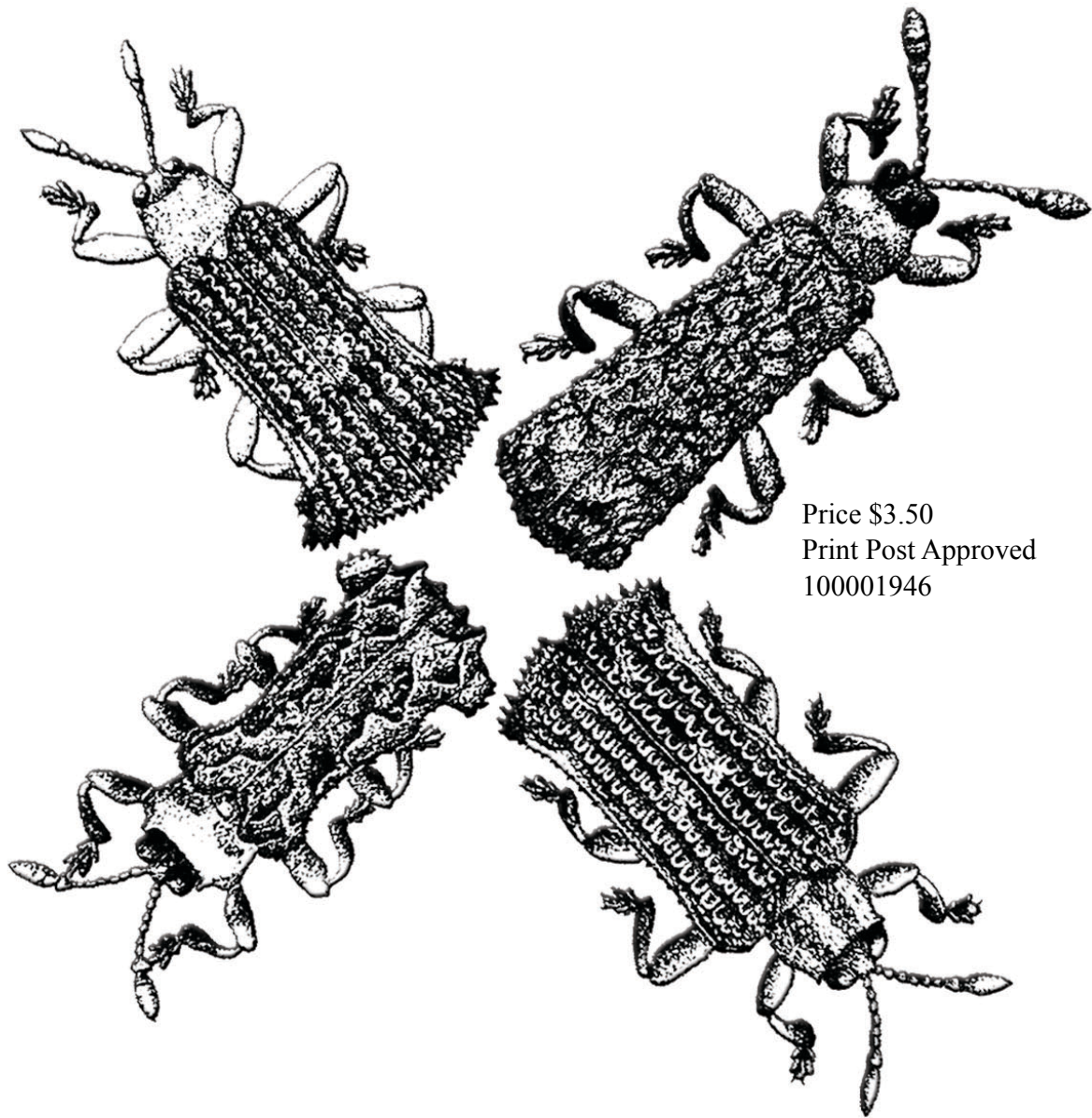


Entomological Society of Queensland

NEWS BULLETIN



Price \$3.50
Print Post Approved
100001946

Volume 42, Issue 10, February 2015

Entomological Society of Queensland

Website: www.esq.org.au

Address: PO Box 537, Indooroopilly QLD 4068

President

Dr. Bill Palmer
Ph: (07) 3255 4469
Email: bill.palmer@daff.qld.gov.au

Senior Vice President

Dr Federica Turco
Ph: (07) 3840 7690
Fax: (07) 3846 1226
Email: federica.turco@qm.qld.gov.au

Junior Vice President

Dr Simon Lawson
Ph: (07) 3255 4380
Fax: (07) 3844 9716
Email: simon.lawson@daff.qld.gov.au

Secretary

Kathy Ebert
Email: k.ebert@uq.edu.au

Treasurer

Dr Brenton Peters
Ph: (07) 3376 4342
Email: petersbc@tpg.com.au

News Bulletin Editor

Kathy Ebert
Email: k.ebert@uq.edu.au

Permit Information Officer

Dr Christine Lambkin
Ph: (07) 3840 7699
Fax: (07) 3846 1226
Email: christine.lambkin@qm.qld.gov.au

Councillors

Dr Nancy Schellhorn
Ph: (07)3833 5710
Email: Nancy.Schellhorn@csiro.au

Bradley Brown
Ph: (07) 3833 5695
Email: bradley.brown@csiro.au

Penny Mills
Ph: (07) 3365 1864
Email: penelope.mills@uqconnect.edu.au

Honorary Life Members

R.A.I. Drew
D.L. Hancock
M.J. Harslett
R.P. Kleinschmidt
G. B. Monteith
D.P.A. Sands

THE AUSTRALIAN ENTOMOLOGIST

Editor

Dr David Hancock
Ph: (07) 4053 1574
Email: davidhancock50@bigpond.com

Business Manager/Assist. Editor

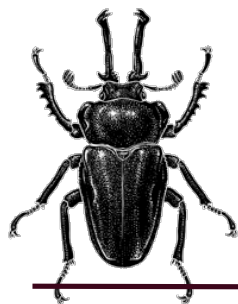
Dr Geoff Monteith
Ph: (07) 3371 2621
Email: geoff.monteith@bigpond.com

Assist. Editor/Manuscript Coordinator

Dr Federica Turco
Ph: (07) 3840 7690
Email: federica.turco@qm.qld.gov.au

Front Cover Illustration: Illustrations by Bill Haseler, 1964 President of the Entomological Society of Queensland, of four leaf-mining beetles introduced for the biological control of lantana. The beetles are, clockwise from top right, *Octotoma scabripennis* Guerin-Meneville, *Uroplata girardi* Pic, *Octotoma chamioni* Baly and *Uroplata fulvopustulata* Baly (Coleoptera: Chrysomelidae: Hispinae). All species are now established in Australia.

ISSN 1037-2989



Entomological Society of Queensland

Table of Contents

Annual Reports for 2014:

From the President.....	174
Honorary Secretary's report.....	176
<i>News Bulletin</i> report.....	177
Treasurer's Report.....	178
<i>Australian Entomologist</i> Journal Report.....	180
Collecting permit annual report.....	182

Nominations for 2015 Office Bearers.....	183
--	-----

Entomology News

Remembering Bill Haseler.....	184
Woodfordia Butterfly Project.....	188
Interesting new locations for <i>Anthene lycaenoides godeffroyi</i> (Semper) in Southern Queensland.....	189
Proxy vote form.....	190
Sequencing the genome of the Wanderer Butterfly.....	190
New Book: A guide to the spiders of Australia.....	191

Announcements & Notices.....	192
------------------------------	-----

The **ENTOMOLOGICAL SOCIETY OF QUEENSLAND**, since its inception in 1923, has striven to promote the development of pure and applied entomological research in Australia, particularly in Queensland. 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 Tuesday of each month (March to June, August to December). Visitors and members are welcome. Membership information can be obtained from the Honorary Secretary, or other office bearers of the Society. Membership is open to anyone interested in Entomology.

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 (Coleoptera). Its magnificent purple and green colouration makes it one of the most attractive beetle species in Australia. Other common names include Rainbow, Golden and Magnificent Stag Beetle. It is restricted to the rainforests of northern Queensland.

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.



Entomological Society of Queensland

Annual Reports for 2014

From the President...

It is hard to believe that a year could go so quickly! It seems just yesterday when we started our term but 12 months have almost gone and it is time to sum up. We welcomed two new councillors this year: Nancy Schellhorn from CSIRO and Dave Walter who recently returned from Canada. Several councillors had extended leave from Council for overseas and other commitments, and Dave resigned before the end of his term.

One of the activities undertaken by Council this year was a review of the constitution. This was done mainly as a general update and to remove a few 'niggles' in it. The suggested changes still have to be ratified at the Annual General Meeting in March. If the changes to the constitution are ratified then it would be highly desirable that the next Council update the By Laws. In this process we confirmed our legal standing as a body corporate under the *Religious Educational and Charitable Institutions Acts, 1861 to 1977* rather than being incorporated under the more recent *Associations Incorporation Act 1981*. This is an ideal situation for us because there are much more stringent, and costly, auditing requirements under the more recent Act. In the process we received legal advice that it would be wise to carry public liability insurance and we have taken out a policy with quite a reasonable premium. I thank John McKeown and Michael Morris from Hillhouse Burrough McKeown for providing legal advice on a *pro bono* basis and to Peter Allsopp for his help with the constitution.

Our guest speakers were a very interesting and varied group this year and invariably attracted good audiences. Attendances of both members and guests were a little higher than last year and we filled the seminar room on a couple of occasions. The lunchtime meetings held at the ESP seem to work

well. However, despite quite concentrated advertising of our meetings, there are still large numbers of entomologists working in the building who have not been attracted to our meetings. Our two "show and tell" meetings in June and December were also great experiences. I thank Brad Brown for setting up the seminar room each month for our meetings.

Very disappointingly, the management committee at the Ecosciences Precinct has made it difficult for professional societies to hold social functions such as barbecues and cocktail hours at the Precinct. The concern is that groups quite unrelated to the ESP now book the facilities and they wish to discourage this practice. However, it makes little sense for groups such as ESQ which has over 40 members working in the building. Our society strengthens the relationship of those members with others in their profession and I hope that we can prevail upon the management committee for a more sensible approach when things settle down this year.

Membership strength has been maintained. However, in common with many similar societies, we have not attracted many younger entomologists. Life seems to be very busy for most people these days. However it is also important that we are not seen by our younger colleagues as old or "retirees" and that we do not get too set in our ways. Traditions are fine but so is innovation, and we must strive for that balance.

The *Australian Entomologist* had another strong year with four parts, 268 text pages and a record 83 pages in colour. An initiative is now underway to digitise all the back editions of the journal and make these available globally via the INFORMIT service. The publications team of David Hancock, Geoff Monteith and Federica Turco are to be commended for the unstinting hard work they put into this

journal. These three people are actually covering five positions on the committee (editor, business manager, manuscript coordinator and two assistant editors). It would be wise for the Society and its next Council to encourage some future planning in its management to ensure that an unforeseen resignation would not unduly affect the journal's production and to develop more back-up capability.

The *News Bulletin* remains a fine publication with quality articles appreciated by the membership. I thank Dave Walters for his efforts before his resignation and Kathy Ebert for taking on responsibility for the last few editions. Penny Mills coordinated the printing and distribution, and Geoff Monteith remained a driving force. Printing and posting of hard copy to about 65% of our members now accounts for a very significant portion of our annual revenue. I encourage more members to receive the *News Bulletin* electronically.

The Society maintained a Scientific Purpose Permit throughout the year endorsing a hundred of our members to collect in protected areas. Some 31 members availed themselves of this opportunity and several new species were described as a result. Chris Lambkin has been our Permit Information Officer for five years. She has indicated that she would like to step down from that role and we thank her very much for her wonderful service to us.

Chris is also very heavily involved in BugCatch, a very important part of community involvement. The two events conducted this year were well attended and attracted the attention of the Totally Wild television programme and a UQ student group. Many thanks to Chris and Kathy Ebert for their organization of these events.

The Society is always keen to support entomological students and this year was no exception. We received three outstanding entries for our student prize which was won by Gurion Ang, a student of Mike Furlong at the University of Queensland. Gurion gave an exceptional presentation of this work at our June meeting and left many of us older

members feeling rather dated.

Two of our members, Nancy Schellhorn and Gurion Ang, were appointed to the Board of the Australian Entomological Society in August. They, with David Merritt, give our society strong linkage with the national society.

At our most recent Council meeting, two members who have made outstanding contributions to entomology and our Society were recommended for Honorary Life Membership. Christine Lambkin, a member of about 45 years standing, has given us unstinting effort as president and other council positions, as a long-serving Permit Information Officer, as a contributor at our meetings particularly in "show and tell" sessions, and as an organiser of BugCatch. We also recommended Max Moulds, a member for over 50 years. Max gifted us the *Australian Entomological Magazine* which has become our flagship journal, the *Australian Entomologist*, and has made many other contributions to Australian entomology. I hope their nominations will be endorsed by the membership at the Annual General Meeting.

So, in all, it has turned out to be a busy and productive year. I would like to thank all the members of Council for their hard work and support this year. Again the society does not function without the efforts of its secretary, Kathy Ebert, and its treasurer, Brenton Peters. It has been a real pleasure to serve as the 2014 president and I wish

Federica and the new Council well for 2015.

Bill Palmer
President



Bombyliidae,
Daintree Rainforest
Observatory.
Photo: D. Rentz



Entomological Society of Queensland

Secretary's Annual Report 2014

Attendance at Council Meetings:

The 2014 council met nine times from April 2014 through February 2015. There will be one more meeting of the 2014 council just prior to the AGM in March. Attendance at these nine meetings was as follows:

President: Bill Palmer 9

Senior V. President: Federica Turco 5

Junior V. President: Simon Lawson 5

Treasurer: Brenton Peters 8

Secretary & Bulletin Ed. (Nov-Feb):
Kathy Ebert 9

Bulletin Ed Mar-Oct: Dave Walter 6

Aust. Ent. Journal Business Manager:
Geoff Monteith 2

Councillor Bradley Brown 7

Councillor Nancy Schellhorn 4

Councillor Penny Mills 9

Membership

We received 21 new membership applications since January. Of these, 15 were General, 2 Joint, 4 Student for a total of 23 new members this year.

General Meetings

General meetings were held at the Ecosciences Precinct in Dutton Park. Guest speakers and the 'Notes and Exhibits' meetings provided a varied and interesting programme throughout the year. Speakers and titles are listed below:

March: Simon Lawson, Presidential Address: "Australians abroad: eucalypts and their insects"

April: Mike Barnett: "Butterfly species and habitats in Africa"

May: Dan Papacek: "Confessions of a Commercial Entomologist"

June Notes & Exhibits:

Student Award Winner, Gurion Ang: "Host plant volatiles and preference in a specialist and generalist parasitoid: to learn or not to learn?"

N.Starick & C. Lambkin: "Dining on the army worm"

N. Riding: "The lantana flower galling eriophorid"

Chris Moeseneder presented an exhibit of specimens and videos of an interesting behaviour in Cetoniinae beetles.

August: Mr John McKeown: "The entomologist gets the trout"

September: Peter James: "Soft lights, black sheets and in-vitro breeding of Buffalo Flies"

October: Diana Leemon: "A slimy solution for a bad bee hiving beetle"

November: Jeff Skevington: "Natural history and systematics of Flower Flies (Diptera:Syrphidae)"

December Notes and Exhibits:

Lyn Cook: "A quest for a beautiful place"

Geoff Monteith: "Unusual pupal structures constructed by the heterocerid mud-beetle, *Heterocerus flindersi*."

Geoff Monteith & R. Richter - "An unusual new king cricket species and first record of the family from Victoria."

Chris Lambkin and Noel Starick - "Carnarvon BushBlitz experience."

Mike Muller - "Oviposition behaviour of *Toxorhynchites speciosus* in a suburban backyard." AND "Mosquitoes feeding on reptiles and amphibians"

Geoff Thompson and Andy Wang - "Peacock spider photos"

Archie Nahman: "An interesting entomological phenomenon: What hot insects do"

Displays:

Kathy Ebert - Moths from Paluma

Julianne Farrell - pictures & pinned specimens of newly described *Omorgus bachorum* beetle

Bradley Brown - Potential agents for *Casuarina* biocontrol

General Meeting attendances

On average, attendance increased to 33 people per meeting compared to 28 last year. Average member attendance increased from 23 to 25. Average visitor attendance increased from 5 to 8.

Student Award

There were 3 entries submitted for the Student Awards this year. All were excellent. The judging panel selected Mr. Gurion Ang from the University of Queensland for his thesis entitled "*Species-specific responses of insect herbivores and their parasitoids to temporal changes in host plant volatile profiles*".

Other Activities

Two successful BugCatches happened this year. The first was in March at Mt Mee-D'Aguilar NP with 30 people attending, as well as a film crew working on an Australian fly documentary. The second was in September at Mt Glorious-D'Aguilar NP. Again, the event attracted over 30 people, plus 25 students from the insect science course at UQ. A film crew from Totally Wild came to film a segment on bug catching.



Kathy Ebert
Secretary

News Bulletin Report 2014



The monthly *News Bulletin* is a fundamental part of our society as it communicates news of insects, people, research, projects, books, meetings, conferences and other happenings in Queensland to all of our members. As many of our

members don't have the opportunity to attend our monthly meetings, the *News Bulletin* is their only contact with the Society, so a quality publication is imperative.

This year, we have continued to print a high quality, full colour, hardcopy version, as well as an electronic version. Volume 42 had ten issues totalling 210 pages. Our beautiful hard copies were requested by over 60% of our members, while the electronic version was sent out to everyone with an email address. We also posted bulletins to 25 institutions and libraries. We are very grateful to our printers, Rocklea Printing, for their efficient turnaround, low prices and friendly service.

Dave Walter was the editor through October, producing *News Bulletins* 1-7. Kathy Ebert was appointed by Council to carry on the role for the remainder of the year, producing *News Bulletins* 8-10. Penny Mills, as assistant editor, skillfully managed the logistics of the mailout, and rallied council members each month to come and help stuff envelopes.

We urge members to use the *News Bulletin* to communicate ideas, images and information to their fellow members so that it continues to be a vital and interesting source of information to all.

Kathy Ebert
News Bulletin Editor

Entomological Society of Queensland - Treasurer's Report

Trading Account and Income and Expenditure Statement

for the year ended 31st December 2014

Trading Income

Subscriptions 2014	4872.00
Subscriptions in Arrears 2013	720.00
Total Trading Income	5592.00

Cost of Sales

Add:

Bulletin Printing 2014	3733.50
Bulletin Postage 2014	1503.33
Cost of Sales	5236.83

Gross Trading Profit

355.17

Income

Trading Profit	355.17
Interest Received	693.75
Payment from AES - auditor expense	150.00
Total Income	1198.92

Expenses

Merchant Fees	270.75
Audit	300.00
Student prize	500.00
Stationery	213.67
Web Page Registration and Hosting	139.40
Sub mispayments	120.00
PO Box rental	107.00
Christmas Party	395.30
ESQ Insurance	370.00
Computer Hardware	79.00
Petty Cash Float	50.00
Sundry	40.70
	2585.82

Profit/(Loss) from Ordinary Activities before income tax

-1386.90

Entomological Society of Queensland - Treasurer's Report

Statement of Financial Position as at 31st December 2014

Current Assets

Cash Assets

Cash at Bank - Cheque Account	7418.28
Cash at Bank - Term deposit	11242.83
Cash on Hand	15.87
Total	18676.98
Receivables	0.00
Total Assets	18676.98

Current Liabilities

Payables

Subscriptions Paid in Advance	546.00
Total Liabilities	546.00
Net Assets	18130.98

Equity

Retained profits/(accumulated losses)	18130.98
Total Equity	18130.98

Independent Auditors Report

To the members of the Entomological Society of Queensland

Scope

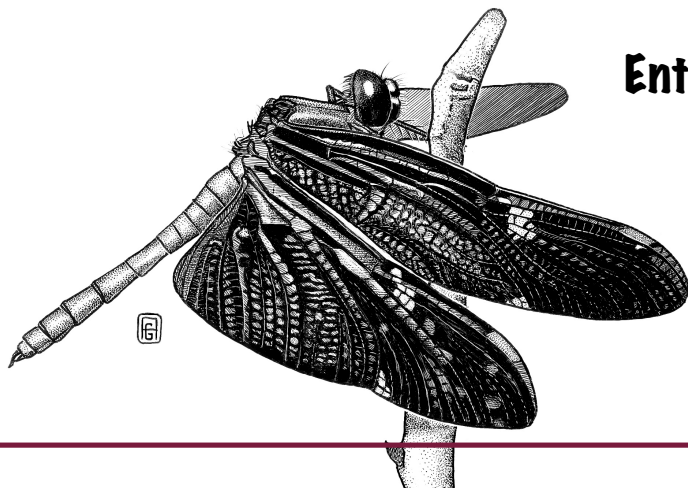
I have audited the accounts of The Members of the Entomological Society of Queensland, being the Balance Sheet of Income and Expenditure for the year ended 31 December 2014. The committee of the society is responsible for the preparation and presentation of the accounts and the information they contain and have determined that the accounting policies used are appropriate to meet the needs of members. I have conducted an independent audit of these accounts in order to express an opinion to the members of the society on its presentation and preparation. No opinion is expressed as to whether the basis of accounting used is appropriate to the needs of members.

Auditor Opinion

Subject to the effects of the above the financial reports present fairly the activities of the Society for the year ended 31st December 2014.

Rebecca Keys
Independent and Honorary Accountant

Dated: 12th January 2015



Entomological Society of Queensland

Australian Entomologist Journal Report 2014

Four parts of Volume 41 of *Australian Entomologist* were published during the year, totalling 268 text pages with a record 83 pages in colour. Two were large perfect bound issues. All issues were mailed out within normal circulation deadlines. Issues included 30 original papers and two book reviews. Thirty-one new manuscripts were received during the year and there are currently 12 manuscripts in hand to be carried forward for 2015 issues of the journal. We are very grateful to Bert Orr who contributed the stunning dragonfly illustration which graced this year's covers.

We offered a cheaper electronic subscription option to subscribers this year for the first time though only 7 subscribers opted for this alternative for 2014. Among earlier paying subscribers for the 2015 year there have been a few more taking up the electronic version with total now at 17. We expect this trend to continue but have a firm commitment to service the needs of the great majority who still prefer the hard copy.

We continue to supply electronic content of our journal to RMIT Publishing who make it available globally through their INFORMIT service. Currently they hold content of issues back to when we started producing electronic versions in mid-2010 and these are available for download by non-subscribers at \$3.98 per individual paper. During the year we have arranged with INFORMIT to scan all early issues back to start of publication in 1972 (5468 pages) and these will become available for paid download during 2015. This will be a milestone for the journal and will mean that all content since commencement

will be easily available to entomologists around the world.

The subscriber base continues to decline slightly in line with world patterns for hardcopy publication. It fell from 252 subscriptions at the start of 2014 to 238 at the end of December, a decline of 5.8%.

Many of those dropping subscriptions are institutional libraries and some of these will be accessing our content via packaged subscriptions provided by INFORMIT. We will gain royalties for provision of our content in this way.

Finances remain stable. Our financial statement indicates a profit of \$2771 for the year but when unpresented cheques are included (including the large printing payment for the December issue) the actual profit drops back to \$253.

Composition of the Publication Committee remains the same. David Hancock completes his 19th year as Editor. Federica Turco holds joint positions as Manuscript Coordinator and Assistant Editor, while Geoff Monteith acts as Business Manager and Assistant Editor.

The Publication Committee would like to thank the many people (subscribers, authors and referees) who contribute to the *Australian Entomologist* and help to keep it as a vital part of the Australian entomological scene.

*Geoff Monteith, Business Manager
Australian Entomologist*

ANNUAL REPORT 2014
FINANCIAL STATEMENT FOR *THE AUSTRALIAN ENTOMOLOGIST* –
JANUARY 1 TO DECEMBER 31, 2014

ASSETS	\$	LIABILITIES	\$
CBA chq A/c 00908915			
Closing balance	\$4,653.24	Subs in advance (2015& 2016)	2868.12
		Cheques not presented	2518.20
Bank MECU term accts			
Closing balance: 307023174	12532.03		
307023175	7822.49		
138340573	6573.91		
Subscriptions owing 2013	0		
Stationery (printed envelopes)	200.00		
Unsold past issues <i>Aust. Entomol.</i> 2049 @ \$0.75 ea	1536.75		
TOTAL	\$33318.42	TOTAL	\$5386.32

EXCESS ASSETS OVER LIABILITIES: \$27,932.10

INCOME	\$	EXPENDITURE	\$
Subscriptions	7741.07	Printing costs, Vol 40(1-3)	4987.05
Page charges	2596.92	Postage	2014.86
Interest (CBA 00908915)	0.16	Stationery	89.36
Interest (MECU 307023174)	493.57	Monthly merchant card fee	253.58
Interest (MECU 307023175)	271.82	Bank overdraft charge	10.00
Interest (MECU 138340573)	258.92	Auditor's honorarium	150.00
Back issue sales	284.00	Graphic layout costs	1250.00
Postage received	19.40	Dishonoured payments	166.00
Donations	27.00	Debit excess interest by CBA	0.15
TOTAL	11692.86	TOTAL	8,921.00

NET TRADING PROFIT/LOSS: \$2771.86

2014 SUBSCRIPTIONS at Dec 31:

AUSTRALIAN SUBSCRIPTIONS	204 (28 institutional, 3 complimentary)
OVERSEAS SUBSCRIPTIONS	34 (31 institutional, 3 complimentary)
TOTAL SUBSCRIBERS	238

I certify this is a true and accurate financial statement of the *Australian Entomologist* for the period 1 January 2014 to 31 December 2014.

Rebecca Keys
Independent and Honorary Accountant



Photo: K. Ebert

Entomological Society of Queensland

Collecting Permit Annual Report 2014

In mid November 2014, I sent out an early request for annual reports outlining locality information for specimens collected and identified by November 2014 to the 100 members endorsed on the ESQ collecting permit (WITK10612112 and TWB/03B/2012) for the protected areas (180 National Parks, State Forests, and Forest Reserves as of November 2013). Most members submitted null returns. Thirty-one members reported on specimens collected, indicating that nearly a third of those endorsed are actively collecting on the permit.

The 2014 amalgamated annual Wildlife Data Return and Report to DEHP and QPWS covers over 3,300 invertebrate specimens including Beetles (17), Bugs, mainly scales (311), Cockroaches, Flies including Syrphidae (271) Therevidae (62) Tephritidae (361); Lepidoptera (1417) - Hesperidae, Lycaenidae, Nymphalidae, Papilionidae, Pieridae, Sphingidae, Geometridae; Odonata (440), Orthoptera, Thrips (51), Ants (257), and Spiders (94). Several members reported that numbers seen and collected were reduced in 2014.

Our Queensland Parks and Wildlife Service (QPWS), Department of Resource Management (DERM) Scientific Purpose Permit expired in mid-January 2014 and the reapplication was submitted with the report in mid December 2014 with a list of over 268 protected areas requested. All financial members who wish to be endorsed on the new permit and who had submitted reports for 2014 were asked to reapply in mid December, using the on-line application form on the ESQ website.

The new ESQ permits, WITK15549915 and TWB/02/2015, with an extended list of protected areas

included, arrived in mid-January and endorsed permits were sent out to financial members who had reapplied. Again there are conditions attached to these new permits, including a requirement that prior to commencing work in protected areas in Queensland, the ESQ member endorsed on the Entomological Society of Queensland Collecting Permit must complete a separate on-line form for each park or reserve to be entered at least 7 days before. Also special access restrictions apply to some particular parks.

The names of some parks have changed, in particular Resources Reserves and Conservation Parks are now Regional Parks. As well, some State Forests and Forest Reserves have become National Parks or been incorporated into National Parks. Not all State Forests and National Parks are covered in these permits. In particular, our permit does NOT allow access to many of the Cape York Reserves, such as Cape Melville NP, Kutini-Payani (Iron Range) NP, Oyala Thuotanga NP or Rinyirri (Lakefield) NP. I continue to negotiate for permission to include cover for these reserves.

Specimens collected under this permit, and reported this year, have been described as new:

Gerstmeier, R. & Seitner, M. (2013). Revision of the checkered beetle genus *Eunatalis* Schenkling, 1909 (Coleoptera: Cleridae: Clerinae). *Zootaxa* 3698(1): 1-77 [18].

Lambkin, C. L. & Turco, F. (2013) *Collessiama* (Diptera: Therevidae: Agapophytinae: *Taenogera* genus-group), a new genus from eastern Australia, with a key to the Australian genera of Therevidae. *Zootaxa* 3680, 96-117.

Baehr, B.C., Harvey, M.S., Smith, H.M. & Ott, R.
2013 The goblin spider genus *Opopaea* in
Australia and the Pacific islands (Araneae:
Oonopidae). *Memoirs of the Queensland
Museum – Nature* 58: 107–338.

Christine Lambkin
ESQ Permit Officer



Nominations for 2015 Office Bearers

The following nominations were
received by the Secretary before closing date of
January 30th:

President: Federica Turco. *Nominated by* Christine
Lambkin, *Seconded by* Susan Wright

Senior Vice President: Bradley Brown. *Nominated*
by Gio Fichera, *Seconded by* Matthew Purcell

Secretary: Mark Schutze. *Nominated by* Stephen
Cameron, *Seconded by* Li-Xin Eow

Treasurer: Brenton Peters. *Nominated by* Bill
Palmer, *Seconded by* Kathy Ebert

News Bulletin Editor: Kathy Ebert. *Nominated by*
Bill Palmer, *Seconded by* Brenton Peters

Councillor: Penelope Mills. *Nominated by* Lyn
Cook, *Seconded by* Tom Semple

Councillor: Nancy Schellhorn. *Nominated by*
Andrew Hulthen, *Seconded by* Matthew Purcell

Councillor: Cate Paull. *Nominated by* Nancy
Schellhorn, *Seconded by* Andrew Hulthen

Australian Entomologist Journal Business

Manager: Geoff Monteith, *Nominated by* Susan
Wright, *Seconded by* Christine Lambkin

As only one nomination has been received for each
position, a ballot will not be required at the AGM,
however, the members present at the AGM will vote
to approve the nominations. The position of Junior
Vice President is automatically filled by the previous
year's President, and this year it will be Bill Palmer.

Vector Ecology & Vector Borne Disease Seminars



Anopheles darlingi
Photo: Phil Lounibos

Co-sponsored by University of Queensland, CSIRO,
Queensland Institute of Medical Research and the
Entomological Society of Queensland

DATE: 18 March 2015

TIME: Seminar 1: 11:30 - 12:30 **Phil Lounibos**

Lunch Break: 12:30 - 1:15 -- BYO Lunch
(juice and biscuits provided)

Seminar 2: 1:15-2:15 **Alex Raikhel**

PLACE: University of Queensland BioScience
Precinct (IMB) BLDG 80 - Seminar Room Large
3.142 (public access)

Seminar 1: Phil Lounibos, University of
Florida, USA

Title: Competitive displacement mechanisms and
ramifications for vector-borne disease ecology of
the dengue mosquito *Aedes aegypti* with the
arrival of the Asian tiger *A. albopictus*.

Phil's long-standing core focus has remained insect ecology
and behavior, especially as applied to mosquito vectors of
human diseases, such as malaria and dengue. Phil has
found that the recent resurgence of the dengue mosquito
Aedes aegypti in Florida is associated with the evolution of
resistance to the asymmetrical crossmating advantage of
the Asian tiger mosquito (*A. albopictus*) over *A. aegypti*.
Phil will provide important insights to Australia that is
currently under the direct threat from the imminent arrival
of the Asian tiger.

Seminar 2: Alex Raikhel, University of
California Riverside, USA

Title: Insect regulatory molecules, hormones and
microRNAs: from basic research to applications

Alex Raikhel explores the molecular basis of mosquito
reproduction and immunity. As vector-borne pathogens co-
evolved exploiting the mosquito through the process of the
blood feeding, pathogens multiply and are transmitted to a
vertebrate host during subsequent blood feedings. Due to
this intimate relationship between mosquito blood-feeding,
egg production cycles and the transmission of disease
pathogens, it is critical understand the molecular basis of
egg development in these insects in order to for devising
novel control approaches.



Queensland

Entomology News



Remembering Bill Haseler....



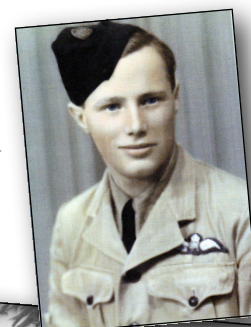
William (Bill) Henri Haseler
30 July 1925 - 1 Jan 2015

Bill Haseler, a prominent weed biocontrol entomologist, who served a long career (1957-1985) in Queensland's Department of Lands, and was Director of the Biological Branch at Alan Fletcher Research Station at Sherwood for 15 years, passed away on the first of January, 2015 at the Gold Coast. He was honoured at a service at the Mt Gravatt Crematorium on January 7.

Bill was a 4th generation Australian, born in Brisbane on the 30 July 1925, the first child of Ronald and Elsie Haseler. His father won a Distinguished Conduct Medal in the WW1 Light Horse and Bill inherited his character and personality. His mother had migrated from the UK as a young girl. Bill and five siblings were raised mainly on "Oaklands", a 50 acre Sunnybank property, in an extended family that loved the beauty,

seclusion and great fishing of Stradbroke Island. He attended Brisbane State High School.

Bill joined the RAAF in World War 2 as soon as age permitted in 1943. He gained his Wings in Tiger Moths and demonstrated this to his family by dive bombing "Oaklands". This scared the living daylight out of his mother and highlighted his sometimes wicked sense of humour. He graduated to a P40 Kittyhawk Fighter/Bomber, and was posted to New Guinea in January 1945. There he joined 76 Squadron pushing the Japanese out of the Pacific Islands and was in Borneo at war's end. His mother first knew of her Flight Sergeant son's return when she found him at the kitchen door after he walked from Archerfield airport.



P40 Kittyhawk of the 76 Squadron.

(Source:Wikipedia)

On discharge in 1946, Bill won a Commonwealth Reconstruction Training Scheme scholarship to the University of Queensland and studied as an evening student for his BSc (Entomology) while a clerk in the Commonwealth Public Service. He married Armyne Owens in 1955. The old family property at Sunnybank was subdivided and Bill was given 3 acres on which he would build a modest home where his four children, Bruce, Ian, Gill and Jan grew through childhood.

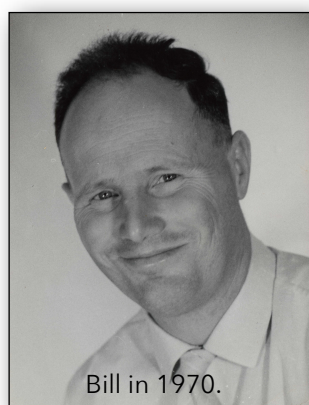
Graduating in 1957, Bill joined the Biological Section of the Queensland Department of Lands working from the Sherwood Laboratory in Magazine Street (renamed Alan Fletcher Research Station in 1967) where he specialised in biological control of weeds. He was one of several new graduate scientists (George Diatloff and Ken Harley were others) who progressed weed science past the Dodd/

Mann/prickly pear days. He worked on several weeds including crofton weed (*Ageratina adenophora*) and groundsel bush (*Baccharis halimifolia*) and introduced several good biocontrol agents. In 1963, he gained his MSc for a thesis on the crofton weed gall fly (*Procecidochares utilis*). He travelled overseas sourcing biocontrol agents and spent 1966 at the Archbold Research Station in Florida working on groundsel bush. He was also active in the Entomological Society of Queensland (ESQ) and served as its president in 1964. During this period, ESQ was at the forefront of successful efforts to start an Australian Entomological Society (AES) and Bill was very involved in those efforts. The AES was founded in 1965 and Bill was a foundation member.

In 1970, he succeeded John Mann as Director of the Biological Branch. His 15 years of directorship saw a strengthening of scientific research capability with the appointment of entomologists with post graduate qualifications (including Paul and Rachel McFadyen, Clyde Wilde and Bill Palmer), strong encouragement to publish in peer-reviewed journals, extensions to the research station buildings and a much improved quarantine facility, construction of the Tropical Weeds Research Centre in Charters Towers and the establishment of several overseas field stations where potential biocontrol agents were

sourced. When Bill took over as Director, the major weeds of grazing lands in Queensland were groundsel bush in the south, lantana (*Lantana camara*) and Noogoora burr (*Xanthium occidentale*) throughout, and Harrisia cactus (*Harrisia martinii*) in the north. He had great confidence in biological

control initiating a program against Harrisia cactus and increasing the overseas effort against groundsel bush and lantana.



Bill in 1970.



Bill Haseler in the centre, with Graeme Saunders on the left and Doug Kettle on the right. Taken at the ESQ 50th anniversary in 1973. Photo: G. Monteith

In 1973, parthenium (*Parthenium hysterophorus*) was first recognised as a problem in central Queensland, spreading rapidly southwards during the ensuing wet years. Bill successfully lobbied for a major control program against the weed leading to an integrated management research program which encompassed a large and well-funded biological control program, delimiting surveys to establish the extent and rate of spread, a comprehensive roadside spraying program, assistance for landholders, and ecological studies to determine best pasture management. As a program, it was well designed and exceptionally well funded, largely as a result of Bill's drive and enthusiasm. He was always a good 'salesman' for biological control, helped by the fact



Queenslanders see snow! From L to R: Brian Wilson, Bryan Cantrell, Malcolm Campbell, the late Ross Storey, Ian Cunningham, Bill Haseler and Sybil Curtis. Taken at Brindabellas during Canberra ICE, 1972. Photo G. Monteith

that many of the Government ministers and senior Lands Department staff had grown up on properties 50 years earlier during the great *Cactoblastis* success. Bill travelled extensively to countries such as Mexico, Brazil, Pakistan, Argentina, South Africa and the United States during this period. He became an internationally recognised and respected weed scientist and it was no coincidence that the Fifth International Symposium on Biological Control of Weeds was held in Brisbane in 1980, the first of these symposia to be held in the Southern Hemisphere.

Other approaches to weed control were supported at the Alan Fletcher Research Station. Herbicide research was strengthened, particularly in two areas; herbicide formulations and application equipment. Screening trials were regarded a “bread and butter” but essential area of research to provide reliable information to farmers, councils and even householders.

Bill Haseler emphasised the “team approach” started by John Mann. By this he meant that the contributions of all staff were recognised and appreciated, and each team member maintained self-respect along with the confidence of others. Rachel McFadyen remembers that Bill was one of very few directors of the day prepared to employ a woman in a field position. He stepped outside the prejudices of the period and employed her on short-term contracts



Alan Fletcher Research Station, Sherwood.

at the Sherwood laboratory until a vacancy for a permanent position was created early in 1978. In a valedictory address in 1985, he chose not to nominate any of his staff for outstanding achievement because of the value he placed on the team approach and the belief that all made meaningful contributions.

Bill was a founding member of the Weed Society of Queensland in 1975. He remained a very active member for many years and became a Life Member. He was the inaugural President of the Council of Australian Weed Science Societies (CAWSS) in 1977 and remained a delegate to that body for several years. He was also a member of the Australian Weeds Committee for 11 years.



Bill Haseler, centre, at Weed Society of Queensland Honorary Members Lunch, Toowoomba, 2003. Photo from Bruce Wilson.

North Stradbroke Island was never far from Bill’s mind. He bought land at Point Lookout and spent many weekends and holidays building and fishing which was his favourite pastime. He was also an avid gem collector and a very accomplished gem cutter and the family took several holidays fossicking in outback Queensland. Later, he became a President and Fellow of the Gemmological Association of Australia. After moving to Graceville on the Brisbane River in 1971, he was soon confronted with the 1974 flood when the water rose into their

home's upper storey. Bill, with his sharp practical mind, matter-of-factly accepted the challenge and quickly restored the house without benefit of insurance cover.

Bill retired in 1985 and built a home on Mt. Tamborine where he and Armyne belonged to many clubs including Probus, the Historical Society, painting, craft and wood working groups. They were especially avid members of the Mt Tamborine Botanical Garden where Bill was the Honorary Curator for 10 years. Armyne died in 1995, ending a 40 year marriage. Bill stayed on the mountain and continued in various groups. In time he married Betty Macdonald who worked at the library he regularly attended. They moved, in 2001, to a property with a beautiful garden and magnificent views across the whole of the Gold Coast. In 2008, Bill and Betty moved to the Domain Country Club Retirement Village at Ashmore, but by April 2014, Bill's frailty necessitated his moving into the Golden Age nursing home. He remained mobile in a wheelchair and loved to visit the Domain and various restaurants with family and friends. His last

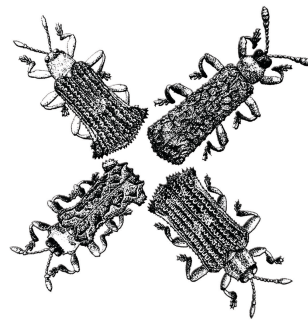


Fishing at North Stradbroke Island. Photo from B.Palmer

outing was Christmas lunch with all his family present. He died peacefully a week later. He is survived by his wife, Betty, and his four children, and grandchildren.

Bill had a little known talent as an insect illustrator. It is fitting that in the year of his death the Entomological Society of Queensland has featured on the cover of its monthly *News Bulletin*, four beautiful drawings that he did many years ago, of South American hispine beetles introduced as biocontrol agents against lantana.

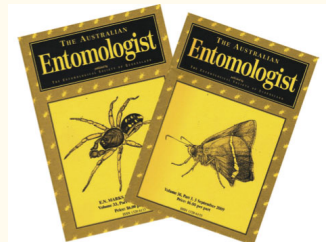
-- compiled by Bill Palmer



Bill Haseler's illustration from the cover of the ESQ *News Bulletin* Volume 42.

The Australian Entomologist

This journal was commenced in Sydney in 1974 by Max Moulds and is now published by the Entomological Society of Queensland. It is one of the leading



outlets for research on native insects in Australia and adjacent areas. Annual subscription for individuals is \$33 in Australia, \$40 in Asia/Pacific and \$45 elsewhere. To subscribe send name and address with cheque or money order (payable to *Australian Entomologist*), to Business Manager, Box 537, Indooroopilly. Qld. 4068. To pay by credit card, send email to geoff.monteith@bigpond.com and an email invoice will be sent to you, or use the subscription form at http://www.esq.org.au/pdf/esq_subscription2014.pdf. Ask for a free inspection copy or enquire about our back issue sale at 75c/copy for pre-2004 issues.



Woodfordia Butterfly Project

--Helen Schwenke

A

monthly working bee, to improve the festival site for the project, is held on the last Sunday of every month. Come along on the Saturday night for music making and socialising or Sunday, join the fun and help me “ramp up” invertebrate education.

Helen

Schwencke, Organiser, Woodfordia Butterfly Project, 0423 127 492, butterflies@woodfordia.com.au. Also visit: www.earthling.com.au

Heavy

Words Thrown Lightly (to borrow a book title about nursery rhymes):

Biodiversity,

Invertebrate Ecology, Insect Conservation, Entomology, Population Dynamics, and many more are everyday terms for entomologists.

For

the last 13 years I have had a delightful and playful science communication opportunity at the Woodford Folk Festival. Through the festival I have a stage to promote ideas, like the dense concepts embodied in the language of biology, to an audience of around 120,000 people over 6 days.

To

engage patrons about planting for enhancing biodiversity, I run an information booth about invertebrates and have created 44 different butterfly ecology interpretation signs that are displayed with their host plants around the festival site. I also oversee 12 volunteer Roving Butterflies, wearing costumes inspired by five real species of butterflies and one dragonfly. My presentations include four morning walks along a 200m stretch of revegetated creek-line and three “Insects by Night” performances.



ESQ member, Helen Schwenke, presents insect educational activities and posters at the Woodford Folk Festival which is held annually at the end of December. The festival attracts thousands of people each year. For more information about the festival see: <http://www.woodfordfolkfestival.com>



Interesting New Locations For *Anthene lycaenoides godeffroyi* (Semper) in Southern Queensland

--Russell Mayo.

The specimens appeared to be coming from a northerly direction.

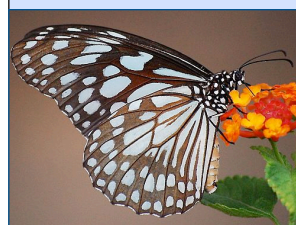
Despite careful searching and favourable flying conditions at the Pomona site, no further specimens were encountered until 30 January 2015 when a further female specimen was positively identified at the Pomona site, but released.

The specimens collected have a prominent white patch on the forewing above and appear typical of specimens from Townsville/ Cairns.

While *A. lycaenoides godeffroyi* is a relatively strong flying species for a Lycaenid, I consider it unlikely that these specimens originated from within previously known range, given the significant distance involved. I think it more likely that the range of this species may have been expanding incrementally and have not been detected to date.

Reference

Braby, M. F. (2000) Butterflies of Australia Their Identification, Biology and Distribution. CSIRO



**Southeast
Queensland has lots
of butterflies this
summer**

ESQ members, Christine Lambkin and Ross Kendall, were recently interviewed by the ABC with regards to the astonishing number of butterflies being spotted this year. To read more see: <http://www.abc.net.au/news/2015-01-22/butterflies-blooming-in-south-east-queensland/6029580>

Anthene lycaenoides godeffroyi (Semper) is a moderate sized Lycaenid butterfly recorded from northern Australia. On the Australian east coast it is recorded as far south as Cannonvale, near Airlie Beach, Qld. (Braby 2000)

The larvae of this species has been recorded feeding on a number of native and introduced species of plants and may be associated with at least ten different ant species, but may also be without ants (Braby, 2000). I can find no reference to this species migrating. Braby (2000) recorded that "adults reside close to the foodplant."

Three worn female specimens of *A. lycaenoides godeffroyi* were collected on 24 January, 2015, in southern Queensland at two different locations, separated by about 10 kilometres, approximately 800 kilometres south of the previous southern recorded limit. Several others were seen at close quarters and positively identified, but I declined to collect them. The specimens collected are deposited in my private collection.

Two specimens were taken and several other identified 5 kilometres east of Pomona and another taken 2 kilometres north of Cooroy, Qld. All specimens seen or collected were female. The Pomona specimens were all active late morning, flying around and landing on a flowering *Albizia julibrissin*, a recorded food plant for this species.

Voting at the AGM

At our next meeting, which is the Annual General Meeting in March, we will be voting to accept constitutional changes and approve two Honorary Life Members recommendations. Any member who is unable to attend the Annual General Meeting may appoint, in writing to the Secretary before the meeting, a member of the society to act as a proxy on his or her behalf. Please use the form below if you wish to vote, but are unable to attend. This form is also available on our website: http://www.esq.org.au/pdf/ESQ_ProxyVoteForm.pdf

Entomological Society of Queensland

Proxy Vote Form

I nominate the following member of the Society:

to vote on my behalf at the Annual General Meeting of the Society at 1pm on March 12th, 2015.

Name: _____

Signature: _____

Date: _____

Cut out, copy or scan this form and send/email to the Honorary Secretary, Kathryn Ebert, at k.ebert@uq.edu.au or P.O.Box 537, Indooroopilly. Q. 4068. Forms must be in the hands of the Secretary before the commencement of meeting.

Sequencing the genome of the Wanderer Butterfly (*Danaus plexippus*)



Danaus plexippus. Source Wikimedia Commons

The Wanderer or Monarch, (*Danaus plexippus*) is famous for its migratory behaviour and distinctive warning colouration. A group of scientists has recently sequenced the *Danaus* genome and has been able to identify the genetic features related to the butterfly's dispersal and warning colouration. UQ entomologist and ESQ member, Professor Myron Zalucki, is a contributing author on the paper. To read more about it see:

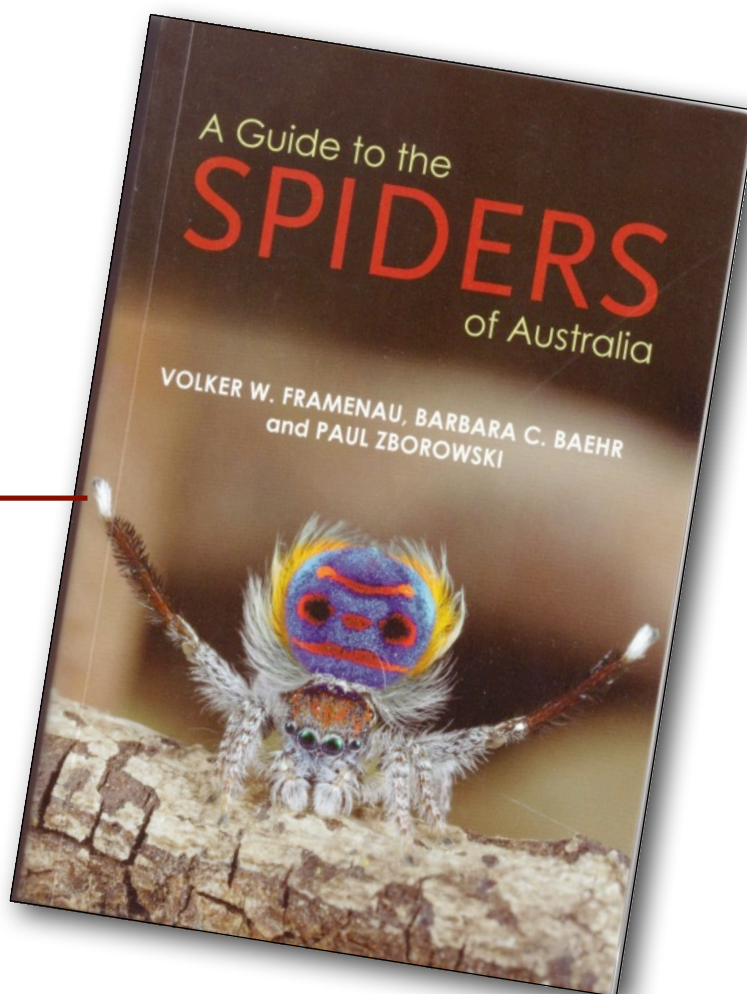
<http://www.nature.com/nature/journal/v514/n7522/full/nature13812.html>

A Guide to the Spiders of Australia

By Volker Framenau, Barbara Baehr and Paul Zborowski, New Holland, ISBN 9781921517242, paperback, October 2014, 448 pages, 500 colour photos. Price \$45. Available from <http://www.publish.csiro.au/pid/7375.htm>

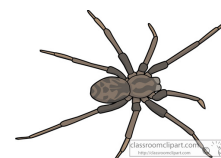
It's been a long time since the previous handbooks of Australian spiders by authors such as Densely Clyne (1969), Barbara Main (1976), Ramon Mascord (1970, 1980) and Val Davies (1986) appeared. Since those times there has been much revision in rank, relationships and nomenclature of the spider families in Australia, such that it becomes difficult to keep on top of which spider goes into which family, and what is that family called now, anyway! This beautiful new book from New Holland Publishers will bring us up to speed on those nomenclature problems and give us a complete overview on the status of our knowledge of each family.

The authors give good geographic coverage of the continent. The lead author, Volker Framenau, specialist in wolf spiders, is from WA, while Barbara Baehr, who has described more Australian spiders (circa 550) than anyone else, is from the Queensland Museum in Brisbane. Paul Zborowski is a highly experienced photographer and field biologist who lived in NQ for many years and has exceptional photographic coverage of the tropical fauna. All authors have contributed to the copious photographs and many have been sourced from other photographers. It is truly unique in an Australian invertebrate field guide to have the WA fauna just as well treated as is that of the eastern states. It couldn't have been done without the fruitful collaboration of these dispersed authors.



The book starts with a nicely illustrated overview of the structure and biology of spiders then systematically treats each family in turn. Basic characters for each family are given at the beginning with a synopsis of the known and estimated total number of genera and species in Australia, compared with global diversity for the particular family. The discussion then centres on the biology and special features of the Australian members of each family with numerous colour photographs of live and dead examples. At the end an extensive bibliography of the literature for each family allows quick entry into the hard stuff for those who want to go further.

The book itself is well-presented as a chunky A5 field guide on good paper with soft covers protected by a sturdy plastic wrapper. Get one, it will last you years!





Announcements and Notices

Council Recommendations for Honorary Life Membership

At February's Council meeting, we discussed nominating people for Honorary Life Membership of the Entomological Society of Queensland. This membership status can be conferred on those of our distinguished entomologists who have served the Society well. Council has decided to put forward two nominations this year for long standing members Max Moulds and Christine Lambkin. At the March Annual General Meeting, members are required to endorse these recommendations with a majority vote. Proxy vote is available. See p190 for details.

ESQ \$500 Student Award

This is an award by the Society to encourage entomological research. Honours, Diploma and 4th year Degree students who received their qualification from any Queensland tertiary education institution in 2014 or 2015 may submit their entomology-based thesis or report for consideration.

These reports can be directed to the society's Senior Vice President at the address listed on the entry form. However, please note, a hard copy of your thesis/report does not need to be submitted, and the submission of a PDF version is encouraged. This should be emailed together with a signed copy of the completed entry form to Federica Turco at federica.turco@qm.qld.gov.au

Closing date for submissions is Friday, April 10th, 2015.

Forms available at <http://www.esq.org.au/awards.html>



Love Insects?



Looking for casual work with flexible hours??

Bugs Ed. provides in-school interactive insect workshops throughout South East Queensland.



We are looking for people to present our insect workshops to students of all ages (4-17 years).



Candidates must have excellent communication skills, be enthusiastic & skilled public speakers, and be confident in speaking to and working with children of all ages.



Candidates must hold a current Queensland driver's license, have their own car to travel to schools throughout the Greater Brisbane area and be eligible for a Blue Card.



Prior completion of entomology based subjects is desirable and excellent general knowledge in this area is essential.

Applications can be made via email to:

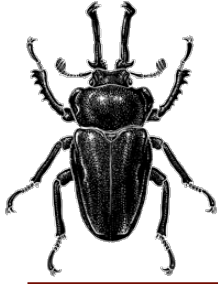
Michelle Gleeson

Email: michelle@bugsed.com

Website: www.bugsed.com



Interactive insect workshops for all ages



Diary Dates for 2015

Meetings held on the second Tuesday
of the respective month

MARCH 10	Bill Palmer	AGM and Presidential Address
APRIL 14	Michelle Gleeson	Director of BugsEd, Interactive Insect Workshops
MAY 12	Penny Mills & Yen-Po (Paul) Lin	TBA
JUNE 9	Notes and Exhibits	Student Award Presentation/ Notes & Exhibits
AUGUST 11	TBA	
SEPTEMBER 8	TBA	
OCTOBER 13	Mark Schutze	TBA
NOVEMBER 10	David Yeates	Perkins Memorial Lecture: " <i>New phylogenomic perspectives on insect evolution from transcriptome sequencing</i> "
DECEMBER 8	Notes & Exhibits	Notes and Exhibits/Christmas BBQ

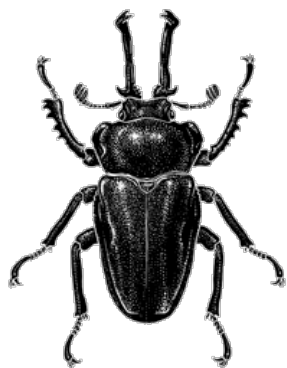
SOCIETY SUBSCRIPTION RATES

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	Student membership conveys full membership privileges at a reduced rate. Students and others at the discretion of the Society Council.	\$18pa

THE AUSTRALIAN ENTOMOLOGIST SUBSCRIPTION RATES

AUSTRALIA	Individuals/Institutions	AU\$33pa/AU\$37pa
ASIA/PACIFIC	Individuals/Institutions	AU\$40pa/AU\$45pa
ELSEWHERE	Individuals/Institutions	AU\$45pa/AU\$50pa

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



Entomological Society of Queensland



NOTICE OF NEXT MEETING

Tuesday 10th March 2015, 1:00 pm

~

Annual General Meeting

Business will include:

Presentation of Annual Reports for the year 2014

Ratification of Revised Constitution

Election of Council for 2015

Recommendations for Honorary Life Members

Presidential Address by retiring President, Dr Bill Palmer

Seminar Room 1

Ground Floor, Ecosciences Precinct Boggo Road, DUTTON PARK

More venue details available at <http://www.esq.org.au/events.html>

ALL WELCOME!

NEXT NEWS BULLETIN

Volume 43, Issue 1 (March 2015)

CONTRIBUTIONS WELCOME

DEADLINE - Friday, March 20th, 2015.

Send your news/stories/notices to the editor at: k.ebert@uq.edu.au