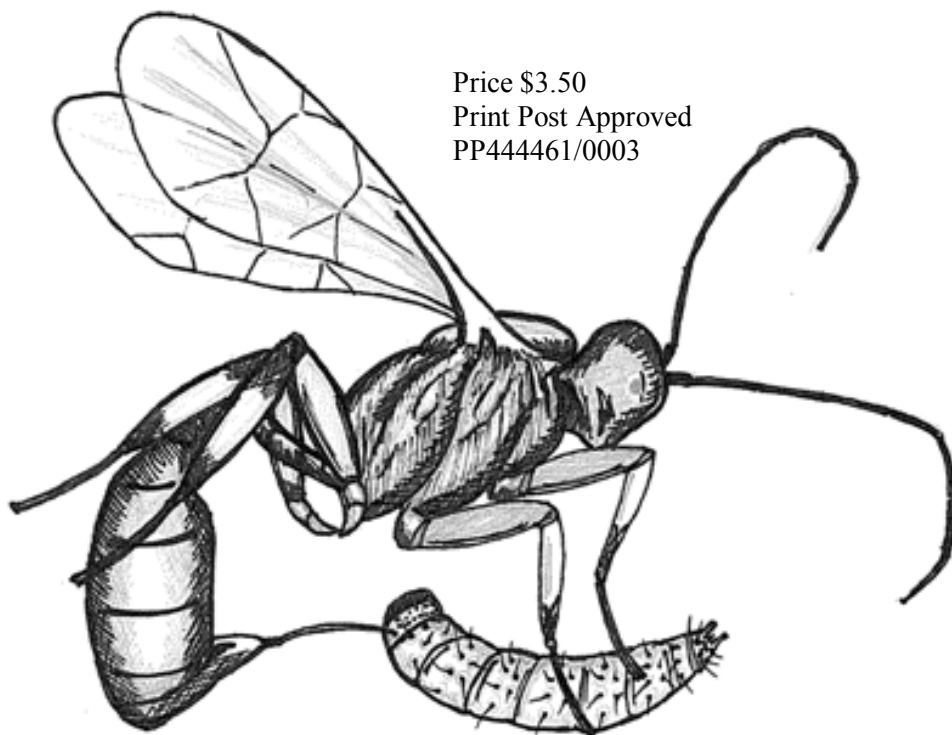


ENTOMOLOGICAL SOCIETY OF QUEENSLAND INC NEWS BULLETIN

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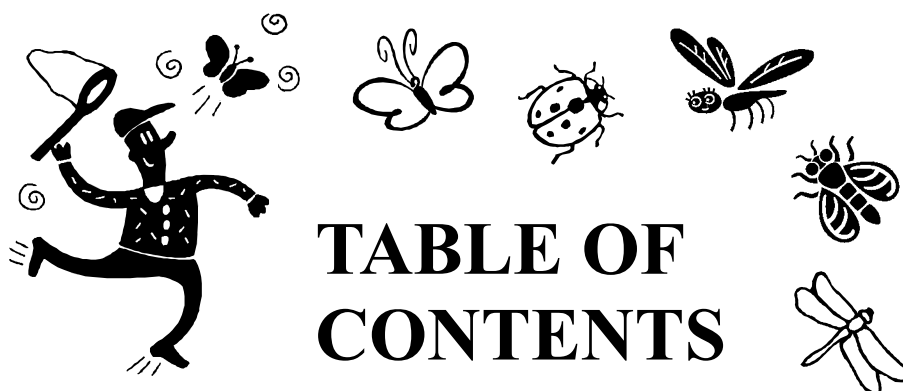
The **ENTOMOLOGICAL SOCIETY OF QUEENSLAND INC.**, since its inception in 1923, has striven to promote the development of pure and applied entomological research in Australia, particularly in Queensland. Membership is open to anyone interested in Entomology. The Society promotes liaison among entomologists through regular meetings and the distribution of a *News Bulletin* to members. Meetings are announced in the *News Bulletin*, and are normally held on the second Monday of each month (March to June, August to December), or on Tuesday if Monday is a public holiday. Visitors and members are welcome. Membership information can be obtained from the Honorary Secretary, or other office bearers of the Society.

Contributions to the *News Bulletin* such as items of news, trip reports, announcements, etc are welcome and should be sent to the *News Bulletin Editor*.

The Society publishes **THE AUSTRALIAN ENTOMOLOGIST**. This is a refereed, illustrated journal devoted to Entomology in the Australian region, including New Zealand, Papua New Guinea and the islands of the South Western Pacific. The journal is published in four parts annually.

EMBLEM: The Society's emblem, chosen in 1973 on the 50th anniversary of the Society, is the king stag beetle, *Phalacrognathus muelleri* (Macleay), family Lucanidae. Its magnificent purple and green colouration makes it one of the most attractive of all Australia Coleoptera. It is restricted to the rainforests of northern Queensland.

COVER: *Diadegma semiclausum* ovipositing into a larva of the diamondback moth, *Plutella xylostella*. Drawn by Sandra Dennien.



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The issue of this document does **NOT** constitute a formal publication for the purposes of the "International Code of Zoological Nomenclature 4th edition, 1999". Authors alone are responsible for the views expressed.

The Entomological Society of Queensland **Minutes of General Meeting 13 October, 2008**

Meeting held in the Large Conference Room, CSIRO Entomology, Long Pocket Laboratories, 120 Meiers Road, Indooroopilly, on 13 October 2008, 12:00 midday.

Attendance:

Mike Furlong, Richard Bull, Peter Allsopp, Judy Grimshaw, Sarah Corcoran, Don Sands, Stacey McLean, Tim Heard, Bradley Brown, Penelope Mills, Geoff Thompson, Matthew Purcell, Ross Kendall, Desley Tree, Stephen Frances, Gary Fitt, Susan Wright, Graham Forbes.

Visitors:

Lloyd Dosdall, Melanie Skoutarides, Clech-Goods Celine, Rieks Van Klinken, Juan A. Villanueva-Jimenez, Karen Bell, Miktat Donaglar .

Apologies:

Chris Lambkin, Noel Starick, Geoff Monteith, Anna Marcora, Lyn Cook, Gunter Maywald, Richard Zietek, John Moss, Lynita Howie, Andy Hulthen, Belinda Walters, Felix Bianchi, Nancy Schellhorn.

Minutes:

The minutes of the last General Meeting of September 8, were circulated in the News Bulletin Vol. 36, Issue 6, 2008.

Moved the minutes be approved: Judy Grimshaw

Seconded: Matt Purcell

Membership Nominations and Elections:

The following nomination for membership was received and approved by Council, and now put before the meeting for election:

Miss Natalie Quinn.

In accordance with Society rules, the nomination was put to the member's vote by a show of hands. All were in favour.

General Business:

New Member nomination forms now have a questionnaire page attached to gather information on how ESQ may better serve its members and their interests in entomology. The chairman asked members nominating associates for membership to encourage the nominee to complete this form and we would also welcome all suggestions on further actions we could implement to further improve our function as a Society.

There was no further general business.

Main Business:

Filling Biodiversity Information Gaps in Brisbane City: Bugs, Birds and Bracket Fungi

**Mr Stacey McLean, Senior Program Officer Biodiversity Planning
Natural Environment & Sustainability Branch, Brisbane City Council**

Brisbane's Biodiversity

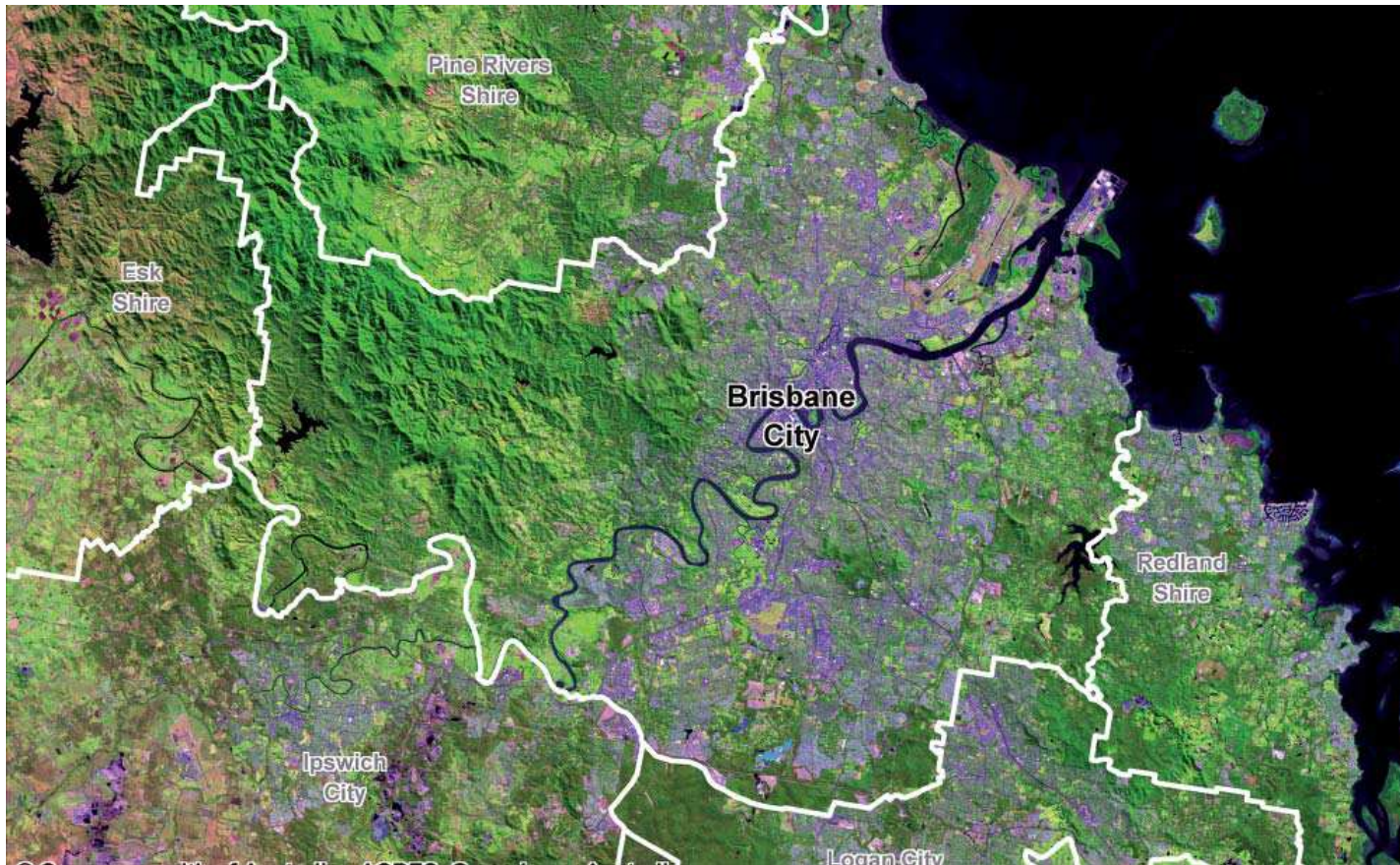
Brisbane City is the most biodiverse capital city in Australia, supporting a rich array of habitats, some 1500 flora, over 500 vertebrate fauna and innumerable invertebrate species.

This biological richness can be largely attributed to our positioning in the Macleay-McPherson Overlap – a climatic cross-roads. In addition, Brisbane City is located in a region of diverse topography, rainfall and temperatures.

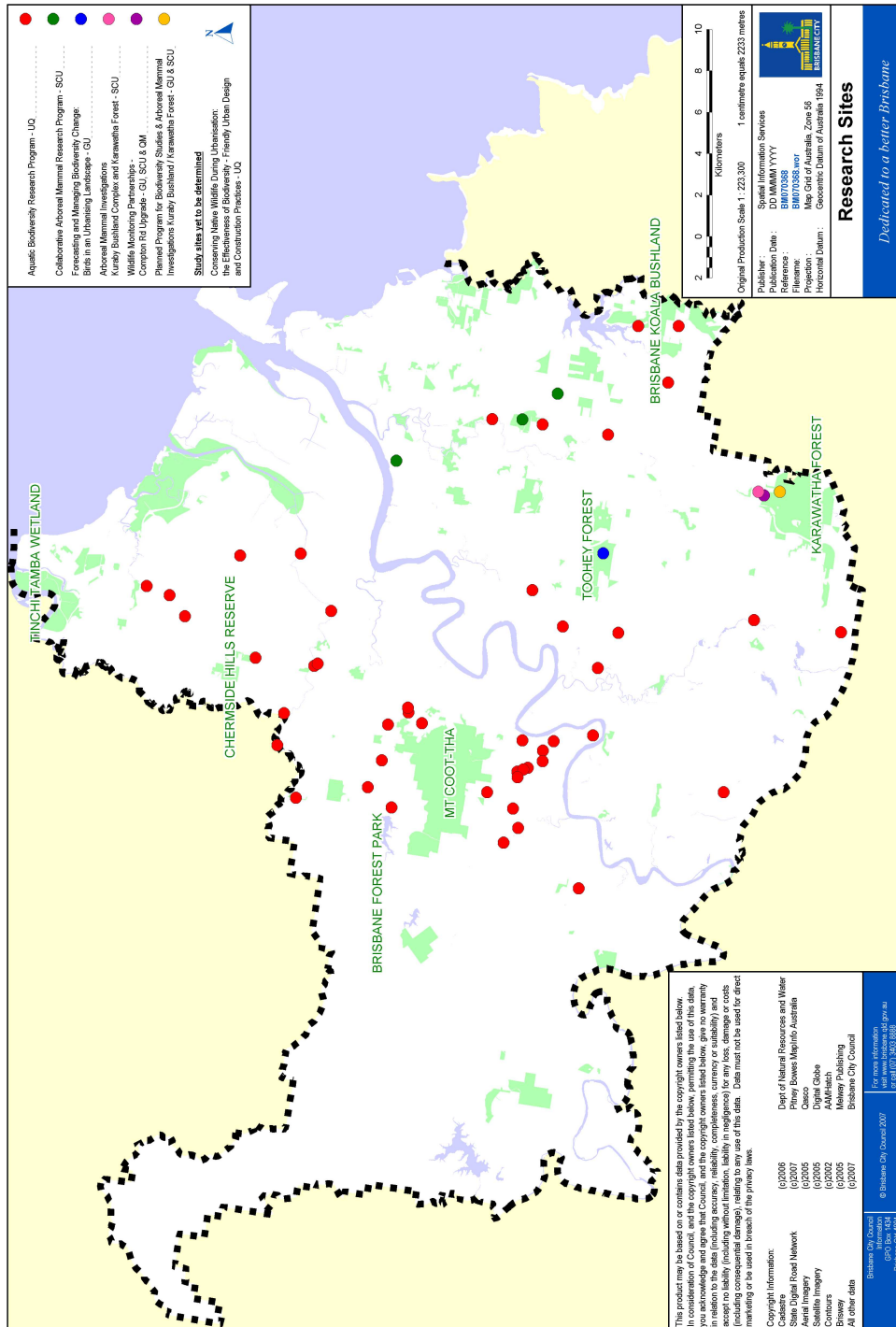
Brisbane is a city though with growing pains, being part of one of the fastest growing urban areas in Australia. With a growing human population comes changing landscapes and a range of interacting threats:

- Continuing vegetation loss
- Habitat fragmentation and isolation
- New invasive species
- Changed fire regimes
- Increasing recreational demands

On top of all this are new stressors with human-induced climate change being front and centre.



Brisbane City is located in a region of diverse topography, rainfall and temperatures



Filling Information Gaps

Brisbane City Council is committed to protecting and enhancing Brisbane's biodiversity values. In 2006 Council produced the *Living in Brisbane 2026* vision statement outlining aspirations for Brisbane's future. This vision includes the need to maintain a clean and 'green' city that continues to support a high level of biodiversity. To deliver on this outcome, it must be recognised that:

- Key knowledge gaps exist
- Decision-making processes are on-going
- Collaboration is essential to closing the gaps

The Biodiversity Research Partnerships Program (the Program) was commenced in 2000 specifically to address these issues. The Program's focus in delivering information and tools vital for informing planning and management decisions.

Projects resourced through the Program address three knowledge streams:

What biodiversity is present in Brisbane and how is it fairing?

Urban pressures on biodiversity

Clean and 'green' solutions

Current projects resourced through the Program include:

- Program for planned biodiversity studies (PPBio) - Griffith University
- Collaborative arboreal mammal research program - Southern Cross University
- Forecasting and managing biodiversity change: birds in an urbanising landscape - Griffith University
- Wildlife monitoring partnership - Compton Road upgrade - Griffith University

The Program's overall direction is guided overall by Brisbane City Council priorities. Within this, specific initiatives to support are guided by a set of important principles. Projects must:

- Facilitate informed planning and management decisions
- Be undertaken in a cost-effective manner
- Deliver practical, affordable solutions
- Develop or contribute to temporal data sets
- Adopt a shared knowledge approach
- Address emerging issues

Tracking Ecosystem Health: a role for invertebrates

Monitoring or tracking ecosystem health using a selection of indicators is not a new concept. It does, though, have a new imperative in the expected impacts upon our natural environment from human-induced climate change.

Brisbane City Council recognises that invertebrates play a fundamental role in ecosystems and that they have a potentially significant role in local and regional land use planning and management.

To this end, the Brisbane City Council has invested some resources in better understanding the practical functional role that invertebrate taxa may play in the organisation's natural environment planning and management obligations.

This investment commenced with the funding of the Terrestrial Invertebrate Status Review, undertaken by the Queensland Museum Centre for Biodiversity.

This year-long project, a first for any local authority in Australia, involved surveying a broad selection of habitats using variety of techniques. Potential indicator taxa were targeted, including ground spiders, land snails and ants.

An extraordinary diversity (1200 species) of species were identified, and unique patterns of distribution (especially for spiders and ants) were observed. New and Rare species were captured, range extensions observed and species re-discovered. Further details of this initiative are available on CD.

The next investment, the Invertebrate Research Initiative is further exploring the application of invertebrates in ecosystem health monitoring. This initiative is led by Dr Tracey Churchill and seeks to:

- Instigate research into the effects of fire on invertebrates in Brisbane City
- Design a survey unit that spatially integrates invertebrate sampling into the PPBio monitoring program
- Investigate the use of invertebrates in monitoring the habitat quality of a constructed land-bridge.

The outcomes of this initiative are currently being written up.

Climate Change and Brisbane's Biodiversity: a risk assessment

These investments in invertebrate ecosystem health indicators are informing a very important biodiversity vulnerability risk exercise being delivered by the Natural Environment and Sustainability Branch of Brisbane City Council.

A preliminary review of key vulnerabilities was undertaken in August 2007 by the biologist Tim Low. This report can be downloaded from the Brisbane City Council website:

http://www.brisbane.qld.gov.au/BCC:BASE:1621287850:pc=PC_2867

An appraisal of macrofungi vulnerabilities was also commissioned, being prepared by Dr Tony Young and Mr Nigel Fechner. This report was partly funded by the Commonwealth Department of Climate Change.

A more detailed assessment of climate change impacts upon the City's biodiversity assets is currently underway. This assessment will document key species, habitats, landscape features and other natural assets facing particular threat from climate change within Brisbane City. This work is currently subject to expert peer review. Importantly, reviewers include nationally and internationally recognised invertebrate ecologists and taxonomists.

Application of Invertebrates: some observations

Based on the above forays into the application of invertebrate taxa as ecosystem health indicators, several messages emerge that require proactive action:

- Application is hampered by relative extent and accessibility of current knowledge, and lack of recruitment into key fields of taxonomy and applied research
- Capacity of government agencies & other institutions to understand and apply invertebrate ecology knowledge currently very limited
- Current public and private investment ineffectual in reserving this situation
- Adaptation planning for climate change and other significant biodiversity-related decisions occurring now

Application of invertebrates: some actions to consider

The above impediments are daunting and are, I suggest, surmountable. Some specific actions worthy of further consideration in this regard are:

- Invertebrate ecology symposium - capture current published and unpublished knowledge and make available for contemporary decision-making processes
- Establish on-going field demonstration sites to refine approach and evaluate taxa further and develop guidelines for South East Queensland
- Facilitate publication of important unpublished data/findings
- Generate land manager practical guidance for fragmented natural area estate and private conservation partners

I welcome feedback.

Stacey McLean [Stacey.McLean@brisbane.qld.gov.au]



His address detailed structure and targets of the BCC environmental activities which attracted much following discussion on possible assistance external volunteer groups such as ESQ, Bug Catch, BushCare and Catchment Groups etc may be able to provide to increase the volume of information on invertebrate biodiversity in the Brisbane area. Don Sands suggested ESQ was in a position to provide significant scientific input through qualified member activities and Bug Catch events that cost the BCC nothing – as opposed to employing very expensive consultants.

Vote of thanks was given by Mike Furlong.

Chairman's closing statement:

The next meeting will be held at this venue on Monday 10 November at 12.00 noon with an address by Dr Felix Bianchi (CSIRO Entomology): 'The landscape context of the ecosystem service of pest control'.



Notice of Next Meeting

Entomological Society of Queensland

Monday 10th November 2008 12pm

CSIRO Long Pocket Laboratories
Large Conference Room
120 Meiers Rd, Indooroopilly

Dr Felix Bianchi

CSIRO Entomology

**“The landscape context of
the ecosystem service of
pest control”**



Dear Members,

Please note that the meeting held on Monday 8th December 2008, 12pm at CSIRO, will be Notes & Exhibits. This is your chance to come forward and present your news, reports of interesting sightings or perhaps display specimens you have collected... it's up to you! If you would like to make a presentation, however big or small, at the Notes & Exhibits meeting please get in contact with the President by the end of November (contact details can be found on the back page of the News Bulletin).

Thank you.



News from the USDA-ARS Australian Biological Control Laboratory

A biocontrol agent for Old World Climbing Fern (*Lygodium microphyllum*), *Neomusotima conspurcatalis*, was released in Florida earlier this year. Field collection and preliminary evaluations of this defoliating moth were conducted by ABCL staff before it was shipped to Florida quarantine facilities. It is native to Australia and Asia and is widely collected throughout this region. In Florida it has been released at several locations and has established at one site on the east coast causing massive damage over an extensive area. The results are very promising.

Bradley Brown and **Jeff Makinson** have begun preliminary host range testing of the gall-forming scale insect, *Sphaerococcus ferrugineus*, a potential biocontrol agent for the paperbark tree *Melaleuca quinquenervia* in Florida. **Ryan Zonneveld** has been surveying the aquatic plant *Hydrilla verticillata* in SE Queensland but it's been extremely difficult to find given the recent drought.

News Bulletin contributions from Entsoc Members

We would love to receive your news, field trip reports, sightings of strange and wonderful beasts, Entomological Notes, Bug of the Month, gossip, concerns, questions and suggestions pertaining to the world of entomology. Please send contributions to the News Bulletin editor or your nearest Entsoc office bearer.

Don't delay, next issue out soon!

Thank you, Anna

News from the Queensland Museum

Aki Nakamura continues to survey Capricornia Cays for QNPWS' Island Hitchhikers project that aims to manage pest invertebrate species found on islands of the Great Barrier Reef Marine Park.

Federica Turco has recently returned from field work in North Queensland with Geoff Monteith, collecting fresh Carabidae for DNA work. She has also been clearing Geoff's traps at Lamington.

Doug Cook has decided on a career change, applying his methodical skills to a degree in accountancy before taking up a position with the Australian Taxation Office. Doug has helped Geoff Monteith in the field since the early 1970s. His bush skills and good humour helped us survive many strenuous field trips. In more recent years Doug has been a stalwart of Geoff's dung beetle project. He also drove the development of methods that have transformed the quality of data in our databases and streamlined the processes involved in getting accurate data into the system. He will be much missed about the place.

We have had many visitors to the collection. Recently Miktat Donaglar visited from Turkey and spent a few weeks studying Girault Hymenopteran types. Ainsley Seago, originally from the US and now at CSIRO Canberra helped Federica clear some Lamington traps and worked on Leiodidae.

During National Science Week we ran three "Backyard Insects" workshops. A booklet was prepared for these workshops and Chris Burwell has just finished working on its publication as a QM pocket guide. Meanwhile, Christine Lambkin has been heavily involved in the "Backyard Explorer" project. She also answered questions in person and online from schools during National Science Week. She & Noel Starick have just returned from leave, having firstly completed a combination of field work and school visits in Western Queensland. The day she returned she went straight to Toowoomba to give another "Backyard Explorer" workshop for teachers, with the help of QM teacher, Allan Morrison.

See <http://www.qm.qld.gov.au/education/resources/wild/index.html> and http://www.southbank.qm.qld.gov.au/learning/nsw/digital_stories.asp for digital stories and learning resources produced for "Backyard Explorer" and National Science Week.

We have also been concentrating on database and collection issues. Much of the data migrated to QM's new overarching database using the Vernon Collection Management System required classification checking and editing.

A large part of our collection is currently being reorganised. Federica has been working on the spirit collection and the ant collection is being consolidated to include 5 years' of survey material. As part of Queensland Museum's review of collection infrastructure, storage quality and access, we will receive two new purpose-built cabinets to rehouse the historic F.P. & A.P. Dodd Collection of Tropical Insects and two additional 50 drawer cabinets for expansion of the Hemiptera and Hymenoptera. There are also plans to rehouse our entire slide collection to a purpose built compactus system.

In addition to this improved storage for the Dodd Collection, \$27 000 has been allocated from the QM Foundation to enable this historic collection to once again be displayed at QM venues.

Robert Raven has had two visits to Western Australia looking at Short-range endemic mygalomorphs (most notably the Barychelidae) which can stop an iron ore mine from going ahead. One visit was to the Pilbara, hopping around in a helicopter, with a taste of the WA Museum. The second visit was exclusively to the rapidly building collection of the WA Museum to help with sorting their barychelids. Between visits, Robert made a very successful sortie hunting for mygalomorphs from Great Basalt Wall to Moreton Telegraph Station on Cape York. At one stage, we had a great synergy with TO's from Coen area as they participated in a gecko hunt in the McIlwraith Ranges.

Robert Raven and Owen Seeman have also completed a pocket guide "Spiders of the Greater Brisbane Region", featuring about 75 common species of spider. The publication should be out in the next month and will cost about \$10.



News from the School of Integrative Biology, UQ

Gunter Maywald has taken some time out of his study of Paropsine beetles and has been in Madrid, Spain, for two weeks teaching a course on CLIMEX to a keen group of Europeans. In the meantime, he has had several colleagues searching south west Western Australia in vain for some of his elusive beasts. The drought (or the cold start to spring/summer) over there seems to have resulted in low numbers of paropsines.

Changes are under way in the O'Neill lab, with several members moving on. Jeremy Brownlie has taken a position at Griffith University (Qld), Markus Riegler has a position at the University of Western Sydney and Ryuichi Yamada will be leaving soon. Grant Hughes is currently visiting the lab and undertaking experiments on mosquito reproductive biology.

Lyn Cook has been on holidays (= field trip?) in SW WA and bagged an interesting collection of mainly undescribed gall-inducing scale insects. A visit to the Perth Herbarium revealed an additional selection of non-galling scales on some of the herbarium sheets of endemic Myrtaceae from the region.

Meron Zalucki and Jimmy Botella have been awarded an ARC Discovery Project for their proposal "Putting smells into context: Using in vivo technologies to understand plant-insect odour signalling". Meron has also accepted the position of president of the Australian Entomology Society.

Rebecca Morley has started an Honours project with Dave Merritt looking at the response of glow worms to light exposure, and Mark Mayhew has begun a PhD project on gland development in *Drosophila*.

Bronwen Cribb and the team at the Centre for Microscopy and Microanalysis have been presented with a UQ teaching award for Enhancement of Student Learning. The microscopy unit provides excellent facilities and assistance for student projects, and has been especially valuable for entomological studies. Hilal Al Shamakhi (Dubai; MSc student in SIB) has recently been doing a project on termite feeding using equipment at the centre.

freetalks

QUEENSLAND CONNECTIONS 2008

<http://www.southbank.qm.qld.gov.au/calendar/2008/connections/index.asp>

Make a note in your diary for the lively and interesting 2008 Queensland Connections Series. This year there will be 20 fascinating talks covering aspects of cultural heritage and our natural environment. All talks are held in the Theatre, Level 2, Queensland Museum South Bank.

FREE ENTRY

Wednesday 5 November at 1pm



Grotesque spiders:
the Australian Goblin Spider family

Speaker: Dr Barbara Baehr,
Queensland Museum
Mega-diverse and micro-distributed, an
unknown spider family in discovery.

RICHMOND BIRDWING RECOVERY NETWORK NOTICE OF GENERAL MEETING

The Next General Meeting of the *Richmond Birdwing Recovery Network Inc.*
will be held from 11.00 am - 2.00 pm on:

**FRIDAY 5th DECEMBER 2008 AT CSIRO
LONG POCKET, 120 MEIERS ROAD, INDOOROOPILLY**

The main business will be an address (from 1-2 pm) by

Dr Alan Yen

(Department of Primary Industries, Victoria)

**INVERTEBRATE CONSERVATION -
WORDS OF WISDOM FROM SOUTH OF THE BORDER**

VISITORS ARE WELCOME

RSVP (by 28 November for catering):

Dawn Muir (ph. 3870 8076) or

email dawnmuir@optusnet.com.au

ESQ Collecting Permits

New Permits

We now have our renewed permits for a number of National Parks, State Forests and Forest Reserves. Those of you who have sent in application forms should have received the permit valid until 31 Oct 2008 and valid 1 Nov 2008 - 31 Oct 2011. I will only be sending out new permits to those who send in application forms as this helps me identify the members who are no longer active in this area and thus reduces my workload.

Therefore the permits we now hold are:

- WITK03173805 – National Parks - valid until 31 Oct 2008
- TWB/20/2008 – State Forests and Forest Reserves - valid until 31 Oct 2008

- WITK05498008 – National Parks - valid 1 Nov 2008-31 Oct 2011
- TWB/26/2008 – State Forests - valid 1 Nov 2008-31 Oct 2011
- TWB/27/2008 – State Forests and Forest Reserves - valid 1 Nov 2008-31 Oct 2011

Please note there are some changes with the permits, the most obvious being they no longer cover us for all protected areas in Qld but only for the ones listed on the permits. I can apply to add parks to the list but you need to give me at least three weeks for the paperwork to go through. There are certain areas I would prefer people to look at negotiating themselves. These include KULLA (McIlwraith Range) National Park (CYPAL) (Cape York Peninsula Aboriginal land) which is jointly managed by the Kulla Land Trust and the Queensland Government, thus if members wish to collect in this area it is best if they negotiate their permit themselves. These management arrangements are new and there are restrictions in place which require the person travelling there to be in direct contact with the rangers.

Returns and our data

A call for reports for the year 2007-2008 has gone out and most reports have been received. There are still a few outstanding plus a few unfinancial members and I ask that members please make sure they have paid for 2008 as the new permits will only be given to financial members.

With regards to our returns I have spoken to the people at Wildnet and will be organising a meeting to see about loading as much of our data into Wildnet as possible. Currently the butterfly, scorpion and some spider data have been entered and they are looking at loading the taxonomy for more invertebrate groups in upcoming projects. They are also looking to the Back on Track project (which Don Sands is participating in) to recommend other target taxa. They have assured me that all of our data is stored until such time as it can be uploaded into Wildnet. They have asked however that more accurate data is given to them especially Datum AND the Precision of the location (See below for more details or contact me if you are still unsure).

Datum (max 5 characters)

Record the horizontal datum used when recording the location co-ordinates. If the location was determined using a GPS check the units setup menu to determine the datum. If the location was determined using a map, check the map legend for the horizontal datum. The available datum codes are:

- AGD66 Australian Geodetic Datum 1966
- AGD84 Australian Geodetic Datum 1984
- GDA94 Geocentric Datum of Australia 1994
- WGS84 World Geodetic System 1984

Precision (max 5 characters)

Record the accuracy of the location co-ordinates provided in metres. This represents the radius of a circle which would enclose the collection area. Please note that if you collect observations from a large area (throughout a property for example) then you need to give location co-ordinates representing the centre of that area, and a precision large enough to encompass the whole area. (Refer Figure 1.)

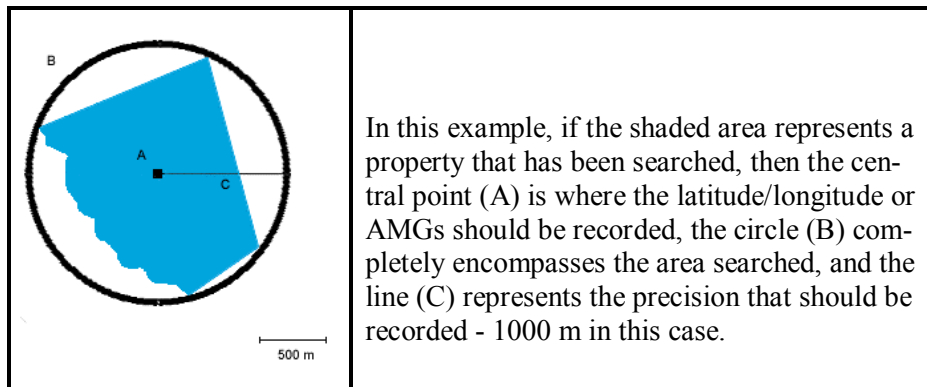


Figure 1.

Precision does not refer to the accuracy reading you get on your GPS when you make a landmark; it refers to how close the landmark or lat/long is to the area you have just collected. For example if you are collecting at Mt Moffatt NP and only list one lat/long for the entire park the precision for that collection area will be very different to if you had collected on top of Mt Moffatt itself i.e. Mt Moffatt (summit) where you may have only collected in a 100m radius around the peak rather than through the whole park.

In addition if members wish for some assistance in the datum/grid reference calculations then a good little publication is the [Map Reading Guide: How to Use Topographic Maps](#) brought out by Geoscience Australia who also produce topographic maps. The link below will take you to their website where you can download a free pdf of the guide, order it online or locate retailers. The associated roamer is also a good tool and makes reading grid references much easier.

<http://www.ga.gov.au/nmd/products/maps/publications.htm>

Remember the guidelines for your returns are available on the following website or through me.

http://www.epa.qld.gov.au/publications/p01808aa.pdf/Wildlife_data_return.pdf

Enough from me for now. More next month. Happy Collecting!

Susan Wright

**To: Users of the Entomological Society of Queensland
QPWS collecting permits**

From: President, Entomological Society of Queensland

Re: Use and conditions of collecting permits

Please note that you are required to follow the conditions as stated on the permit. The permit and membership to the ESQ may be revoked if conditions are not followed. In particular note that:

- you are required to submit a return of operations within 30 days after the end of each 12 month period that the permits are in force;
- specimens may not be given, sold or traded (but a member who is endorsed on the permit may collect specimens on behalf of another member provided that they are also endorsed);
- wildlife habitat must not be damaged, environmental impact must be kept to a minimum;
- this permit does not give you the right to enter any land, you must get prior permission from the agency responsible for administration of the land;
- where possible, collecting activities should be effected away from public view;
- a copy of any resulting reports/activities derived from this research should be provided to the EPA office at which the permit was issued;
- you must carry a copy of the permit that is endorsed by the permit holder (S.Wright) and it must contain your name and residential address;
- you must carry a form of identification that displays a coloured photograph such as a Queensland drivers license.

Complete and return the attached application form to:

Susan Wright
Entomology
Queensland Museum
PO Box 3300
South Brisbane Qld 4101
Ph 07 3840 7704
Fax 07 3846 1226
Email: Susan.Wright@qm.qld.gov.au

Signed applications sent by fax are preferred.

**Application Form for use of The Entomological
Society of Queensland Collecting Permits**

Name: _____

Residential Address:

Postal Address (if different from above):

Phone number: _____

Fax number: _____

Email address: _____

Project outline:

Parks you wish to visit:

Which permit will you be requiring? (please tick)

National Parks: _____

State Forests: _____

Declaration:

I agree that in using the permit I will read all conditions and procedures relating to these permits and will abide by them.

Signed : _____

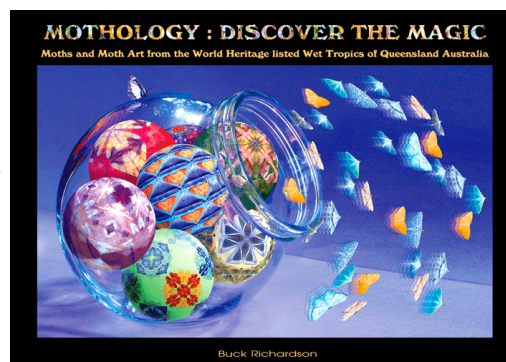
Book Review

Mothology:

Discover the Magic.

**Moths and Moth Art from the World
Heritage Listed Wet Tropics of
Queensland Australia.**

**Buck Richardson 2008. Published by
LeapFrogOz, Kuranda Kreations,
Kuranda ISBN 978-0-9805009-1-2
(www.leapfrogoz.com.au)**



Magic indeed! In this book Buck Richardson has managed to juxtapose his love of art and interest in moths. As entomologists, we are all aware of the beauty of the patterns and amazing colours of Lepidoptera. However it is fantastic to see a member of the general public developing not only an awareness of the biodiversity of moths, but also an understanding of the importance of taxonomic principles. By collaborating with a diverse group of amateur, professional, and retired entomologists, Bucks' amazing photographs of the 250 odd species of moth found in his local area have been amalgamated into a beautiful and useful reference to the moths of the rainforests of north Queensland, if not Australia. Buck does not claim to be an entomologist, but his written information is clear, well organised, informative, and very readable.

As for the digital images Buck has produced from his photographs of moths and presented in this book, and in the associated limited edition prints, Giclee prints on canvas, posters, scarves, 3D stars, mobiles, wall plates..... Truly amazing! These beautiful works demonstrate Buck's love of colour and pattern, mastery of digital design, quirky sense of fun, and passion for attention to detail.

This book is not just a coffee table addition for those requiring the latest collectable book. This is a book that you'll want to look at again and again. As Buck says, 'There is nothing subtle about the patterns on the wings of some moths. Simple or complex, bold or tonal in colour, always perfectly symmetrical, the variety astounding, these are truly beautiful creatures.' The same applies to the designs that Buck has created.

Mothology: Discover the Magic is available from many shops in the Cairns region and from Kuranda Kreations at www.leapfrogoz.com.au for the very reasonable price of \$29.95 + postage. The associated limited edition prints, Giclee prints on canvas, posters, scarves (also available at the Queensland Museum South Bank's Explorer Shop), mobiles, wall plates (around \$55), and 3D stars (around \$250) may also be obtained from Kuranda Kreations. Chris knows where she will be shopping for Christmas!

Chris Lambkin & Geoff Thompson

New Book Release:
Tenebrionid Beetles of Australia
Descriptions of Tribes • Keys to Genera • Catalogue of Species

In this beautifully illustrated volume on Australian tenebrionid beetles, higher-level groups are reviewed, keys provided to enable identification to genus and subgenus level, and notes provided on relationships, distribution and biology. A catalogue of all Australian taxa down to subspecies level is presented, including synonymy relevant to the Australian fauna, type localities, and location of types. Eight subfamilies, 43 tribes, 216 valid genera and subgenera, and 1595 valid species are listed.

The senior author, Dr Eric Matthews, in retirement an Honorary Fellow at the South Australian Museum, is well known among entomologists and ecologists for his studies on beetles, particularly tenebrionids, and his very useful set of keys to beetle groups of South Australia. Dr Patrice Bouchard, research scientist at Agriculture and Agri-food Canada, in Ottawa, studied the evolution and relationships of Australian rainforest Tenebrionidae during his Ph.D. He is also interested in the nomenclature and biogeography of darkling beetles. Together, Matthews and Bouchard bring us a thorough summary of knowledge of Australian Tenebrionidae.

About this book

Publishers:

Australian Biological Resources Study

Year: 2008

Authors:

E.G. Matthews

P. Bouchard

ISBN: 978 0 642 56857 1

Size: 250 × 176 mm (B5)

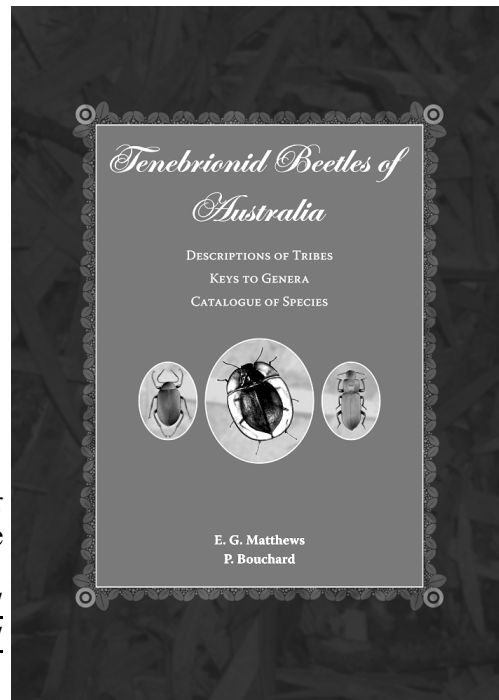
Number of pages: viii + 398 pages, index, glossary, bibliography

Binding: hardcover, section stitched

Illustrations: 109 colour plates, full colour throughout

Price: Includes surface postage for overseas orders, or GST and postage within Australia. **AUS\$120.00**

<http://www.environment.gov.au/biodiversity/abrs/publications/other/tenebrionids.html>



Insect website to inspire students

Published: 08 October 2008

Courtesy UQ News

<http://www.uq.edu.au/news/index.html?article=16153>

They're creepy, crawly, and often downright scary.

But beetles, bugs, and all insects in between fascinate UQ entomology lecturer Dr David Merritt, who has helped create a new website to better inform the public about the creatures.

Launched last week, www.entomology.edu.au is a key part of the National Curriculum in Entomology Project, which is funded by the Australian Teaching and Learning Council and aims to boost student interest in the discipline.

The website includes guides on how to identify different species, insect-related news and fun resources for primary students, in addition to listing entomology courses available around the country.

"Most people don't realise that insects have an enormous impact on the environment, human health, and world economies," Dr Merritt said.

"Insects are of direct importance to humans as pests, carriers of disease, pollinators, nutrient cyclers, sources of new bioactive compounds, and indicators of environmental change."

President of the Australian Entomological Society Professor Jonathan Majer said a new generation of scientists were urgently needed to correctly identify and control insect populations.

"Without well-trained entomologists, we could potentially lose a third of our crop production," Professor Majer said.

"We would be ill-prepared to combat new diseases and pests which enter the country, and we will soon have insufficient taxonomists to identify and name the massive variety of insects that exist in Australia."

The project was made possible by a partnership between The University of Queensland, The University of Adelaide, The University of Western Australia and Charles Sturt University.

For further information, visit www.entomology.edu.au

Nominations for 2009 office bearers of the Entomological Society of Queensland

Members are invited to use the following form to nominate office bearers for the Entomological Society of Queensland Inc. for 2009.

Nominations should be sent via email, fax or post and be referred to the:

Secretary, Entomological Society of Queensland

PO Box 537, Indooroopilly QLD 4068

Please return forms by the end of January 2009.

A list of nominations received will be circulated in Issue 10 of the News Bulletin, and an election held at the Annual General Meeting in March 2009. In the absence of a nomination for any particular office, the president may receive nominations at the Annual General Meeting.

Positions to be filled are as follows:

- Senior Vice President
- Honorary Secretary
- Honorary Treasurer
- News Bulletin Editor
- Councillors (3 positions)

The Entomological Society of Queensland functions effectively because members play an active part in the Society. All members are encouraged to nominate for positions on the Council of the Society. If you want to know more about any of the Council positions, please contact one of the existing Council members listed on the back cover of the News Bulletin.

Office Bearer Nomination Form 2009

I nominate (name)

.....

For the position of

- Senior Vice President
- Honorary Secretary
- Honorary Treasurer
- News Bulletin Editor
- Councillor

on the Council of the Entomological Society of Queensland Inc.

Nominated by

.....

Seconded by

.....

I accept the nomination

.....

(nominee signature)

Entomological Society of Queensland 2009

\$250 Student Award

This is an award by the Society to encourage entomological research. Entries are judged by a panel of 3 entomologists appointed by the President of the Society. The winner will be announced at the May General Meeting and is then invited to present a summary of their research at the June Notes and Exhibits meeting of the Society.

Honours, Diploma and 4th year Degree students at any Queensland tertiary education may submit their thesis or report on an entomologically related topic examined during 2008 or 2009 for the judging of this award.

Entries need not be Society members.

These reports should be directed to the Society's Secretary at the address listed on the back of the cover of the News Bulletin. Closing date for submissions is 30th April 2009.



Entomological Society of Queensland
2009 Student Award Entry Form

Name

Title of thesis or report

Degree

Supervisor

Date of Examiners report or grading

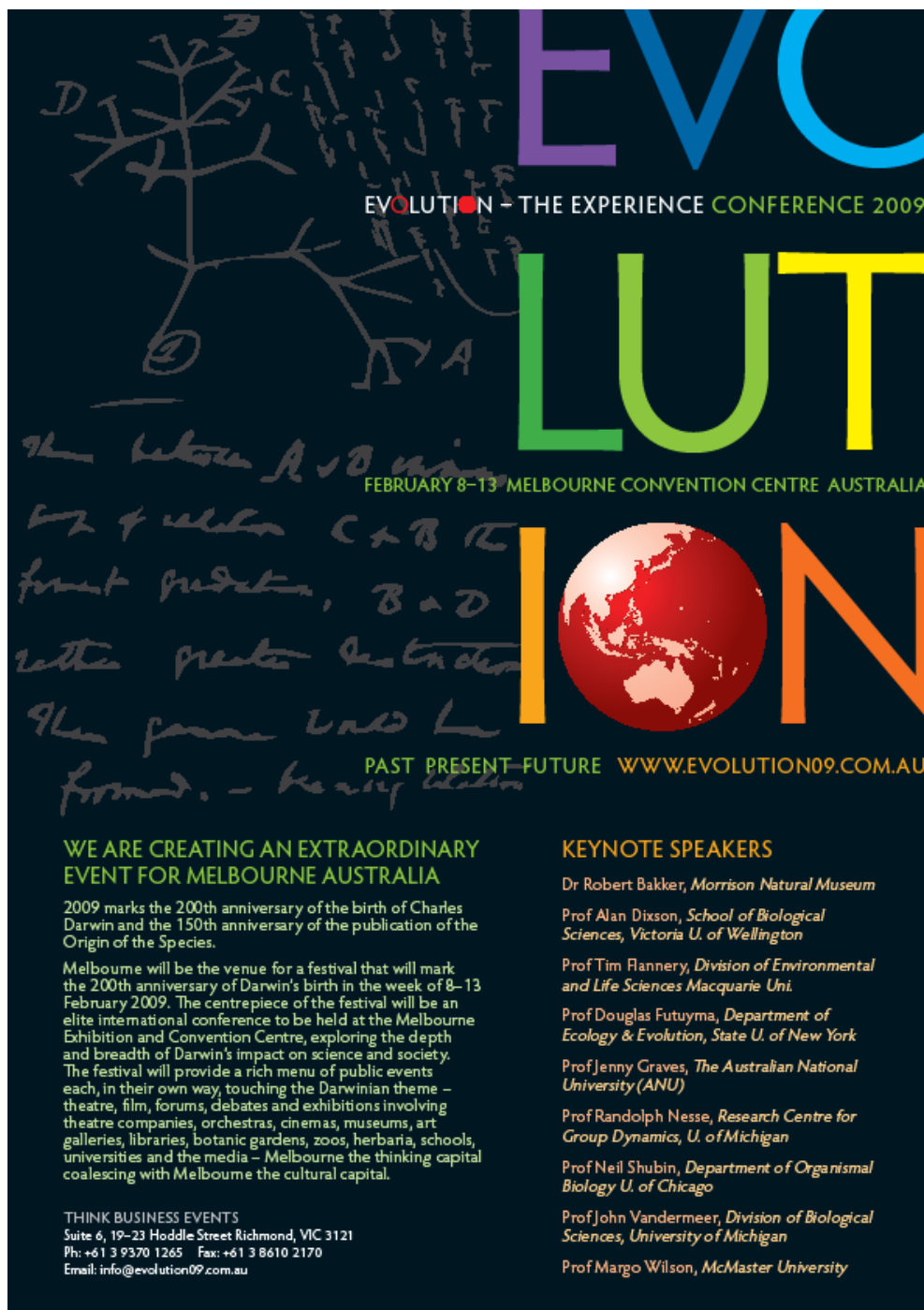
Return address for thesis/report

Signature_____ Date:_____

Send in thesis/report and entry form to:

The Secretary, Entomological Society of Queensland

PO Box 537, Indooroopilly QLD 4068



The poster features a dark blue background. On the left, there is a faint, light-colored illustration of a branching tree diagram, similar to Darwin's 'Tree of Life', with handwritten labels 'A', 'B', 'C', 'D' and circled numbers '1' and '2'. Below the tree, there is a block of handwritten text in a cursive script. To the right of the tree, the word 'EVOLUTION' is written in large, bold, multi-colored letters (purple, blue, green, yellow, orange). The word 'EVOLUTION' is split into 'EVO' and 'LUTION'. The 'O' in 'LUTION' is replaced by a red globe showing the Americas. Below the word 'EVOLUTION', the text 'EVOLUTION - THE EXPERIENCE CONFERENCE 2009' is written in white. Below that, 'FEBRUARY 8-13 MELBOURNE CONVENTION CENTRE AUSTRALIA' is written in white. At the bottom left, there is a section titled 'WE ARE CREATING AN EXTRAORDINARY EVENT FOR MELBOURNE AUSTRALIA' followed by a paragraph of text. At the bottom right, there is a section titled 'KEYNOTE SPEAKERS' followed by a list of speakers and their affiliations. At the very bottom left, there is a section titled 'THINK BUSINESS EVENTS' followed by contact information.

EVOLUTION

EVOLUTION - THE EXPERIENCE CONFERENCE 2009

FEBRUARY 8-13 MELBOURNE CONVENTION CENTRE AUSTRALIA

PAST PRESENT-FUTURE WWW.EVOLUTION09.COM.AU

WE ARE CREATING AN EXTRAORDINARY EVENT FOR MELBOURNE AUSTRALIA

2009 marks the 200th anniversary of the birth of Charles Darwin and the 150th anniversary of the publication of the *Origin of the Species*.

Melbourne will be the venue for a festival that will mark the 200th anniversary of Darwin's birth in the week of 8-13 February 2009. The centrepiece of the festival will be an elite international conference to be held at the Melbourne Exhibition and Convention Centre, exploring the depth and breadth of Darwin's impact on science and society. The festival will provide a rich menu of public events each, in their own way, touching the Darwinian theme - theatre, film, forums, debates and exhibitions involving theatre companies, orchestras, cinemas, museums, art galleries, libraries, botanic gardens, zoos, herbaria, schools, universities and the media - Melbourne the thinking capital coalescing with Melbourne the cultural capital.

THINK BUSINESS EVENTS
 Suite 6, 19-23 Hoddle Street Richmond, VIC 3121
 Ph: +61 3 9370 1265 Fax: +61 3 8610 2170
 Email: info@evolution09.com.au

KEYNOTE SPEAKERS

Dr Robert Bakker, *Morrison Natural Museum*

Prof Alan Dixon, *School of Biological Sciences, Victoria U. of Wellington*

Prof Tim Flannery, *Division of Environmental and Life Sciences Macquarie Uni.*

Prof Douglas Futuyma, *Department of Ecology & Evolution, State U. of New York*

Prof Jenny Graves, *The Australian National University (ANU)*

Prof Randolph Nesse, *Research Centre for Group Dynamics, U. of Michigan*

Prof Neil Shubin, *Department of Organismal Biology U. of Chicago*

Prof John Vandermeer, *Division of Biological Sciences, University of Michigan*

Prof Margo Wilson, *McMaster University*

DIARY DATES 2008

*Meetings held 2nd Monday of the month
(or Tuesday if Monday is a public holiday)*

August 11th	Dr Peter James (Qld DPI&F)	Lousy research & the Integrated Parasite Management Group
September 8th	Dr Shaun Winterton (Qld DPI&F)	Evolution of the Mantid lacewings based on multiple genetic markers (Neuroptera: Mantispidae)
October 13th	Mr Stacey McLean	Filling Biodiversity Information Gaps in Brisbane City: Bugs, Birds and Bracket Fungi
November 10th	Dr Felix Bianchi (CSIRO Entomology)	The landscape context of the ecosystem service of pest control
December 8th	Notes & Exhibits	

IMPORTANT NOTICE

The official address for the Entomological Society of Queensland and *Australian Entomologist* and to which all communications should be addressed is: **PO Box 537, Indooroopilly QLD 4068.**

Sustaining associate of the News Bulletin:

TROPICAL FRUIT FLY RESEARCH GROUP, GRIFFITH UNIVERSITY

SOCIETY SUBSCRIPTION RATES

GENERAL:	Person who has full membership privileges	\$30pa
JOINT:	Residents in the same household who share a copy of the <i>News Bulletin</i> , but each otherwise have full membership privileges.	\$36pa
STUDENT:	Students and others at the discretion of the Society Council	\$18pa

Student membership conveys full membership privileges at a reduced rate.
See subscription form on opposite page for details.

THE AUSTRALIAN ENTOMOLOGIST SUBSCRIPTION RATES

AUSTRALIA:	Individuals	A\$25pa
	Institutions	A\$30pa
ELSEWHERE:	Individuals	A\$35pa
	Institutions	A\$40pa

Subscriptions should be sent to the Business Manager,
The Australian Entomologist PO Box 537, Indooroopilly QLD 4068.

Society's web page and

www.esq.org.au

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esq@uqconnect.net

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INDOOROOPIILLY QLD 4068
Ph: (07) 40534499

NOTICE OF NEXT MEETING

The next meeting of the Society will be held at **12:00 pm** on **Monday, 10th November 2008** in the **Large Conference Room, CSIRO Long Pocket Laboratories**, 120 Meiers Rd Indooroopilly. The main business will be a presentation by **Dr Felix Bianchi (CSIRO Entomology)**: **"The landscape context of the ecosystem service of pest control"**.

VISITORS ARE WELCOME

(Please sign in at CSIRO Reception before attending the meeting)

HONORARY LIFE MEMBERS OF THE SOCIETY

R.A.I. Drew

D.L. Hancock

M.J. Harslett

D.S. Kettle

D.P.A. Sands

R.P. Kleinschmidt