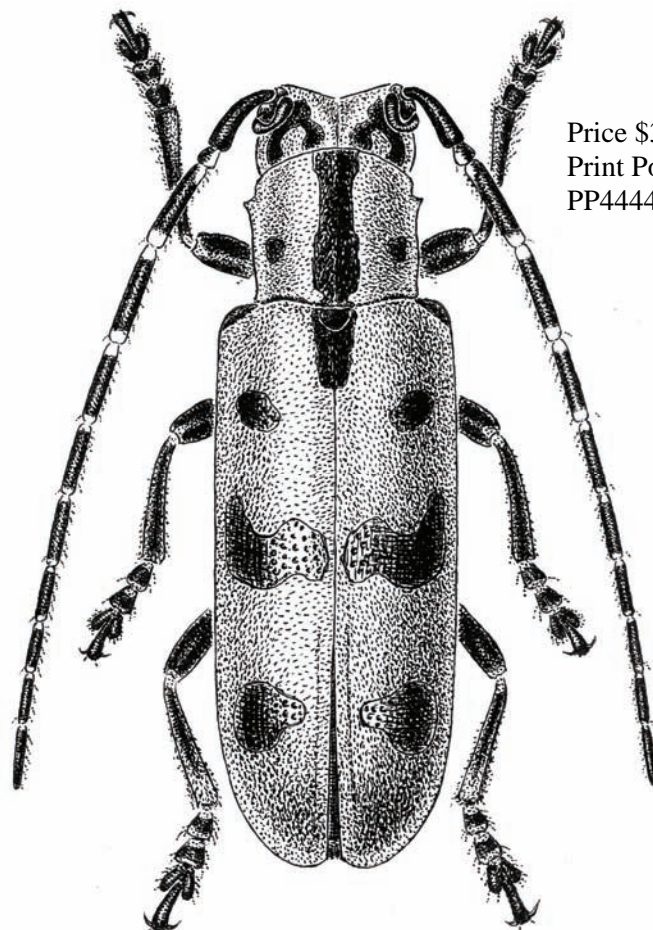




ENTOMOLOGICAL SOCIETY OF QUEENSLAND INC NEWS BULLETIN



Price \$3.50
Print Post Approved
PP444461/0003

Volume 38, Issues 9/10
December 2010/January-February 2011

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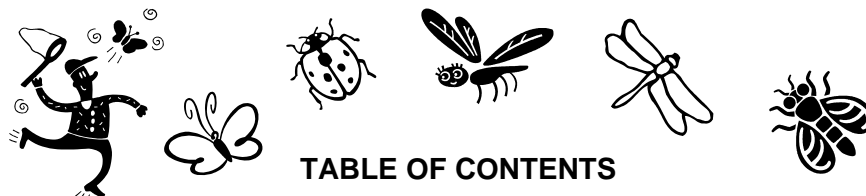
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Front cover illustration: Habitus of *Zygrita diva* Thomson (Coleoptera: Cerambycidae), the lucern crownborer—artist William Manley, scanned from original illustration
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ISSN 1037-2989



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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. 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. 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. 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.

Minutes of General Meeting

Held in the Small Conference Room, CSIRO Entomology, Long Pocket Labs, 120 Meiers Road, Indooroopilly, on December 13, 2010.

Chair: Lyn Cook

Attendance: Richard Bull, Lyn Cook, Cory Dale, Murdoch DeBaar, Phillippe Gonin, Ross Kendall, Judy King, Chris Lambkin, Bradley McNeil, Penny Mills, Mike Muller, Don Sands, Noel Starick, Geoff Thompson, Desley Tree, Federica Turco, Andy Wang, Susan, Geoff and Olivia Wright.

Visitors: Nancy Fraser-Law.

Apologies: Justin Bartlett, Bill Crowe, Gary Fitt, John Holt, Mark Hunting, Stacy McLean, Chris Moeseneder, Geoff Monteith, Matt Purcell.

Minutes: The minutes of the last General Meeting were circulated in the News Bulletin Vol. 38, Issue 8, November 2010.

Moved the minutes be accepted as a true record: Murdoch DeBaar.

Seconded: Geoff Thompson.

Business arising

1. A reminder that this is the last meeting at CSIRO Indooroopilly, from next year we will be meeting at the Ecosciences Precinct, Boggo Rd, Dutton Park.

Nominations for Membership:

None.

General Business:

1. Reminder that subscriptions for 2011 are due.
2. Meetings in 2011 will be held at the new centre at Boggo Rd. The exact location within the complex will be advised in the Bulletin early next year. Street parking is available around the site, for a maximum of two hours. Public transport (train or bus) is also available, more details about the street location and transport will be given in the next Bulletin.

3. The Student Award has been increased to \$500.00 for 2011, and the Society thanks Professor Dick Drew for his continuing support of the Award. Application forms and criteria will be included in the next Bulletin.

Main Business

The Main Business was five Notes and Exhibits presentations as follows:

New Insect-Imaging Systems

Geoff Thompson, Queensland Museum

Atlas of Living Australia is a Federal Government project in partnership with museums and herbaria throughout Australia to improve access to biological data. They have developed infrastructure to get the data onto the web. <http://www.ala.org.au/> They are also prepared to provide funds for partner institutions to purchase equipment that makes the creation and dissemination of data and images more efficient.

Recently they supported me to fly down and assess the Visionary Digital system in John Jennings' lab at University of Adelaide, during its installation and training phase. I had met Roy Larimer, the inventor and supplier of the system, on my Queensland-Smithsonian Fellowship in 2005 and once again in 2008, when he installed a system for Gerry Cassis at UNSW. In 2009 I was also able to use the UNSW system to take a number of photographs while working for Gerry for three months.

Ever since I first used one of Roy's systems at the Smithsonian's National Museum of Natural History I have admired them. I consider them the best and fastest systems for producing high-depth-of-field images of insects and other small specimens.

Each system Roy builds is different to the last and this latest version is a fabulous machine. <http://www.visionarydigital.com/IntegratedSystems1.html>

The system uses fibre-optic flash for smaller specimens and reflected flash from studio flash heads for larger ones. The core of the system is a patented, motorised lift, which carries a Canon EOS 7D with an inline microscope attached or a Canon EOS 5D with a Canon macro lens. Both these camera setups have a quick-release back plate for easy interchange. The inline microscope has a number of lenses available for different magnifications, right down to metallurgical microscope objectives.

The flash power pack delivers flash through four fibre-optic tubes. Each is supported by an adjustable goose-neck stand mounted on

a magnetic base. A small lever on each base raises a magnet far enough from the steel base plate to allow it to be easily repositioned. A similar lever on the goose-neck support de-tensions a central cable so it can be moved in space and then locked in position. Each fibre-optic tube has an iris diaphragm on the end to allow adjustment of light and Roy has developed various clever gizmos to give even, adjustable background light. He has also calibrated every lens, even the Canon zoom lenses, for scale and focus overlap.

The system utilises shareware montage software, Helicon Focus and Zerene Stacker to take the sharply-focussed elements out of a series of photographs and combine them into one sharp image. Because the lift moves the camera to change focus, rather



General view of the University of Adelaide system with inventor Roy Larimer at the controls.

than utilise the auto-focus control of the lens, there are no problems with change of scale and the calculated scale lines are accurate.

Each system has a computer built from scratch with the latest components selected for the fastest possible image processing, often using technology developed for gaming machines. The latest computer opens in 14 seconds using Windows 7 and opens Photoshop CS5 in a second. It can also process an 18 megapixel image in Helicon Focus in less than a second. Because the lenses are calibrated for the minimum number of exposures needed to achieve focus overlap, fewer photographs are taken than with a manual system. All this means that this system can take and process a montaged image in less than two minutes, a task that would take my current system about 30 minutes, with a smaller and optically-poorer final result.

The combination of incredibly-flexible lighting adjustment, flash through fibre optics and studio systems, high-quality in-line optics with a great range of magnifications, replaceable standard cameras, automated shooting and fast montaging make this system a joy to use.

In the USA they are used by varied clients from museums to the FBI. Currently I know of three in Australia and I hope we see more installed in this country.

Another possible photographic tool is use of a medium-format Hasselblad camera to take shots of whole drawers. This can be done in a fraction of the time it takes to scan the drawers on some rival systems. The flash lighting gives sharp clear shots and these can enable zooming in on individual specimens. Some tests have been done using a very basic setup and results were impressive.



Left: Camera with in-line microscope on patented lift.



Right: 'Studio dynalite' flash generator unit.

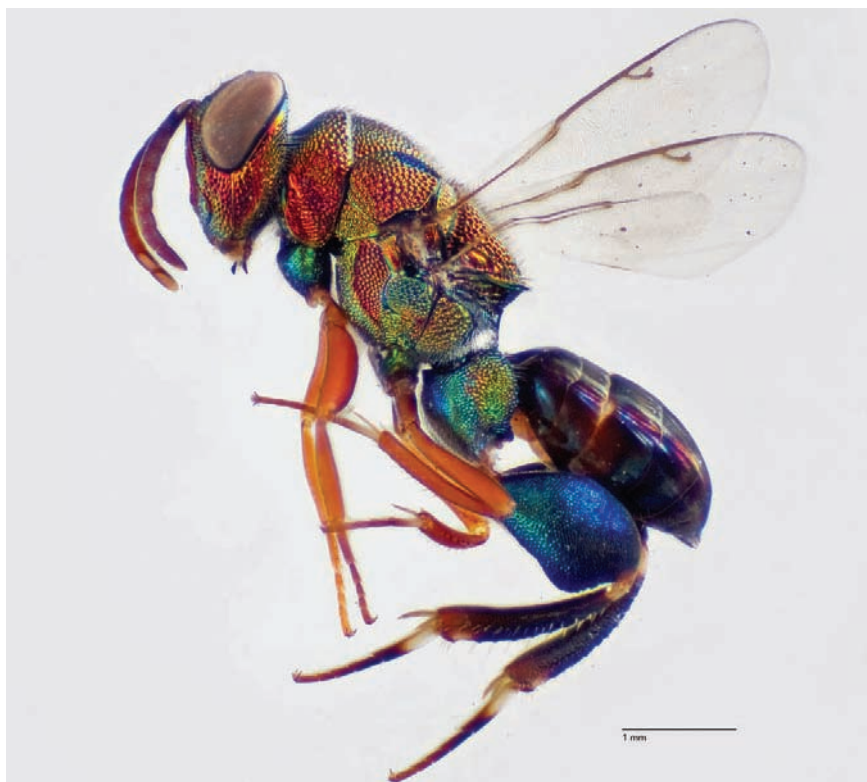


Above left: Fibre optic flash element with goose-neck support on magnetic base.

Above right: Base of fibre optic flash element with adjustment lever and on-off switch.

Below: Close-up of iris diaphragm at the end of the fibre-optic tube.





Top: Single shot of Pteromalid wasp taken of a specimen floating in alcohol by Kate Muirhead.
Bottom left: Cuckoo wasp taken and montaged on Adelaide system by the author. **Bottom right:** detail of abdomen. **Opposite top left:** detail of head and thorax.



Studying *Cameronella* wasps

Andy Wang, University of Queensland

The dart-tailed wasp *Cameronella* (pictured below) is a specific parasitoid of the gall-inducing scale insect *Apiomorpha*. The common name of the wasp is indicative of the most distinctive feature of the genus – the dart-shaped tail of adult females formed

by the epipygium. Combined with its relatively large size for chalcoids (4-15mm), *Cameronella* is one of the most bizarre groups of Pteromalidae occurring in Australia.

The most recent literature on the taxonomy and systematics of *Cameronella* was published more than 70 years ago. There are seven species currently recognized in Australian Faunal Directory (ABRS) but there has been no recent revision and most of the type material is held in overseas institutions. The wasp is relatively rare and there are only 48 specimens held in the Australian National Insect Collection (ANIC). Furthermore, there is only one specimen in the Qld DEEDI collection and only one more in the UQ Insect Collection. The lack of specimens is making my systematic revision of the genus difficult. However, taxonomic and phylogenetic study of the group is a priority for understanding the evolution of the “dart tail” and parasite-host relationships of the scale insect and the wasp. In the end, if you found any of them, I would be so much appreciated that you could share the precious information with me via andyncode@hotmail.com.



Relocation of Queensland Primary Industries Insect Collection

Desley Tree, DEEDI Insect Collection

The Queensland Primary Industries Insect Collection has been housed at the Indooroopilly Research Centre, Longpocket Brisbane, since 1976. The collection holds over one million specimens, predominately species of economic importance. At the end of 2010 this large collection was relocated to a new building – Ecosciences Precinct (ESP), Boggo Rd, Dutton Park, Brisbane.

The pinned collection, held in timber cabinets at Indooroopilly, were transferred into new timber drawers which are now housed within a custom designed electronic Compactus shelving system at ESP. Four and a half thousand new timber drawers made of poplar timber were ordered from the USA.

The preparation for this move started early 2010 and a team of volunteers was organized to work on transferring the specimens

into the new drawers in exchange of acquiring the old timber cabinets. The jobs were many and varied and they all greatly contributed to the success of the move. Many volunteers were retired or amateur entomologists and it was valuable to have their expertise. I am sure they all enjoyed catching up with each other too.

The alcohol collection was transferred from steel drawers to large glass jars filled with alcohol to prevent evaporation of alcohol within the vials and then stored on steel shelves in a purpose built room.

The move progressed very smoothly, thanks to the many helpers and staff, and the collection is now unpacked and loaded into its new facilities.





Far left: Old style timber 14-drawer cabinet at Indooroopilly; **Left:** New poplar drawers in compactus at Boggo Rd; **Above:** Previous storage system for alcohol collection at Indooroopilly; **Right:** New storage shelving for alcohol collection at Boggo Rd.



CQ BUSH BLITZ (Preliminary field work), October and November 2010

Chris Lambkin and Noel Starick,
Queensland Museum

Bush Blitz is a three year multimillion dollar program to document the plants and animals in hundreds of properties across Australia's National Reserve System (NRS). The core focus is on nature discovery – identifying and describing new species of plants and animals.

The program is a partnership between the Australian Government, global resources company BHP Billiton, not-for-profit conservation research organisation Earthwatch and rangelands survey network AusPlots.

Bush Blitz is coordinated by the Australian Biological Resources Study (ABRS), and focuses on recent additions to the NRS. It funds field work that provides more complete lists of the biodiversity in each reserve and encourages post-survey taxonomy (species discovery science) to sort out the naming and conservation status of key problematic groups across the Australian flora and fauna.

The Queensland Museum was asked to collaborate with the Queensland Herbarium,

and DERM to complete Bush Blitz field work of newly acquired sections of Nairana, Cudmore, Albinia Downs, Humbolt, and Lonesome Holding National Parks (NP) and the Bush Heritage properties: Edgbaston Station, Goonderoo, and Carnarvon Station in late November and early December 2010.

Chris Lambkin suggested that to maximise the potential to collect new species of invertebrates, Malaise and pitfall traps should be set up across the reserves about a month before the collaborative group of scientists completed their Bush Blitz field work.

In late October, following Backyard Explorer activities from Gladstone to Emerald, Chris and Noel Starick set off from Emerald for Nairana NP, 16 km south of Belyando Crossing. Two sites were chosen, on either side of the Gregory Developmental Road, one in the south in open Eucalyptus woodland with spinifex understorey and the other in the north in closed Acacia where water remained from the intense August and September rain. At each site a Malaise and two 2L pitfalls were set, and hand netting targeted flying insects including dragonflies and butterflies. Additionally, over two days we hand collected across a wide range of habitats, including Spinifex grasslands, rocky outcrops, hilltops, dry gullies, and water bodies. Light sheets were run each night.



Figure 1. Lake Eliza on Nairana NP proved a good spot for dragonflies. Melaleuca stand in Cudmore NP.

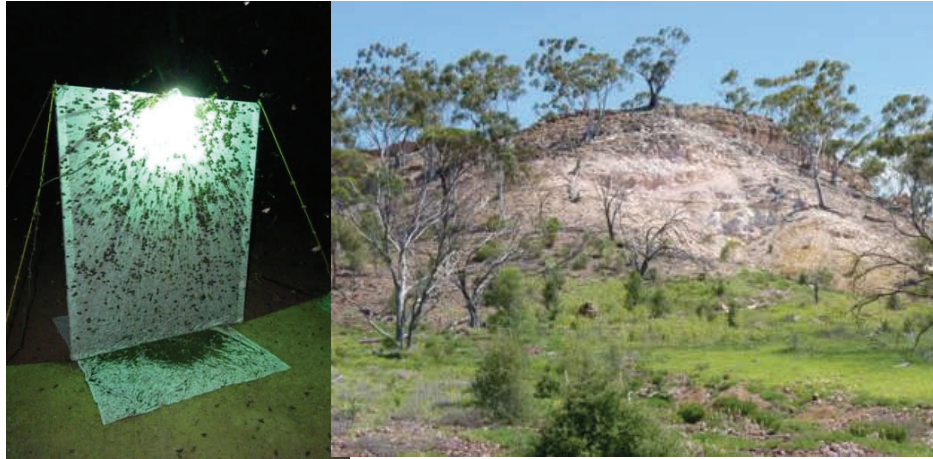


Figure 2. Edgbaston Station, north-east of Aramac, provided the best light sheets of the trip, with a large number of noctuids covering the sheet and hanging from the support ropes. Many butterflies were collected on and around Aramac Range.

Chris and Noel met up with the Australian Museum team of Dan Bickel and Geoff and Barron Williams at Cudmore NP, 150 km west of Clermont. Three sites were chosen in this amazingly diverse National Park, in a strange gnarled paperbark stand on a rocky outcrop, a sandy area covered with dense flowering heath, and in tall Eucalyptus woodland with dense Spinifex. Over three days we hand collected in flowering heath, on rocky outcrops, and among Spinifex.

At the Bush Heritage property, Edgbaston Station, 35 km north-east of Aramac, we met Adam Kerezsy and Leanne Faulks who introduced us to the endangered Edgbaston Goby (a fish) in the shallow springs as well as accompanying us during hand collection on and around the rugged Aramac Range. One site was chosen among the Melaleucas fringing the floodplain.

An incident with the trailer near the Bush Heritage property Goonderoo delayed the trip for a day, while a replacement was hired, clothes and bedding dried and washed, and gear repacked. One site was chosen in closed Eucalyptus/Acacia Woodland at Goonderoo, near Fernlees, south of Emerald.

Onto Albinia Downs NP, just west of Rolleston where a site was chosen on a rocky bank above the Melaleucas fringing the creek surrounded by dense towering grass.

The Australian Museum team again joined us again at Rolleston and, accompanied by the rangers Alex Whitehead and Barry Spooner, we all travelled 60 km to the north to rugged Humbolt NP where we traversed the grass obscured tracks to the Lancewood forest. We set up traps at two sites; one within the Lancewood and the other near our campsite in open Eucalyptus and Acacia woodland with flowering Leichardt bean near a water-bird covered dam.

Lonesome NP, north-east of Injune, includes abrupt sandstone scarps and fertile riverine flats along the Dawson River. We chose 2 sites, one near the lookout on the top of a sandstone ridge, the other on a small hillside near the campground. Many butterflies were collected among the flowering herbs near the campground next to the river. We set up the light sheet each night at Lonesome Station about 14 km away.



Figure 3. Closed Eucalyptus/Acacia Woodland at Goonderoo. Not as many aquatics as expected were attracted to the light sheet at Albinia Downs NP.



Figure 4. Geoff Williams, Alex Whitehead, Chris Lambkin, Dan Bickel and Barry Spooner exploring Humbolt NP. A number of ornate burrowing frogs distracted the party emerging from the sand the vehicles had just driven over.



Figure 5. Sandstone scarps fringed with Brigalow on Lonesome NP, north-east of Injune. Chris and rangers Dan Beard and Steve Reeves on the rocky summit of Mt Moffatt.



Figure 6. Chris and Cathy Zwick hand collecting along the scarp at Swer Lookout on Carnarvon Station. Over a thousand specimens were collected at light sheets and hand collecting. While many butterflies were set at night while light sheets were run, volunteers at the QM have been busy setting.

The Mt Moffatt section of Carnarvon National Park was included in the field work as Chris wanted to collect hilltopping flies from the summit of Mt Moffatt. We met up again with the Australian Museum team, who were finishing their collection of the Mt Moffatt section. The August and September rains had aided the recovery from the widespread fires of 2009 and much of the flora was just coming into flower. Three sites that had suffered little fire damage were chosen with the aid of chief ranger Mike Spinaze, one in open Eucalyptus woodland, the other two near *Callitris* stands, all among flowering heath. Mt Moffatt was conquered by Chris and Noel accompanied by rangers Dan Beard and Steve Reeves, but overall the catch of flies and butterflies was disappointing possibly due to the late season, the fires, or maybe the widespread food resources available throughout the park.

Our efforts to access Bush Heritage property, Carnarvon Station, 40 km away to the west via Dooloogarah Station were impeded by a boggy creek crossing requiring back tracking, but still saving us travelling a considerable distance round via Morven. Carnarvon Station, at the headwaters of the Warrego, was covered with lush, high grass. Chris Wilson accompanied us while

we set traps near Piebald Spring and in a stand of *Brigalow*. Cathy Zwick joined us setting traps near a stand of *Callitris* and hand collecting near Billabong Camp and along the scarp at Swer Lookout.

Across the nine reserves we set up 18 Malaise traps and 36 pitfalls as well as nightly light sheets, and hand collected and sweep netted over two and a half weeks. While we were able to avoid rain during our field work, unfortunately significant rainfall and predictions of even more, postponed the CQ Bush Blitz. Rangers had been given sufficient equipment to take the samples from the Malaise and pitfall traps every two weeks, and were advised to take the samples monthly instead, and remove the Malaise traps following two samples, when access to the traps was possible. We were advised in late November that some of the pitfalls had been flooded. In early December, Robert Raven left extra propylene glycol with rangers at Longreach, Clermont, and Springsure, and accessed the traps at Nairana and Goonderoo, removing the Malaises, and taking samples while on a collecting trip for mygalomorphs. Just before Christmas, Carnarvon Station recorded a daily rainfall of 247 mm. There are rumours that if you need a flood, just ask Chris and Noel to put in traps!!!

ESQ Sponsored Display Cases in Bunya Mountains National Park, Dandabah

Chris Lambkin, Bryan Cantrell, Noel Starick

On the weekend of 21-22 March 1987, the Entomological Society of Queensland (ESQ) conducted an excursion to the Bunya Mountains National Park, in a precursor to the current Bug-Catch activities. ESQ members donated specimens and two display cases were compiled for the National Park Information Centre at Dandabah. Bryan Cantrell and the late Neil Gough were the instigators of this initiative, which proved to be a popular display with the visiting public. Over the last twenty years some specimens faded and others were ravaged by pest insects, so the display needed updating. As the QPWS Information Centre is undergoing an upgrade, the Rangers were keen to have us conduct a Bug-Catch in order to supply a list of insects seen and collected, and to include new specimens in an updated display.

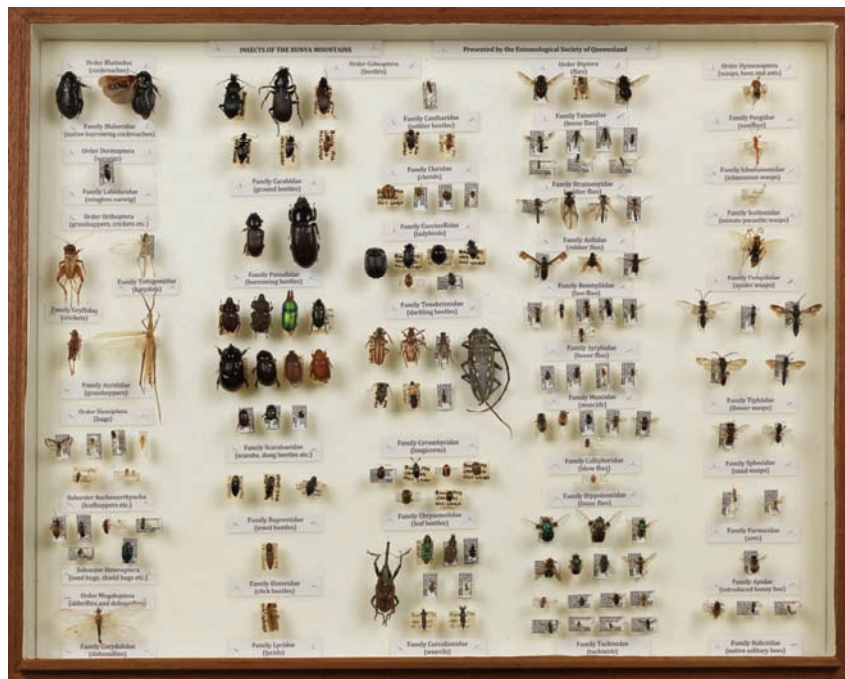
Therefore the 17th Bug-Catch was held at the Bunya Mountains National Park from 26-28 February 2010 with 17 members and visitors collecting insects including Bryan Cantrell, Peter Hendry, Chris Lambkin, John Moss, Noel Starick, and Fede Turco from Brisbane; Wes Jenkinson from Beaudesert; Joshua and Jeff Barrie from New Beith near Jimboomba; Paul Priebbenow, Zara Ludgate and Jason Hall from Toowoomba; Alberto Guanilo from Mundubbera; and entomologists Peter Gillespie, Holger Loecker, Chris Bloomfield, and Cecilia Lawler from Orange NSW. Collecting concentrated on Mt Kiangarow near the Burton's Well camping area and also sampled grasslands, eucalypt forest, rainforest and vine scrubs at Mt Mowbullin, Ensor Rd behind the Presbyterian Camp, Paradise Falls track, Cherry Plains to Westcott track, and the Pine Gorge track. We ran light sheets on Friday and Saturday nights at Burton's Well.

The two display cases were retrieved from the Dandabah QPWS Information Centre and returned to the Queensland Museum for refurbishment, under the care of Chris Lambkin. Bryan, Noel and Chris worked on the drawers, replacing deteriorated material with specimens collected over the weekend that members set and prepared for the display. The display now comprises the following insects:

Order Blattodea Family Blaberidae (native burrowing COCKROACHES); Order Dermaptera Family Labiduridae (wingless EARWIG); Order Orthoptera Family Acrididae (GRASSHOPPERS), Family Tettigoniidae (KATYDIDS), Family Gryllidae (CRICKETS); Order Hemiptera Suborder Auchenorrhyncha (LEAFHOPPERS etc.), Suborder Heteroptera (seed BUGS, shield bugs etc.); Order Megaloptera Family Corydalidae (DOBSONFLIES); Order Coleoptera Family Carabidae (ground BEE-TLES), Family Passalidae (burrowing beetles), Family Scarabaeidae (scarabs, dung beetles etc.), Family Buprestidae (jewel beetles), Family Elateridae (click beetles), Family Lycidae (lycids), Family Cantharidae (soldier beetles), Family Cleridae (clerids), Family Coccinellidae (ladybirds), Family Tenebrionidae (darkling beetles), Family Cerambycidae (longicorns), Family Chrysomelidae (leaf beetles), Family Curculionidae (weevils); Order Diptera Family Tabanidae (horse FLIES), Family Stratiomyidae (soldier flies), Family Asilidae (robber flies), Family Bombyliidae (bee flies), Family Syrphidae (hover flies), Family Muscidae (muscs), Family Calliphoridae (blow flies), Family Hippoboscidae (louse flies), Family Tachinidae (tachinids); Order Hymenoptera Family Pergidae (sawflies), Family Ichneumonidae (ichneumon WASPS), Family Scelionidae (minute parasitic wasps), Family Pompilidae (spider wasps), Family Tiphidae (flower wasps), Family Sphecidae (sand wasps), Family Formicidae (ants), Family Apidae (introduced honey bee), Family Halictidae (native solitary bees). Order

Lepidoptera BUTTERFLIES Family Nymphalidae (Nymphs) Wonder Brown *Heteronympha mirifica*, Bank's Brown *Heteronympha banksii*, Common Brown *Heteronympha merope*, Ringed Xenica *Geitoneura acantha*, Brown Ringlet *Hypocysta metirius*, Meadow Argus *Junonia villida*, Yellow Admiral *Vanessa itea*, Lesser Wanderer *Danaus chrysippus*, Monarch *Danaus plexippus*; Family Lycaenidae (Blues) Imperial Hairstreak *Jalmenus evagoras*, Common Grass-blue *Zizina labradus*; Family Hesperidae (Skippers) Greenish Grass-dart *Ocybadistes walkeri*, Spotted Sedge-skipper *Hesperilla ornata*, Barred Skipper *Dispar compacta*, Dingy Grass-skipper *Toxidia peron*, Chequered Grass-skipper *Anisynta tillyardi*, Orange Ochre Trapezites *eliena*, Bronze Flat *Netrocoryne repanda*; Family Pieridae (Whites & Yellows) Yellow Albatross *Appias paulina*, Caper White *Belenois java*, White Migrant *Catopsilia pyranthe*, Lemon Migrant *Catopsilia pomonae*, Southern Pearl-white *Elodina angulipennis*, Small

Grass-yellow *Eurema smilax*, Large Grass-yellow *Eurema hecabe*; Family Papilionidae (Swallowtails) Four-barred Swordtail *Protographium leosthenes*, Macleay's Swordtail *Graphium macleayanus*, Orchard Swordtail *Papilio aegeus*, Chequered Swordtail *Papilio demoleus*; MOTHS Family Sphingidae (Hawk Moths) *Acosmeryx miskini*, *Hippotion scrofa*, *Macroglossum hirundo*, *Nephele subvaria*, *Agrius convolvuli*; Family Hepialidae (Swift Moths) *Oxycanus sp. (adult & larva)*; Family Anthelidae *Anthela acuta*; Family Lasiocampidae *Eremaea zonosipilia*; Family Arctiidae *Spilosoma canescens*, *Amata sp.*, *Spilosoma curvata*; Family Agaristidae *Agarista agricola*; Family Noctuidae *Dasypodia cymatodes*, *Ophiusa disjungens*, *Nagia linteola*, *Serodes campana*, *Avatha discolor*, *Ariathisa cortisigne*, *Ariathisa atra*, *Trichoplusia orichalcea*; Life cycle of *Teia anartoides*, the painted apple moth (Family Lymantriidae) adult male; adult female (wingless); larva; pupal case; parasitic fly, *Winthemia sp.* (Family Tachinidae).





Above and previous page: Display cases renovated for the QPWS Information Centre. These photographs were taken by Geoff Thompson with a Hasselblad HD450 MS Camera in 4-shot mode with an 80mm F2.8 lens. The camera and Bowens 1000R PRO studio flash units were kindly loaned by C.R. Kennedy & Co. to test rapid whole-drawer imaging in the Queensland Museum collection. See Geoff's Notes & Exhibits article for more information.

Vote of thanks to speakers : Penny Mills.

General Meeting, and will be held at the Ecosciences Precinct, Boggo Rd, on Monday March 14.

Chairman's closing statement:

The next meeting will be the Annual

ANNUAL REPORTS FOR THE YEAR 2010



Presidential Report for 2010

I was truly humbled to be nominated and accepted as President of the Society in 2010. What a great honor to represent such a long-standing and distinguished Society. When I look back through previous Presidents and councillors I am in awe of their great contributions to Entomology, both professional and amateur. On accepting the position I set about contacting potential speakers for the coming year. Given the makeup of the membership, I tried to strike a good balance in the substance of talks so that they would be in line with the broad interests of the Society. Nancy Schellhorn and Alejandro Costamagna outlined their research on dealing with problems in agricultural landscapes. Martin Shivas explained the problems of biting midges in the Brisbane region and to my relief was able to give sound reasons for the sustained attacks I had been subjected to along the banks of the Brisbane River at CSIRO Indooroopilly on many afternoons. Don Sands elucidated the links between insects that break down forest litter and fire management regimes, Ross Kendall spoke about his great passion for raising butterflies for a living while Bill Crowe terrified us all with "Australia's Most Unwanted" outlining the myriad of foreign insects invading or attempting to invade our country's shores. I was pleased the Society awarded the Student Award in 2010 after no nominations were received in 2009. Congratulations to Penny Mills who also gave a wonderful presentation on her winning submission on the genetic characterization of the *Apiomorpha minor* group (Hemiptera: Sternorrhyncha). I'm pleased

that Council has agreed to increase the size of the Student Award to \$500 in 2011 in recognition of its importance to the Society. Funds to support the award are kindly provided by our Sustaining Associate Dick Drew and the Tropical Fruit Fly Research Group. We also had many exceptional notes and exhibits at our June and December meetings which leads me to a very sad point. It was with great sadness that we recently learned of the death of Murdoch DeBaar, a true stalwart of the Society. It was fitting that Murdoch was able to present on his favorite butterflies at the June Notes and Exhibits. He will be sorely missed by all in the Society and his passing is a great loss to Entomology. Thanks to all of the speakers who kindly donated their time throughout the year.

I would also like to acknowledge what an outstanding job Council has performed in 2010. As Secretary, Judy King has been diligent in circulating all of the relevant material and correspondence and ensured correct procedures were followed at all times. Our Treasurer Desley Tree has kept a keen eye on the books which indicate the Society is on a sound financial footing. From personal experience, I know how difficult and time consuming the Treasurer's position can be and Desley has been outstanding. It was encouraging to see that after evaluation no subscription fee increases would be needed in the near future. One of the major reasons for this is the outstanding commitment of Justin Bartlett as News Bulletin Editor. In his first year Justin located a new printing firm whose charges were substantially less than those incurred previously by the Society. The production of the Bulletin is always a time consuming task made all the more difficult this year for Justin by the arrival of a new baby at home. Our Junior Vice-President and Permits Officer Chris Lambkin has carefully overseen the requests of members for collecting permits and ensured that all returns were received in a timely fashion. Chris and Geoff Monteith also organized the

Bug-Catch Program which included maintenance of the collection held at the Bunya Mountains. On a relevant note I would like to thank Don Sands for his tireless work as Endangered and Protected Species Permit Officer (non-Council voluntary position) over many years. Don retired from this position this year and this permit will not be continued by the Society. Don also deserves congratulations being awarded the Australian Natural History Medallion in 2010 with the support from the Society. As Business Manager of the *Australian Entomologist*, Geoff Monteith has continued to ensure the affairs of the Journal are all in order and on a sound financial footing. To the remaining Councillors, Geoff Thompson, Federica Turco, Richard Bull and Lyn Cook (Senior Vice-President), thanks for all of your assistance and insightful thoughts at council meetings this year.

The end of 2010 also marks another milestone for the Society with its last General Meeting being held at CSIRO Long Pocket in Brisbane where they have been hosted for several years. In 2011 meetings will be held at the new Ecosciences Precinct at Dutton Park. Like Long Pocket, there is a core of keen entomologists from the Queensland Government state departments and CSIRO at this new facility which should help to boost attendances as it had at CSIRO. Thanks to all members of the Society who actively attend meetings or keep abreast of happenings through our main communication channel, the all-important News Bulletin.

Throughout 2010 it was heartening to see the steady flow of new members. Given that so many are students all bodes well for the future of the Society; it's in good hands. I would finally like to thank the Society for bestowing on me the honor of being President this year, I have enjoyed it immensely.

Matthew Purcell
President

Honorary Secretary's Annual Report for 2010

Attendance at Council meetings.

Nine Council meetings were held during 2010. The meeting in September was cancelled due to lack of a quorum.

Council members are listed below, with the number of meetings attended:

President:	
Dr Matthew Purcell	6
Senior Vice President:	
Dr Lyn Cook	4
Junior Vice President:	
Dr Christine Lambkin	8
Secretary:	
Dr Judy King	7
Treasurer:	
Desley Tree	7
News Bulletin Editor:	
Justin Bartlett	2
Australian Entomologist	
Business Manager:	
Dr Geoff Monteith	6
Councillor (outgoing)	
Richard Bull	5
Councillor:	
Geoff Thompson	9
Councillor:	
Dr Federica Turco	5
Councillor (outgoing):	
Anna Marcora	1
Councillor (outgoing):	
Noel Starick	2

Membership

Twenty one full members and one student member were elected to the Society, and four members resigned.

Student Award.

Penny Mills won the Student Award. Penny is a postgraduate student at the University

of Queensland. The award was given for her Honours project: 'How many species are there in the *Apiomorpha* minor group (Hemiptera: Sternorrhynca: Coccoidea)? Morphological, DNA sequence and chromosomal evidence'.

General meetings

General meetings were again held at CSIRO Long Pocket, with the December meeting being the last at this venue. Meetings in 2011 will be held at the Ecosciences Precinct, Boggo Rd.

Guest speakers and the Notes and Exhibits meetings provided a varied and interesting programme during the year. Speakers and titles are listed below:

March: The Presidential Address: Dr Christine Lambkin – 'Large scale biodiversity surveys including invertebrates: the future for taxonomy?'

April: Dr Nancy Schellhorn: 'Landscape scale pest management in vegetable crops.'

May: Dr Martin Shivas: 'Brisbane's mangrove breeding pest midge *Culicoides ornatus*.'

June: The Student Award: The winner of the 2010 Student Award, Ms Penny Mills, gave a presentation on her honours thesis 'How many species are there in the *Apiomorpha* minor group (Hemiptera: Sternorrhynca: Coccoidea)? Morphological, DNA sequence and chromosomal evidence'.

Notes and exhibits:

- Murdoch DeBaar: '*Euploea*: those 54 black, ugly butterflies'.
- Geoff Monteith and Federika Turco: 'An unusual carabid beetle from Mt Etna limestone caves near Rockhampton'.
- Christine Lambkin, Noel Starick and Rhys Smith: 'Bush Blitz II to western Qld and NSW'.
- Geoff Thompson: New and reprinted publications from the Queensland Museum.

August: Alejandro Costamagna (CSIRO): 'Impacts of established natural enemy assemblages on an invasive pest, the soybean aphid, in North America.'

September: Dr Don Sands: 'The role of insects in the breakdown of leaf litter and its implications for fire management and weed control.'

October: Ross Kendall: 'The evolution of a Butterfly farmer.'

November: Bill Crowe, AQIS: 'Australia's most unwanted.'

December:

Notes & Exhibits:

- Geoff Thomson, Qld Museum: 'ALA Imaging System, Adelaide University.'
- Andy Wang, UQ: 'Studying *Cameronella* wasps.'
- Desley Tree, DEEDI: 'Relocating the Qld Primary Industries Insect Collection.'
- Christine Lambkin, Noel Starick: 'Qld Museum Carnarvon Bush Blitz Part 1.'
- Christine Lambkin, Bryan Lambkin and Noel Starick, Qld Museum: 'Bunya Mt Bug Catch display drawers.'

General Meeting Attendances.

Attendance of members and guests at General Meetings was slightly lower than in 2009. In 2011 meetings will be held at the Ecosciences Precinct, Boggo Rd.

Attendance details are as follows:

	Members	Visitors
AGM March	24	3
April	14	6
May	22	5
June	19	5
August	16	2
September	15	0
October	17	1
November	17	12
December	18	1

Dr Judy King
Hon. Secretary
26 January, 2011.

Treasurer's annual report for 2010

During 2010 the society saw a small membership increase of approximately two percent. The cost of sales was somewhat lower in 2010 than the previous year, due to the reduced cost of printing the bulletin; this led to a trading profit of \$3540.16 (the balance of subscription incomes, bulletin printing and postage costs). The total profit from ordinary activities was \$2245.94.

Subscription renewals for 2011 will be sent out soon. A small number of members are yet to pay their 2010 subscriptions. A big thank you goes out to members who promptly paid their subscriptions at the beginning of the year. If any members would like to receive their Bulletin by email please contact me to arrange this, as it would certainly further reduce our costs.

Tables of the accounts for 2010 are reproduced on pages 160 and 161 of this News Bulletin.

Desley Tree, Treasurer

Independent Auditor's 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 2010. 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 2010.

Rebecca Keys

**Independent and Honorary Accountant
31 January 2010**

News Bulletin Editor's Report for 2010

As issue 9 (this year combined with issue 10) had not been published at the time of preparing this report, I can only provide a summary of the published issues of Volume 38. Issues 1-8 consisted of 140 pages of content with a total of 172 printed pages (including covers). The 'two column' format, introduced in Volume 37 Issue 4, was retained for Volume 38.

Main Bulletin content usually appears within the following regular section headings: Main Business (including the twice yearly Notes and Exhibits); People and Projects; Entomologists in Action; Reviews; and, Notices. The following table shows the proportion of total content for each of these sections (with Miscellaneous representing the Contents page, General Meeting minutes, Australian Entomologist adverts and all Forms).

Section	pages	%
Main Business	37	26.5
Notes and Exhibits	16	11.5
People and Projects	34.5	24.5
Entomologists in Action	10.5	7.5
Reviews	2	1.5
Notices (incl. next meeting)	10.5	7.5
Miscellaneous	29.5	21
	140	100

Entomological Society of Queensland Inc.	
Trading Account and Income and Expenditure Statement	
for the year ended 31 December, 2010	
Trading Income	
Subscriptions 2010	7,200.00
Subscriptions in Arrears 2009	294.00
Total Trading Income	7,494.00
Cost of Sales	
Add:	
Bulletin Printing 2010	2,706.00
Bulletin Printing 2010 (pd Jan 2011)	
Bulletin Postage 2010	1,439.84
Bulletin Postage 2010 (pd Jan 2011)	
Cost of Sales	4,145.84
Gross Trading Profit	3,348.16
Income	
Trading Profit	3,348.16
Interest Received	2.06
Payment from AES - auditor expense	100.00
Payment for student prize 2010	250.00
Total Income	3,700.22
Expenses	
Merchant Fees	201.80
Audit	200.00
Student prize	250.00
Stationary	470.48
Web Page Registration and Hosting	198.00
Sub mispayments	90.00
General Postage	44.00
	1,454.28
Profit/(Loss) from Ordinary Activities before income tax	2,245.94

Entomological Society of Queensland Inc.	
Statement of Financial Position as at 31 December, 2010	
Current Assets	
Cash Assets	
Cash at Bank	9,906.07
Cash on Hand	40.35
Total	9,946.42
Receivables	0.00
Total Current Assets	9,946.42
Non-Current Assets	
Property, Plant and Equipment	
Total	0.00
Total Non-Current Assets	0.00
Total Assets	9,946.42
Current Liabilities	
Payables	
Subscriptions Paid in Advance	192.00
Total Current Liabilities	192.00
Total Liabilities	192.00
Net Assets	9,754.42
Equity	
Retained profits/(accumulated losses)	9,754.42
Total Equity	9,754.42

The News Bulletin would have very little appeal for members if it were not for the efforts and contributions of speakers who present their work or discoveries at each General Meeting, and for the entomologists who take the time to write an 'Entomologists in Action' article, and also for those who write reviews or contribute news items or entomology-themed general interest articles. This year I wish to thank Chris Lambkin, Martin Shivas, Nancy Schellhorn, Penny Mills, Alejandro Costamanga, Don Sands, Ross Kendall and Bill Crowe for speaking at the General Meetings and contributing their Main Business articles to the News Bulletin. Notes and Exhibits articles in Issue 4 were contributed by Murdoch De Baar, Geoff Monteith, Federica Turco, Chris Lambkin, Noel Starick, Rhys Smith and Geoff Thompson (while those who authored articles published in Issue 9 include Geoff Thompson, Andy Wang, Desley Tree, Chris Lambkin, Noel Starick and Bryan Lambkin). Thanks to Mike Muller and Martin Shivas, plus to Peter James and his IPM team, for introducing us to their work through contributing 'Entomologists in Action' feature articles. The following people contributed to the great variety of articles and news items featured in the People and Projects section: Chris Lambkin, Bryan Cantrell, Matt Purcell, Geoff Monteith, Lyn Cook, Ben Hoffman, Murdoch De Baar, Peter Wilson, and Bob Mesibov; while Sandy Pollock contributed a review of the Identification Guide to Australian Odonata (in issue 1). I must also acknowledge Cindy from Rocklea Printers for doing a great job printing the Bulletin.

As it appears likely that I will be News Bulletin Editor for 2011 (I'm the sole nominee), I wish to open an invitation to all ESQ members to contribute to the News Bulletin by writing an article or news item for any of the abovementioned Bulletin Sections. Alternatively, you can contribute indirectly by alerting me to any Queensland Entomologist, or Entomological Group, that I have

not already featured in our 'Entomologists in Action' section. I always appreciate receiving new leads to follow up on in order to continue presenting articles of interest to members.

Justin Bartlett, News Bulletin Editor
6 February 2011

Permit Officer's Annual Report 2010

As of September 2010, 87 members were endorsed on the ESQs permits that allowed collection of invertebrates on 124 reserves, including National Parks, State Forests, and Forest Reserves. Those members were requested to submit their annual reports outlining locality information for specimens collected and identified by the end of September. While most members submitted null returns, 32 members reported on specimens collected. The 2010 amalgamated annual Wildlife Data Return and Report to QPWS covered over 2090 invertebrate specimens including Beetles: - Dung Beetles, Jewel Beetles, Flower Beetles, Christmas Beetles; Spiders; Pseudoscorpions; Scorpions; Bugs: - Scales, Tingidae, Coreidae, Reduviidae; Harpacticorinae, Miridae; Phylini & Dicyphini; Flies: - Nemestrinidae, Bombyliidae, Therevidae, Tabanidae, Mydidae; Thrips; Dragonflies & Damselflies; Lepidoptera: - Hesperidae, Lycaenidae, Nymphalidae, Papilionidae, Pieridae, Sphingidae, Saturniidae.

Two new species of Christmas Beetles (*Anoplognathus* spp.: Rutelinae) were described in 2010 based on material collected from the Cooloola NP on the ESQ collecting permits.

During early 2010 I applied to Queensland Parks and Wildlife Service (QPWS), Department of Resource Management (DERM) for an extension of the list of protected areas on the Entomological Society

of Queensland's Scientific Purpose Permits. By June 2010 the amended ESQs collecting permits WITK05498008, TWB/04A/2010 and TWB/27B/2010 had arrived and sent out to the members who had applied for them.

In October applications were made to QPWS to add the Mt Bauple Scientific Reserve to the list of protected areas on the ESQs Scientific Purpose Permits, and allow access to a restricted number of members. The amended collecting permit WITK05498008 arrived with the permit NCPI01094710 allowing access to a National Park (Scientific) in December and endorsed permits were sent to the seven members who requested them.

In mid-January 91 members were endorsed on the ESQs permits allowing collection of invertebrates on 125 reserves, including National Parks, State Forests, and Forest Reserves.

I would like to thank Susan Wright, the Permit officer for the ESQ for more than 7 years, for making my task as the new Permit Officer so much easier.

As all permits expire in October 20 reports from members are due the 10th September 2011.



Christine Lambkin
ESQ Permit Officer
Queensland Museum
South Brisbane, Qld 4104
Email christine.lambkin@qm.qld.gov.au

Nominations for 2011 Office Bearers

The following nominations were received at the meeting:

President: Dr Lyn Cook.

Nominated by: Matthew Purcell

Seconded by: Geoff Monteith

Senior Vice President: Geoff Thompson.

Nominated by: Christine Lambkin

Seconded by: Judy King

Junior Vice President: Matt Purcell.

Nominated by: Geoff Monteith

Seconded by: Christine Lambkin

Secretary: Dr Judy King.

Nominated by: Matthew Purcell

Seconded by: Geoff Thompson

Treasurer: Desley Tree.

Nominated by: Justin Bartlett

Seconded by: Judy King

News Bulletin Editor: Justin Bartlett.

Nominated by: Matthew Purcell

Seconded by: Geoff Thompson

Councillor: Dr Federica Turco.

Nominated by: Geoff Monteith

Seconded by: Christine Lambkin

Councillor: Dr Simon Lawson.

Nominated by: Judy King

Seconded by: Matthew Purcell

Councillor: Chris Moeseneder.

Nominated by: Geoff Monteith

Seconded by: Christine Lambkin

Business Manager, Australian Entomologist: Dr Geoff Monteith.

Nominated by: Geoff Thompson

Seconded by: Christine Lambkin

THE AUSTRALIAN ENTOMOLOGIST

Journal Report for 2010

Four parts of Volume 37 were prepared and posted to subscribers during the year, totalling 200 pages with 34 pages in colour. These included 28 original papers, 3 book reviews and 4 pages of our on-going listing of new literature on Australian insects. We thank Max Moulds for his help in providing those literature listings. Thirty-one new manuscripts were received during the year, and there are currently 11 papers in hand to be carried forward for 2011 issues of the journal.

Albert Orr served as interim Editor during 2010, with long-serving former Editor, David Hancock, returning to the fold in December 2010 after taking a break in England. David is living back in Cairns again. Susan Wright relinquished her role as Manuscript Coordinator at the beginning of 2010 and this task was taken over by Assistant Editor, Federica Turco.

Rising printing costs from our former Brisbane CBD printer became untenable and we have transferred our work to ABC Printing at Milton who are providing excellent and rapid service at about two thirds the cost. Our former printing method necessitated a substantial surcharge for colour and this was passed on to authors in the form of page charges at the rate of \$20 B/W and \$50 colour. ABC use the Indigo Digital Printing System which does not differentiate between colour and black and white. This means there is no basis for a colour surcharge and we have announced a uniform page charge rate of \$25 per page commencing in 2011. Authors may use unlimited colour at this rate.

In 2010 subscriptions rose for the first time in ten years, with the basic rate going from \$25 to \$33 per annum. This was accepted by subscribers because subscriber numbers showed a rise of 10 to a new high of 290 total.

Journal finances remain comparatively healthy (see Financial Statement on page 165). Our turnover was significantly greater than last year, partly because the printing bill for the very large Storey Memorial Issue, which was the last issue for 2009, was paid during 2010. This was balanced by the fact that since subscription forms for 2011 went out in November 2010 we were able to process almost \$3000 of incoming 2011 subscriptions during December 2010. The accounts showed an overall profit of \$932 for the year.

In closing, the Publication Committee thanks authors, referees and subscribers for their participation in making the *Australian Entomologist* a significant contribution to advancing knowledge of Australian insects.

G. B. Monteith
Business Manager
Australian Entomologist

I certify this is a true and accurate financial statement of the *Australian Entomologist* for the period 1 January 2010 to 31 December 2010.

Rebecca Keys
Independent and Honorary Accountant

**FINANCIAL STATEMENT FOR *THE AUSTRALIAN ENTOMOLOGIST* –
JANUARY 1 TO DECEMBER 31, 2010**

ASSETS	\$	LIABILITIES	\$
CBA chq A/c closing balance	5485.74	Subs in advance (2011)	2986.00
		Reimbursement of Editor's costs	1600.00
MECU Credit Union term accts			
Closing balance:	5065.83		
307023174	9647.89		
307023175			
Subscriptions owing 2009	50.00		
Subscriptions owing 2010	475.00		
Page charges owing	360.00		
Stationery (printed envelopes)	410.00		
Unsold past issues Aust.			
Entomol.	1929.00		
2572 @ \$0.75 ea *			
TOTAL	<u>23423.46</u>	TOTAL	<u>4586.00</u>

EXCESS ASSETS OVER LIABILITIES: **\$18,837.46**

INCOME	\$	EXPENDITURE	\$
Subscriptions	12656.10	Printing costs (36(4),37(1-4)	14259.08
Page charges	4865.00	Postage Vol 36(4), 37(1-4)	2416.29
Interest (CBA cheque a/c)	1.01	Stationery	31.60
Interest (MECU 307023174)	244.99	Monthly merchant card fee	290.66
Interest (MECU 307023175)	299.16	PO Box rental	79.50
Back issue sales	201.17	Credit Card dishonours	165.00
Postage recouped	7.50	Auditor's honorarium	100.00
TOTAL	<u>18274.93</u>	TOTAL	<u>17342.13</u>

NET TRADING **PROFIT**/LOSS: **\$932.80**

2010 SUBSCRIPTIONS at Dec 31:

AUSTRALIAN SUBSCRIPTIONS	237	(4 complimentary)
OVERSEAS SUBSCRIPTIONS	53	(5 complimentary)
TOTAL SUBSCRIBERS	290	
NEW SUBSCRIPTIONS (AUST)	16	
NEW SUBSCRIPTIONS (OVERSEAS)	0	
COMPLIMENTARY/EXCHANGED	9	
RESIGNATIONS	7	

Notice of Next Meeting

Monday 14th March 2011, 1pm

~

**Annual General Meeting &
Outgoing President's Address**

~

NEW ESQ GENERAL MEETING VENUE



Seminar Room 1
Ecosciences Precinct
Boggo Road, DUTTON PARK

See page 170 & 171 for more about getting there

ALL WELCOME
(Please sign in at Reception Desk)

Obituary

Murdoch De Baar

25 May 1945- 6 January 2011



The British biologist J.B.S. Haldane, when asked if there was anything that could be concluded about the creator from a study of nature replied, “Yes, the creator has an inordinate fondness for beetles”, alluding to the fact that there are more types of beetles than any other form of insect, and more insects than any other kind of animal. Murdoch himself had an inordinate fondness for beetles, and for butterflies, and moths, and in fact most insects. He was a true naturalist. While not formally trained as an entomologist, he knew more about insects than almost anyone I’ve met.

Murdoch was born in Eindhoven, Holland in May 1945 to mother Hannah and father Mat. He lived as a child on a farm outside Eindhoven until emigrating to Australia in 1952 where he lived with his parents on Coochiemudlo Island, then at several locations in northern Brisbane until finally they built a home at Petrie. He attended various State schools and then St Columbans from Year 6. His interest in insects began on the farm at Eindhoven and he brought a small collection of these with him to Australia as a 6-year-old. As a junior he won a prize in the Queensland Science Contest for an insect display.

He commenced work with the Queensland Department of Forestry in 1965 as a trainee and was based at a range of forest camps and stations across the State, names known to foresters but probably to no one else – Stirlings Crossing, 300 Creek, Diamond Hill, Gallangowan – some were remote and the facilities fairly basic. It was here in the forests, in difficult field conditions that he nurtured his interest in all things insect and honed his skills. In April 1966, he met his wife-to-be, Glenda, at the movies in Maryborough where she had just started working at the Hospital and he was stationed at nearby Tuan State Forest. They were married in Maryborough in April 1969 and their only son Kerry was born in 1971 at Kingaroy.

I first met Murdoch at our Forest Biology Lab at Indooroopilly in 1974 when I had just come down from Papua New Guinea and he had just come in from Archookoora State Forest where he had been working on rats, of all things (an aberration, but he was nevertheless proud of his rat skull collection). He was a Forest Technician by then and we worked together on a range of forest pest problems. To be in the field with him was an experience, as many of his colleagues know. While we were walking transects, surveying insect damage in the tree-tops, looking up, Murdoch was at the same time also casually turning over logs on the ground looking for insects, peeling back a bit of bark, swishing a net – nothing escaped his eye. The work got done but we usually had a bag of other insects and oddities by the end of a day. Back to our accommodation for a quick dinner and then Murdoch would be dead keen to go light trapping at night in the forest. We would finish late and when we got back he would make the rounds of the street lights, checking for anything interesting. He knew what time of day was best to find particular insects and would often get up at 2.00, 3.00 or 4.00 am to capture a prize specimen. He had tremendous energy and enthusiasm.





Murdoch worked for 41 years with forestry, mostly with our biology group, through a succession of reorganizations and workplace name changes, a subject on which he would usually have a few words to say. The names might change but the objectives were constant. He was a public servant in the true sense of the word, with a strong belief that we were there to serve the public regardless of shifting organisational priorities and economic gyrations. He had always been very involved in public extension and right up to his retirement in 2006 he was still answering public requests for pest advice and identifying the specimens they brought in, although that role for our group had been relinquished quite some years ago. In his retirement, he was still thinking public good and of the future, and on his own initiative made a complete photographic record of our insect damage collection so that the information would not be lost even if the collection was. Murdoch had a wealth of knowledge which he was always happy to share – he was the ‘go-to’ person if you wanted information about a particular insect, where it lived, what it ate, how to

catch it, how to rear it. He was one of our group’s best assets, but more than that he was a great mate to all of us. I still remember when we had a tree on our house from a storm; he was there next morning with a chainsaw to offer help. It was not all work and no play, Murdoch was an inveterate card player – any opportunity he would bring out a pack of cards and he was good. Even in retirement he came back to our workplace on many occasions just to bid 6-no-trumps at a lunchtime session. He loved Judo and was a 4th Dan Black Belt. Another lifelong interest was photography which was a natural extension of his passion for insects.

He has made significant contributions to entomology in Australia over his long career. He has published 64 technical, advisory and seminar articles as well as 33 departmental reports as author or co-author. Included was a major generic review of the Australian *Elodina*, a complex group of small white butterflies. Murdoch was also a source of knowledge on the Indo Australian *Euploea* or crow butterflies. He refereed

many manuscripts for journals and magazines, served as Councillor for the Entomological Society of Queensland, gave talks and prepared displays for entomological groups, Wildlife Presentation Society, Field Naturalists, Scouts Association, schools, departmental staff and media. He of course had a passion for conservation and was a committee member on the recovery teams for the Australian Fritillary Butterfly and the Bull Oak Jewel Butterfly. In his spare time, when he wasn't doing forest entomology, he would pursue pet projects on mangrove and mistletoe insects, use his holidays to go on collecting trips, often with Glenda, to a mountain top here, or to an island there, collaborate with colleagues on butterfly taxonomy and add to his magnificent insect collection. Murdoch's garden was his laboratory where he reared and studied many insect species in the tradition of the gentleman naturalists, which is how many of us will remember him.

Trevor Lambkin, a close friend of Murdoch and fellow butterfly enthusiast, compiled a list of descriptors used by friends and colleagues when recalling Murdoch. The list reads "always helpful, courteous, very amenable, a gentleman, a good bloke, thoughtful, softly spoken, patient, caring, a real character, knowledgeable, ask Murdoch". That says much of who he was.

The American naturalist John Burroughs once said, "I still find each day too short for all the thoughts I want to think, all the walks I want to take, all the books I want to read, and all the friends I want to see". For Murdoch add – "and all the insects I want to study". Murdoch packed a great deal into his life – he gave much of himself to his family, friends and colleagues and will be sorely missed by all who knew him. Farewell.

Ross Wylie
February 2011

ESQ General Meetings move to EcoSciences Precinct, Boggo Road

The EcoSciences Precinct (ESP) is conveniently located 100 m from the Boggo Road Busway and Park Road Railway Station. There is a walkway from these public transport hubs to the EcoSciences Precinct. Up-to-date bus and train timetables can be found at www.translink.com.au or by calling 13 12 30. Bus Numbers 109, 169 and 209 stop at the Boggo Road Busway. The Beenleigh/Ferny Grove, Cleveland/Doomben and Gold Coast/Airport lines all stop at the Park Road Railway Station. Limited 2 hour parking is available around the perimeter of the building (eastern part of Boggo Rd and on Peter Doherty St) or in the neighbouring suburb. General Meetings will be held in Seminar Room 1 (G.A. 603) on the ground floor of the building diagonally opposite the Reception Desk.

The ESP is an operational 24/7 science research precinct and all visitors must be signed in at Reception as visiting Seminar Room 1.

Please find a map of the EcoSciences Precinct overleaf, together with a more detailed map of the foyer with the location of Seminar Room 1 clearly indicated.

Below are some additional web-links to translink maps:

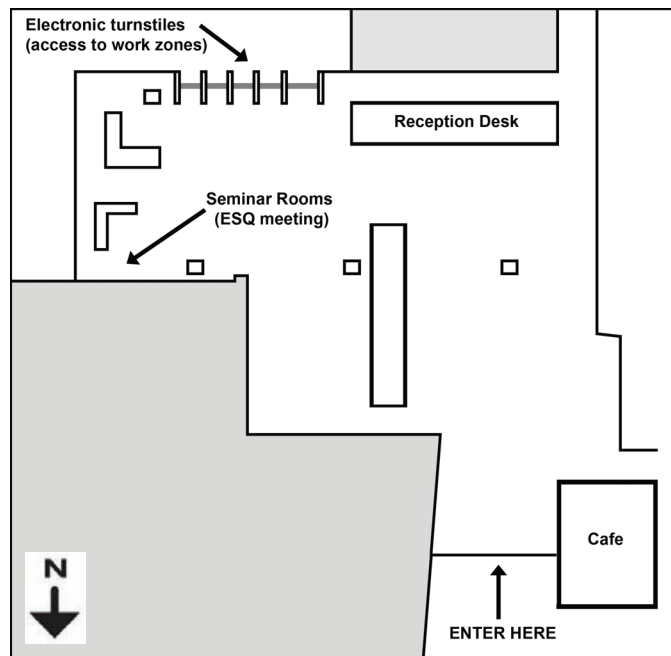
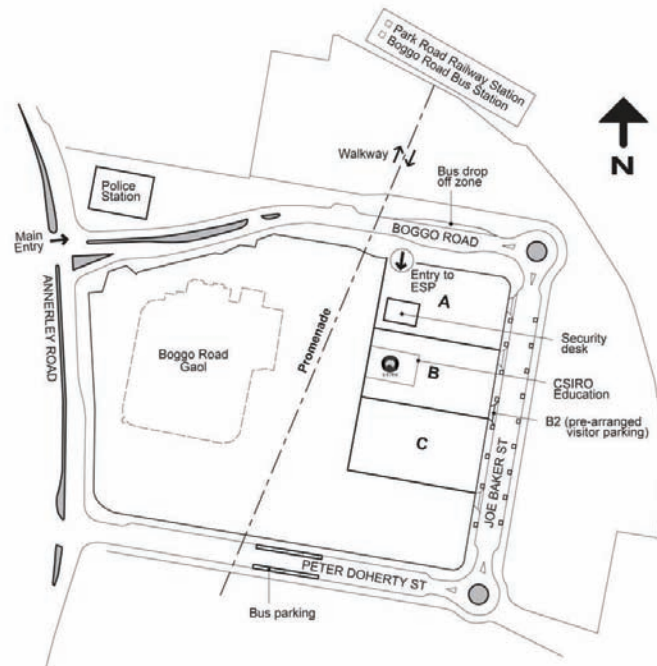
Location Map for Boggo Rd Busway and Park Rd Train Station

<http://www.translink.com.au/resources/travel-information/maps/busway-station/090801-boggo-road-locality.pdf>

Platform Map for Boggo Rd Busway and Park Rd Train Station

<http://www.translink.com.au/resources/travel-information/maps/busway-station/090801-boggo-road.pdf>

ECOSCIENCES PRECINCT (ESP)



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A quarterly, illustrated magazine of original research on
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\$500 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 who received their qualification from any Queensland tertiary education institution in 2010 or 2011 may submit their entomology based thesis or report for consideration.

Entrants need not be Society members.

These reports can be directed to the Society's Senior Vice President at the address listed on the entry form. However, please note that 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 Lyn Cook at l.cook@uq.edu.au

Closing date for submissions is Friday 15th April 2011.

Student Award Sponsors:
Tropical Fruit Fly Research Group, Griffith University

Entomological Society of Queensland 2011 Student Award Entry Form

Name

Title of thesis or report

Degree

Supervisor

Date of Examiners report or grading

Return address for thesis/report (if applicable)

Signature_____ Date_____

Send in thesis/report with a signed and completed entry form to:
Lyn Cook
Senior Vice President of the Entomological Society of Queensland
School of Biological Sciences
The University of Queensland
Brisbane, QLD 4072
Fax: 07 33651655



Entomological Society of Queensland Nomination for Membership Form

www.esq.org.au

Title _____ First name _____

Surname _____

Email _____

Address _____

_____ postcode _____ Date _____

Nominated by _____

Seconded by _____

☐ General membership **\$30 AUD**

☐ Joint membership **\$36 AUD**

☐ Student membership **\$18 AUD**

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or Please charge my : ☐ Bankcard ☐ Visa ☐ Mastercard

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Name on Card _____

Expiry Date _____ Signature _____

Please return completed form to : Honorary Secretary
Entomological Society of Queensland
P.O. Box 537
Indooroopilly
Qld. 4068

Please retain the receipt below for your records

----- ✂
Entomological Society of Queensland—Receipt for payment of membership fees

Name _____ Date _____

Amount paid \$ _____ for year/s _____

DIARY DATES 2010

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

MAR—Monday 14th	Matt Purcell	AGM and President's Address
APR—Monday 11th		
MAY—Monday 9th		
JUN—Tuesday 14th		
AUG—Monday 8th		
SEP—Monday 12th		
OCT—Monday 10th		
NOV—Monday 14th		
DEC—Monday 12th		

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
<hr/> Student membership conveys full membership privileges at a reduced rate.		

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THE ENTOMOLOGICAL SOCIETY OF QUEENSLAND



NOTICE OF NEXT MEETING

Monday 14th March 2011, 1pm

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**Annual General Meeting &
Outgoing President's Address**

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PLEASE NOTE the CHANGE OF MEETING VENUE

Seminar Room 1
Ecosciences Precinct
Boggo Road, DUTTON PARK

See page 170 & 171 for more about getting there

ALL WELCOME

(Please sign in at Reception Desk)

NEXT NEWS BULLETIN

Volume 39, Issue 1 (March 2011)
due early April

CONTRIBUTIONS WELCOME

DEADLINE - Thursday 24th March

Send your news/stories/notices to the editor
(justin.bartlett@deedi.qld.gov.au)