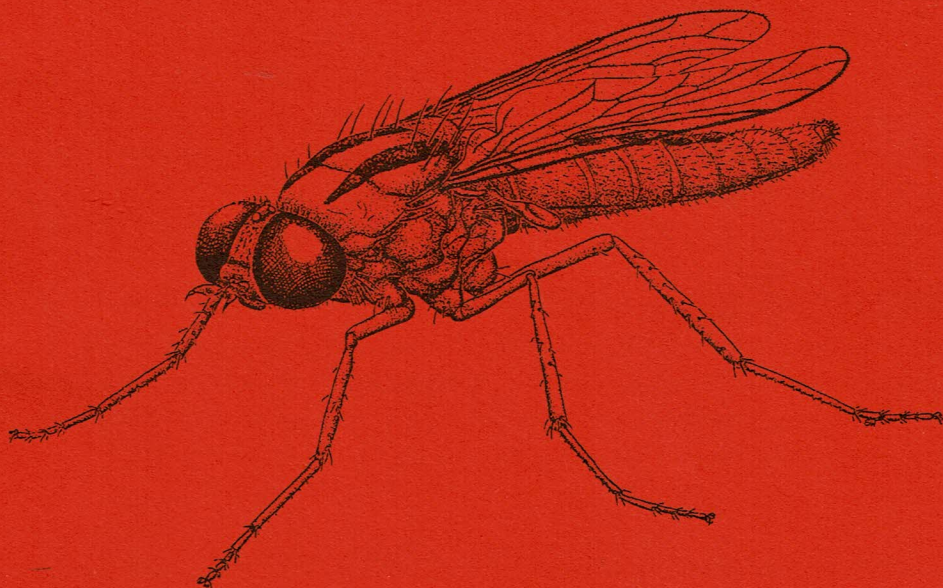




ENTOMOLOGICAL SOCIETY OF QUEENSLAND

NEWS BULLETIN



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Volume 25, Issue 8, November 1997

The **ENTOMOLOGICAL SOCIETY OF QUEENSLAND**, since its inception in 1923, has striven to promote the development of pure and applied entomological research in Australia and 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 in the Entomology Department, The University of Queensland at 6.30 pm on the second Monday of each month (March to June, August to December each year). Visitors and prospective members are welcome. Membership information can be obtained from the Honorary Secretary or other office bearers.

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 of the Australian region, including New Zealand, Papua New Guinea and 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 metallic purple and green colouration make it one of the most attractive of all Australian Coleoptera. It is restricted to the rainforests of northern Queensland.

COVER: A stiletto fly belonging to an undescribed genus and species of Therevidae (Diptera: Asiloidea) drawn by Shaun Winterton. Shaun and David Yeates are currently working on the systematics on this family, which is extremely diverse in the woodland and semi-arid habitats of Australia.

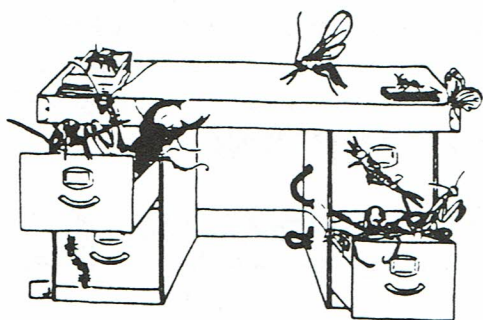
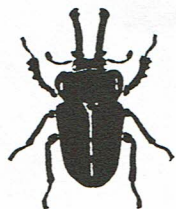


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The issue of this document does **NOT** constitute formal publication for the purposes of the "International Code of Zoological Nomenclature 3rd edition 1985". Authors alone are responsible for the views expressed.



GENERAL MEETING

Minutes of the General Meeting of the Entomological Society of Queensland Inc. held in Room 323, Hartley Teakle Building, University of Queensland, on 10 November 1997, at 6.30pm. Chaired by D. Yeates.

Attendance: S. Evans, E. Exley, G. Gordh, M. Griffiths, J. King, C. Lambkin, J. Lamy, A. Loch, P. Mackey, E.N. Marks, L. Muir, H. Nahrung, H. Proctor, E. Reye, M. Schneider, O. Seeman, A. Skivington, J. Skivington, D. Walter, S. Winterton, D. Yeates.

Visitors: K. Latimer, N. Power, D. White, J. Wright, I. Zeiner, W. Zeiner, A. Zwick.

Apologies: J. Christensen, V. Davies, C. King, D. Schlipalius, T. Withers.

Minutes: The Minutes of the last General Meeting were circulated in News Bulletin Vol. 25, Issue 7. It was moved E. Exley, seconded H. Nahrung that the Minutes be accepted without amendment.

Nominations:

The following nomination was received and put before the meeting:

Narelle Power
4 Ingal Street
Wishart Q 4122

Nominated by J. Skevington
Seconded by C. Lambkin

In accordance with the Society's rules, this nomination will be held over to the next General Meeting for election

Elections:

The following nominations were received at the last General Meeting and circulated in News Bulletin Vol.25, Issue 7.

David Schlipalius

Department of Entomology
University of Queensland
Brisbane Q 4072

Nominated by D. Yeates
Seconded by C. Lambkin

The nominee was elected by a show of hands.

General Business:

Members were reminded to RSVP by Monday 1 December for the Christmas break-up on Tuesday 8 December.

Details of the Joint Meeting with The Queensland Naturalist Club Inc. and The Butterfly and Other Invertebrates Club Inc. were given. This meeting will be held on Monday 12 January 1998 at the Queensland Museum Lecture Theatre. The speaker will be Professor Jeremy McNeil, a CSIRO McMaster Fellow visiting from Canada. Full details will be published in the News Bulletin. Prior to the joint meeting, there will be a meeting of a new reference group provisionally titled the Australian Fritillary Recovery Team. Full details in the News Bulletin.

Main Business:

‘Insect diversity in an endangered Ontario ecosystem’

by

Jeff Skivington

The University of Queensland

Jeff was awarded his Masters degree in 1993 studying with Steve Marshall at Guelth University on the subject of taxonomy of Tipulidae flies. Since then Jeff has had three years a Pinery Provincial Park as their Head Naturalist followed by a year as a consultant undertaking an inventory of

insects, birds, plants and fungi in the same area. Jeff arrived in Australia in March this year and is studying for a PhD within the Department of Entomology at The University of Queensland.

The talk focused on a globally endangered ecosystem, oak savanna. An insect inventory was carried out in one of the largest remaining patches of oak savanna in Ontario, Canada. Little was previously known about the insects of this habitat and some significant discoveries were outlined. An overview of the savanna habitat, the insects, and how the inventory was organized and funded were provided.

Lambton County is a large (299,645 ha), elongate county covering 91 km in latitude and 66 km in width. Both its size and its location on the southeast shore of Lake Huron within the Carolinian forest region guarantees that it supports a large component of Ontario's biota. The survey was carried out in the town of Bosanquet (formerly township), a small (30,596 ha), but rich region at the northernmost end of the county. Data for this project come from a survey encompassing a significant proportion of the insects found in Bosanquet. Lambton Wildlife Incorporated (LWI), a not-for-profit Sarnia-based naturalists' club, is coordinating this survey and is maintaining the list of over 2,000 species identified during this project.

The properties surveyed are representative of habitats found throughout the lakeshore area and are part of an extensive corridor of natural habitat that runs from Grand Bend to Kettle Point (24 km X 2 km). Sampling the smaller properties thus effectively samples this entire corridor. The coastal corridor of habitat retains the best examples of oak savanna and red cedar savanna in Ontario. Additionally, there are extensive areas of protected mesic forest and several high quality wetlands.

Part of the coastal corridor of existing natural habitat has been granted long term protection; however, much of this protected land is under intense human pressure (for example Pinery Provincial Park squeezes over 300,000 visitors per year onto 2428 ha). Private land holdings are quickly being purchased and developed (for example a new subdivision across from Pinery consumed approximately 32 hectares of oak savanna in 1994).

Savannas in eastern North America have all suffered dramatically since the arrival of European settlers. Fire management (ie. suppression of fires) has allowed the canopy to close in many savannas, planting of millions of conifers has closed the canopy in other areas, and development has permanently destroyed much of the original savanna habitat. The remnant oak savannas in Ontario support a variety of rare and endangered plants but little is known of their insect diversity.

From 30 May 1991 to 11 September 1994 I collected insects in oak savanna at Pinery Provincial Park. Survey work continued in 1995 and 1996 but was less intensive. This work involved hand collecting, Malaise trapping, and pan trapping throughout the summer. Spring and fall were sampled less intensively. Approximately 600 hours were spent conducting survey work in Pinery.

In 1996, survey work was expanded to include areas near Port Franks (2 km south) which had received only cursory study in previous years. Collections were made by hand, Malaise traps, pan traps, pitfall traps, light traps, and emergence traps in a variety of habitats from 1 June to 30 September. Three hundred forty-three hours were spent in the field collecting by hand. No effort was made to collect quantitative data. Target groups were designated for inventory and included groups for which excellent, recent keys are available, and groups which are of direct interest to North American systematists. Collaborating systematists included: Andrew Applejohn, Dave Caloren, Rob Cannings, Ian Carmichael, Ted Donnelly, Ben Foote, Henri Goulet, Andy Hamilton, Raymond Hutchinson, Frank Kurtzewski, Steve Marshall, Dave McCorquodale, Lawrence Packer, Xuikui Sun, Gary Umphrey, and Dick Vockeroth. Target groups included: Odonata (7 families), Orthoptera (7 families), Auchenorrhyncha (10 families), Neuroptera (Myrmeliontidae), Coleoptera (6 families), Lepidoptera (28 families), Diptera (8 families), and Hymenoptera (12 families). The result was a list of over 2,000 species of insects. Examples of diversity in some of the target groups include the following: Odonata (66), Auchenorrhyncha (94), Cerambycidae (48), Lepidoptera (594), Syrphidae (78), and Formicidae (48).

As mentioned above, the research area is located at the northern edge of the Carolinian zone. Much of the fauna characteristic of this region is rare in Ontario and is restricted to the north shore of Lake Erie. Not surprisingly, the insects also reflect this trend and many species were found that are at the northern limit of their range in Lambton County. Some examples of species that follow this pattern include: *Hetaerina americana* (Odonata, Coenagrionidae), *Enallagma civile* (Odonata, Coenagrionidae), *Enallagma traviatum* (Odonata, Coenagrionidae) (new for Canada), *Cotalpa lanigera* (Coleoptera, Scarabaeidae), *Xyloryctes jamaicensis* (Coleoptera, Scarabaeidae) (new for Canada), *Climaciella brunnea* (Neuroptera, Mantispidae), *Satyrium edwardsi* (Lepidoptera, Lycaenidae), *Asilus sericeus* (Diptera, Asilidae), *Ocyptamus fuscipennis* (Diptera, Syrphidae), *Milesia virginica* (Diptera, Syrphidae), *Sphecius speciosus* (Hymenoptera, Sphecidae).

A large component of western (prairie) species also occur in the prairie-like understory of savannas. Some of these species are hypsithermal relicts in Ontario (for example Dusted Skipper, *Atryonopsis hianna*) whereas others are post-European immigrants that follow railways and roads (for example Prairie Ringlet, *Coenonympha tullia*).

Many insects are endemic to oak savanna habitats. The best known is the Karner Blue Butterfly (*Lycaeides melissa samuelis*) (Lepidoptera, Lycaenidae). This species has become a flagship for oak savanna preservation. Its distribution and biology are relatively well known. In Ontario it was known from two sites as recently as 1991 but it is now extirpated from both. A sanctuary purchased and erected at Port Franks to preserve this species now serves to protect the many other savanna species clinging to existence in this area. For example, an ant species (*Formica obscuripes*) that was known to associate with Karner Blue larvae is very rare in Ontario and continues to survive in the Karner Blue Sanctuary.

Auchenorrhyncha discoveries helped to elucidate the significance of the research area to insects. Twenty-two species of Auchenorrhyncha were documented as new for Ontario, 16 were new for Canada, and an amazing 37 species found on the site were disjunct from their normal ranges. Only

31 disjunct species of Auchenorrhyncha occur throughout the rest of Ontario. Thus 54 percent of Ontario's disjunct Auchenorrhyncha fauna occur in this small (approximately 20 square kilometres) area of Lambton County.

Funding for a diversity project like this is always a problem. We chose to approach members of the general public and local industry for funding. Of 50 applications to corporations, over 10 were successful in attracting at least some funds. Over \$30,000.00 has been raised to date of an estimated \$50,000.00 required to complete the project (including publication costs). Publicity for the project was deemed to be of paramount importance. Much of our funding spun out of publicizing the project on local television and radio stations. We also hoped to educate as many people as possible about the significance of savanna and insect diversity. This was achieved through the above means as well as via courses taught to interested adults at a local college, one day presentations to local schools and special interest groups, and by involving people in local insect projects like butterfly counts.

Butterfly counts are conducted all over North America during a 3 week period in the summer. Individual counts must be conducted in a 24 hour period, in a pre-defined standard 25 km diameter circle. Observer effort is quantified so that some comparative quantitative data are available; however, the main contribution of these counts is towards a better understanding of butterfly distribution. The positive image to entomology conveyed through the media makes these events especially important. Ninety-seven people recorded 54 species of butterflies on the 1996 Lambton County butterfly count. Entomology is made more accessible to people using venues like these.

In summary, I hope that this project has achieved most of its goals. It has certainly lead to a better understanding of the distribution of Ontario insects, contributed to a greater knowledge of savanna-dwelling species, and increased awareness of a globally endangered ecosystem and the insects that live in it. Management of this habitat in the past focused on the response of plants to burning and other disturbances. Hopefully our project has raised the awareness that management plans need to encompass more than just plants and vertebrates. We also hope that this project will stimulate further

purchases of oak savanna habitat by groups interested in protecting it. Finally, the survey will be most valuable if it is repeated at regular intervals to monitor changes in species composition. The present study can thus stand as a baseline for future resource managers and scientists.

The Vote of Thanks was given by Chris Lambkin who recently spent a month in the field with Jeff.

There being no further business, the President closed the meeting.

NOTICE OF FUTURE MEETINGS

8 December: Notes and Exhibits Meeting and Christmas break-up, CRC for Tropical Pest Management.

9 March 1998: AGM

Please note:

The president, David Yeates, will be taking sabbatical leave from 4 December 1997 until 30 June 1998. He will spend most of his sabbatical with colleagues at the University of North Carolina (Raleigh). The Vice President of the Society, Professor Gordon Gordh, will Chair the December notes and exhibits meeting. David will deliver his presidential address at the August 1998 meeting. David wishes all members a safe and enjoyable holiday season.



PEOPLE AND PROJECTS



NEWS FROM QDNR

Alan Fletcher Research Station, Sherwood.

Allan Tomley has been releasing Groundsel bush rust, *Puccinia evadnes* from Florida, in South-east Queensland, happily a bit closer to home than his previous rust releases on rubbervine in north Queensland.

A tephritid stem gall was found by Rachel McFadyen in *Wedelia biflora*, which appears to be the first record of a native stem-boring tephritid. If anyone has any information, please contact her.

Graham Donnelly found evidence of establishment of the seed beetle, *Algarobius prosopis* on mesquite at Quilpie.

Austin McLennan and Bill Palmer are busily host-specificity testing several species of geometrids for prickly acacia, some of which look quite promising.



NEWS FROM THE QUEENSLAND MUSEUM

Brisbane

Robert Raven shot off to Cairns and the Atherton Tableland for a week in late October to spend quality time with Paul Zborowski and visiting arachnologists, Christa Deelman-Reinholdt (from Netherlands) and John Murphy (UK). Lots of wonderful live material feed the photographers in

preparation for the museum's next book, Wildlife of Greater Cairns region. It also gave Robert refreshed insight in the beauty of many of the Clubionid spiders he is working on for his ABRS grant. Christa is preparing a book on the taxonomy of spiders of SE Asia and contact with her about common genera was extremely useful. Fun finds were the infamous long sighted jumping spider, Portia, and Paul found a magnificent adult Bird dung spider (Thomisidae) to appease the film making fervour.

Robert Raven will visit Adelaide from 16-20 November to examine miturgids in the SA Museum and give a talk to a Clinical Toxinology Short Course and will spend 20-27 November in the WA Museum in Perth working on their miturgids.

Mr Kurt Walker, Curator of Tarantulas at Butterfly House, South Bank, is progressing in leaps and bounds in his knowledge of the rearing these beautiful giants.



NEWS FROM THE DEPARTMENT
OF ENTOMOLOGY
The University of Queensland

The Department was visited by Peter Gillespie, Jan Grigg, Regina Teo, and Leslie Ballantyne. Peter, from NSW Agriculture, came here for Dick Drew's fruit fly course and to check the fruit flies in the museum. Jan spent a day working on Symphyta, and Regina's interest was in the Chrysomelidae; Regina is a PhD candidate from James Cook university under the supervision of Chris Reid. Leslie is a past student of the Department and is now a lecturer at James Sturt University in Wagga Wagga. She spent 17-21 November getting some guidance on the phylogeny of Lampyridae.

Dave Walter and Heather Proctor went to Far North Queensland to collect mites. Dave concentrated on lantana, which were heavily infested with spider mites; Heather collected water mites and is experimenting with the kero-flotation method of arthropod extraction to these samples.

Jenny Beard visited Orange where she examined the Phytoseiid part of the mite collection that resides there. She was accompanied by Cathy Bryant and Owen Seeman; Cathy collected plenty of fruit samples for her Tarsonemid mite project, and Owen smashed apart logs and collected the hapless arthropods within for his project.

Jodie Christensen finishes her job at the end of December and will be beginning an honours project at the start of next year.



NEWS FROM DPI FORESTRY Indooroopilly

Brenton Peters, supervised by Myron Zalucki (University of Queensland), has been awarded his MAgrSc on "Aspects of management of subterranean termites in Queensland". Techniques were developed to quantify the change in termite responses in the field to preservative-treated softwoods (thus evaluating the protective values of such treatments) and to softwoods conditioned by decay fungi or heat (thus evaluating the potential of such conditioning to produce termite monitoring and aggregating devices for use in termite baiting).

Brenton Peters, Judy King and Ross Wylie have written a book entitled *Pests of Timber in Queensland* (Queensland Forestry Research Institute, Department of Primary Industries, Brisbane, 1996, 175pp. rrp \$25) which provides information on identification, pest biologies and economic importance of termites and borers. There is a growing trend in the community away from a heavy reliance on chemical pesticides and towards the use, where possible, of a combination of pest management practices. In this definitive work on Queensland pests of timber, the authors have emphasised an integrated approach. The book is intended for use by householders, pest controllers, the timber industry, architects, builders, government authorities, and students, and is a must for all who have an interest in timber and its protection.



NEWS FROM THE CRC FOR TROPICAL PEST MANAGEMENT

Jim Hanan is visiting INRA near Paris 17 November - 8 December to collaborate with Dr Bruno Andrieu and his team and Prof. Prusinkiewicz who will be there from Calgary.

Dr John Sheehy, IRRI, is visiting Peter Room and Tomo Watanabe at Long Pocket 26-27 November to discuss virtual rice.

Bob Sutherst, Dr Steve Harrison and Tania Yonow organised a Workshop on the 'Economic assessment of the costs of Tree Dieback under climate change' on 7 November. Some very interesting presentations and discussions were a feature of the workshop.

Bob also gave a paper entitled 'Climate variability, seasonal forecasting and insect pests - the need for a synoptic view', jointly authored by R.W. Sutherst, G. de Zylva and A. S. Bourne to the 'Symposium on Applications of Seasonal Climate Forecasting in Agricultural and Natural Ecosystems - The Australian Experience' in Brisbane on 13 November. Participants remarked that pests and climate is a sexy subject.

Please Note:

Honorary Secretary, Lynda Muir, has a new phone number:
(07) 3289 2757

The Entomological Society of Queensland invites you to the Notes and Exhibits Meeting

When: MONDAY 08 DECEMBER 1997, 6.00 pm

Where: Seminar Room, CRC for Tropical Pest
Management, Level 5 Gehrmann Laboratories,
The University of Queensland, St Lucia

Nibbles: Start at 6.00pm

Meeting: Notes and Exhibits at 6.30pm

Meal: After the meeting: Chicken and salad
(cost \$6.50)

RSVP: 01 December - contact Cathy Simpson (fax:
3365 1855, email cathy@ctpm.uq.edu.au)

ALL WELCOME!

New Member Profiles

Dr Heather Proctor:

Heather received her PhD from the University of Toronto under the tutelage of orthopterist Darryl Gwynne and odonatologist Rob Baker, although she spurned both their taxa and worked instead on water mites (Acari, Hydracarina). After 32 years of cold-adaption in Canada, she switched thermal environments and moved to Brisbane in May 1997. Heather is now a lecturer at Griffith University and she is keen to begin investigating the ecology and behaviour of Australian water mites. Her other interests include mating behaviour of arthropods, particularly arachnids and apterygote insects, and factors that influence local and global diversity of invertebrates. She also has a research interest in orchid pollination biology, but from the plants' rather than the insects' points of view.

Carolyn Ditchfield:

Carolyn Ditchfield graduated with a Bachelor of Agricultural Science from the University of Queensland in 1989. Her thesis was on the specific mate recognition of *Trichogramma* sp under the supervision of Gimme Walters.

Carolyn then accepted a scholarship to study pesticide resistance in the predatory mite *Phytoseiulus persimilis* at the University of Western Sydney, Hawkesbury under the supervision of Robert Spooner-Hart and Steve Goodwin (NSW Agriculture, Gosford). She gained a lot of hands-on experience in breeding biological agents and developing consultation with horticultural growers in the district.

Carolyn moved on to consult broad-acre farmers in northern NSW. Observations of the environmental degradation occurring throughout farming districts and a sympathetic understanding of the constraints farmers experience in adopting change led Carolyn to enroll in a Masters of Environmental Management course at Griffith University. Her aim is to acquire the necessary skills to address economic, social and environmental issues at a community level.

Notice of Special Meeting

Scientists, teachers, students, naturalists, and other interested people are invited to the following meeting co-sponsored by The Queensland Naturalists' Club Inc., The Entomological Society of Queensland and The Butterfly and Other Invertebrates Club Inc:-

Speaker: **Professor Jeremy McNeil**

Professor McNeil is visiting from Canada as a CSIRO McMaster Fellow. His professional interests include the physiology of migrating insects. Prior to this January meeting, he will have completed field work in North Queensland with Dr Don Sands, CSIRO Senior Principal Research Scientist.

Title of address:

Insect Migration with Special Reference to Butterflies and Moths

Chair: Mr Barry Jahnke,
President of the Queensland Naturalists Club Inc
and Biology teacher at St Peter's Lutheran College

Date: **Monday, 12 January 1998**

Time: 7pm for 7.30pm

Location: Queensland Museum, lecture theatre.
Entry is via the Dinosaur Garden, Grey Street

Note: Participants are encouraged to wear name tags to ease introduction.

Refreshments: tea, coffee and biscuits will be available after the meeting.

Meeting of New Reference Group

Australian Fritillary Recovery Team (provisional title)

n.b. This meeting is prior to Professor McNeil's address

This group includes representatives from the Queensland Naturalists' Club Inc, the Butterfly and Other Invertebrates Club Inc, Threatened Species Network (WWF/EA), State Department of Environment (Central and Moggill Regional Offices), Jacob's Well Environment Education Centre and local authorities, Brisbane City Council and Redlands Shire Council.

Objectives are:

- identifying suitable habitat
- replanting, as necessary, with appropriate host plants
- the eventual reintroduction of four species of butterfly currently threatened by habitat destruction viz., Australian Fritillary, Brown or Chocolate Soldier, Sword grass Brown (*morrisi* subspecies) and Painted Skipper: All require a similar high water table, Melaleuca woodland/sedgeland type habitat.

Chair: Ms Helen Schwencke

Date: **Monday, 12th January, 1998**

Time: 5pm to 6.30pm

Location: Queensland Museum, lecture theatre. Entry is via Dinosaur Garden, Grey St. Parking is available under the complex

Registration: Participants willing to be actively involved with this project are welcome. Please register beforehand with the Chair:-
Ms Helen Schwencke, Butterfly and Other Invertebrates Club Inc, P O Box 5170, West End Q 4101.

Refreshments: A light meal will be served.

The BP Conservation Program 1998

The BP Conservation Program aims to assist and encourage international teams of university students to undertake conservation research projects with a long-term impact.

All projects applying to the Program must address a conservation issue of global importance, have a strong association with the country where the project will take place and the majority of the team members must be in full or part-time education.

Four prizes of £5,000 will be give to the best projects in the four categories:

- Globally threatened species
- Oceanic islands and marine habitats
- tropical forests
- wetlands, grasslands, savannas and deserts.

Eight other prizes will receive runner-up prizes of £3,000 each.

For more information, visit the web site at:

<http://www.bp.com/conservation/>

David Yeates, Department of Entomology has copies of the guidelines and application form.

ENTOMOLOGICAL SOCIETY OF QUEENSLAND


1998

\$250 Student Award

Who: Honours, diploma, or fourth-year undergraduate students in any Queensland tertiary institution.

What: A thesis or report on an entomologically related topic examined during 1996 or 1997.

When: **Applications close 4 March 1998.**

Send thesis/report and completed entry form to  The Secretary, Entomological Society of Queensland, c/- Entomology Dept., The University of Queensland, Brisbane Q 4072.

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

Entrants need not be Society members.

If the standard of entries is too low an award may not be given.

Student Award sponsors

- ★ Arrest-A-Pest Pty. Ltd.
- ★ Rhone-Poulenc Rural Australia Pty. Ltd.
- ★ Ciba-Geigy Australia Ltd.
- ★ CRC for Tropical Pest Management.

Enquires should be directed to the President, David Yeates

☎ 07 3365 2217 or any Office Bearer of the Society.

ENTOMOLOGICAL SOCIETY OF QUEENSLAND
1998 Student Award
Entry Form

Name:

Title of thesis/report:

Institution:

Degree:

Supervisor:

Date of examiners report/grading:

Address for return of thesis/report:

Signature

Date

Applications close **4 March 1998.**

Send thesis/report and completed entry form to:

☛ The Secretary, Entomological Society of Queensland,
c/- Entomology Dept., The University of Queensland, Brisbane Q 4072.

Guidelines for the Student Award

- Held annually.
- Prize of \$ 250.00
- Open to Honours, Diploma and 4th year Degree students at any Queensland tertiary institution.
- Project or report on an entomologically-related topic.
- Project/report must have been submitted to institution during the two years preceding the year of the Award.
- An unsuccessful candidate may re-enter the following year by invitation from the Council.
- Council will consider bringing a country winner of the Award to Brisbane for the presentation on a year-by-year basis.
- A panel of 3 judges to be selected by the President,
- The main criterion for judging is 'scientific merit', and if 2 or more entries are of equal scientific merit then 'interest to members' is the second criterion.

SOCIETY SUBSCRIPTION RATES

- ORDINARY:** Persons resident within the municipality of Brisbane - \$23pa (\$20 if paid by AGM).
- COUNTRY:** Persons resident elsewhere - \$21 pa (\$18 if paid by AGM).
- JOINT:** Couples in either of the above categories who share a copy of the *News Bulletin*, but each otherwise have full membership privileges.
Ordinary - \$30 pa (\$27 if paid by AGM).
Country - \$27 pa (\$24 if paid by AGM).
- ASSOCIATE:** Students and others at the discretion of the Society Council - \$15 pa (\$12 if paid by AGM). Associate Membership conveys full membership privileges except the right to vote on the conduct of affairs of the Society, to hold office and to nominate new members.

THE AUSTRALIAN ENTOMOLOGIST SUBSCRIPTION RATES

- AUSTRALIA:** Individuals A\$16 pa Institutions A\$20 pa
- ELSEWHERE:** Individuals A\$20 pa Institutions A\$22 pa

Subscriptions should be sent to the Business Manager, *The Australian Entomologist*.

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NOTICE OF NEXT MEETING

The next meeting of the Society will be the **Notes and Exhibits meeting and Christmas break-up**, at 6.30 pm on **Monday 08 December** at the CRC for Tropical Pest Management, Level 5, Gehrman Laboratories, Research Road, UQ. Refreshments will be served before the meeting at 6.00 pm in the Seminar Room.

VISITORS ARE WELCOME