder's yard; this means that there is no access through the eastern door of the Atrium (commonly referred to as the back door). This doorway will be out of bounds for at least the next two months. When the crane is working above the ramp, access into the research building will be only via level 2 of the linkway. Note that in an emergency, evacuation points are still the linkway, the main Atrium door and the backdoor, irrespective of what the builders are doing at that time.

~ Bill ~

Journal news

Latest publications in the school

Ainley, D.G., Brooks, C.M., Eastman, J.T. and **Massaro, M.** (2012). Unnatural selection of Antarctic toothfish in the Ross Sea, Antarctica. *Protection of the Three Poles*. F. Huettmann. Heidelberg, Springer: 53-75.

Albuquerque, L.C., **Varsani, A.**, Fernandes, F.R., Pinheiro, B., Martin, D.P., Ferreira, P.T.O., Lemos, T.O. and Inoue-Nagata, A.K. (2012). Further characterization of tomato-infecting begomoviruses in Brazil. Archives of Virology 157: 747-752.

Harland, D.P., Li, D. and **Jackson, R.R.** (2012). How jumping spiders see the world. How Animals See the World. O. Lazareva, T. Shimizu and E. A. Wasserman. Oxford, Oxford University Press: 133-164.

and now for something completely different...

[You're only somebody when you get your Appreciation Page on Facebook!](#)

[Million Dollar Mouse campaign](#)

In addition to the wonderful autumn we are having (we always have them in my limited 16 years of experience!) we have recently had the great news of Dave Kelly receiving a 2011 UC Teaching Award. Dave is one of six recipients Uni-wide and the only one from the College of Science. If there was any need for further evidence of our great work in teaching and learning, we now have it. Great work Dave.

~ Matthew ~

Building news

1. Access will remain on level 3 until further notice.
2. Fire alarm testing on Wednesday. A reminder that Chubb will be testing all of the fire systems in the Research Building on Wednesday, so watch out for lots of short bursts of the fire alarm.
3. We are about to see a lot of activity at the eastern end of the Research Building as Lunds build the compound area. The crane is now positioned such that it will make access through the back door impossible and you should not use this route unless the fire alarm sounds. From 18th April to 1st May Lunds will block off a number of car parking spaces immediately out from their compound (and across to the stream). This is to allow access for a big truck carrying precast concrete panels. Perhaps twice per day, while the truck is manoeuvring, the western end of the car park will be blocked off for about 30 min. We don't know exactly when this will be, so during this period, if you plan to take your car or Department van out of the car park during the day, make sure that you park at the eastern end (Forestry) of the park.

~ Bill ~

Amazing Aquarium Facts

The water column of the aquarium is dominated by spotties, while on the bottom of the tank are a couple of young blue cod. Both of these species show sex reversal. The young fish start life as females and join a harem dominated by a single dominant male. When the male departs suddenly (caught by a fisherman or eaten by a bigger fish) the biggest of the females turns into a male and takes over the harem. In spotties, the sex of the fish is fairly easy to spot (pun intended). The females tend to have an obvious well defined spot on their side, immediately below the dorsal fin. In males, the spot is more of an ill defined blotch. See if you can spot the male in our tank.

Journal news

Latest publications in the school

Congratulations to Dorien on your first publication!

Coray, D.S., Heinemann, J.A., Tyrer, P.C. and Keenan, J.I. (2011). Human lactoferrin increases *Helicobacter pylori* internalisation into AGS cells. World Journal of Microbiology and Biotechnology: 10.1007/s11274-11011-10984-z.

Godsoe, W. (2012). Are comparisons of species distribution models biased? Are they biologically meaningful? Ecography 35: 10.1111/j.1600-0587.2012.07456.x.

Harris, N. N., Javellana, J., Davies, K.M., Lewis, D.H., **Jameson, P.E.**, Deroles, S.C., Calcott, K.E., Gould, K.S. and Schwinn, K.E. (2012). Betalain production is possible in anthocyanin-producing plant species given the presence of DOPA-dioxygenase and L-DOPA. BMC Plant Biology 12(34): doi:10.1186/1471-2229-1112-1134.

Rand, P.S., Goslin, M., Gross, M.R., Irvine, J.R., Augerot, X., **McHugh, P.A.** and Bugaev, V.F. (2012). Global assessment of extinction risk to populations of Sockeye salmon *Oncorhynchus nerka*. PLoS ONE 7(4): e34065.

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Molecular forensics**

Rapley, Ralph.

<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=292554>

and now for something completely different...

Blues lose to Sharks, no wait that's not something completely different, but this is...

[Crusaders topple chart topping Stormers](#)

[World's best picnic spots](#)

Thought for the week

Fate only takes you so far, then it's up to you to make it happen. -Unknown

Tomorrow is [Anzac Day](#) so the University will be closed. On Friday morning we have the Science Graduation Ceremony. In the afternoon we will be holding a celebration afternoon tea for graduates and their families. Please join us to chat with them - gowns please if you have them.

Security: it's always a good idea to keep laptops and personal items either with you or in a secure place. We are not sure yet whether the laptop missing overnight from the 6th floor breakout area of the Atrium was removed to a secure place or stolen. Please, for two reasons - theft or earthquake - continue to keep personal items with you and/or secure. On this occasion Security had provided us with a service.

Paula

Lifetime Merit Award

Congratulations to **Dr. Julie Barcelona** for receiving a Lifetime Merit Award from the Wildlife Conservation Society of the Philippines!

Missed Campbell Live

In the [second part](#) of their series on finding work in New Zealand, they look at people whose qualifications seem almost to count against them.

Journal news

Latest publications in the school

Congratulations to Daisy on her first, first authored publication!

Stainton, D., Kraberger, S., Walters, M., Wiltshire, E.J., Roario, K., Halafihi, M., Lolohea, S., Katoa, I., Faitua, T.H., Aholelei, W., Taufa, L., Thomas, J.E., Collings, D.A., Martin, D.P., Varsani, A. (2012). Evidence of inter-component recombination, intra-component recombination and reassortment in banana bunchy top virus. *Journal of General Virology* 93: 1103-1119.

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Plant biotechnology and agriculture: prospects for the 21st century
Altman, A.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=800122>

and now for something completely different...

[Eco-activists stage demonstrations across the world to mark Earth Day, the global day of environmental awareness](#)

Thought for the week

**They shall grow not old,
as we that are left grow old.
Age shall not weary them,
nor the years condemn.
At the going down of the sun
and in the morning
We will remember them.**

From the poem for the fallen
by Laurence Binyon

April Graduation - 27 April 2012

Doctor of Philosophy

Samuel T. Osinubi, in Ecology

Habitat effect on the behaviour and condition of the Yellow-Breasted Boubou (*Laniarius atroflavus*)

Master of Science

Andrew D. Barnes	Ecology	First Class Honours
James K. McCarthy	Ecology	First Class Honours

Bachelor of Science in Biological Sciences/Biochemistry

Samantha E. Bodman	Rebecca E.P. Bowen	Ronan C. Broad
Lisa A. Brohm	Eleanor R. Collings	Joshua E. Corn
Sian P.M. Davies	Nicola J. Dennison	Emma K. Dorsey
Lucy C. Edwards	Fay T. Farrant	Gabriela E. Felton
Simon K. Fraser	Noelle-Marie Z.L. Goh	Elisa H.-W. Harris
Thomas M. Hildebrand	Samira Hossain	Courteney B. Johnston
Carmela T.M.S. Kong	Michaela M. Latimer	Beth L. Lawson
Jacob A. Lewis	Craig P. Marshall	Ben E. McCammon
Evelyn A. McDougall	Robert L. McGowan	Stacey A. McKenzie
Catherine L. McLaughlin	Matthew T. McMahan	Samuel J.A.R. Mills
Mark V. Minnaar	Hannah L. Mitchell	Kate R. Moody
Jermimah R.S.I. Ng	Saskia L. Out	Alanna C. Pollock
Emma M. Porter	Sasha M. Roselli	Bronwyn E. Slack
Araminta C.S. Smith	Chloe R. Smith	Anna L. Suckling
Emma K. Swadel	Scott W. Thomas	Alexandria Tino
Marleen Van Oeveren	Emma L. Wallis	Nicole E. Wearn
Melissa N. Webby	Yui Yoshinari	

Recently submitted theses

Burgess, L. (2012). Toxicity of HOCl-oxLDL. School of Biological Sciences. Christchurch, Canterbury. Master of Science.

Chen, Y. (2012). 7,8-Dihydroneopterin, neopterin balance during inflammation. School of Biological Sciences. Christchurch, Canterbury. Master of Science.

de Sassi, C. (2012). Biotic interactions in a changing world: The role of feeding interactions in the response of multitrophic communities to raising temperature and nitrogen deposition. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Domigan, L. (2012). New nanomaterials: Amyloid fibrils from waste proteins. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Grassham, A. (2012). The role of the tantalus monkey (*Chlorocercus tantalus tantalus*) in forest restoration via seed dispersal in a west African montane forest. School of Biological Sciences. Christchurch, Canterbury. Master of Science.

Heber, S. (2012). Translocations and the 'genetic rescue' of bottleneck populations. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Kornfeld, J. A. (2012). The role of alternative oxidase (AOX) in plant stress: Do plants increase the activity of AOX in response to nutrient stress under field conditions? School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Kross, S. (2012). The efficacy of reintroducing the New Zealand falcon into the vineyards of Marlborough for pest control and falcon conservation. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

O'Keefe, D. (2012). Differential expression of isopentenyl transferase and cytokinin. School of Biological Sciences. Christchurch, Canterbury. Master of Science.

Pilkington, S. M. (2012). The regulation of chlorophyll levels in maturing kiwifruit. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Raynes, J. (2012). Immobilising biomolecules on amyloid fibrils for biotechnology applications. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Romo, C. (2012). Climate-induced changes to multi-trophic interactions in an agroecosystem. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Young, L. M. (2012). Seed dispersal mutualisms and plant regeneration in New Zealand alpine ecosystems. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Journal news

Latest publications in the school

Jackson, R.R. and Nelson, X.J. (2012). Specialized exploitation of ants (Hymenoptera: Formicidae) by spiders (Araneae). *Myrmecological News* 17: 33-49.

Jumnongpon, R., Chaiseri, S., Hongsprabhas, P., Healy, J.P., Meade, S.J. and Gerrard, J.A. (2012). Cocoa protein crosslinking using Maillard chemistry. *Food Chemistry* 134(1): 375-380.

Searle, S.Y., Turnbull, M.H., Boelman, N.T., Schuster, W.S.F., Yakir, D. and Griffin, K.L. (2012). Urban environment of New York City promotes growth in northern red oak seedlings. *Tree Physiology* 32: 389-400.

Check the new reels discussing this publication at [Science Daily](#), [New York Times](#), [Atlantic Cities](#), and [Gizmag](#).

and now for something completely different...

Father and Son



Thomas W. Davison, B.Sc.



Thought for the week

We all have ability. The difference is how we use it -Stevie Wonder

Contact details

You might notice a bit of sprucing up of the Atrium this week. On Friday we will entertain a large group of Careers Advisors. Jason Tylianakis and Ant Poole will be telling them that we are the best Biological Sciences School/Department for their school pupils to come to! We have three groups for 30 minutes each, in the seminar Room 275 starting at 11.15 am.

Hopefully, all academic staff have hit the submit (twice) on their PBRF EPs. Many thanks to Matthew for co-ordinating this for us, and to the groups that provided peer review of each other's portfolios.

I'm submerging under teaching this term - but hopefully will re-emerge every so often!

~ Paula ~

Building news

There is very little building news, which can be interpreted as good or worrying. Stage 2 (Zoology) is progressing well with much of the current effort directed at the compound area and level 1. This work is currently on track and things are progressing well. Access is still on level 3. Plans for earthquake remediation of the Research Building seem to have fallen into a black hole. There has been no information coming out of the Project Office for at least three weeks.

~ Bill ~

Listen to Arvind on National Radio

[The virus hunter](#)

Journal news

Latest publications in the school

Clark, J.M. and **Andrews, N.** (2012). New mites *Terraphagus antipodus* gen. n., sp. n. and *Neohyadesia minor* sp. n. (Acarina: Astigmata: Algophagidae) from islands of the Southern Ocean." *Polar Biology*: doi:10.1007/s00300-00012-01185-00304.

Nelson, X.J. and Jackson, R.R. (2012). Fine tuning of vision-based prey-choice decisions by a predator that targets malaria vectors. *The Journal of Arachnology* 40: 23-33.

Yang, Y.-T., Whiteman, M. and **Gieseg, S.P.** (2012). Intracellular glutathione protects human monocyte-derived macrophages from hypochlorite damage. Life Sciences 90: 682-688.

Postgraduate news

The Existential Crisis

[What am I doing with my life??](#)

(sense of humour required)

and now for something completely different...

[Crusaders hang on to beat Reds](#)

Note to self: ... the Reds... were left heartbroken when Taylor nailed the late three-pointers to earn his side's seventh win of the season

[To all those Lada fans out there - that includes you Selwyn](#)

[When singing, 'Fight for you right to Party', just won't sound the same again...](#)

Thought for the week

When you jump for joy, beware that no one moves the ground from beneath your feet. - Stanislaus Lec

Congratulations to those that got the call-up for a 2nd round Marsden Fund application: Matthew Turnbull (with Dave Kelly), Jason Tylianakis (with Ant and Paul), Robert Jackson and Will Godsoe. It is noteworthy that as a School, especially relative to other departments at UC, we continue to do well in this round.

Comments I have received relate to the fact that over the years many staff are very willing to read and provide critical feedback on applications - and, importantly, our applicants are willing to receive and respond to critical comment! As panels and chairs change over time, for those that didn't make it through this year, it is probably worth another try next year.

Many thanks to Jason Tylianakis and Anthony Poole for presenting an up-beat overview of the School to three groups of Careers Advisors from across the country who were on campus for a couple of days. The third group clapped spontaneously at the end of their presentation!. Thanks also to Rennie for the magnificent looking aquarium and to Dave Conder for the renewed plantings in the atrium. Also to Penny who shepherded the groups away from the aquarium to their next department.

~ Paula ~

Building news

1. Don't forget that access through old Zoology has now moved to level 2.
2. Early in the week there will be a lot of crane work in the west builder's yard, so watch out for times when the ramp will be closed. During these periods we have been promised access through the back door, but don't count on it.
3. Later this week there will be lots of concrete panel movement in the eastern builder's yard, so as with the earlier period, some of the car parking bays will be out of bounds, and there will be the odd time when access will be affected as the big truck manoeuvres into the yard.
4. We are working towards producing a mock-up of a typical staff office so that people can see what their new office in old Zoology will look like. This will happen fairly soon as we have to start ordering furniture.
5. Earthquake remediation has kicked into action again. Over the next few weeks there will be lots of activity in the atrium, mainly on level 6, as Hawkins has another go at fixing the seismic movement joints between Biology and old Zoology. The promise is that the scaffolding will come down within the next 6 weeks.

~ Bill ~

Introducing our latest Doctor...

Claudio de Sassi, had his oral defence last Tuesday. The title of his thesis is 'Biotic interactions in a changing world'. Congratulations Claudio!

Prof Jason Tylianakis (Senior Supervisor), Claudio de Sassi and Dr Ross Thompson (Oral Examiner, Monash University)



Scholarship success for Masters candidate

Emma Swadel, MSc candidate, was awarded a scholarship from the New Zealand Federation of Graduate Women. Emma is doing her Masters research with Ashley Garrill. Her topic is 'An investigation into the roles of calcium and F-actin in the process of hyphal branching in oomycetes and fungi'. Congratulations Emma!

Teaching Awards 2011

Check out the [Teachers award winners for the 2011](#) academic year, which includes our very own Professor Dave Kelly! Big ups!

Journal news

Latest publications in the school

Congratulations to Anisha for her first, 1st authored paper!

Dayaram, A., Opong, A., Jäschke, A., **Hadfield, J.**, Baschiera, M., **Dobson, R.C.J.**, Offei, S.K., Shepherd, D.N., Martin, D.P. and **Varsani, A.** (2012). Molecular characterisation of a novel cassava associated circular ssDNA virus. *Virus Research* 166: 130-135.

Hadfield, J., Thomas, J.E., Schwinghamer, M.W., **Kraberger, S.**, **Stainton, D.**, **Dayaram, A.**, Parry, J.N., Pande, D., Martin, D.P. and **Varsani, A.** (2012). Molecular characterisation of dicot-infecting mastreviruses from Australia. *Virus Research* 166: 13-22.

Jackson, R.R. and Nelson, X.J. (2012). *Evarcha culicivora* chooses blood-fed *Anopheles* mosquitoes but other East African jumping spiders do not. *Medical and Veterinary Entomology* 26: 233-235.

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian: http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Force of nature: the David Suzuki movie**
Suzuki, David T.
In Library, Central Library, QH 75 .F697 2012

and now for something completely different...

[Comeback kings Man City win at death](#)

[How to avoid "human-bear conflicts"](#)

[Surfer rides 78-foot wave to new Guinness World Record](#)

Thought for the week

You make a living by what you get, but you make a life by what you give. -Anonymous

The weekend's flurry of seismic activity should be a reminder to keep keys and personal items with you at all times.

My thinking these last few weeks seems to have been focused (mostly) around mobile signals in plants, lectures that incorporate information on such topics as which gene really was Mendel's dwarfing gene; what plant hormone was (unconsciously) targeted during the breeding of the Green Revolution crops (that currently do 'feed the world'); how to get larger seeds (incorporating my favourite plant hormone – the cytokinins); designing plants that will reduce the need for cows to belch (no they don't fart methane they belch it, and if they make methane and can't belch it, they bloat and die); and with the occasional foray out to discuss the UC Future's projects.

The end of term rapidly approaches!

~ Paula ~

Biology Imaging Competition 2012

Yes it will be happening again this year. Theme is 'What are you looking at'.

Please get in touch with [Matt](#) as he would welcome some assistance from a few willing volunteers.

Journal news

Latest publications in the school

McCarthy, J.K., Hood, I.A., Kimberley, M.O., **Didham, R.K.**, Bakys, R., Fleet, K.R., Brownlie, R.K., Flint, H.J. and Brockerhoff, E.G. (2012). Effects of season and region on sapstain and wood degrade following simulated storm damage in *Pinus radiata* plantations. *Forest Ecology and Management* 277: 81-89.

Neumann, N. and **Poole, A.M.** (2012). Evolution of phagotrophy. 2012 McGraw-Hill Yearbook of Science & Technology. McGraw-Hill. New York, McGraw-Hill Professional: 80-83.

Poole, A.M., **Stouffer, D.B.** and **Tylianakis, J.M.** (2012). 'Ecosystemics': ecology by sequencer. *Trends in Ecology and Evolution* 27(6): 309-310.

Jimmy Thomas, PhD candidate, submitted his first publication, congratulations!

Thomas, J., Ingerfeld, M., Nair, H., Shauhan, S.S. and **Collings, D.A.** (2012). Pontamine fast scarlet 4B: a new fluorescent dye for visualising cell wall organisation in radiata pine tracheids. Wood Science Technology: doi:10.1007/s00226-00012-00483-x.

and now for something completely different...

[Till death do us bark](#)

[Olympic torch journey begins in London](#)

[NHL ice girls calling it a season](#)

Thought for the week

And how can you mend a broken heart?

How can you stop the rain from falling down?

How can you stop the sun from shining?

What makes the world go round?

It's definitely end of term time: the Office had been busy typing up exam papers and I have been busy proof-reading these, in between meetings on the UC Futures projects and preparing for the PBRF training days next week in Auckland.

Next week remember that there is a statutory holiday on Monday 4th to celebrate the Queen's Birthday (whether you are a monarchist or not you can have a day-off!) and during the rest of the week there is the Teaching Showcase with a range of interesting presentations.

Included below is a summary of the Budget changes to Student Allowances. It is worth reading to check if you can squeeze into one of the few remaining exemptions - most of these, unfortunately, have been removed.

~ Paula ~

Building News

Change of access level. The builders need to start crack injection on the floor of level 2 of Zoology, so on Wednesday morning we will move back to level 3.

People will have noticed scaffolding coming down on the south side of Zoology. This will be completed this week.

There have been some delays with work in the compound area, but the problems have all been sorted and major excavation of this area should begin this week. Once this starts there will be no access through the back door.

~ Bill ~

Freemason Scholarship success

Helen Warburton, PhD candidate, was awarded a Freemason Scholarship. Helen accepted her award from Parliament last week. Well done on a very prestigious award!

[More study - more money](#)

Biology Imaging Competition 2012

Yes it will be happening again this year. Theme is 'What are you looking at'. Please get in touch with [Matt](#) as he would welcome some assistance from a few willing volunteers.

Journal news

Latest publications in the school

Griffin, K.L. and **Turnbull, M.H.** (2012). Out of the light and into the dark: post-illumination respiratory metabolism. *New Phytologist* 195: 4-7.

Heinemann, J.A. and El-Kawy, O.A. (2012). Observational science in the environmental risk assessment and management of GMOs. *Environment International* 45: 68-71.

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Ecology of freshwater and estuarine wetlands**
Batzer, Darold P.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=470808>
- **Dragonflies and damselflies: model organisms for ecological and evolutionary research**
Córdoba-Aguilar, Alex
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=693991>
- **Biological sequence analysis: probabilistic models of proteins and nucleic acids**
Durbin, Richard
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=320915>
- **Zoo conservation biology**
Fa, John E.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=774959>
- **Atherosclerosis: molecular and cellular mechanisms**
George, Sarah Jane
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=481246>
- **Behavior of marine fishes: capture processes and conservation challenges**
He, Pingguo
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=510177>
- **Overfishing: what everyone needs to know**
Hilborn, Ray
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=886462>
- **An introduction to epigenetics**
Hoover, Roger
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=841255>

- **Fundamentals of geobiology**
Knoll, Andrew H.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=881735>
 - **Plankton of inland waters: a derivative of Encyclopedia of inland waters**
Likens, Gene E.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=648772>
 - **Evolution of plant-pollinator relationships**
Patiny, Sébastien
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=824423>
 - **Primate neuroethology**
Platt, Michael L.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=472135>
 - **Fungi, algae, and protists**
Rogers, Kara.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=605330>
 - **Metabolic ecology: a scaling approach**
Sibly, R. M.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=879009>
 - **Animal camouflage: mechanisms and function**
Stevens, Martin, Dr.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=775017>
 - **How not to be eaten: the insects fight back**
Waldbauer, Gilbert
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=827645>
 - **Essential bioinformatics**
Xiong, Jin.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=256596>
 - **The Goldilocks planet: the 4 billion year story of Earth's climate**
Zalasiewicz, J. A.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=886500>
-

and now for something completely different...

[Antarctica ship offload time-lapse](#)

(8 minute long video, but pretty damn amazing)

Thought for the week

[10 Tips from PhD Comics for getting your thesis in on time](#)

Although this would also work for those submitting their Masters, eh Jane!

- Snowmen building 101

Let's hope that that was the first and last snowfall for the winter (well at least on the plains, not to be a killjoy for all those skiers). However, the view from the plane on my much delayed flight from Auckland was quite superb, but once on the ground the damage to trees around town is quite apparent.

Staff, please remember that the VC is attending our Staff Meeting on Wednesday.

Best wishes to all our undergrads for their exams!

~ Paula ~

New to the world...



Elsie Rose arrived on Thursday 31 May, 11.15 pm, 8 lb 2 oz (3719 grams approx). **Esme Robinson** (Postdoctoral Fellow) and her husband Richard are the proud parents and Gavin is the new granddad! We wish Esme and Richard happy new beginnings and a tad of sleep!

Our latest Doctors...

Laura Domigan, had her oral defence on Friday 25 May, moments after the 5.2, that would have sorted the nerves out! Her thesis is titled 'New nanomaterials: Amyloid fibrils from waste proteins' and her Senior Supervisor is Juliet Gerrard.

Sarah Pilkington, had her oral defence on Friday 8 June, whilst the white stuff was still lying about! Her thesis is titled 'The regulation of chlorophyll levels in maturing kiwifruit' and her Senior Supervisor is Paula Jameson. [Photo to follow]

Congratulations to both Laura and Sarah!

Entre \$75K Challenge

“**Energy Boosters**”, a team comprised of two Chemical & Process Engineering PhD students and one Biological Sciences PhD student has qualified for the finals of Entre \$75K Challenge 2012. Out of 56 entries, this team is one of only nine qualifying teams. The Chemical & Process Engineering PhD students are Neha Chandrasekaran (Supervisor - Dr. Conan Fee) and Swami Detchanamurthy (Supervisor - Dr. Peter Gostomski), the Biological Sciences student is Abishek Muralidhar (Supervisor - Dr. Ashley Garrill).

They have proposed a novel process integration idea to convert industrial flue gases (especially carbon monoxide and carbon dioxide) and industrial effluents into valuable products (Bioethanol, Biodiesel and Omega 3 fatty acid) by utilizing the facets of algae.

Biology Imaging Competition 2012

Yes it will be happening again this year. Theme is 'What are you looking at'. Please get in touch with [Matt](#) as he would welcome some assistance from a few willing volunteers.

Journal news

Latest publications in the school

Nelson, X.J. and Jackson, R.R. (2012). The discerning predator: decision rules underlying prey classification by a mosquito-eating jumping spider. *The Journal of Experimental Biology* 215: 2255-2261.

See below all the writeups for this amazing little spider! Well done to Ximena and Robert, yet again.

[BBC Nature](#)

[Live Science](#)

[Discover Magazine](#)

[Inkfish](#)

[Science Daily](#)

[The Epoch Times](#)

[Scientific American](#)

Library News

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Shellfish aquaculture and the environment**
Shumway, Sandra E.
<http://onlinelibrary.wiley.com.ezproxy.canterbury.ac.nz/book/10.1002/9780470960967>
- **Biochemistry of macrophages**
(Symposium on Biochemistry of Macrophages Ciba Foundation)
<http://onlinelibrary.wiley.com.ezproxy.canterbury.ac.nz/book/10.1002/9780470720998>

and now for something completely different...

Because once isn't enough... more of baby Elise!



[Somebody had to mention the "S" word...](#)

Thought for the week

We never know the love of a parent till we become parents ourselves. -Henry Ward Beecher

I spent the weekend in Sydney in my new role as a 'granny' - not a kitten this time but a sweet, 3-week old Rosalind Jane Clemens. I also gave a lot of thought to our opening session for the Strategic Plan and to various aspects of the UC Futures documents.

The news re the Kaikoura Field Station was a shock. We await with some trepidation the engineers report on the Kaikoura Field Station – but until the formal report comes through we won't know what the future scenario will be.

~ Paula ~

Sarah Pilkington, had her oral defence on Friday 8 June, whilst the white stuff was still lying about! Her thesis is titled 'The regulation of chlorophyll levels in maturing kiwifruit' and her Senior Supervisor is Paula Jameson. Photo as promised!

Dr Andy Allan (Supervisor, Plant & Food Research), Sarah, Paula Jameson (Senior Supervisor)



Research Report

The research report is a published compilation of all the research outputs contributed by staff over the previous calendar year. Due to the earthquakes in 2011, the 2010 and 2011 reports have been combined in *Research 2010/2011*.

Check out our very own covergirl, soon to be [Dr Sara Kross](#)!

Biology Imaging Competition 2012

Yes it will be happening again this year. Theme is 'What are you looking at'. Please get in touch with [Matt](#) as he would welcome some assistance from a few willing volunteers.

Recently submitted theses

Deppe, L. (2012). Spatial and temporal patterns of at-sea distribution and habitat use of New Zealand Albatrosses. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Schowe, K. (2012). Development of a diatom-based index of the impact of acid mine drainage on streams in South Island, New Zealand. School of Biological Sciences. Christchurch, Canterbury. Master of Science.

Journal news

Latest publications in the school

Kratina, P., **Greig, H.S.**, Thompson, P.L., Carvalho-Pereira, T.S.A. and Shurin, J.B. (2012). Warming modifies trophic cascades and eutrophication in experimental freshwater communities. *Ecology* 93(6): 1421-1430.

Lundin, D., **Poole, A.M.**, Sjöberg, B.-M. and Högbom, M. (2012). Use of structural phylogenetic networks for classification of the ferritin-like superfamily. *The Journal of Biological Chemistry* 287(24): 20565-20575.

Nobes, D.C., Johnston, A.G., **Holdaway, R.N.** and Horton, T.W. (2012). Ground penetrating radar imaging of the late quaternary Pyramid Valley lake deposit, North Canterbury, New Zealand: correlation with paleoclimatic records and the stratigraphic sequence. *Proceedings of the 14th International Conference on Ground Penetrating Radar, Shanghai, China*.

and now for something completely different...

The SBS tearoom celebrating the Queen's Jubilee



[All Blacks leave it late to down Ireland](#)

[Postgrad "to do" list](#)

Thought for the week

Success consists of a series of little daily victories. -Laddie F. Hutar

Last week was a mix of strategic planning and marking for most staff, while a few lucky ones have headed overseas to conferences or on Erskine Leave (Matthew is no doubt basking in the warmth of Barcelona – but he did only leave at the weekend!).

Hazel and I had a surprise visit last week from the High Commissioner for Nigeria who is based in Canberra. He has been involved in many high level discussions on global environmental issues so hopefully will be a good ally in our interactions with the Nigerian Montane Forest Project and Universities in Nigeria.

~ Paula ~

Building News

Stage 2 (old Zoology) is progressing well. We are about to put together a mock-up of what a standard staff office will look like. Staff will be invited to comment specifically on what they would like in their office (number of bookshelves, whiteboards etc) which will be used by FM for ordering furniture. An announcement will be made when people can have a look at the office.

The plan for moving people during the remediation of the Research Building has proven to be unfeasible – in other words it has all turned to custard. Never fear, your dynamic buildings committee is working around the clock to put a new plan in place. Details of this will emerge as the plan is approved. Note that we are still scheduled to start remediation work in October.

~ Bill ~

The Nigerian High Commissioner visit to the School

Pictured: Florence Akinyemi (First Secretary), Paula Jameson (Head, Biological Sciences), Mrs Olukanni (High Commissioner's wife), Ayo Olukanni (High Commissioner), Hazel Chapman (Director, Nigerian Montane Forest Project), Danladi Umar (PhD candidate, Biological Sciences) and Taiwo Axisz (PhD candidate, Philosophy)



Recently submitted theses

Dutton, P. (2012). Chimpanzee (*Pan troglodytes ellioti*) ecology in a Nigerian Montane Forest. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Journal news

Library News

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http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Crystallization of biological macromolecules
McPherson, Alexander
New book display, EPS Library, QD 381 .M172 1999

Latest publications in the school

Jackson, R.R. and Nelson, X.J. (2012). Attending to detail by communal spider-eating spiders. *Animal Cognition* 15: 461-471.

Nelson, X.J. and Jackson, R.R. (2012). The role of numerical competence in a specialized predatory strategy of an araneophagic spider. *Animal Cognition* 15: 699-710.

and now for something completely different...

[What everybody should be reading now... before the movie comes out](#)

[Why people wear lab coats](#)

Thought for the week

Often we place too much emphasis on the desired results, and not enough on the person we need to be to achieve and support those results. -Larry Hehn

Our latest Doctors...

Sara Kross, (pictured are Assoc Prof Jim Briskie, Oral Organiser, Sara, Dr Ximena Nelson, Senior Supervisor and Dr Paul Scofield, Oral Examiner) had her oral defence on Monday 25 June. The title of her thesis is 'The efficacy of reintroducing the NZ falcon (*Falco novaeseelandiae*) to the Wairau Valley as both a conservation scheme and a method for biological control of pest birds in vineyards'.



Jared Raynes, (pictured with his International Examiner, Associate Professor Bridget Mabbutt) had his oral defence on Tuesday 26 June. The title of his thesis is 'Immobilising enzymes on protein nanotubes for biotechnology purposes'. His senior supervisor is Professor Juliet Gerrard.



Laura Domigan, (pictured with her International Examiner, Associate Professor Bill Williams) had her oral defence last month, but here is an image that really sums up the last four years of hard slog.

Congratulations to all!



Recently submitted theses

Iles, J. (2012). Is maungatautari restoring bird pollination and seed dispersal services. School of Biological Sciences. Christchurch, Canterbury. Master of Science.

Jana Prado, R. (2012). Does seed size determine seedling fate in bird dispersed species? School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Journal news

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Homeostasis and toxicology of non-essential metals**
Farrell, Anthony Peter
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=858619>
- **Encyclopedia of theoretical ecology**
Hastings, A.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=943600>
- **Handbook of the birds of the world**
Hoyo, Josep del
In Library, Central Library, QL 673 .H236
- **Virus taxonomy: classification and nomenclature of viruses: ninth report of the International Committee on Taxonomy of Viruses**
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=809164>
- **Insect conservation: past, present and prospects**
New, T. R.
In Library, Central Library, QL 463 .I592 2012
- **Plant systematics**
Simpson, Michael G.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=802535>

Latest publications in the school

Gray, D.P. and Harding, J.S. (2012). Acid Mine Drainage Index (AMDI): a benthic invertebrate biotic index for assessing coal mining impacts in New Zealand streams. *New Zealand Journal of Marine and Freshwater Research*: 1-18.

Lear, G., Ancion, P.-Y., **Harding, J.S.** and Lewis, G.D. (2012). Use of bacterial communities to assess the ecological health of a recently restored stream. *New Zealand Journal of Marine and Freshwater Research*: 1-11.

and now for something completely different...

[How to See Fairies in the Garden | Ways to Communicate with Fairies in your own Backyard](#)

[Why we will miss the Queen of Scream at Wimbledon](#)

Thought for the week

[Marking multi-choice answers](#)

Very many thanks to all those that helped with 'Discover' - the open day for year 13s and their supporters.

The Atrium again drew positive comment thanks to Rennie for sourcing new materials for the aquarium on a bitterly cold Thursday morning and to Dave for the plantings. Many thanks to Amanda Greer, Rachel van Heugten, Tejraj Janmale, Laura Domigan and Matt Walters for their well received presentations. We had an hour for the tours (35 came on day 1 and 12 on the foggy day 2); after the five short presentations, we showed them through the level 2 labs and then back to the C-block for a 30 minute talk (75 attended on day 1 and a surprising 98 were there on day 2). Thanks also to Penny for helping organise - and Matt for changing the School presentation to one in UCs new colours! Much to our surprise it didn't look too bad! And we definitely secured some recruits who might have gone elsewhere!

Welcome back everyone for Semester 2 - let's hope it goes as well if not better than Semester 1.

~ Paula ~

and now for something completely different...

[Reuters photos of the week](#)

Thought for the week

You have to have a dream so you can get up in the morning. -Billy Wilder (1906-2002)

Over the next few weeks I will be quietly and determinedly working through the assigning of 893 PBRF Evidence Portfolios. Coffees and chocolate welcome!

~ Paula ~

UC success at the Genetics Society of Australasia (GSA) meeting, Melbourne 15-18 June

Shortly after the February 2011 quake, Phil Batterham, the President of the GSA (<http://genetics.org.au/>) got in touch with the geneticists in the school to ask if there was anything they could do to help us out. We were very appreciative of this gesture at the time, and this year the GSA have generously helped our department in two ways. First, they are sponsoring two top geneticists to come across to Christchurch to give seminars this year (more on that later). Second, they offered our school four free registrations to attend the GSA Annual Conference.

Five of us went across to the GSA meeting in Melbourne this month: Mark Walker (MSc student), Rachel van Heugten (MSc student), Ryan Catchpole (PhD student), Stinus Lindgreen (postdoc) and me. For some of us, this was our first international conference, and some of us had never been to Melbourne before, so there was lots of excitement all round. As the photo evidence indicates, we embraced a work-hard, play-hard ethic!

The conference itself had a great mix of top international speakers and top Kiwi and Aussie genetics researchers and students, with a broad range of symposia, spanning microbial, developmental and cellular genetics through to conservation genetics. Rachel, Ryan and Stinus all took posters, which will all soon be hanging up in the school. Having read many of the posters, I am happy to say ours were amongst the best, and indeed, GSA thought so as well - **Ryan was runner-up for the prestigious Sidney James Prize for the best poster by a PhD student!**

I highly recommend this conference to anyone with an interest in genetics - the quality of speakers is high, and it's a very interdisciplinary and friendly crowd. Oh, and Ryan will be going next year (he was awarded free registration to attend GSA 2013 in Sydney)!

Ant

Post-poster prize celebrations on Lygon St.

From left: Rachel van Heugten, Ryan Catchpole, Mark Walker, Stinus Lindgreen



Trivia night success

The trivia quiz night was a roaring success and there is bound to be another one before too long!

Here are the night's winners, 'The Medevacuees'



And that ever famous, 'Where's Waldo' photo



Journal news

Library News

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from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Forest entomology : a global perspective
Ciesla, William M.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=675255>
- The art of science : a natural history of ideas
Hamblyn, Richard
New book display, Central Library, Q 162 .H199 2011
- New and developing sources of food proteins
Hudson, B. J. F.
New book display, Central Library, TX 553 .P7 .N532 1994
- The Oxford handbook of comparative cognition
Zentall, Thomas R.
New book display, Central Library, QL 785 .C535 2012
- Fungi on trees and shrubs in New Zealand
Gadgil, P. D.
New book display, Central Library, QK 611.5 .G124 2005
- Introduction to fungi of New Zealand
McKenzie, Eric H. C.
New book display, Central Library, QK 611.5 .I61 2004

Recent publications in the school

Bracken, M.E.S., Menge, B.A., Foley, M.M., Sorte, C.J.B., Lubchenco, J. and **Schiel, D.R.** (2012). Mussel selectivity for high-quality food drives carbon inputs into open-coast intertidal ecosystems. *Marine Ecology Progress Series* 459: 53-62.

Doehring, K., Young, R.G. and **McIntosh, A.R.** (2012). Facilitation of upstream passage for juveniles of a weakly swimming migratory galaxiid. *New Zealand Journal of Marine and Freshwater Research* iFirst: 1-11.

Hoover, S.E.R. and **Tylianakis, J.M.** (2012). Species interactions. *Behavioural Responses to a Changing World*. U. Candolin and B.B.M. Wong. Oxford, Oxford University Press: 129-142.

Massaro, M., Yogeewaran, K. and Black, A. (2012). Trapped in the postdoctoral void: Lack of postdoctoral opportunities in New Zealand forces merging researchers to exit science or seek employment overseas. *New Zealand Science Review* 69(2): 30-39.

Rankin, D.J., **Turner, L.A., Heinemann, J.A.** and Brown, S.P. (2012). The coevolution of toxin and antitoxin genes drives the dynamics of bacterial addiction complexes and intragenomic conflict. *Proceedings of the Royal Society B*: doi:10.1098/rspb.2012.0942.

Snyder, W.E. and **Tylianakis, J.M.** (2012). The ecology of biodiversity - biocontrol relationships. *Biodiversity and Insect Pests: Key Issues for Sustainable Management*. G. M. Gurr, S. D. Wratten, W. E. Snyder and D. M. Y. Read, Wiley-Blackwell: 23-40.

Tscharntke, T., **Tylianakis, J.M.**, Rand, T.A., **Didham, R.K.**, Fahrig, L., Batáry, P., Bengtsson, J., Clough, Y., Crist, T.O., Dormann, C.F., Ewers, R.M., Fründ, J., Holt, R.D., Holzschuh, A., Klein, A.M., Kleign, D., Kremen, C., Landis, D.A., Laurance, W., Lindenmayer, D., Scherber, C., Sodhi, N., Steffan-Dewenter, I., Thies, C., van der Putten, W.H. and Westphal, C. (2012). Landscape moderation of biodiversity patterns and processes - eight hypotheses. *Biological Reviews* 87: 661-685.

Zainon, R., Ronaldson, J.P., **Janmale, T.**, Scott, N.J., Buckenham, T.M., Butler, A.P.H., Butler, P.H., Doesburg, R.M., **Gieseg, S.P.**, Roake, J.A. and Anderson, N.G. (2012). Spectral CT of carotid atherosclerotic plaque: comparison with histology. *European Radiology* 17(7): 10.1007/s00330-00012-02538-00337.

and now for something completely different...

[10 Biggest holes in the world](#)

(yes, it truly is something completely different...)

[Edward Hooper](#)

(New to his art? Pop in and admire his work)

Thought for the week

The purpose of life, after all, is to live it, to taste experience to the utmost, to reach out eagerly and without fear for newer and richer experience. -Eleanor Roosevelt

220 EPs assigned, just 670 to go!

~ Paula ~

Building news

1. Stage 2 is still progressing to schedule, with a completion date of 22 September. Last week we were given a new date of 8th October for us moving across. It would be nice if this happened, but I wouldn't bank on it. However, it does emphasise that we are only two months away from the start of a series of big moves, and people should be getting ready for this.
2. Remediation of stage 1 (Research Building). We have a new plan. At the moment it is still in a skeletal form and needs a lot of work over the next month to get it into a sensible form. It will start off in October with levels 2 and 3 moving out of the building. Then we have a relatively quiet period other than the constant noise of workmen repairing levels 2 and 3 until late January/February when level 4 moves. Overall the work will take at least 18 months, but we won't know the finer details until December when the workmen have had a chance to closely look at the lab floors, and in particular at the window panels on the east and west walls.

~ Bill ~



What are you looking at? – 2012 Biological Sciences Imaging Competition

Entries are invited for the School of Biological Sciences Imaging Competition from current students in Biological Sciences at the University of Canterbury. The competition is designed to allow students to show their imaging work to a wider audience. Plus, you can win some great prizes! This year's theme, "What are you looking at?", is open to any interpretation. Electronic submissions for the competition close August 17 at 5PM.

Please see the competition website, www.biol.canterbury.ac.nz/photo_competition, for more details and the online submission form.

Journal News

Recent publications in the school

Congratulations to Claudio on his first publication!

de Sassi, C. and Tylianakis, J.M. (2012). Climate change disproportionately increases herbivore over plant or parasitoid biomass. PLoS ONE 7(7): e40557.

Nelson, X.J. and Jackson, R.R. (2012). How spiders practice aggressive and Batesian mimicry. Current Zoology 58(4): 620-629.

Pande, D., **Krabberger, S.**, Lefeuvre, P., Lett, J.-M., Shepherd, D.N., **Varsani, A.** and Martin, D.P. (2012). A novel maize-infecting mastrovirus from La Réunion Island. Archives of Virology 157: 1617-1621.

Simmerman, S., Wang, J., Osborne, J., Shook, K., Huang, J., **Godsoe, W.** and Simons, T. (2012). Exploring similarities among many species distributions. Proceedings of the Conference of the Extreme Science and Engineering Discovery Environment (XSEDE'12), pp. 38:1-38:9, Chicago, IL, 2012.

and now for something completely different...

[Mr Bean at the Olympics Opening Ceremony](#)

(For those of you who missed it, enjoy!)

[Brilliant Sharks outgun Stormers](#)

(Who said I was one-eyed...)

Thought for the week

"The Olympics remain the most compelling search for excellence that exists in sport, and maybe in life itself."

- Dawn Fraser (Australian swimmer, 3-time winner at the Olympics)

Our Erskine Fellow



Professor Robert (Bob) Warner arrived on 25th July. Bob is being hosted by the Marine Ecology Research Group. He is currently Professor of Marine Biology in the Department of Ecology, Evolution, and Marine Biology at the University of California, Santa Barbara. His work spans two areas of fish biology. The first is the evolution of mating systems and life histories. Past topics include the evolution of sex change and other forms of hermaphroditism in animals, sexual selection and the development of secondary sexual characters, gamete allocation, the dynamics of parental care allocation, the economics of territorial defense, and social effects on life-history allocations. His second area of research is in population biology, concentrating mainly on the dynamics of recruitment in marine fishes. He is interested in what determines variability in recruitment, the extent to which recruitment determines subsequent population dynamics, and the degree to which local populations of fishes are self-seeding. This work is related to his recent studies about the efficacy of marine reserves. His research has been supported primarily by the US National Science Foundation, the Packard Foundation, and the Moore Foundation.

Bob is giving a two talks, see details below.

Canta article

Jane Gosden, MSc candidate, wrote an article for Cantata about her subantarctic trip. It's in last week's issue and is online here: <http://canta.co.nz/features/new-zealands-forgotten-isles/>

Journal News

Recent publications in the school

de Sassi, C., Lewis, O.T. and Tylianakis, J.M. (2012). Plant-mediated and nonadditive effects of two global change drivers on an insect herbivore community. *Ecology* 93(8): 1892-1901.

Pilkington, S.M., Montefiori, M., Jameson, P.E. and Allan, A.C. (2012). The control of chlorophyll levels in maturing kiwifruit. *Planta*: doi:10.1007/s00425-00012-01723-x.

Song, J., Jiang, L. and Jameson, P.E. (2012). Co-ordinate regulation of cytokinin gene family members during flag leaf and reproductive development in wheat. *BMC Plant Biology* 12(1): 78.

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian: http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Diatoms of Europe: diatoms of the European inland waters and comparable habitats
Lange-Bertalot, H.
In Library, Central Library, QK 569 .D54 .D5411 2000
- Principles of animal physiology
Moyes, Christopher D.
In Library, Central Library, QP 31.2 .M69 2008
- Chameleons of Africa: an atlas: including the chameleons of Europe, the Middle East and Asia
Tilbury, Colin R.
In Library, Central Library, QL 666 .L23 .T55 2010
- Flora of Peninsular Malaysia
Kiew, R.
New book display, Central Library, QK 365 .F56 2010
- Flora of Peninsular Malaysia
Parris, B. S.
New book display, Central Library, QK 529 .M4 .F56 2010

and now for something completely different...

[How to get a Audi](#)

[Because it may never happen again](#)

Thought for the week

Congratulations! You've got to the end of the newsletter. You now qualify for a Tonka toy. If you want to qualify for an Audi read above.

Last week of Term 3

I have finally got to the end of Phase 1 of the PBRF process – at one stage there were 888 portfolios on my system! Now I am hoping for a couple of weeks respite to prep some lectures - and to empty some boxes that came with me from Massey eight years ago and are not, repeat not, going to go with me to our nice new offices in the refurbished building!

Congratulations to Rachel van Heugten for winning the College of Science Thesis-in-three round. Please note the date and time for the finals: 22 August, 7.00 pm.

As I write this we are undergoing an external Health and Safety audit. It does still amaze me that people still don't accept that when in any Research Lab i.e. any lab in Putaiao koiora, that there is to be no food or drink (including water bottles) in the labs. Our thanks to both Bill and Nicole for the enormous amount of time they spend trying to keep us adhering to Heath, Safety and Compliance legislation.

~ Paula ~

Thesis-in-3

College of Science heats

Our very own **Rachel van Heugten** (PhD candidate) was placed first in the College of Science heats and will now proceed to the UC final on Wednesday 22nd August, A1 lecture theatre, 7.00 pm. Please come along to support Rachel talk about her thesis on the Canterbury tree weta. Her senior supervisor, Marie Hale, must be enormously proud. Great effort Rachel!

Outreach for the Introverted: an introduction to editing Wikipedia

Tuesday 4th September, 12-1, Room 275

Scientists should be doing more community outreach but many of us don't particularly like people. If you are in this category, then I may have the solution for you. The [7th](#) most visited website in New Zealand is [Wikipedia](#). The beauty of this resource is that anyone can edit this encyclopaedic resource from the comfort of their own computer. Getting started can be intimidating, however, once you're familiar with the basics this is a painless way to greatly increase

your sphere of influence. Your edits count as a "contribution to the research community", furthermore, you ensure that the review panel reading your latest grant, your future students, your collaborators and the wider community has easy access to further information on your field.

I'll run a short introduction to get you started editing your own articles. I'll briefly cover formatting, Wikipedia policies and citing articles. You will need a laptop and a Wikipedia article that you would like to create or correct and expand. A good target we may try for is to expand the articles on New Zealand species where members of the school have international-level expertise (eg. [*Styela clava*](#), [*Oceanites maorianus*](#), [*Hymenolaimus malacorrhynchos*](#), [*Himantopus novaezelandiae*](#), [*Trite planiceps*](#), [*Senecioneae*](#), [*Peraxilla tetrapetala*](#), [*Inanga*](#), [*Potamopyrgus antipodarum*](#), [*Nothofagus solandri*](#), [*Chionochoa rubra*](#), [*Parapoxvirus*](#), [*Petroica traversi*](#), ...).

If you're interested then send an email to paul.gardner@canterbury.ac.nz and I'll send you further details before the meeting.

Dr Vida Mary Stout (20 February 1930-21 July 2012)

St Barnabas Church Hall, Wednesday 25th July at 4.00 pm.

Friends and colleagues past and present attended Vida's funeral service. A tribute was delivered by Emeritus Professor Mike Winterbourn which highlighted her long and dedicated service to the Zoology Department and the University of Canterbury. Vida will be remembered as a dedicated field researcher (freshwater ecology), student supervisor, and administrator (Dean of Science) who retired in 1996.

For those of us who attended it was a pleasant reunion with past graduates and staff, a chance to hear about her interesting and active life, and an opportunity to meet her extended family.

If anyone would like to know more details about her UC career I have a file available.

Lyn de Groot (her ex-secretary when she was Dean in the late 80's)

Dr Gregor Yeates (born 1944 - 6 August 2012)

Gregor attended UC and gained his bachelors degree with first class honors in 1966. During the second year of his studies at Canterbury, he attended lectures by a Nematologist, Dr. W.C. Clarke. Those lectures focused Dr. Yeates' interests on nematodes. Dr. Yeates completed his Ph.D. in 1968, under the direction of Dr. Clarke, on the ecology of nematodes in coastal sand dunes. He was awarded a D.Sc. degree by the University of Canterbury in 1986.

After completing his Ph.D., Dr. Yeates spent a year in the Nematology Department at Rothamsted Experimental Station in England followed by a year at the Mols Laboratory in Denmark. Between

1970 and 1992, he was a soil scientist with the Soils Bureau of New Zealand's Department of Scientific and Industrial Research in Lower Hutt. Subsequently, he was appointed as a Senior Scientist at Landcare Research New Zealand Ltd in Palmerston North, New Zealand. He continued his work as a soil zoologist until his retirement in 2011.

Baby Gray

Duncan (PhD 2011) & Bridget have produced yet another girl to their family. Weighing in at 7lb and no name to date (unless someone else has extra news!?). Mum and baby are doing fine.

Journal News

Recent publications in the school

Barnett, C.A. and Briskie, J.V. (2011). Strategic regulation of body mass and singing behavior in New Zealand robins. *Ethology* 117: 28-36.

Briskie, J.V. (2011). The effect of earthquake aftershocks on the dawn chorus of an Eurasian blackbird (*Turdus merula*). *Notornis* 58: 175-176.

and now for something completely different...

[The Rugby Championship kicks off this Saturday](#)

[Twenty golden moments from the London games](#)

Thought for the week

"It's what I came here to do, I'm now a legend."

- Jamaica's Usain Bolt permits the world to proclaim him a sporting legend after becoming the first man to retain the 100- and 200 metres titles.

It's mid-semester break and I'm beginning to panic about my teaching! It was great to see the sun over the weekend, to look at the daffodils in the garden, and to spot the red rhododendrons flowering around the city. Most likely to be Cornubia hybrids, bred by Edgar Stead after whom our Atrium is named. And from a 1950's obituary in the Journal of the American Rhododendron Society bulletin: "It is most unfortunate that Edgar Stead could not have lived longer to see the full and glorious fruition of his patient endeavors in the breeding of azaleas and rhododendrons. The wonderful display of such varied flowers, plants and trees that flourish at Ilam will be a lasting tribute to one of New Zealand's greatest horticulturalists". Do take the opportunity over the next few months to wander through the Ilam Gardens as the rhododendrons and azaleas bred by Edgar Stead come into flower.

~ Paula ~

Building News

SBS2. The news about this has effectively come to a stop as we get closer to the end of this project. We are still on track for completion on 21 September, though I did notice a bit of uncertainty creeping into today's site meeting. In particular, the ground floor of the linkway and the compound are currently behind time.

We are still planning on a start for moving into SBS2 starting on October the 8th and Jenny is currently making plans in terms of who will move when.

Remediation. This seems to be a long, slow, detailed process but we seem to be making progress. The current focus is on moving levels 2 and 3 of the research building into levels 2 and 3 of von Haast. Plans for remediation of level 0 (basement) have hit a number of snags and this phase of remediation is currently under review.

~ Bill ~

Our latest Doctors

It is a pleasure and a delight to congratulate our following four new doctors!

Ceci Romo, had her oral defence on Tuesday 14th August. Her thesis is entitled Climate-induced changes to multi-trophic interactions in an agroecosystem.



Pictured above: Prof Jason Tylianakis (Senior Supervisor), Ceci, Prof Geoff Gurr (Oral Examiner, Sydney)

Ari Kornfeld, had his oral defence on Wednesday 15th August. His thesis is entitled The role of alternative oxidase (AOX) in plant stress: do plants increase the activity of AOX in response to nutrient stress under field conditions?



Pictured above: Ari, Assoc Prof Margaret Barbour (Oral Examiner, Sydney), Prof Matthew Turnbull (Senior Supervisor) and Dr Travis Horton (Assoc Supervisor)

Laura Young, had her oral defence on Thursday 16th August. Her thesis is entitled Seed dispersal mutualisms and plant regeneration in New Zealand alpine ecosystems.



Pictured above Dr William G. Lee (Oral Examiner), Laura, Prof Dave Kelly (Senior Supervisor) and Assoc Prof Jim Briskie (Oral Chair)

Sol Heber, had her oral defence this morning, Monday 20th August. Her thesis is entitled Translocations and the 'genetic rescue' of bottleneck populations.



Pictured above Assoc Prof Ian Jamieson (Oral Examiner), Sol and Assoc Prof Jim Briskie (Senior Supervisor)

When are biotic interactions necessary to model species distributions?

Congratulations to **Dr. William Godsoe** who is organizing a math biology working group funded by the U.S. National Institute for Mathematical and Biological Synthesis.

See http://www.nimbios.org/workinggroups/WG_biotic_interactions for more details.

Recently submitted theses

Gosden, J. (2012). What prevents hybridisation in *Celmisia*? School of Biological Sciences. Christchurch, Canterbury. Master of Science in Ecology.

Lee, J. (2012). Cellular and molecular mechanisms of salinity acclimation in an amphidromous teleost fish. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Cellular and Molecular Biology. Jacqui has since been awarded First Class Honours!

O'Connor, S.-J. (2012). Quantifying seed dispersal of matai (*Prumnopitys taxifolia*). School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

Thesis-in-3

UC Final

Our very own **Rachel van Heugten** (PhD candidate) will be presenting the College of Science on Wednesday 22nd August, A1 lecture theatre, 7.00 pm. Please come along to support Rachel talk about her thesis on the Canterbury tree weta. Go Rachel!

Journal News

Recent publications in the school

Heber, S., Briskie, J.V. and Apiolaza, L.A. (2012). A test of the 'genetic rescue' technique using bottlenecked donor populations of *Drosophila melanogaster*. PLOS ONE 7(8): e43113.

Mercadante, D., Melton, L.D., Norris, G.E., Loo, T.S., Williams, M.A.K., Dobson, R.C.J. and Jameson, G.B. (2012). Bovine β -Lactoglobulin is dimeric under imitative physiological conditions: Dissociation equilibrium and rate constants over the pH range of 2.5-7.5. Biophysical Journal 103: 303-312. Check out the [journal cover!](#)

Poole, A.M., Kobayashi, T. and Ganley, A.R.D. (2012). A positive role for yeast extrachromosomal rDNA circles? BioEssays 34: 725-729.

and now for something completely different...

[Everything you ever wanted to know about Leaf-cutter ants...](#)

[How to dance the boogie woogie](#)

(Turn up the sound and enjoy!)

Thought for the week

For those of you who recently submitted a thesis or defended one!

Every worthwhile accomplishment, big or little, has its stages of drudgery and triumph: a beginning, a struggle, and a victory. -Mahatma Gandhi (1869-1948)

Our heartiest congratulations to **Rachel van Heugten** (PhD candidate) who won the Thesis-in-3 UC Final last Wednesday. Rachel took out the College of Science heats two weeks previous. Rachel talked about her thesis on the Canterbury tree weta.

What a lovely weekend! Didn't help with getting all the promotions paperwork completed but I did get some Vitamin D!

~ Paula ~

Journal News

Recent publications in the school

Franzmayr, B.K., Rasmussen, S., Fraser, K.M. and Jameson, P.E. (2012). Expression and functional characterization of a white clover isoflavone synthase in tobacco. *Annals of Botany*: doi:10.1093/aob/mcs1168.

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Tropical forest community ecology
Carson, Walter P.
New book display, Central Library, QH 541.5 .R27 .T74 2008
- Genomics and bioinformatics: an introduction to programming tools for life scientists
Samuelsson, Tore
New book display, Central Library, QH 447 .S26 2012
- Encyclopedia of biological invasions
Simberloff, Daniel
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=631046>
- On the origin of species
Darwin, Charles
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=430772>

and now for something completely different...

[Lydia Ko, winner!](#)

Top 10 jazz albums every wo(man) should own

10. The Essential Charlie Parker
9. Time Out, The Dave Brubeck Quartet
8. Two Blocks from the Edge, Michael Brecker
7. Art of the Trio, Vol. IV: Back at the Vanguard, Brad Mehidau Trio
6. Secrets, Allan Holdsworth
5. Paseo, Gonzalo Rubaicaba
4. Romantic Warrior, Return to Forever
3. Miles Smiles, Miles Davis
2. Thw Waup Up, Pat Metheny Group
1. Night Train, Oscar Peterson Trio

Thought for the week

"As long as there are history books, Neil Armstrong will be included in them, remembered for taking humankind's first small step on a world beyond our own," said NASA Administrator Charles Bolden.

Spring appears to be upon us and temperatures are on the rise. It's also the time when people emerge from hibernation and start thinking about field trips. Remember to fill in those field intentions forms and watch out for changes in the weather.

Our 4th year students start their exams today – good luck to you all. Please try to keep the noise levels down if you are on level 2 of the Research Building. Unfortunately we have little control over the noise made by the builders, so exams plus crane noise go together.

Building News

Scaffolding is supposed to be coming down in the Atrium this week. I saw lots of workmen early this morning (Monday 3rd) but by 11 o'clock they seem to have gone.

At this morning's buildings meeting we were told by Lunds that things are still more-or-less on track for a 22 September finish, which means we are still hoping to start moving into SBS2 on 8th October. If you haven't started thinking about the move, then start now. If you need a big red bin for throwing out lots of paper rubbish, talk to the secretaries.

MPI News

Our MPI inspector, Meghan Heaphy, has resigned in order to take on more challenging work with the DHB. We are hoping her job will be re-advertised, but in the meantime her work will be handled by others in her office, plus inspectors in the North Island. Obviously this will make all PC2 work, including transfers a bit more difficult, so please make sure you give Nicole plenty of time.

Sea Water News

We had some problems with the seawater system over the weekend and had to completely shut down one bank of tanks. This has highlighted some major issues with the whole water system in the aquarium (plus the seawater supply to other parts of the building). FM have gone away scratching their heads but hope to come up with a plan to fix things. At the moment things are working well (other than the failed block of tanks), but if you are using the aquarium system keep an eye on things and let Renny, Selwyn or Bill know if there is a problem.

On a completely different topic, a power surge through the University on Saturday morning has done some interesting things to the control systems for the building. We think everything is back to normal (some of it on a temporary basis) but please be vigilant and let us know if anything seems to be wrong.

The Tale of the Disappearing Fish

One evening last week one of our students lost a large number of fish from his tank in the aquarium. A thorough search failed to discover any sign of the. By Saturday morning they were back. Curiouser and curiouser: the investigation continues.

~ Bill ~

UC Thesis-in-three winner

Rachel van Heugten, (pictured left) with her winning "cheque" came first. Pictured next is Balaji Somasundaram (CAPE) who was third and Rachel Walsh (School of Law) who was second. Lucy Johnston (Dean of Postgraduate Research) presented their awards.



AMP People's Choice Scholarship

Josh Thia, MSc student in Biology, is in the running for an AMP Scholarship to continue his studies with the Nigerian Montane Forest project (http://www.biol.canterbury.ac.nz/NMF_project/), vote for him: <http://ampvoting.orcas.co.nz/Applicants/Details/11429>

Throughout September all People's Choice Scholarship applicants are judged by their peers – the applicant with the most votes takes home a \$10,000 AMP Scholarship!

Help Josh to "Do his thing"

Recently submitted theses

Katouah, H. A. (2012). Inhibition of macrophage metabolism by oxLDL. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy.

MacFarlane, A. E. T. (2012). Mutualism in a native New Zealand forest: The good, the bad and the ugly. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Ecology.

Memory, A. E. (2012). What factors influence the success of *Senecio* (Asteraceae) in Canterbury, New Zealand: A phylogenetic and ecological study. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Ecology.

Roberts, K. J. (2012). Factors limiting invertebrate recovery during stream restoration. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Ecology.

Udy, K. L. (2012). The influence of forest reserve protection on the structure, stability, and functioning of drug-associated invertebrate communities. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Ecology.

Journal News

Recent publications in the school

Moniz, M.B.J., Rindi, F., Novis, P.M., Broady, P.A. and Guiry, M.D. (2012). Molecular phylogeny of Antarctic *Prasiola* (Prasiolales, Trebouxiophyceae) reveals extensive cryptic diversity. *Journal of Phycology* 48(4): 940-955.

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian: http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Cilia: motors and regulation
King, Stephen M.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=569313>
-

and now for something completely different...

[Underwater rugby recognised](#)

Music in the Department OR Songbird in the Department



One of our biology undergrads is playing in Ad Lib cafe this Wednesday 12th from 1-2pm.

Roseanna would love to have you along!

You can check her out here:

<http://www.facebook.com/RoseannaMusic>

<http://www.youtube.com/watch?v=l-2CKNqtUYU>

Journal News

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Living with the trees of life: towards the transformation of tropical agriculture**
Leahey, Roger R. B.
In Library, Central Library, SB 171 .T73 .L43 2012
 - **Biology and conservation of wild felids**
Macdonald, David W.
New book display, Central Library, QL 737 .C23 .B615 2010
-

and now for something completely different...

[Olympics 2012 Parade](#)

(Link will take awhile to go through)

[Downton Labbey](#)

Thought for the week

Sometimes the heart sees what is invisible to the eye. -H. Jackson Brown

Building News

SBS2

We have just started the final week of the building programme. Lunds have reported that they are on track for finishing levels 2-6 by the end of the week, with commercial cleaners starting on level 6 today and working their way down. There are still some issues with the eastern stairwell and level 1 will be almost, but not quite finished by the end of the week.

In order to complete work on the linkway this week, Lunds will need take over the whole area. This means that there will be no access between SBS1 and von Haast through SBS2 for the whole of this week. Next week (starting Monday 24th September) Learning Resources will occupy the building and will start unpacking furniture, fitting phones etc. We are still on track to start moving into the building on Monday 8th October.

Once Lunds move out of their yard in the space between SBS1 and von Haast the University will do some landscaping of the area.

SBS1 (Research Building)

Remediation starts this week. The first job on the earthquake remediation list is the set of PC2 plant growth rooms in the basement. This week's tasks are to set up a temporary growth room in room 183, move all of the equipment into it, then decontaminate the whole of the basement area. Next week (24th) Hawkins will start ripping the place apart.

Once Lunds have vacated the area, Hawkins will erect scaffolding up both the east and west shear walls. This will involve removal of the existing ramp into the Atrium (because that is where the scaffolding will go) and a new access route will be formed as part of the landscaping project. More on this when we get details.

~ Bill ~

SBS at the Sanford Science Fair - 12 September, 2012

Nick Baker (PhD candidate) and I, together with Joan Gladwyn, helped to judge the [Sanford Science Fair](#). This involved a 6am start to take a 'V' fueled drive to Timaru, judging and then driving home in time to put the kids to bed.

The Sanford Fair provides a venue for scientific presentations from Mid and South Canterbury Schools to display original exhibits on scientific or technological themes.

After a quick perusal of the exhibits Nick, Joan and I decided to emphasise the originality of the scientific questions the students were asking. This is a criteria we feel is of particular importance for the Emerging Scientist Awards that we judged.

After viewing many exhibits and interviewing as many students as we could we managed to agree on some awards.

In the seniors sections, the **Year 13 students, Eve Hepburn and Anna-Claire Bright from Craighead Diocesan School**, had a theory that water salinity would influence the speed of their rowing crews. They persuaded the Under-16 eight to row a 1km course along Salt Water Creek at different times during the day, to investigate whether the changes in salinity would affect the time for the course. There were obvious limitations to the study. However, when interviewed Eve and Anna-Claire, had very good ideas on how to improve their experimental design and data analysis. Their work was imaginative and, impressively, had been undertaken in their own time.

In the intermediate section, **Year 10 student, Phoebe Bates**, impressed us with her investigation into the effect of exercise on memory recall. During the interview, she revealed that one of her mathematics classes is directly after physical education. She wanted to know if this was influencing her learning. Her literature review of the subject was impressive. She used [GoogleScholar](#) to identify relevant literature and had thoroughly read an open-access article (she included the pubmed reference on her poster). She then applied the experimental design to her own subjects. Her volunteers undertook a memory test, then ran 100m and took a similar memory test. She found that eight out of nine subjects scored worse on the second test, possibly explained by the drop in glucose levels in the brain after exercise. When quizzed about how to improve her experiment she had very clear and good ideas on how to do so.

The final winner from the intermediate section, **Year 10 winner, Laura Grigg, from Craighead Diocesan School**, undertook an investigation into the relative heating effects of biofuel and regular diesel fuel. She ran calorimetric experiments to measure the energy content of both fuels, then attempted to quantify the energies required to harvest the biofuel.

Another worthy winner was the study by, **Year 10 Craighead Diocesan School student, Estelle Arundell**. She went home with the Trophy for Best in Fair, the Years 9 & 10 Science Gold Medal, The Environment Canterbury Resource Management School Award and the Statistics Prize. All for her investigation into public awareness of the [Carbon Handprint](#), before and after providing information resources to her test subjects. We were particularly impressed with her independent data analysis. She used box-and-whisker plots to illustrate variation and had a clear idea of how to test for significance.

I did note that the students were major users of Wikipedia, mainly as a resource for finding background information on both local and internationally important scientific concepts from physics, engineering, chemistry and biology. For example, one student had made a large review of [IGF-2](#) and its potential influence on heart size. I think this further illustrates just how Scientists can influence society by contributing to this resource.

It was a great day out of the office and I highly recommend others taking the time if they have the opportunity.

Paul Gardner

Journal News

Recent publications in the school

Bigwood, T., Hudson, J.A., Conney, J., McIntyre, L., Billington, C., **Heinemann, J.A.** and Wall, F. (2012). Inhibition of *Listeria monocytogenes* by *Enterococcus mundtii* isolated from soil. Food Microbiology 32: 354-360.

Hale, M.L., Burg, T.M. and **Steeves, T.E.** (2012). Sampling for microsatellite-based population genetic studies: 25 to 30 individuals per population is enough to accurately estimate allele frequencies. PLoS ONE 7(9): e45170.

Massaro, M., Ortiz-Catedral, L., **Julian, L.**, Galbraith, J.A., **Kurenbach, B.**, Kearvall, J., Kemp, J., **van Hal, J.**, Elkington, S., Taylor, G., Greene, T., van de Wetering, J., van de Wetering, M., Pryde, M., Dilks, P., **Heber, S.**, **Steeves, T.**, **Walters, M.**, Shaw, S., Potter, J., Farrant, M., Brunton, D.H., Hauber, M., Jackson, B., Bell, P., Moorhouse, R., McInnes, K. and **Varsani, A.** (2012). Molecular characterisation of beak and feather disease virus (BFDV) in New Zealand and its implications for managing an infectious disease. Archives of Virology 157: 1651-1663.

Library News

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Food and industrial bioproducts and bioprocessing
Dunford, Nurhan Turgut
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=859301>
- Methane and climate change
Reay, Dave
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=554794>
- Evolutionary systems biology
Soyer, Orkun S.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=973600>

and now for something completely different...

The first person who can spot Selwyn will win a huge prize!



About halfway through my 85 PBRF evidence portfolios – but nowhere near half way getting my office ready to move into our new admin area in refurbished Biology Stage 2. I think we need to find a name for the building!!

~ Paula ~

Building News

Despite appearances, everything is still on track and more-or-less on time. Lunds had their “official” last day on Friday and the University has taken over most of the upper parts of SBS2. As I write this, large quantities of furniture are being trundled into the building. Work is still happening on level 1 and on the stairs and linkway, plus final bit to the compound at the back. This should all steadily come on line over the next two weeks. We still have October 8 as the start of the big move.

Remediation work has started in the research building with the shut-down of the basement plant growth rooms. Work will start on them today. One problem that may slow this down is that the basement seems to have sprung a leak, especially around the region of the growth rooms and we need to find out where the water is coming from.

~ Bill ~

Icefest

Last Tuesday and Wednesday we had about 350 kids looking down microscopes at mosses, lichens, mites and other beasties in a big tent in Hagley Park. They then enjoyed modelling a mite or collembolan – colours are not natural!



Journal News

Recent publications in the school

De Sassi, C., Staniczenko, P.P.A. and **Tylianakis, J.M.** (2012). Warming and nitrogen affect size structuring and density dependence in a host-parasitoid food web. *Philosophical Transactions of the Royal Society B* 367: 3033-3041.

Oskam, C.L., **Allentoft, M.E.**, Walter, R., Scofield, R.P., Haile, J., **Holdaway, R.N.**, Bunce, M. and Jacomb, C. (2012). Ancient DNA analyses of early archaeological sites in New Zealand reveal extreme exploitation of moa (Aves: Dinornithiformes) at all life stages. *Quaternary Science Reviews* 52: 41-48.

Library News

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Water quality indices
Abbasi, Tasneem
<http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=453924>
- Energetic food webs : an analysis of real and model ecosystems
Moore, John C.
<http://site.ebrary.com/lib/uofcanterbury/docDetail.action?docID=10590405>

and now for something completely different...

In ode to the big shift...

[The messy office](#)

[Downsizing your monitor](#)

[No designated desk](#)

[Filing paperwork](#)

Thought for the week

“There is always a sadness about packing. I guess you wonder if where you're going is as good as where you've been.”

— Richard Proenneke, *One Man's Wilderness: An Alaskan Odyssey*

Building News

Not much to report on the final stages of building in SBS2 this week. Lunds are still frantically trying to finish level one. In theory levels 2-6 are finished other than the toilets and linkways.

Large quantities of furniture arrived last week and this is currently being assembled, hopefully all ready for the start of the move on 8th. As you will be aware, the first move will involve all of the admin cluster on SBS level 2 and we will start gearing up for that on Friday 5th. Late afternoon on 5th the pigeon holes currently located in room 425 in von Haast will be dismantled and moved across to SBS2. Can people please check pigeon holes early afternoon on Friday and empty them out. Note that there will be very limited admin services on Monday 8th .

SBS1 remediation is happening, and the growth rooms in the basement are currently out of bounds. We appear to have fairly major water problems in the basement, though at the moment I'm not sure what, if anything, is being done about it.

~ Bill ~

HAZM 401 Introduction to Hazards and Disasters 2013

HAZM 401 will be a new course offered by the Department of Geological Sciences. It will provide essential background concepts for a critical understanding of hazard and disaster risk management situations and practices. The course assumes no specific background and is presented in such a way that students from a wide range of disciplines can benefit from it. It treats hazards and risks in a complex systems context applicable to, for example, natural disasters, business, biosecurity, insurance, health, engineering and recreation.

If you would like to learn more or make comments, contact the course coordinator [Tim Davies](#).

[Full description](#)

Journal News

Recent publications in the school

Shurin, J.B., Clasen, J.L., Greig, H.S., Kratina, P. and Thompson, P.L. (2012). Warming shifts top-down and bottom-up control of pond food web structure and function. *Philosophical Transactions of the Royal Society B* 367: 3008-3017.

Library News

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Marine protected areas: a multidisciplinary approach
Claudet, Joachim
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=807157>

and now for something completely different...

Loudshirt day winners

Carol Frost, the Loudest



Cassey Quy, most Bling and most Daring



Jenny Ladley, truly Hideous



[Sing it loud, sing it proud](#)

Thought for the week

"This is the best part of the game," Goodes said of the celebration. "You work so hard to get here, doing this is why you play football."

Building News

Everything is on hold while we wait for SBS2 to be declared finished. The latest rumour is that we will start moving on Friday (12th) or Monday (14th). Meanwhile we continue to have water problems in the SBS1 basement, though at least we now have a good idea where it is coming from. This is having an effect on remediation of the basement plant growth rooms, although work is progressing well in this area.

~ Bill ~

MBIE Smart Ideas Grant Success

Congratulations to Renwick Dobson and Madhu Vasudevamurthy, the leaders of our two successful smart ideas MBIE grants

Ren leads a project entitled **Diagnostic Markers for Diabetic Complications** (Smart Idea, \$995,628 over 2 years). The project team includes Canterbury Scientific Ltd, Antony Fairbanks, Jackie Healy, Susie Meade and Juliet Gerrard. The funded project seeks to provide a new product to assist clinicians in identifying diabetic individuals at a high risk of developing secondary complications.

Madhu's project is **Protein Nanofibres-based Biosensors and Chromatography Beads** (Smart Idea, \$973,700 over 2 years). This research aims to put New Zealand at the forefront of bionanotechnology research through development of novel protein nanofibre based applications. The project team includes Luigi Sasso, Jackie Healy, Susie Meade and Juliet Gerrard.

[Results for the high value manufacturing and services research fund](#)

Recently submitted theses

Hutt, S. (2012). First responders to cataclysmic upheaval: Earthquake-driven effects on microalgae in the Avon-Heathcote Estuary, Christchurch, New Zealand. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Zoology.

Revanna, R. (2012). Investigation into the functional nature of FRC locus conditioning fructan levels in onion. School of Biological Sciences. Christchurch, Canterbury. Doctor of Philosophy in Biotechnology.

Journal News

Recent publications in the school

Congratulations Jane on your first publication! First authored always a bonus!

Andrews, B.J., Hale, M.L. and Steeves, T.E. (2012). Characterisation of microsatellite loci in the critically endangered orange-fronted kākāriki (*Cyanoramphus malherbi*) isolated using genomic next generation sequencing. Conservation Genetics Resources: doi.10.1007/s12686-12012-19777-12684.

Kornfeld, A., Horton, T.W., Yakir, D., **Searle, S.Y.**, Griffin, K.L., Atkin, O.K., Subke, J.-A. and **Turnbull, M.H.** (2012). A field-compatible method for measuring alternative respiratory pathway activities *in vivo* using stable O₂ isotopes. Plant, Cell and Environment 35: 1518-1532.

Congratuatiions to Simona on her first, first authored paper!

Kraberger, S., Thomas, J.E., Geering, A.D.W., **Dayaram, A.**, **Stainton, D.**, Hadfield, J., **Walters, M.**, Parmenter, K.S., van Brunschot, S., **Collings, D.A.**, Martin, D.P. and **Varsani, A.** (2012). Australian monocot-infecting mastrevirus diversity rivals that in Africa. Virus Research 169: 127-136.

Marinov, M. (2012). Description of the larva of *Trineuragrion percostale* Ris (Odonata: Megapodagrionidae) with a key to the larvae of New Caledonian genera of Megapodagrionidae. International Journal of Odonatology 15(3): 241-248.

Schiel, D.R. and Thompson, G.A. (2012). Demography and population biology of the invasive kelp *Undaria pinnatifida* on shallow reefs in southern New Zealand. Journal of Experimental Marine Biology and Ecology 434-435: 25-33.

Smith, F.M.J., Wood, S.A., Wilks, T., Kelly, David, **Broady, P.A.**, Williamson, W. and Gaw, S. (2012). Survey of *Scytonema* (Cyanobacteria) and associated saxitoxins in the littoral zone of recreational lakes in Canterbury, New Zealand. Phycologia 51(5): 542-551.

Urbina, M.A. and Glover, C.N. (2012). Should I stay or should I go?: Physiological, metabolic and biochemical consequences of voluntary emersion upon aquatic hypoxia in the scaleless fish *Galaxias maculatus*. Journal of Comparative Physiology B: doi.10.1007/s00360-00012-00678-00363.

Urbina, M.A., Glover, C.N. and Forster, M.E. (2012). A novel oxyconforming response in the freshwater fish *Galaxias maculatus*. Comparative Biochemistry and Physiology Part A 161: 301-306.

Library News

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Genetics of populations**
Hedrick, Philip W.
New book display, Central Library, QH 455 .H43 2011
- **Tool use and causal cognition**
McCormack, Teresa
In Library, Central Library, BF 311 .T653 2011
- **The beaver: its life and impact**
Müller-Schwarze, Dietland
In Library, Central Library, QL 737 .R632 .M85 2011
- **The ecology of Sumatra**
Whitten, Tony
In Library, Central Library, QH 186 .E25 2000

and now for something completely different...

[What are some reasons why lawn mowers will not start?](#)

(OK, I couldn't think of anything...)

[Ten of the most beautiful train stations in the world](#)

[How to eat a Tim Tam](#)

(For those of you who didn't eat it this way already...)

Thought for the week

There's no such thing as fun for the whole family. -Jerry Seinfeld

Entre \$75k Challenge 2012 awards \$20k Prize for Alga BioPro Ltd

Entre is a not-for-profit, student-run company at UC Canterbury and aims to encourage and cultivate the entrepreneurial spirit among university students. Entre's 75K Challenge 2012 had 56 entrants; both from UC and CPIT who all presented their business proposals for the competition. The 10 finalists were selected through a qualifying phase and the final stage was judged in a dragons den style competition with judges from the ANZ Bank, Price Waterhouse Coopers and Powerhouse Ventures.



Alga BioPro Ltd., a team run by two of the CAPE PhD students; Neha Chandrasekaran (Supervisor: Prof. Conan Fee) and Swami Detchanamurthy (Supervisor: Dr. Peter Gostomski) along with **Tejraj Janmale (Supervisor: Assoc. Prof. Steven Gieseg), a PhD student from Biological Sciences won the 2012 Powerhouse Venture Incubator Award worth NZD 20,000.** They have proposed a novel process integration idea to convert industrial flue gases (especially carbon monoxide and carbon dioxide) and industrial effluents into valuable products (Bioethanol, Biodiesel and omega-3 fatty acids) by utilizing the facets of algae. The award will help them further to commercialize their idea through Powerhouse Ventures Canterbury Innovation Incubator.

Journal News

Recent publications in the school

Allentoft, M.E., Collins, M., Harker, D., Haile, J., Oskam, C.L., **Hale, M.L.**, Campos, P.F., Samaniego, J.A., Gilbert, M.T.P., Willerslev, E., Zhang, G., Scofield, R.P., **Holdaway, R.N.** and Bunce, M. (2012). The half-life of DNA in bone: measuring decay kinetics in 158 dated fossils. Proceedings of the Royal Society B: doi:10.1098/rspb.2012.1745. [Read about Morten et al in 'Nature - News & Comment'](#).

Davison, W. and N. A. Herbert (2012). Swimming-Enhanced Growth. Swimming Physiology of Fish: Towards Using Exercise to Farm a Fit Fish in Sustainable Aquaculture. A. P. Palstra and J. V. Planas. Berlin, Springer-Verlag: 177-202.

This is Laurel Julian's first 1st author paper as part of her MSc - Congratulations!

Julian, L., Lorenzo, A., Chenuet, J.-P., Bonzon, M., Marchal, C., Vignon, L., **Collings, D.A.**, **Walters, M.**, Jackson, B. and **Varsani, A.** (2012). Evidence of multiple introductions of beak and feather disease virus into the Pacific islands of Nouvelle-Calédonie (New Caledonia). Journal of General Virology 93: 2466-2472.

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- Ecological and environmental physiology of fishes
Eddy, B.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=1015308>
- Plant physics
Niklas, Karl J.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=867820>

and now for something completely different...

[How to buy and maintain a shovel](#)

[For the beer tasters among us](#)

Thought for the week

Only those who have the patience to do simple things perfectly will acquire the skill to do difficult thing easily.

-Johann Freidrich von Schiller

Congratulations all round this week: firstly to Professor Juliet Gerrard - a new Fellow of the Royal Society of New Zealand, the only woman this year and the only one from UC to be so honoured!

Congratulations to all speakers at our ABC - I was impressed with all the talks that I heard! Many thanks to all those who chaired sessions and kept everyone well to time; and of course our thanks to sponsors and organisers.

Congratulations also to Daniel Stouffer who has been called up for interview for this round of the Rutherford Discovery Fellowships.

Most of the move into our refurbished offices (Old Zoo?) has occurred - thanks here especially to Jenny for handling logistics; and to John Scott and various others who tried to get everyone linked up and secured (in the different senses of the word to do with keys, bookcases and filing cabinets!) as soon as was possible. Still to move the workshops into the ground floor.

The next move will be floors 2 and 3 from Putaiao koiora back to von Haast as we get ready to start the remediation of the research building.

Best wishes to all our undergrads as they prepare to sit for their finals. And best wishes to all our post grads and summer students as they prepare for the 'summer season' of research.

~ Paula ~

Biological Sciences Photo Competition Results

The long awaited photo competition results are here! We had a great variety of photos with a broad interpretation of this year's theme, "What are you looking at?" These photos have been on display in the Biology research buildings' Edgar Stead Atrium and near the tea room on the second floor. In all we had a total of 85 entries!

With so many outstanding photos the external judges had quite the challenge to select the top three and there were eleven highly commended photos.

This year we had generous sponsors that helped make the photo competition such a success: C. Lund & Sons Ltd, Photo & Video International, Kens Cameras, University Bookshop Canterbury Ltd, and the School of Biological Sciences. Thanks to these sponsors we were able to have prizes for the top three photos and many spot prizes for our participants.

If you are a spot prize winner, please pick up your winnings from Penny in the office. We appreciate having

so many great entries and look forward to seeing even more next year!

Photo competition committee:

Mark Galatowitsch, Simon Litchwark, Anish Shah, Ralph Adewoye, Matt Walters

Top Photos

1st: Fledgling Kea (Jane Godsen)

2nd: ET? (Simon Litchwark)

3rd: Bad hair day (Kate Wootton)

High commended

A little privacy, please (Finn Sumner)

Wool carder bee (Finn Sumner)

What you lookin' at (Anish Shah)

Back off paparazzi! (Mark Galatowitsch)

Green Lady (Dorien Coray)

The last swim (Amanda Klemmer)

What? (Sasha Roselli)

Curiouser and curiouser (Sophia Hunt)

Why hello! (Sarah Coxon)

Beware (Roseanna Gamlen-Greene)

What are you looking at? (Richard White)

Spot prizes

Richard White

Roseanna Gamlen-Greene

Anish Shah

Amanda Klemmer

Alex Knight

Andrew Memory

Rima Herber

Michelle Lambert

Daisy Stainton

Sophie Hunt

Simona Kraberger

Rachel van Heugten

Rishi Pandey

Each year, Tongan science students from Form 6 and 7 enter their environmental research projects in a science competition. The initiative has been sponsored by The University of Canterbury (UC) School of Biological Sciences, EcoCare Pacific Trust, Nautilus Minerals Tonga, and the Ministry of Education and Training Tonga for the past five years.

Dr. Sharyn Goldstien and four postgraduate students from the School of Biological Sciences, at the University of Canterbury recently visited Tonga and worked with the high school students on experimental design and environmental sampling techniques. During the ten day trip they visited seven schools across three islands as well as presenting the excellence in biology awards for the annual Secondary School Science Competition.

[Read all about the Tonga visit and competition winners.](#)

Oxford's Commitment to its Links with Australia and New Zealand

The University of Oxford has a longstanding relationship with Australia and New Zealand through academic collaboration and scholarships. We currently have 2,800 alumni in Australia, with alumni branches across the country. This trip will further strengthen this connection by encouraging more students from Australia and New Zealand to apply for graduate study at Oxford.

If you are aware of any students from Christchurch, Auckland, Sydney, Canberra or Melbourne who might be interested in attending these events to learn more about graduate study at Oxford, please encourage them to visit [this site to sign-up](#) and to receive more information.

Furthermore, if you know anyone from Australia or New Zealand who may be interested in applying for graduate study at Oxford, please ask them to visit our [Course Guide](#) for details on courses, application process and more.

Prospective graduate students can also get in touch with our Graduate Admissions team via our [online enquiry form](#).

Journal News

Recent publications in the school

Dawar, K., Zaman, M., Rowarth, J.S. and Turnbull, M.H. (2012). Applying urea with urease inhibitor (N-(n-butyl) thiophosphoric triamide) in fine particle application improves nitrogen uptake in ryegrass (*Lolium perenne* L.). *Soil Science and Plant Nutrition* 58: 309-318.

Yes, this masterpiece is 122 pages long!

Hagen, M., Kissling, W.D. Rasmussen, C., De Aguiar, M.A.M., Brown, L.E., Carstensen, D.W., Alvest-Dos-Santos, I., Dupont, Y.L., Edwards, F.K., Genini, J., Guimarães Jr., P.R., Jenkins, G.B., Jordano, P., Kaiser-Bunbury, C.N., Ledger, M.E., Maia, K.P., Marquitti, F.M.D., Mclaughlin, Ó., Morellato, L.P.C., O'Gorman, E.J., Trøjelsgaard, K., **Tylianakis, J.M.**, Vidal, M.M., Woodward, G. and Olesen, J.M. (2012). Biodiversity, species interactions and ecological networks in a fragmented world. *Advances in Ecological Research* 46: 89-210.

Nelson, X.J., Pratt, A.J., Cheseto, X., Torto, B. and **Jackson, R.R.** (2012). Mediation of a plant-spider association by specific volatile compounds. *Journal of Chemical Ecology* 38: 1081-1092.

Nelson, X.J., Warui, C.M. and **Jackson, R.R.** (2012). Widespread reliance on olfactory sex and species identification by lysomanine and spartaeine jumping spiders. *Biological Journal of the Linnean Society* 107: 664-677.

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librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Effective learning in the life sciences: how students can achieve their full potential**
Adams, David J.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=819273>
- **Plasticity, robustness, development and evolution**
Bateson, P. P. G.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=774999>
- **Yeast: molecular and cell biology**
Feldmann, Horst
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=1023291>
- **Terrestrial photosynthesis in a changing environment: a molecular, physiological, and ecological approach**
Flexas, Jaume
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=907127>
- **Design and analysis of long-term ecological monitoring studies**
Gitzen, Robert A.
New book display, Central Library, QH 541.15 .M64 .D46 2012
- **Forensic botany: a practical guide**
Hall, David W.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=947220>
- **Gorilla society: conflict, compromise, and cooperation between the sexes**
Harcourt, A. H.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=408304>

- **Numerical ecology**
Legendre, Pierre
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=982554>
 - **Conserving and valuing ecosystem services and biodiversity: economic, institutional and social challenges**
Ninan, K. N.
In Library, Central Library, QH 75 .C6817 2009
 - **World without weight: perspectives on an alien mind**
Povinelli, Daniel J.
New book display, Central Library, BF 311 .P665 2012
 - **Management of freshwater biodiversity: crayfish as bioindicators**
Reynolds, J. D.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=824428>
 - **The evolution of parental care**
Royle, Nick J.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=1015317>
 - **Temperature adaptation in a changing climate: nature at risk**
Storey, K. B.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=837631>
 - **Darwin's ghosts: in search of the first evolutionists**
Stott, Rebecca
In Library, Central Library, QH 361 .S76 2012
 - **Plant genome diversity**
Wendel, Jonathan F.
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=973347>
 - **Biocommunication of fungi**
Witzany, Günther
<http://www.canterbury.eblib.com.au/patron/FullRecord.aspx?p=971775>
-

and now for something completely different...

[My brain is full...](#)

- Did you know 11% of people are left handed
 - Did you know unless food is mixed with saliva you can't taste it
 - Did you know the average person falls asleep in 7 minutes
 - Did you know a bear has 42 teeth
 - Did you know no two corn flakes look the same
-

Thought for the week

Perseverance is the hard work you do after you get tired of doing the hard work you already did.

-Newt Gingrich

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Prospective graduate students can also get in touch with our Graduate Admissions team via our [online enquiry form](#).

and now for something completely different...

[Underwater dogs](#)

(scroll down to check out the dogs...)

[How to saw wood like an expert](#)

[Top 12 impressive atriums from around the world](#)

Thought for the week

Nothing great was ever achieved without enthusiasm - Ralph Waldo Emerson

Congratulations to all our Honours students for completing their projects - and just a few exams to go for our undergrads. Many staff will have a low profile for a while, while they complete their marking.

Staff, post graduates and summer students are gearing up for the summer season - whether in the field, the lab or both. Field people, particularly, please remember that there are new forms to fill out, and for everyone who is new, remember to attend health and safety and compliance training sessions (otherwise you won't be allowed into the lab!).

Very many thanks to Jenny for managing the move to our refurbished premises. They are completely unrecognisable - and are being met with praise, and even some thank you's!

But to those who moved from their allocated office: you once did have a key to an office but if you moved, you do need to wait for a new key to be cut. There is only one person to serve all the campus - and we are not the only group on the move.

Remediation of Putaiao koiora has started (again) - role on March 2014!

~ Paula ~

Annual Biology Conference

This year's ABC was held on 17th October. The conference was a showcase for our PhD, MSc and BSc Hons postgraduates. This year the Otago Medical School postgraduates took part and were placed in two categories. High School students were also invited to attend. We would like to congratulate the following on their outstanding achievements.

Powerhouse Prize for Innovation: Simon Hogg

Best Poster: Ryan Catchpole

Research Committee Prizes

Best paper by an MSc student: James McCarthy

Best paper by a PhD student: Sara Kross

Best overall publication output: Claudio de Sassi

Oral presentations:

BSc (Hons)

1st: Tessa Lambert

2nd: Simon Hogg

3rd: Jennifer Crowther

MSc

1st: Richard White

2nd: Olivia Burge

3rd: Aaron Stevens

PhD

1st: Rathishri Chandurvelan

2nd: Mark Galatowitsch

3rd: Sarah Wilson-Coutts

Overall Best Oral Presentation: Jessica Hill

Prizes were kindly donated by Thermofisher and Alphatech (Westfield vouchers) and bottles of wine by UCSA.

The spot prizes awarded on the day were kindly donated by UBS. PowerHouse awarded their prize to Simon Hogg on the day.

Introducing...

The Protein Science and Engineering Team, Industrial Research Limited at The University of Canterbury

In 2012, as part of the New Zealand Government's efforts to assist the rebuild and growth of Canterbury businesses, the Industrial Research Limited (IRL) Protein Science and Engineering Group was formed. IRL aims to assist companies in either adding value to their existing products, which many companies see as crucial in a competitive international market, or, exploring new opportunities based on companies existing product portfolios and strategic R&D goals and expansion plans.

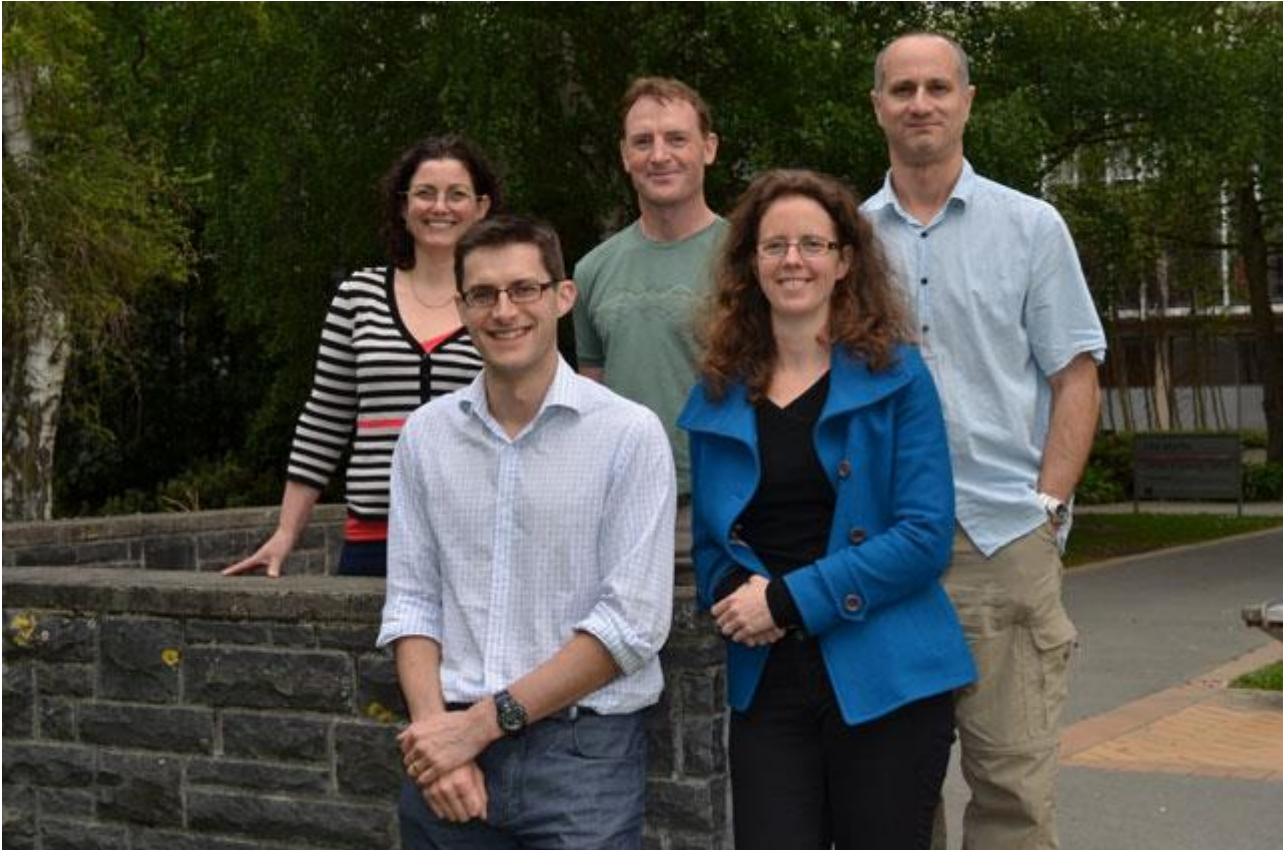
IRL has identified that Universities can play a key role in realizing IRL's goals of growing the high value manufacturing sector in Canterbury, New Zealand's second largest manufacturing sector. With this in mind, IRL has appointed Prof Juliet Gerrard as a half-time Industry and Outreach Fellow to facilitate projects between industry and academia.

The new IRL team, headed by Dr Andrew Muscroft-Taylor, is delighted to be co-located at the University of Canterbury, given its world class facilities and the potential to further develop our relationship with academics. Embedding within the University will assist in creating strong alliances between the University, Industry and IRL. Projects involving all three are already underway between the School of Biological Sciences (Dr Ren Dobson, Dr Grant Pearce), IRL and a variety of Christchurch businesses.

Four research scientists have been appointed to the team: Dr Antonia Miller, Dr James Strong, Mr Dion Thompson and Dr Michael Steward (to arrive in Jan 2013). To round out the team, Dr Susie Meade plays a vital role in industry engagement and project management. Our offices are located on level 6 of the

Biological Sciences Building.

We are always enthusiastic to hear about the research on-site at Canterbury and aim to engage with teams within the University that may have the ability to provide a biotechnological solution to industry within Canterbury.



The IRL Protein Science and Engineering Team: From left to right, Susie Meade (Industry Engagement), Andrew Muscroft-Taylor (Team Leader), Dion Thompson, Antonia Miller, James Strong (Research Scientists). Absent, Michael Steward (to arrive in 2013).

Journal News

Recent publications in the school

Heskel, M.A., Anderson, O.R., Atkin, O.K., **Turnbull, M.H.** and Griffin, K.L. (2012). Leaf- and cell-level carbon cycling responses to a nitrogen and phosphorus gradient in two Arctic tundra species. *American Journal of Botany* 99(10): 1702-1714.

Hoepfner, M.P., **Gardner, P.P. and Poole, A.M.** (2012). Comparative analysis of RNA families reveals distinct repertoires for each domain of life. *PLoS Computational Biology* 8(11): e1002752.

Hoepfner, M.P. and **Poole, A.M.** (2012). Comparative genomics of eukaryotic small nucleolar RNAs reveals deep evolutionary ancestry amidst ongoing intragenomic mobility. *BMC Evolutionary Biology* 12(183): doi:10.1186/1471-2148-1112-1183.

Ronaldson, J.P., **Zainon, R.**, Scott, N.J.A., **Giese, S.P.**, Butler, A.P., Butler, P.H. and Anderson, N.G. (2012). Toward quantifying the composition of soft tissues by spectral CT with Medipix3. *Medical Physics* 39(11): 6847-6857.

Thompson, I.D., Ferreira, J., Gardner, T., Guariguata, M., Koh, L.P., Okabe, K., Pan, Y., Schmitt, C.B., **Tylianakis, J.**, Barlow, J., Kapos, V., Kurz, W.A., Parrotta, J.A., Spalding, M.D. and van Vliet, N. (2012). Forest biodiversity, carbon and other ecosystem services: relationships and impacts of deforestation and forest degradation. *Understanding Relationships between Biodiversity, Carbon, Forests and People: The Key to Achieving REDD+ Objectives. A Global Assessment Report.* J. A. Parrotta, C. Wildburger and S. Mansourian. Vienna, Austria, IUFRO World Series. 31: 21-50.

Library News

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http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Sustainable agriculture and new biotechnologies**
Benkeblia, Nouredine
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=919012>
- **Aquatic ecosystems**
Browne, Sheila A.
<http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=440807>
- **Biotechnology for medicinal plants: micropropagation and improvement**
Chandra, Suman
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=994617>
- **Ecology of marine bivalves: an ecosystem approach**
Dame, Richard F.
<http://search.ebscohost.com/login.aspx?direct=true&scope=site&db=nlebk&db=nlabk&AN=405337>
- **Bayesian biostatistics**
Lesaffre, Emmanuel
In Library, Central Library, QH 323.5 .L45 2012
- **Analysis of Phylogenetics and Evolution with R**
Paradis, Emmanuel
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=884307>
- **Marine biodiversity and ecosystem functioning: frameworks, methodologies, and integration**
Solan, Martin
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=1015314>
- **Systematics: a course of lectures**
Wheeler, Ward
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=871509>

and now for something completely different...

[Ditology](#)

[Air Zealand safety video](#)

(as viewed by 7.4 million people)

Thought for the week

The only person who never makes mistakes is the person who never does anything. -Denis Waitley

UC closed this Friday, 16th November, Canterbury Anniversary

Our latest Doctor...

Tristan Stringer, had his oral examination on Monday 12 November. In attendance was Dr Chris Glover (Senior Supervisor) and Dr Nicholas Ling (Oral Examiner). Tristan's thesis is titled "Development of bioassay approaches to evaluate the impacts of pollution on New Zealand estuaries using the marine copepod *Quinquelaophonte* sp.". Congratulations Tristan!

The proud moment wasn't caught on camera, but this [image](#) will have to do!

Introducing...



Adam Frederick Pearce was born on Monday 5th November weighing in at 3.47 kg (7lb 10 oz).
Congratulations to Grant and Magda on your beautiful wee boy.

Recently submitted theses

Burrowes, H. (2012). Macrophage activation and differentiation with cholesteral crystals. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Biochemistry.

Card, A. (2012). Locomotory mimicry in ant-like jumping spiders (Salticidae). School of Biological Sciences. Christchurch, Canterbury. Master of Science in Zoology.

Julian, L. (2012). Analysis of genetic diversity and evolution through recombination of beak and feather disease virus. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Microbiology.

Littlejohn, J. (2012). Peroxiredoxins: a model system for a self-assembling nanoscale system. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Biochemistry.

Suwandy, J. (2012). Adapting to change in Canterbury: Life-history strategy of a native marine invertebrate increasingly exposed to urbanisation and invasion. School of Biological Sciences. Christchurch, Canterbury. Master of Science in Zoology.

Journal News

Recent publications in the school

Kelly, D., Geldenhuis, A. James, A., Holland, E.P., Plank, M.J., Brockie, R.E., Cowan, P.E., Harper, G.A., Lee, W.G., Maitland, M.J., Mark, A.F., Mills, J.A., Wilson, P.R. and Byrom, A.E. (2012). Of mast and mean: differential-temperature cue makes mast seeding insensitive to climate change. *Ecology Letters*: doi:10.1111/ele.12020.

Sędzielewska, K.A., Böer, E., Bellebna, C., Wartmann, T., Bode, R., Melzer, M., **Baronian, K.** and Kunze, G. (2012). Role of the *AFRD1*-encoded fumarate reductase in hypoxia and osmotolerance in *Arxula adenivorans*. *FEMS* 12: 924-937.

Thompson, R.M., Brose, U., Dunne, J.A., Hall Jr, R.O., Hladysz, S., Kitching, R.L., Martinez, N.D., Rantala, H., Romanuk, T.N., **Stouffer, D.B. and Tylianakis, J.M.** (2012). Food webs: reconciling the structure and function of biodiversity. *Trends in Ecology and Evolution* 27(12): 689-697.

Library News

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http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Surface chemistry, bioavailability and metal homeostasis in aquatic organisms: an integrated approach**
Bury, Nicolas R.
New book display, Central Library, QH 545 .M45 .S87 2010
- **Birds of Melanesia: Te Bismarcks, Solomons, Vanuatu and New Caledonia**
Dutson, Guy C.L.
New book display, Central Library, QL 691 .B52 .D88 2011
- **A field guide to monitoring nests**
Ferguson-Lees, James
New book display, Central Library, QL 690 .G7 .F352 2011
- **A handbook of global freshwater invasive species**
Francis, Robert A.
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=958082>
- **Extinct birds**
Hume, Julian P.
New book display, Central Library, QL 676.8 .H86 2012
- **Biodiversity monitoring in Australia**
Lindenmayer, David
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=892675>
- **Ecosystem services: charting a path to sustainability: interdisciplinary research team summaries: conference, Arnold and Mabel Beckman Center, Irvine, California, November 10-13, 2011**
National Academies (U.S.). Irvine, Calif.)
<http://site.ebrary.com/lib/uofcanterbury/docDetail.action?docID=10565363>
- **Evolution of communicative flexibility: complexity, creativity, and adaptability in human and animal communication**
Oller, D. Kimbrough
<http://site.ebrary.com/lib/uofcanterbury/docDetail.action?docID=10251665>
- **Synthetic biology: a primer**
Baldwin, Geoff
New book display, EPS Library, TA 164 .S96 2012
- **Brain bugs: how the brain's flaws shape our lives**
Buonomano, Dean
In Library, Central Library, QP 376 .B86 2011
- **Wildlife behavior and conservation**
Yahner, Richard H.
In Library, Central Library, QL 751 .Y34 2012

and now for something completely different...

[A Jungle in There: Bacteria in Belly Buttons are Highly Diverse, but Predictable](#)

Thought for the week

When our eyes see our hands doing the work of our hearts, the circle of Creation is completed inside us, the doors of our souls fly open and love steps forth to heal everything in sight. -Michael Bridge

Recent publications in the school

Chitcholtan, K., Harris, E., Yu, Y., Harland, C. and **Garrill, A.** (2012). An investigation into plasmolysis in the oomycete *Achlya bisexualis* reveals that membrane-wall attachment points are sensitive to peptides containing the sequence RGD and that cell wall deposition can occur despite retraction of the protoplast. *Canadian Journal of Microbiology* 58: 1212-1220.

Heinemann, J. A. (2012). Letter to the editor: Food and chemical toxicology. *Food and Chemical Toxicology*: doi.org/10.1016/j.fct.2012.1008.1005.

Rosario, K., **Dayaram, A., Marinova, M.,** Ware, J., **Kraberger, S., Stainton, D.,** Breitbart, M. and **Varsani, A.** (2012). Diverse circular ssDNA viruses discovered in dragonflies (Odonata: Epiprocta). *Journal of General Virology* 93: 2668-2681.

Project Report - Stories from a Nigerian forest

Catch up with Matt Walters at www.project-report.info whilst he visits Nigeria. Daily updates will begin 21 November.

Journal News

Library News

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If you have any questions or concerns please contact your liaison

librarian: http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Atlas des reptiles du Cameroun**
Chirio, Laurent
In Library, EPS Library, QL 662 .C17 .C45 2007

- **Zombie tits and astronaut fish and other weird animals**
Crew, Rebecca
Due:, EPS Library, QL 791 .C972 2012
 - **Molecular forensics**
Rapley, Ralph
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=292554>
-

and now for something completely different...

A weekend in Auckland...

[Goodbye old world, as sung by an angel](#)

[Make your heart sing!](#)

[Pretty in pink](#)

[Where people meet, who love to cook](#)

[Taking off in a plane will never feel the same](#)

[So good...](#)

Thought for the week

Heaven on earth is a choice you must make, not a place we must find. -Wayne Dyer

It has been a while since we had an introduction to the SBS Newsletter, so here's a long one!!

I'm back from a very successful research trip to Antarctica where the fishing was excellent and the weather even better. It was -30oC when I arrived, but only -5oC when I left. Perhaps I should have stayed there because I am once again immersed in administration.

Exams are finished and summer school has started. Exam results will be posted out at the end of this week. Well done to all of you students who have done well in your semester 2 courses. Remember that you need to start thinking seriously about enrolling for your 2013 courses. There is a deadline of 10th December for first year students, but even if you are an advancing student, think about pre-enrolling by that date, then you can have a stress free Christmas. Note that the provisional timetable for next year has been posted, <http://www.canterbury.ac.nz/theuni/timetable> so you can see what your working week will look like.

I have yet to get into the swing of what's happening with building stuff, though it does look as though the move out of levels 2 and 3 of SBSOne went smoothly. From the noise coming from level 2, there can't be much left on the floor. People seem to have settled into SBSTwo, though obviously there are still a number of little niggling problems. If you have a problem, make sure that one of the building team knows about it. Other than that, things are set to be relatively quiet for a couple of months until late January, when we will need to start thinking about moving level 4. However, until we get further down the track with remediating levels 2 and 3 we won't have a firm date for this.

~ Bill ~

Recent publications in the school

Broady, P.A. (2012). Antarctic Cyanobacteria. An eclectic selection of their habitats and diversity. Ecology of Cyanobacteria II. B. A. Whitton. Dordrecht, Springer.

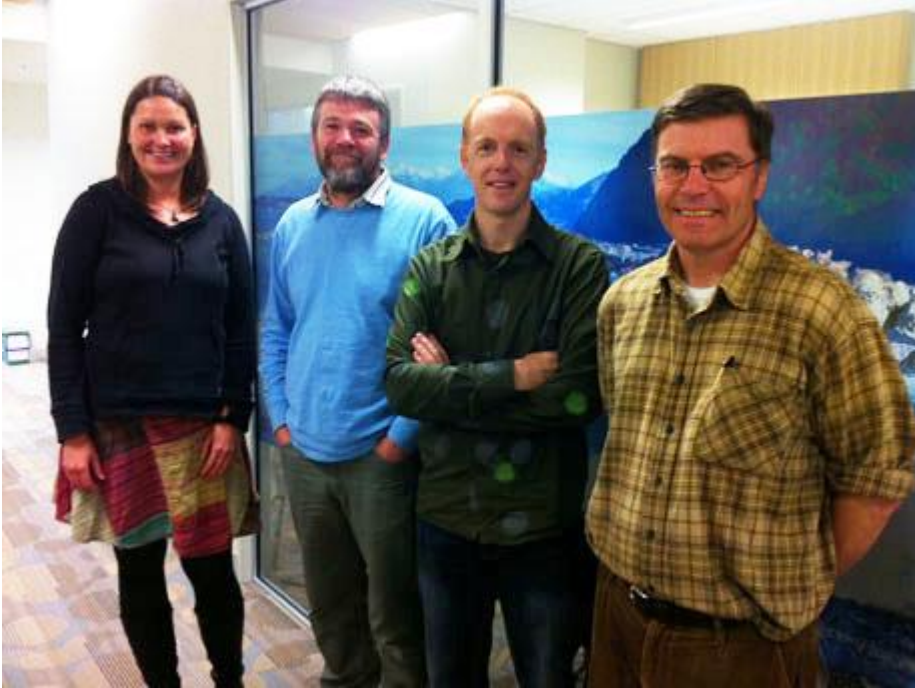
Burge, S.W., Daub, J., Eberhardt, R., Tate, J., Barquist, L., Nawrocki, E.P., Eddy, S.R., **Gardner, P.P.** and Bateman, A. (2012). Rfam 11.0: 10 years of RNA families. Nucleic Acids Research: doi:10.1093/nar/gks1005.

Merican, F. and Broady, P.A. (2012). Cyanobacteria in Kaituna River, Banks Peninsula, New Zealand. Ecology of Cyanobacteria II. B. A. Whitton. Dordrecht, Springer.

Schadich, E., Mason, D. and Sin, F.Y.T. (2012). Co-expressed peJK genes of lobster *Jasus edwardsii*. Australian Journal of Zoology 60(1): 10-17.

Our latest Doctors

Lorna Deppe, had her oral defence on Tuesday 20 November. Her thesis title is 'Spatial and temporal patterns of at-sea distribution and habitat use of New Zealand Albatrosses'. Lorna's senior supervisor is Associate Professor Jim Briskie.



Pictured L to R: Lorna, Paul Scofield (Co-Supervisor, Adjunct with SBS, Canterbury Museum), Dr Phil Battley (Oral Examiner) and Associate Professor Jim Briskie (Senior Supervisor)

Sarah-Jane O'Connor, had her oral defence on Wednesday 21 November. Her thesis title is 'Quantifying seed dispersal of matai (*Prumnopitys taxifolia*)'. Sarah-Jane's senior supervisor is Professor Dave Kelly.



Pictured L to R: Professor Dave Kelly (Senior Supervisor), Sarah-Jane, Dr Margaret Stanley (Oral Examiner),
Dr Tammy Steeves (Oral Chair)

Congratulations to both!!

Introducing...



Hello! My name is Sarah. I am Canadian and have just recently graduated from the University of Western Ontario with a bachelor's degree in Biology and Environmental Sciences. I'm coming to New Zealand in December, staying up until June/July and am going to be involved in some field work at Cass to start with. I enjoy working with all plants and animals and have experience with butterflies, badgers, polychaete worms, flesh fly larvae and various prairie grasses. I am a hard worker, enthusiastic and great fun to work with. If anyone is looking for a field assistant, please contact me. I am looking for paid work if possible so I can help pay for my flight home, but I'm open to all opportunities and experiences. E-mail: skruis24@gmail.com

The Great NZ Science Project launches

What are the big issues facing New Zealand?

Research providers, businesses, research users and the general public are invited to contribute to the development of the National Science Challenges.

The Challenges provide an opportunity to focus science on the significant issues and opportunities facing the country.

The Government is seeking input from the science and innovation sector and the public to help identify these issues and opportunities. There are two channels for input – one for the sector and one for the general public.

Those involved in the science community, as either research users or research providers, can provide ideas [here](#). Before completing the form, please read the [guidelines](#). Please send only one response per email address, as only one Challenge is allowed per address. This is necessary to manage responses.

In addition, the public can contribute to the development of the Challenges through [The Great NZ Science Project](#). This site invites all New Zealanders to contribute their ideas on the country's most important science issues.

We encourage you to participate in the development of the Challenges and promote these sites to your relevant networks.

and now for something completely different...

[10 most magnificent trees in the world](#)

What is the sweetest sound in the world?

Here's what a few (US) people thought...

- A baby's laughter
- The sound of the lake waking up
When the sun is just barely rising - the rainbow trout start jumping out of the water
sploosh....
sploosh.....
- Ocean waves
- Sugar
- Newborn baby's cry
- Middle of the night silence
- A loon's call, or maybe a kitten's purr
- My steak sizzling on the grill
- Children's laughter

No Hobbits were harmed in the making of this newsletter.

Thought for the week

The heart has reasons which the reason cannot understand. -Blaise Pascal

I feel like I am emerging into the sunlight after weeks immersed in PBRF portfolios, although I haven't quite stopped dreaming about EPs yet!

Not a good run in terms of accidents though - first Rennie (but he will ride cross country on a motor bike!) and Penny (something about a dog, a rabbit hole and a broken ankle). We hope both heal fast and well.

As many staff, students and research assistants are heading into the field, please do remember to fill in the [field forms](#). For individuals, fill in the [Field Activity Plan](#).

~ Paula ~

Recent publications in the school

Kross, S.M., Tylianakis, J.M. and Nelson, X.J. (2012). Diet composition and prey choice of New Zealand falcons nesting in anthropogenic and natural habitats. *New Zealand Journal of Ecology* 37(1): online access only.

Lindgreen, S. (2012). Book Review: Codon Evolution: Mechanisms and Models. *Trends in Evolutionary Biology* 4(1): e8.

Success at New Zealand Ecological Society conference

UC students did well at the NZ Ecol Soc annual conference at Lincoln on 26-28 November 2012. Olivia Burge (MSc) won the prize for the best student talk on a plant subject for her talk on restoration of forest in the Awarua-Waituna wetland. Merodie Beavon (MSc 2007) won the "best publication by a new researcher" prize for her 2012 paper from the thesis:

Beavon, M.A. & Kelly, D. (2012) Invasional meltdown: pollination of the invasive liana *Passiflora tripartita* var. *mollissima* (Passifloraceae) in New Zealand. *New Zealand Journal of Ecology*, 36, 100-107.

Research funding success

Australian Research Council (ARC): **Atkin, O.K., Meir, P.W., Turnbull, M.H., Sitch, S.A., Griffin, K.L.; Hurry, V.M.** (2013) *Disentangling climate and evolutionary controls over the temperature dependence of leaf respiration. (\$582,000 over 3 years).*

Journal News

Library News

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If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **The moon in the nautilus shell: from climate change to species extinction, how life persists in an ever-changing world: discordant harmonies reconsidered**
Botkin, Daniel B.
New book display, EPS Library, QH 75 .B67 2012
- **The heart of William James**
James, William
Due:, Central Library, B 945 .J21 .R524 2010
- **Animal encounters: human and animal interaction in Britain from the Norman conquest to World War One**
MacGregor, Arthur
In Library, EPS Library, QL 85 .M277 2012
- **Threatened amphibians of the world**
Stuart, S. N.
Recently returned, EPS Library, QL 644.7 .T48 2008
- **Metallointercalators: synthesis and techniques to probe their interactions with biomolecules**
Aldrich-Wright, Janice
<http://www.canterbury.ebib.com.au/patron/FullRecord.aspx?p=763531>
- **NMR of biomolecules: towards mechanistic systems biology**
Bertini, Ivano
<http://canterbury.ebib.com.au/patron/FullRecord.aspx?p=871260>
- **Biodiversity in agriculture: domestication, evolution, and sustainability**
Harlan Symposium University of California, (Davis)
In Library, Central Library, S 494.5 .A43 .H37 2008
- **Introduction to restoration ecology**
Howell, Evelyn A.
New book display, EPS Library, QH 541.15 .R45 .H69 2012
- **Fungal plant pathogens**
Lane, Charles R.
New book display, EPS Library, QK 604.2 .P45 .F86 2012
- **Swimming physiology of fish: towards using exercise to farm a fit fish in sustainable aquaculture**
Palstra, Arjan P.
New book display, EPS Library, QL 639.4 .S85 2013
- **Morphogenesis and pathogenicity in fungi**
Pérez-Martín, José
New book display, EPS Library, QR 245 .M672 2012
- **Biology of marine fungi**
Raghukumar, Chandralata
New book display, EPS Library, QK 618 .B559 2012
- **Salt water tears: an eyewitness account of the dolphin drive hunt slaughters of Taiji, Japan = Shio mizu namida**
Varley, Len
Due:, EPS Library, QL 737 .C432 .V315 2011

- **Horizons in earth science research**
Veress, Benjamin
New book display, EPS Library, QH 541.5 .R3 .H67 2010
 - **Principles of ecotoxicology**
Walker, C. H.
New book display, EPS Library, QH 545 .A1 .P745 2012
 - **The biology of disturbed habitats**
Walker, Lawrence R.
New book display, EPS Library, QH 541 .W248 2012
 - **Principles and techniques of biochemistry and molecular biology**
Wilson, Keith
New book display, EPS Library, QP 519.7 .P75 2010
-

and now for something completely different...

[Mrs Santa Claus's "plaster" boot](#)

(aka Penny)

[A.I.G. \(aka. Awww, I'm Guttet...\)](#)

[How to knit a baby santa suit](#)

(there's still time Grant!)

Top five Christmas movies to rent this season

5. Scrooged (1988)
 4. Home Alone (1990)
 3. It's a wonderful life (1946)
 2. Elf (2003)
 1. Die Hard (1988)
-

Thought for the week

People travel to wonder at the height of the mountains, at the huge waves of the sea, at the long courses of rivers, at the vast compass of the ocean, at the circular motion of the stars; and they pass by themselves without wondering. -St. Augustine

Congratulations to all our successful academic applicants for promotion and progressions:

Jim Briskie has been promoted to Professor and Hazel Chapman promoted to Associate Professor; Marie Hale and Anthony Poole are both promoted to Senior Lecturer over the Bar; Pieter Pelsler and Daniel Stouffer are both promoted to Senior Lecturer; Arvind Varsani was awarded a double increment within Senior Lecturer; Jon Harding progressed to the top of the Associate Professor grade; and progressions within the professorial grades were awarded to Jack Heinemann, Juliet Gerrard and David Schiel.

These promotions reflect a lot of hard work and dedication across the teaching, research and service spectrum of academia and are all thoroughly deserved!!

I would like to thank this year's promotions panel for their valuable input into what is a highly successful round.

~ Paula ~

Recent publications in the school

Bonesi, L., **Hale, M.L.** and Macdonald, D.W. (2012). Lessons from the use of non-invasive genetic sampling as a way to estimate Eurasian otter population size and sex ratio. *Acta Therapeutica*: doi:10.1007/s13364-012-0118-5.

Curtis, B.A., Tanifuji, G. Burki, F., Gruber, A., Irimia, M., Maruyama, S., Arias, M.C., Ball, S.G., Gile, G.H., Hirakawa, Y., Hopkins, J.F., Kuo, A., Rensing, S.A., Schmutz, J., Symeonidi, A., Elias, M., Eveleigh, R.J.M., Herman, E.K., Klute, M.J., Nakayama, T., Oborník, M., Reyes-Prieto, A., Armbrust, E.V., Aves, S.J., Beiko, R.G., Coutinho, P., Dacks, J.B., Durnford, D.G., Fast, N.M., Green, B.R., Grisdale, C.J., Hempel, F., Henrissat, B., Höppner, M.P., Ishida, K-I., Kim, E., Kořený, L., Kroth, P.G., Liu, Y., Malik, S-B., Maier, U.G., McRose, D., Mock, T., Neilson, J.A., Onodera, N.T., **Poole, A.M.**, Pritham, E.J., Richards, T.A., Rocap, G., Roy, S.W., Sarai, C., Schaack, S., Shirato, S., Slamovits, C.H., Spencer, D.F., Suzuki, S., Worden, A.Z., Zauner, S., Barry, K., Bell, C., Bharti, A.K., Crow, J.A., Grimwood, J., Kramer, R., Lindquist, E., Lucas, S., Salamov, A., McFadden, G.I., Lane, C.E., Keeling, P.J., Gray, M.W., Grigoriev, I.V. and Archibald, J.M. (2012). Algal genomes reveal evolutionary mosaicism and the fate of nucleomorphs. *Nature* 492: 59-65.

De Bruyn, A., Villemot, J., Lefeurve, P., Villar, E., Hoareau, M., Harimalala, M., Abdoul-Karime, A.L., Abdou-Chakour, C., Reynaud, B., Harkins, G.W., **Varsani, A.**, Martin, D.P. and Lett, J.-M. et al. (2012). East African cassava mosaic-like viruses from Africa to Indian ocean islands: molecular diversity, evolutionary history and geographical dissemination of a bipartite begomovirus. *BMC Evolutionary Biology* 12(228): doi:10.1186/1471-2148-1112-1228.

Jameson, P.E., O'Keefe, D.J. and Song, J. (2012). Is targeted modification of cytokinin regulatory gene activity in Rapid Cycling *Brassica rapa* an appropriate model for forage brassica, *B. napus*? *Agronomy New Zealand* 42: 193-204.

Marinov, M. and Theischinger, G. (2012). Description of two new aeshnids from Solomon Islands (Anisoptera: Aeshnidae). *Journal of the International Dragonfly Fund* 53: 1-8.

Biosafety Expert

Dorien Coray (PhD candidate) has just been selected by the Secretariat for the Convention on Biodiversity as a Cartagena Protocol on Biosafety Expert. This status allows Dorien to participate in official review and drafting exercises of official UN documents on risk assessment and risk management of living modified organisms.

Dorien joins Brigitta Kurenbach and Jack Heinemann on the list of biosafety experts with UN observer status.

Thought for the week

I have no thoughts...

Last newsletter for the year - so a time to wish everyone safe and relaxing summer holidays. For myself, John and I are going to Vanuatu from the 2nd to 9th January - so will be out of contact while on Aore Is.

Bill will shortly be sending out an email regarding working while the University is formally closed from 21st Dec, re-opening 3rd January. If you do need to come in please come in with a pair. Many thanks to all the helpers at the Christmas Party, the Graduation morning tea and the afternoon tea for Neil.

I would also like to take this opportunity to wish Neil Andrews a long and enjoyable retirement after 34 years with UC.

Best wishes for a happy festive season.

~ Paula ~

Recent publications in the school

Heber, S., Varsani, A., Kuhn, S., Girg, A., Kempenaers, B. and **Briskie, J.** (2012). The genetic rescue of two bottlenecked South Island robin populations using translocations of inbred donors. *Proceedings of the Royal Society B* 20122228.

Keown, D.A., Collings, D.A. and Keenan, J.I. (2012). Uptake and persistence of *Mycobacterium avium* subsp. *paratuberculosis* in human monocytes. *Infection and Immunity* 80(11): 3768-3775.

Kornfeld, A., Atkin, O.K., Griffin, K.L., Horton, T.W., Yakir, D. and **Turnbull, M.H.** (2012). Modulation of respiratory metabolism in response to nutrient changes along a soil chronosequence. *Plant, Cell and Environment*: DOI: 10.1111/pce.12047.

Kuja, J.O., **Jackson, R.R.,** Sune, G.O., Karanja, R.N.H., Lagat, Z.O. and **Carvell, G.E.** (2012). Nectar meals of a mosquito-specialist spider. *Psyche* 2012(Article ID 898721): 7 pages.

Lechner, B., Rashbrooke, M.C., **Collings, D.A.,** Eng, R.C., Kawamura, E., Whittington, A.T. and Wasteneys, G.O. (2012). The N-terminal TOG domain of *Arabidopsis* MOR1 modulates affinity for microtubule polymers. *Journal of Cell Science* 125: 4812-4821.

Marinov, M. (2012). Contribution to the Odonata of the Kingdom of Tonga. *Journal of the International Dragonfly Fund* 1: 1-18.

BIOL 203 mystery unravelled



(Photo: B. Kurenbach)

Undead “Frankie” (Matthew Turnbull) caught in the act of spinning his rival the equally undead Bantan (Ant Poole) only a short time before Bantan’s body was discovered outside of von Haast.

PhD oral completed



Rocio Jana, had her oral defence this morning through the wonderful world of digital technology! Whilst Rocio sat in a room in Chile, her senior supervisor Professor Dave Kelly and company went through the paces here on campus. Rocio's thesis is: Animal dispersal and its consequences for plant recruitment. Needless to say Rocio successfully defended her thesis - big congratulations!!

New Zealand Freshwater Sciences conference success

More than twelve past and present FERG students spoke at the NZ Freshwater Sciences conference in Dunedin last week with a number gaining recognition for their work. In particular, **Richard White** won the SIL Trust prize for the best talk by an MSc/BS honours student, **Amanda Klemmer** won the award for the best poster paper, and **Helen Warburton** and **Elizabeth Graham** received honourable mentions for their high

quality presentations. Finally, PhD student **Kristy Hogsden** won the award for the best recently published paper for "Hogsden, K.L. and Harding, J.S. (2012a) Anthropogenic and natural sources of acidity and metals and their influence on the structure of stream food webs. Environmental Pollution 162: 466–472".

Journal News

Library News

The following items ordered against your school/departmental non-continuing target have been received recently by the library. Please note this is NOT a complete list of all items of potential interest to your department. To view ALL new books in your subject area, please access the relevant subject lists available from the New Titles List:

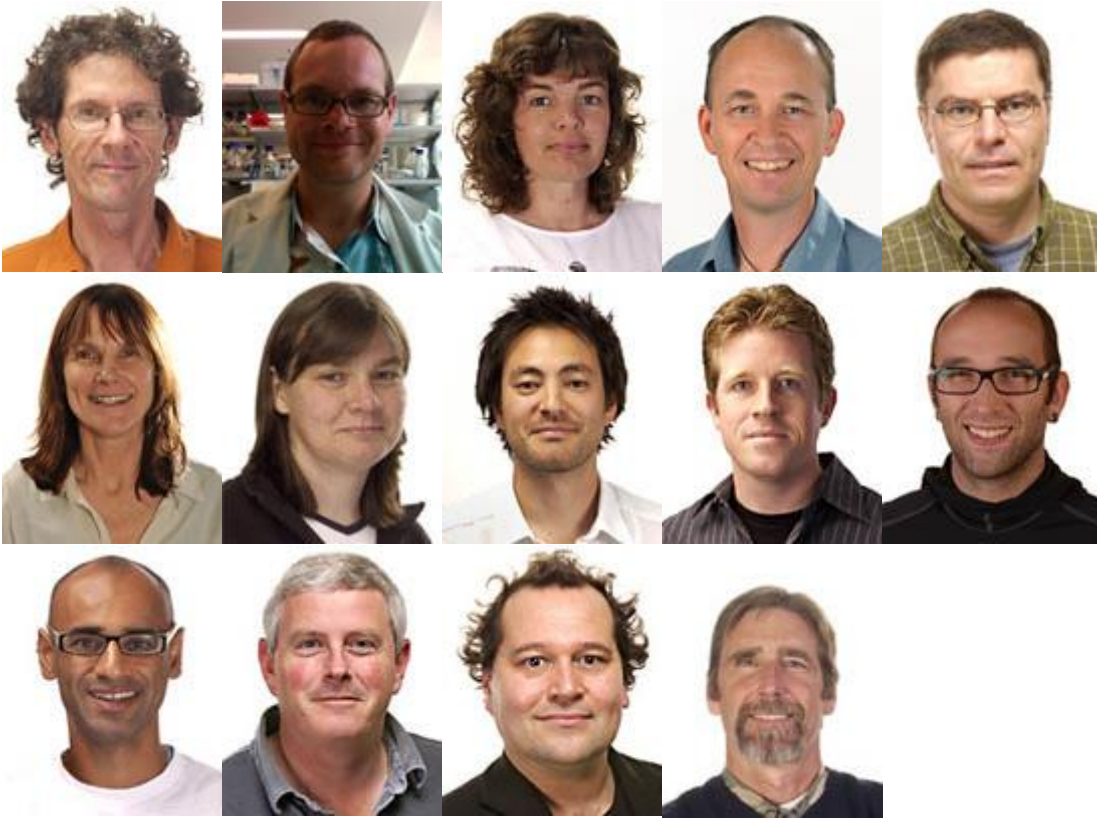
http://webapps.libr.canterbury.ac.nz/webdb/newtitles.php?page=newbooks_form.

If you have any questions or concerns please contact your liaison

librarian:http://webapps.libr.canterbury.ac.nz/webdb/phone_liaison.php?sort=subject.

- **Cockroaches: ecology, behavior, and natural history**
Bell, William J.
New book display, EPS Library, QL 505.5 .B43 2007
 - **Protecting biodiversity in production landscapes: a guide to working with agribusiness supply chains towards conserving biodiversity**
Leibel, Nathan
In Library, Central Library, S 494.5 .A43 .L525 2012
 - **Fungal cell wall: structure, synthesis, and assembly**
Ruiz-Herrera, José
New book display, EPS Library, QK 601 .R85 2012
 - **Treefrogs of Africa**
Schitz, Arne
New book display, EPS Library, QL 668 .E24 .S346 1999
 - **Molecular ecology**
Freeland, Joanna
<http://www.canterbury.ebilib.com.au/patron/FullRecord.aspx?p=792463>
-

Lecturing academics making it big this year!



In order of receiving award/accolades:

Dave Kelly received a 2011 UC Teaching Award.

Renwick Dobson, awarded Smart Ideas MBIE grant.

Juliet Gerrard, made Fellow of the Royal Society of New Zealand.

Matthew Turnbull, with external parties, was awarded \$582,00 over three years by the Australian Research Council.

Jim Briskie, has been promoted to Professor.

Hazel Chapman, has been promoted to Associate Professor.

Marie Hale, promoted to Senior Lecturer over the Bar.

Anthony Poole, promoted to Senior Lecturer over the Bar.

Pieter Pelsler, promoted to Senior Lecturer.

Daniel Stouffer, promoted to Senior Lecturer.

Arvind Varsani, was awarded a double increment within Senior Lecturer.

Jon Harding, progressed to the top of the Associate Professor grade.

Jack Heinemann, was awarded a progression within the professorial grade.

Juliet Gerrard, was awarded a progression within the professorial grade.

David Schiel, was awarded a progression within the professorial grade.

Student successes

Emma Swadel, MSc candidate, was awarded a scholarship from the New Zealand Federation of Graduate Women. Emma is doing her Masters research with Ashley Garrill. Her topic is 'An investigation into the roles of calcium and F-actin in the process of hyphal branching in oomycetes and fungi'.

Helen Warburton, PhD candidate, was awarded a Freemason Scholarship. Helen accepted her award from Parliament last week.

Ryan Catchpole, PhD candidate, was runner-up for the prestigious Sidney James Prize for the best poster by a PhD student at the Genetics Society of Australasia meeting.

Rachel van Heugten, (PhD candidate), was placed first in the College of Science Thesis-in-3 heats **AND** won the Thesis-in-3 UC Final.

Tejraj Janmale, (PhD candidate), along with Neha Chandrasekaran and Swami Detchanamurthy (CAPE) won the 2012 Powerhouse Venture Incubator Award worth NZD 20,000 at the Entre \$75k Challenge.

Annual Biology Conference

Powerhouse Prize for Innovation: **Simon Hogg**

Best Poster: **Ryan Catchpole**

Research Committee Prizes

Best paper by an MSc student: **James McCarthy**

Best paper by a PhD student: **Sara Kross**

Best overall publication output: **Claudio de Sassi**

Oral presentations:

BSc (Hons)

1st: **Tessa Lambert**

2nd: **Simon Hogg**

3rd: **Jennifer Crowther**

MSc

1st: **Richard White**

2nd: **Olivia Burge**

3rd: **Aaron Stevens**

PhD

1st: **Rathishri Chandurvelan**

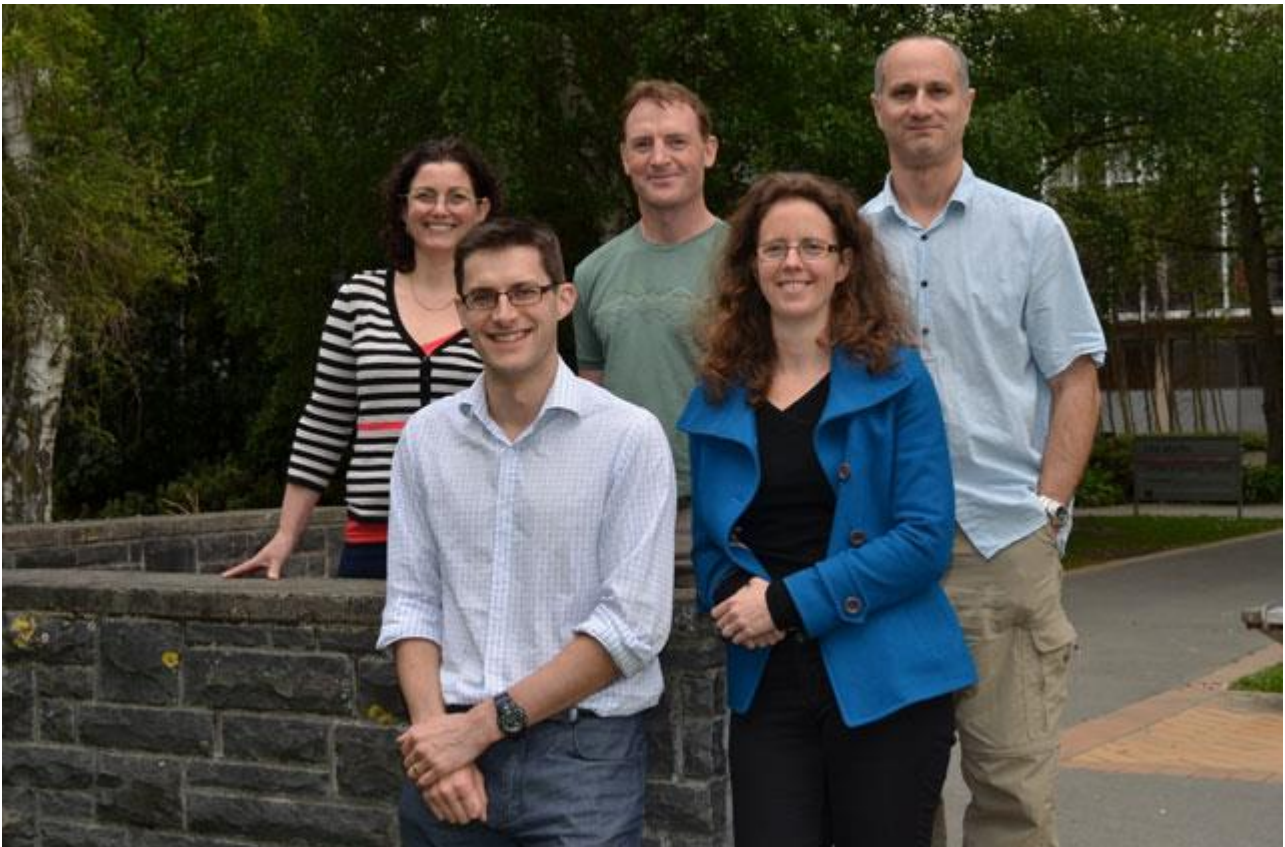
2nd: **Mark Galatowitsch**

3rd: **Sarah Wilson-Coutts**

Overall Best Oral Presentation: **Jessica Hill**

Olivia Burge, (MSc candidate), won the prize for the best student talk on a plant subject for her talk at the New Zealand Ecological Society annual conference. **Merodie Beavon**, (MSc 2007) won the "best publication by a new researcher" prize for her 2012 paper.

New additions to the School



The IRL Protein Science and Engineering Team: From left to right, Susie Meade (Industry Engagement), Andrew Muscroft-Taylor (Team Leader), Dion Thompson, Antonia Miller, James Strong (Research Scientists). Absent, Michael Steward (to arrive in 2013).

Visitors to the School

The Nigerian High Commissioner visit to the School

Pictured: Florence Akinyemi (First Secretary), Paula Jameson (Head, Biological Sciences), Mrs Olukanni (High Commissioner's wife), Ayo Olukanni (High Commissioner), Hazel Chapman (Director, Nigerian Montane Forest Project), Danladi Umar (PhD candidate, Biological Sciences) and Taiwo Axisz (PhD candidate, Philosophy)



Erskine Fellow, Professor Robert (Bob) Warner arrived on 25th July. He was hosted by the Marine Ecology Research Group. He is currently Professor of Marine Biology in the Department of Ecology, Evolution, and Marine Biology at the University of California, Santa Barbara.

Hatches, Matches and Dispatches

We go ga-ga...

Meenu and Tony Joseph (PhD candidate) welcomed a new son, **Thomas**, born on Saturday, 4th February at 11.20am. Jayden gave a warm welcome to his little brother!



Anna Maria arrived to give big brother Alex a new playmate! Angela and Thomas Evans are the happy parents.



Elsie Rose arrived on Thursday 31 May, 11.15 pm, 8 lb 2 oz (3719 grams approx). **Esme Robinson** (Postdoctoral Fellow) and her husband Richard are the proud parents and Gavin is the new granddad!



Adam Frederick Pearce was born on Monday 5th November weighing in at 3.47 kg (7lb 10 oz).
Congratulations to Grant and Magda on your beautiful wee boy.



We celebrate...

You don't marry the person you can live with...You Marry the person You cant live without!

For the special someone's that got married this year, you know who you are!!

We remember...

Emeritus Professor Basil C. Arnold (died 3 February 2012)

Lecturing academic and Head of Botany Department.

Dr Vida Mary Stout (20 February 1930-21 July 2012)

Friends and colleagues past and present attended Vida's funeral service. A tribute was delivered by Emeritus Professor Mike Winterbourn which highlighted her long and dedicated service to the Zoology Department and the University of Canterbury. Vida will be remembered as a dedicated field researcher (freshwater ecology), student supervisor, and administrator (Dean of Science) who retired in 1996.

Dr Gregor Yeates (born 1944 - 6 August 2012)

Gregor attended UC and gained his bachelors degree with first class honors in 1966. During the second year of his studies at Canterbury, he attended lectures by a Nematologist, Dr. W.C. Clarke. Those lectures focused Dr. Yeates' interests on nematodes. Dr. Yeates completed his Ph.D. in 1968, under the direction of Dr. Clarke, on the ecology of nematodes in coastal sand dunes. He was awarded a D.Sc. degree by the University of Canterbury in 1986.

December graduation - 12 December 2012 (12-12-12)

Doctor of Philosophy





At Right - (Photo: S. Kross)



(Photo: J. Tylanakis)



(Photo: L. Young)

IN PERSON

Lorna Deppe in Ecology

Spatial and temporal patterns of at-sea distribution and habitat use of New Zealand Albatrosses

Tony Joseph in Plant Biology

The response of photosynthesis and respiration to temperature and soil water content

Hanadi Katouah in Biochemistry

Inhibition of macrophage metabolism by oxLDL

Sara Kross in Zoology

The efficacy of reintroducing the New Zealand falcon into the vineyards of Marlborough for pest control and falcon conservation

Sarah Pilkington in Biotechnology

The regulation of chlorophyll levels in maturing kiwifruit

Ceci Romo in Ecology

Climate-induced changes to multi-trophic interactions in an agroecosystem

Laura Young in Ecology

Seed dispersal mutualisms and plant regeneration in New Zealand alpine ecosystems

IN ABSENTIA**Claudio de Sassi in Ecology**

Biotic interactions in a changing world: The role of feeding interactions in the response of multitrophic communities to raising temperature and nitrogen deposition

Sol Heber in Ecology

Translocations and the 'genetic rescue' of bottleneck populations

Jared Raynes in Biochemistry

Immobilising biomolecules on amyloid fibrils for biotechnology applications

COUNCIL CEREMONY**Laura Domigan in Biochemistry**

New nanomaterials: Amyloid fibrils from waste proteins

J Ari Kornfeld in Plant Biotechnology

The role of alternative oxidase (AOX) in plant stress: Do plants increase the activity of AOX in response to nutrient stress under field conditions?

Master of Science

Laura Burgess	Biochemistry	Merit
Jacqui Lee	Cellular & Molecular Biology	First Class Honours
Jason Suwandy	Zoology	Pass

COUNCIL CEREMONY

David O'Keefe, Biotechnology, Second Class Honours, Division One, 25 July 2012

Kate Schowe, Environmental Sciences, First Class Honours, 25 July 2012

Abby Grassham, Ecology, First Class Honours, 31 October 2012

Alpha Chen, Biochemistry, First Class Honours, 28 November 2012

Troy Watson, Ecology, Second Class Honours, Division Two, 28 November 2012

Bachelor of Science with Honours

Jennifer Crowther	Biochemistry	First Class Honours
Sarah Fitzpatrick	Biochemistry	First Class Honours
Simon Hogg	Biochemistry	First Class Honours
Charunya Nanayakkara	Biochemistry	Second Class Honours, Division One
Sarah Redlich	Ecology	First Class Honours

Bachelor of Science in Biological Sciences/Biochemistry

Sima Afzali	Ryan Q. Burns	Hayley J. Burtenshaw
Jonathan N. Carter	Michael J. Creed	Cameron P. de Leijer
Tanya M. de Vries	Carol G. Dodds	Pratistha Dhakal
Ashleigh J. Donald	Joshua J. Fairless	Maya L. Geels
Christie L. Golder	Rachel O. Hall	Stephanie R. Hayton
Natalie F. Hill	Misato Homma	Kanako Hori
Kelly M. Hutchinson	Angus G.J. Johnston	Lauren N. Jones
Sara M. Julian	Hyeon H. Kim	Christabel P.M.J. Kong
Louise L.C. La	Michelle T. Lambert	Oliver M. Laufkotter
Michelle S.K. Lee	Suk K. Liew	Roxanne Lloyd
Kim L. McNulty	Amber L. Melrose	Grace A. O'Carroll
Brooke C. O'Connor	James P. O'Meeghan	Mikaela S. Orme
Eri Otani	Joseph D. Potter Butler	Aaron W. Ramsay
Cara M. Reynolds	Jessica A.N. Royal	Isaac D. Smart
James R. Smith	Marius R. Stemmet	Samantha M. Thomas
Robyn L. Walkden	Shuran Wang	Christie J. Webber
Kristie E. Webber	Megan E. Webber	Nicole E. Webber
Sarah A. Wilson	Alexander T. Woodham	Benjamin P. Woolley
Shiwen Zhang		

and now for something completely different...

<http://www.youtube.com/watch?feature=endscreen&v=gSedE5sU3uc&NR=1>

(very different...)

Biological Sciences Christmas



Taken from the sixth floor

(Photo: B. Davison)



Taken from the second floor

(Photo: D. Kelly)

Another take on Nemo...



Thought for the Year

“Don't wait until everything is just right. It will never be perfect. There will always be challenges, obstacles and less than perfect conditions. So what. Get started now. With each step you take, you will grow stronger and stronger, more and more skilled, more and more self-confident and more and more successful.”

- Mark Victor Hansen

Contact details

The Editor would like to personally thank the many staff/students who have contributed to the newsletter over the past 12 months. Special mention needs to go to Paul B., Jason T. and Paul G.

If you have items of news or interest that you would like included in this newsletter, contact the admin office before noon on Friday at bioladmin@canterbury.ac.nz or phone ext 6732.