

**THE BATTLE**

SCIENTIST  
IPM  
EXTENSION AGENT  
CONSUMER  
PRODUCER  
ENVIRONMENTALIST  
PESTICIDE  
NEIGHBOUR  
ECOLOGIST

**Volume 23, Issue 10, February, 1996**

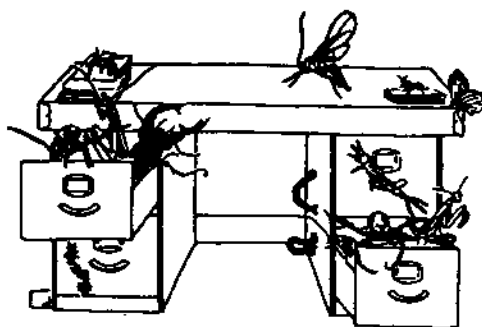
The **ENTOMOLOGICAL SOCIETY OF QUEENSLAND**, since its inception in 1923, has striven to promote the development of pure and applied entomological research in Australia and particularly in Queensland. Membership is open to anyone interested in Entomology. The Society promotes liaison among entomologists 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, University of Queensland at 6:30 p.m. on the second Monday of the month (March to June, August to December each year). Visitors and prospective members are welcome. Membership is open to anyone interested in entomology. Membership information can be obtained from the Honorary Secretary or other office bearer.

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 4 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:** The cartoon represents the complexity involved in designing Integrated Pest Management (IPM) strategies to counteract the never-ending struggle against arthropod species which damage our food and fibre crops, attack our buildings and impact on our health. (Artwork by Gaynor Cardew.)



## TABLE OF CONTENTS

|   |     |
|---|-----|
| ESQ Annual Report for 1995/96                               | 171 |
| ESQ Treasurer's Report for the year ending 31 December 1995 | 174 |
| ESQ Financial Statement                                     | 175 |
| ESQ Auditor's Report  | 176 |
| <i>Australian Entomologist</i> Report for 1995              | 177 |
| <i>Australian Entomologist</i> Financial Statement          | 178 |
| <i>News Bulletin</i> Editor's Report for Volume 23          | 179 |
| Nominations for Office Bearers for 1996/97                  | 181 |
| People and Projects   | 182 |
| Student Award   | 188 |

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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.

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It is with great regret that the Entomological Society of Queensland announces the passing of Elaine Brough. Elaine was the Society's President for 1995/96. An obituary will appear in the March edition of the News Bulletin and a special tribute will be the feature of the March AGM.

## **Annual Report for the Year 1995**

The Council of the Entomological Society of Queensland presents its Annual Report for 1995.

1995 was the Society's 72nd year. With great regret, Council reported the death of our serving President, Dr. Elaine Brough, who passed away on 25 January, 1996. Elaine's commitment, ability, and humour will be sadly missed by all who worked with her on Council and within the Society.

From the May meeting, the starting time of General Meetings was changed to 6.30 pm, preceded by refreshments at 6.00 pm. The highlight of the year was the Perkins Memorial Lecture presented by Dr. Gordon Hooper.

Arrest-A-Pest and Rhone-Poulenc Rural Australia Pty. Ltd. continued their support of the Society in 1995. Ciba-Geigy Aust. Ltd. and the CRC for Tropical Pest Management became Sustaining Associates.

Attendance throughout the year at General Meetings averaged 27-28 members and visitors, much the same as 1994. The Annual General Meeting & Presidential Address and the Perkins Memorial Lecture attracted the largest attendance.

The Student Award of \$250.00 was presented at the June Notes & Exhibits Meeting to Bruce Russell from James Cook University in Townsville and

QIMR, for his Honour's thesis titled "Dengue fever, wells and gold mines in Charters Towers, northern Queensland". Four entries for the Student Award were received.

Details of the year's activities, together with reports by the Treasurer, Editor of the *News Bulletin*, and the Editor and the Business Manager of the *Australian Entomologist* follow.

## **1. Membership**

During 1995, 15 new members joined the Society, 10 memberships were terminated and 3 members resigned. Membership stands at 110 Ordinary, 7 Joint Ordinary, 127 Country, 3 Joint Country, 21 Associate, 3 Honorary Life Members, and 4 Sustaining Associates.

22 complementary copies of the *News Bulletin* are supplied.

## **2. Council Meetings**

Nine meetings were held by the 1995 Council, attendance was as follows:

|                  |   |             |   |
|------------------|---|-------------|---|
| E. Brough        | 6 | J. Marohasy | 7 |
| J. King          | 7 | G. Gordh    | 4 |
| L. Barton Browne | 5 | D. Drew     | 2 |
| L. Muir          | 9 | D. Hancock  | 7 |
| G. Maywald       | 8 | P. Mackey   | 6 |
| K. Daddow        | 2 |             |   |

## **3. General Meetings**

Nine General Meetings were held, the Main Business of these meetings was as follows:

March 13 Presidential Address. Lindsay Barton Browne, "To feed or not to feed".

April 10 Peter Miles, "Plant-sucking insects: explanations for specific damage".

- May 8 David Yeates, "Pitcher plants, convergence and evolution: Darwin's missed opportunity in Australia".
- June 13 Notes & Exhibits.  
 Student Award presentation to Bruce Russell followed by his talk, "Dengue fever, well and gold mines in Charters Towers, northern Queensland".  
 Renee Baynes, "Preliminary investigations into *Etiella behrii* in peanuts".  
 Jennifer Marohasy, "Acacia gall midges in Kenya".  
 Ross Wylie, "IPS Bark beetle attack in fire-damaged pine plantations at Beerburrum".
- August 14 Margaret Schneider, "Musselbrook Reserve scientific study".  
 Robert Raven, "Horn Centennial Expedition".
- Sept. 11 Tim Herman, "The current state of entomology in New Zealand".
- October 9 Harry Fay, "Agriculture and entomology in north Queensland".
- Nov. 13 Perkins Memorial Lecture. Gordon Hooper, "An entomological nomad".
- Dec. 11 Notes & Exhibits.  
 Andrew Loch, "Outbreaks of pink wax scale, *Ceroplastes rubens*, on umbrella trees".  
 Robert Raven, "Redback spider, *Latrodectus hasseltii*, in Japan".  
 Eric Reye, "An arbovirus at Woody Island 1954".  
 Professor Kettle, Book Review: Medical and Veterinary Entomology - 2nd Edition; Publisher - CAB International, Wallingford, UK  
 Toni Withers, "The observer: a tool for studying insect behaviour".  
 Phil Webb, "*Lucilia cuprina* traps and lures".

**Entomological Society Of Queensland**  
**TREASURER'S REPORT**  
**For the year ended 31 December 1995**

The Society had a rather large operating deficit of \$1819.08 this year. By far the greatest part of this deficit was due the considerable increase in the cost of producing the News Bulletin. A large portion of this is due to a significant increase in the cost of printing (from \$2504 last year to \$3442 this year). I suggest that we obtain quotes from a few printers to attempt to reduce this cost. Extra cost (\$410) was incurred early in the year by the need to have several issues typeset commercially. The item 'Bulletin Editor Expenses' are fax and telephone expenses incurred by the Bulletin Editor. Unfortunately, subscriptions have now had to be increased to balance the Society's books in view of these increases in expenditure.

A total of 62 member have not yet paid their 1995 subscription, including 16 who also have their 1994 subscription still outstanding.

Expenditure from the Sustaining Associates Fund included the \$250 Student Award, and travel cost for the winner to the June meeting (\$299). In addition, \$700 was spent as part cost for the speaker at the April meeting. Four Sustaining Associates contributed a total of \$950 to the fund.

The Society has purchased an Accounting package ("Best Books") to ease the task of record keeping, and make it easier to hand over the accounts from one Treasurer to the next. The "Catering" item under Expenditure includes \$99.80 spent on Pizza for the June meeting, and the loss of \$82.05 made at the December Notes and Exhibits meeting due to the lower numbers than expected attending.

**Gunter F. Maywald**  
*Honorary Treasurer, 1995*

# FINANCIAL STATEMENT for year ended 31 December 1995

## Liabilities

|                            |                   |
|----------------------------|-------------------|
| Subs in advance - 1996     | \$354.18          |
| Sustaining Associates Fund | \$1,482.27        |
|                            | <b>\$1,836.45</b> |

|                  |                     |
|------------------|---------------------|
| Balance 1/1/95   | \$7,975.52          |
| Surplus          | <u>(\$1,819.08)</u> |
| Balance 31/12/95 | <b>\$6,156.44</b>   |

**\$7,992.89**

## Assets

|                    |                   |
|--------------------|-------------------|
| Comm. Bank Chq A/c | \$3,225.57        |
| Comm. Sav Inv. A/c | \$944.59          |
| Comm. Term Deposit | \$2,000.00        |
| Petty Cash         | \$153.58          |
| Refreshment Fund   | \$0.65            |
| Subs. owing 1995   | <b>\$1,207.50</b> |

**\$7,531.89**

|                     |                 |
|---------------------|-----------------|
| <b>Stock</b>        |                 |
| 42 Pks cards @ \$1  | \$42.00         |
| Journals (nominal)  | \$1.00          |
| News Bulletins      | \$1.00          |
| Index to Minutes    | \$1.00          |
| Stationery          | \$75.00         |
| Bulletin Envelopes  | \$140.00        |
| Crockery, Glassware | \$2.50          |
| Hot Water Um        | \$49.50         |
| Accounting Software | <u>\$149.00</u> |
|                     | <b>\$461.00</b> |

**\$7,992.89**

## Income

|                      |                   |
|----------------------|-------------------|
| Subscriptions 1995   | \$3,790.76        |
| Paid Prior (in 1994) | \$850.24          |
| Donations            | \$87.35           |
| Interest:            |                   |
| Cheque Account       | \$153.69          |
| Savings Invest.      | \$15.91           |
| Term Deposit         | \$87.48           |
|                      | <b>\$4,985.43</b> |

**\$4,985.43**

## Expenditure

|                                 |                   |
|---------------------------------|-------------------|
| <b>Bulletin</b>                 |                   |
| Printing                        | \$3,442.00        |
| Bull. Editors Exp.              | \$131.50          |
| Delivery                        | \$78.09           |
| Envelopes                       | \$320.00          |
| Postage                         | \$979.01          |
| Typesetting                     | \$410.00          |
| Other                           | \$12.09           |
| <b>Petty Cash</b>               |                   |
| Treasurer                       | \$158.40          |
| Secretary                       | \$8.52            |
| Publication                     | \$6.90            |
| Refreshment                     | \$60.00           |
| 1994 Audit                      | \$50.00           |
| State Govt Tax (GDT)            | \$15.85           |
| Subs. Discount 1995             | \$406.50          |
| Subs 1994 not collected         | \$476.00          |
| Catering (June & Dec. meetings) | \$181.85          |
| Depreciation Crockery/Glass     | \$2.50            |
| Depreciation Um                 | \$5.50            |
| Costs Stationery                | \$15.00           |
| Aust. Ent. Soc. Sub             | \$45.00           |
|                                 | <b>\$6,804.51</b> |

Surplus for Year **(\$1,819.08)**

**\$4,985.43**

### **Treasurer's Petty Cash**

|                  |                 |            |                 |
|------------------|-----------------|------------|-----------------|
| Balance 1/1/95   | \$45.95         | Stationery | \$30.80         |
| From General A/c | \$150.00        | Couriers   | \$19.00         |
|                  |                 | Suppers    | \$108.60        |
|                  |                 | Balance    | \$37.55         |
|                  | <b>\$195.95</b> |            | <b>\$195.95</b> |

### **Secretary's Petty Cash**

|                  |               |               |               |
|------------------|---------------|---------------|---------------|
| Balance 1/1/95   | \$9.45        | Postage, etc. | \$8.52        |
| From General A/c | \$0.00        | Balance       | \$0.93        |
|                  | <b>\$9.45</b> |               | <b>\$9.45</b> |

### **Publication Committee Account**

|                  |                   |         |                   |
|------------------|-------------------|---------|-------------------|
| Balance 1/1/95   | \$111.00          | Postage | \$979.01          |
| From General A/c | \$990.01          | Courier | \$6.90            |
|                  |                   | Balance | \$115.10          |
|                  | <b>\$1,101.01</b> |         | <b>\$1,101.01</b> |

### **Refreshment Fund**

|                |                |              |                |
|----------------|----------------|--------------|----------------|
| Balance 1/1/95 | \$37.20        | Drinks, etc. | \$60.00        |
| Donations      | \$23.45        | Balance      | \$0.65         |
|                | <b>\$60.65</b> |              | <b>\$60.65</b> |

### **Sustaining Associates Fund**

|                    |                   |                              |                   |
|--------------------|-------------------|------------------------------|-------------------|
| Balance 1/1/95     | \$1,781.27        | Student Award & Costs        | \$549.00          |
| Contributions 1995 | \$950.00          | April Speaker (part airfare) | \$700.00          |
|                    |                   | Balance                      | \$1,482.27        |
|                    | <b>\$2,731.27</b> |                              | <b>\$2,731.27</b> |

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### **AUDITOR'S REPORT**

I have examined the financial records and supporting documents of the Entomological Society of Queensland and find them to be kept in accordance with accepted bookkeeping practices using standard accounting principles. In my opinion, the accompanying statement of Income and Expenditure for the 12 months ended 31 December 1995, together with the Balance Sheet of that date, reflect a true and fair account of the financial position of the Society.

Peter W. Bowes  
23 Shuttle Pl.  
Bridgeman Downs  
28 January 1996

## ***The Australian Entomologist*** **1995 REPORT**

Volume 22 of the *Australian Entomologist* comprised 140 pages in 4 parts issued in July, August, September, and November. An author index for volume 22 was included in part 4.

During the year, 28 papers were submitted, whilst 29 papers and 2 book reviews were published. One book review and 25 papers are on hand for 1996. Four further papers are undergoing extensive revision by the authors, 3 of which date back to pre-1995 and may be considered lapsed.

### **Financial Position**

The number of subscriptions stands at 333, of which 96 are institutional. Subscription rates will remain unchanged for 1996. The financial position remains sound, with an excess of income over expenditure of \$3201.07 for the year. This enables the Journal to continue subsidizing the cost of colour plates where appropriate.

D.L. Hancock  
*Editor*

Peter Mackey  
*Business Manager*

**THE AUSTRALIAN ENTOMOLOGIST**

**FINANCIAL STATEMENT FOR YEAR ENDED 31 DECEMBER 1995**

**ASSETS**

|                         |          |
|-------------------------|----------|
| CBA cheque A/C          | 5266.29  |
| UniCredit Term Deposits | 12540.97 |
| Subs. owing 1995        | 658.00   |
| Page charges owing 1995 | 1750.00  |
| Stationery              | 85.10    |
|                         | -----    |
|                         | 20300.36 |

**LIABILITIES**

|                                  |        |
|----------------------------------|--------|
| Subs. in advance 1996 (pd. 1994) | 16.00  |
| Subs. in advance 1996 (pd. 1995) | 954.00 |
|                                  | -----  |
|                                  | 970.00 |

**EXCESS ASSETS OVER LIABILITIES**

19330.36

**INCOME**

|                       |          |
|-----------------------|----------|
| Subscriptions         | 6596.85  |
| Page charges          | 3925.00  |
| Sales                 | 163.58   |
| Interest - cheque A/C | 142.9    |
| - deposits            | 818.36   |
| Sundries              | 129.57   |
|                       | -----    |
|                       | 11776.26 |

**EXPENDITURE**

|                            |         |
|----------------------------|---------|
| Printing                   | 5696.00 |
| Postage                    | 1431.54 |
| Stationery                 | 147.20  |
| Typesetting                | 400.00  |
| State Government Tax       | 10.45   |
| Subs. 1994 not paid        | 399.00  |
| Page charges 1994 not paid | 225.00  |
| P.O. Box Rental            | 40.00   |
| Graphics                   | 100.00  |
| Sundries                   | 126.00  |
|                            | -----   |
|                            | 8575.19 |

**EXCESS INCOME OVER EXPENDITURE**

3201.07

Plus BALANCE 1/1/95

16129.29

19330.36

**THE AUSTRALIAN ENTOMOLOGIST**

**AUDITOR'S REPORT**

I have examined the financial books and supporting documents available of the Australian Entomologist, and find them to be kept according to accepted book-keeping practices. The statement of Income and Expenditure to 31 December 1995, together with the Balance Sheet of that date are, in my opinion, a true and fair account of the financial position of the journal.

Peter W. Bowes  
23 Shuttle Pl.  
Bridgeman Downs

**Entomological Society of Queensland**  
**NEWS BULLETIN VOLUME 23, 1995/96**  
**Editor's Report**

This year has seen some changes to the production of the Bulletin.

There was a change to the Editorship. This editor, with the approval of Council, engaged a private desk top publishing firm to process edited submissions, with submissions being sent directly to the Editor. This system worked very well with cooperation between the Editor, firm and printer. Costs became the problem. The ESQ treasury could not sustain the costs because of present subscription rates so the procedure was suspended.

The CRC for Tropical Pest Management came to the fore and did the desk top work with submissions to the Bulletin going directly to the Centre to be assembled. The Editor was notified in good time to edit (if necessary) the script, which took a part of a day, in his own time. The script went to the printer and so on. It seemed a cosy arrangement.

Two situations arose. One in which a person submitted the text of a speech. It was accompanied by a note 'not to be edited in any way'.

Speeches are normally printed verbatim and usually contain grammatical and other errors. It is the Editor's function to correct these. I suggest this note usurped editorial prerogative. Corrections were made with the author's consent.

The second situation concerned the publication of the Bulletin without the involvement of or consultation with the Editor. I consider this to be unethical, rude, and unnecessary. This should never happen again if we wish to maintain our professional status as a Bulletin disseminating professional information. One alternative is a hand written single sheet photocopy, letterbox dropped. What about members out of town? Surely this would be a professional shame.

On taking on the Editorship, the aim was to raise the standard of the Bulletin. Previous Editors have done a fine job, but there is always room for improvement (scientist talk). I saw my role not only to edit but institute some improvements to increase, among other things, the professionalism of the ESQ.

The Bulletin has to be maintained and enhanced. The Bulletin is to disseminate information of entomologists and enthusiasts in this area. The Editor is responsible for this as has previously been said. This is to emphasis the point. So let the Editor edit.

The Editor is responsible for the content and presentation of a publication and to exercise editorial prerogative.

During 1995, some variations were made to the presentation of the Bulletin. For example: the adoption of a uniform font which is well spaced and easily readable; biological names are uniformly in italics; and in *People and Projects*, when a person's name is mentioned, it is underlined. Apart from logos, the laboratory name and address was semiboxed. Some person, without my knowledge decided that this was not necessary and it was dropped. See 23(5) and 23(9) for comparison. We have to understand we have nonlaboratory members for whom we must cater.

I tried to institute a 'Letter to the Editor' section to give nonlaboratory members a forum. This was not approved. Advanced dates of meetings were published.

Kenneth N Daddow  
*Editor*

## NOMINATIONS FOR 1996/97 OFFICE BEARERS

The following nominations have been received by the Honorary Secretary:

| Position                             | Nominee                               | Nominated        | Seconded         |
|--------------------------------------|---------------------------------------|------------------|------------------|
| <i>President</i>                     | <b>Judy King</b><br>Forestry, QDPI    | L. Barton Browne | G. Gordh         |
| <i>Senior Vice-President</i>         | <b>David Yeates</b><br>Entomology, UQ | M. Schneider     | G. Gordh         |
| <i>Honorary Secretary</i>            | <b>Lynda Muir</b><br>QIMR             | G. Maywald       | L. Barton Browne |
| <i>Honorary Treasurer</i>            | <b>Gunter Maywald</b><br>CSIRO/ CTPM  | G. Gordh         | L. Muir          |
| <i>News Bulletin Editor</i>          | <b>Cathy Simpson</b><br>CTPM          | L. Muir          | J. King          |
| <i>Councillors<br/>(3 positions)</i> | <b>Helen Nahrung</b><br>AFRS, QDL     | J. Marohasy      | T. Withers       |
|                                      | <b>Gordon Gordh</b><br>Entomology, UQ | L. Muir          | J. King          |
|                                      | <b>Chris Burwell</b><br>Qld. Museum   | J. King          | L. Barton Browne |



# PEOPLE AND PROJECTS



NEWS FROM THE QUEENSLAND INSTITUTE OF  
MEDICAL RESEARCH

Mosquito Control Laboratory, Brisbane.

Peter Ryan has commenced his PhD enrolled through the Tropical Health Program UQ/ QIMR. The project is based in the Maroochy Shire which has a problem with *Aedes funereus* and *A. multiplex* mosquitoes. Little is known of these species and the Maroochy Shire Council has provided substantial funding for a comprehensive investigation into the role these 2 species have in Ross River and Barmah Forest virus transmission on the Sunshine Coast. Peter aims to gain an understanding of the developmental biology, breeding habits, seasonal abundance, host feeding patterns, flight range and vector competence of these species. The Council will use this information to focus appropriate control strategies to manage the vector population and reduce the incidence of Ross River and Barmah Forest virus. Peter has started by studying the epidemiological records of Ross River and Barmah Forest notifications within Maroochy Shire with the aim of identifying "hot spots" and likely field study areas.

Recent visitors were Prof. Alan Clements, London School of Hygiene and Tropical Medicine, and Dr. Bronwen Cribb, CMM/ Entomology, UQ. Prof. Clements is well known as the author of the text "The Biology of Mosquitoes". The new edition of Vol. 2 will include work done by Bronwen and Lynda Muir on the olfactory sensilla of the mosquito *Aedes aegypti*. Kim Watson of AgrEvo and Darran Thomas from the Gold Coast City Council have been assisting Michael Brown with testing non-target organisms such as estuarine fish and shrimps against new formulations of mosquito larvicide.



NEWS FROM CSIRO DIVISION OF ENTOMOLOGY  
Long Pocket Labs, Indooroopilly.

Lindsay Barton Browne recently bid Dr David Raubenheimer farewell after a stay of 3 months at the Long Pocket Laboratories. David, from the Department of Zoology, Oxford University and Lindsay have been looking at the first stage of a review of insect life history responses to nutritional perturbations.

Peter Room and Jim Hanan attended the Computational Challenges in Life Sciences Symposium in Melbourne. They were joined by virtual plant collaborators Dr Przemysław Prusinkiewicz from the University of Calgary and Dr Bill Remphrey from the University of Manitoba. Przemyslaw visited the Long Pocket Labs for a week prior to the symposium while Bill visited for a few days after the symposium.

Myriam Raymond has been transferred from Narrabri to Brisbane for 6 months to complete her work with Peter Room to improve the virtual cotton model.

Wendy Forno, Mic Julien, Shaun Winterton and Tony Wright attended the International Symposium on Biological Control of Weeds in South Africa. Shaun has returned already and reports a very successful meeting. Wendy will continue to Botswana after the symposium to follow up on a water weed biocontrol consultancy she undertook over several years in the Okavango Delta.

Charlie Turner of the USDA has joined the staff at Long Pocket. He replaces Joe Balciunas who has returned to the US. Joe was based in Townsville. Charlie will be continuing the work on *Melaleuca* biocontrol.

Tim Heard will be going Darwin in February to assist in the design of trials to evaluate the impact of flower feeding weevils on *Mimosa pigra* and to plan for releases of the next biocontrol agent, *Chalcodermus serripes*.

We bid a fond farewell to Jenny Burcher who worked with Tim on *C. serripes*. Jenny left CSIRO to undertake a degree in Social Work and we wish her all the best. Jenny began as a CTPM summer scholar and remained at Long Pocket for 3 years both as a part time and full time employee. Her work culminated in a proposal to AQIS to release *C. serripes*.

Dalio Mira is assisting with plant propagation and biocontrol agent breeding and assessment on *Mimosa pigra* and several species of water weed.

The Biocontrol of Mesquite project has come of age with the import of a stem girdling cerambycid from Texas.

In January Dr Eric Rumbo transferred from CSIRO Entomology in Canberra to the Long Pocket Tropical Horticulture Group headed by Don Sands. He is an insect electrophysiologist and plans to work on attractants and pheromones of tropical insect pests.

Don Sands, together with Dr Rob Floyd of CSIRO and Dr Ross Wylie of the Qld Forest Service, has been successful in gaining ACIAR support to run a workshop on the ecology and control of cedar tip moths. The workshop will be run in Sri Lanka in late August 1996.

Manon Griffiths has been appointed to collate data on red cedar tip moth (*Hysipyla robusta*) infestations in Australia and to organise the workshop. She will be located at the Qld Forest Service from Feb 8.



NEWS FROM THE COOPERATIVE RESEARCH  
CENTRE FOR TROPICAL PEST MANAGEMENT  
The University of Queensland, Brisbane.

During March, Dr Yoshito Suzuki and Dr Watanabe will visit the Centre to give a workshop on the historical development of rice pest control in Japan and a seminar on results of recent studies of plant hopper ecology.

Also during March, Management Advisory Team members and line managers from the Centre's participant organisations will be involved in a planning retreat to discuss and formulate plans for the Centre's proposal for renewing its term with the CRC Program.

Jodie Christensen has discovered egg parasites of *Zygogramma bicolorata*, a widespread and successful biocontrol agent of ragweed and parthenium. Jodie is completing a vacation scholarship with Toni Withers at AFRS.

Emma Cottage, the vacation scholar working with Kim Sprott at CSIRO Long Pocket Labs, has been attacking tomato plants with scissors and measuring how their growth is affected. Not surprisingly, the tomatoes don't like it!

Myron Zalucki attended the National Consultative Committee on papaya fruit fly in Brisbane in early December. Along with Professors Roger Kitching (Griffith University) and Nigel Stork (CRC TREM), Myron framed an issues document for the Wet Tropics Management Authority concerning papaya fruit fly eradication and rainforest management.

The Centre welcomed David Hunter, from the Australian Plague Locust Commission, who visited the Centre to work on a GENSECT model for APLC.



NEWS FROM ALAN FLETCHER RESEARCH  
STATION, Queensland Department of Lands, Brisbane

Bill Palmer has recently been appointed to the position of Senior Entomologist at the Alan Fletcher Research Station. This follows Brian Willson's retirement in July 1995. Bill has worked for many years in weed biological control. He headed the Lands Department's North American Field Station based in Texas for 12 years working on the weeds groundsel and lantana. Bill was appointed to the position of Principal Scientist in Charters Towers, North Queensland, in 1994. Bill will take up the appointment in Brisbane sometime this year.

Rachel McFadyen and Bill Palmer recently attended the IX International Symposium on Biological Control of Weeds in Stellenbosch, South Africa. Rachel presented a paper titled "Biocontrol of *Chromalena odorata*: divided we fail" and a poster on the CTPM Biocontrol of Tropical Weeds course. Peter James from the Lands Department's Townsville office presented a poster on the establishment of the rubbervine moth, *Euclasta whalleyi*. Whilst at the conference Rachel and Bill discussed chromalena, prickly acacia and fireweed biocontrol programs with South African and other entomologists. They also found time to develop their appreciation of South African wines and see some African wildlife.

Paul Kristiansen, a recently appointed horticulturalist, has already made a breakthrough in flower initiation with prickly acacia. Starting with cutting from a mature tree he has been able to get these to develop flower buds. Two years of trial and error had failed to achieve anything. He must have green fingers! This is a first step towards the importation and testing of flower-galling insects from Kenya for biological control of prickly acacia.

Jennifer Marohasy will be leaving the Alan Fletcher Research Station on 29 March to take up an Australian Postgraduate Award in the Entomology Department, University of Queensland. This will enable her to complete her PhD thesis on the lantana mealybug, titled "The host plant relationship of *Phenacoccus parvus* with particular reference to the determination of host specificity" ... hopefully within 20 months. Jennifer has worked for the Department of Lands as a contract entomologist for 11 years. During that time she spent 6 years based in Africa surveying and testing insects for the biological control of prickly acacia and rubbervine.



NEWS FROM QDPI AGRICULTURAL PRODUCTION,  
Indooroopilly

Chinese scientists Mr Liang Quan, Mr Liang Yongsheng, Mr Cao Yang and Ms Zeng Ling spent several weeks at Indooroopilly during November and December, hosted by Merv Bengston, Greg Daglish, and Pat Collins. Their visit was part of an ACIAR project on resistance in grain insects to the

fumigant phosphine. Phosphine fumigation is an important means of disinfecting grain, and generally this treatment is considered to be residue free. Studies in Australia and China will shed light on the development of phosphine resistance, and the results will be used to formulate recommendations to minimise problems with resistance. Other visitors during that time were Dr Bob Winks and Ms Nin Hyne from CSIRO in Canberra.

Dave Hancock will be leaving Indooroopilly soon to take up a six month appointment with the International Institute of Entomology based at the Natural History Museum in London. The work which is being funded by ACIAR and the International Atomic Energy Agency will involve taxonomic problems with Dacine fruitflies in the Asia/Pacific region, and the results will be incorporated into the CABIKEY. Dave is looking forward the appointment which will allow him to spend some time in the country of his birth.

Marlene Elson-Harris and John Donaldson (Indooroopilly) are "buried in fruitflies" collected from traps outside the Papaya Fruitfly Quarantine Zone in North Queensland. These traps were set up shortly after the outbreak, and some are producing 2,000-3,000 flies per week. The main consolation for John and Marlene is that some traps from within the quarantine zone are yielding up to 10,000 flies per week. The good news is that no specimens of the papaya fruitfly have been identified from outside the quarantine zone.

### **Notice of Future General Meetings**

**March 11 Annual General Meeting**

**April 9 (Tuesday)**

**May 13**

1996


## \$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 1994 or 1995.

**When:** Applications close 4 March 1996.

Send thesis/report and completed entry form to  L. Muir, Secretary, Entomological Society of Queensland, QIMR, PO Royal Brisbane Hospital, QLD. 4029.

This is an award by the Society to encourage entomological research. Entries are judged by a panel of 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

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Enquires should be directed to the Senior Vice-President, Judy King  
 07 3877 9716 or any Office Bearer of the Society.

**ENTOMOLOGICAL SOCIETY OF QUEENSLAND**  
**1996 Student Award**  
**Entry Form**

Name:

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Title of thesis/report:

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Institution:

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Degree:

---

Supervisor:

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Date of examiners report/grading:

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Address for return of thesis/report:

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Signature

Date

**Applications close 4 March 1996.**

Send thesis/report and completed entry form to

✉ L. Muir, Secretary, Entomological Society of Queensland,  
QIMR, PO Royal Brisbane Hospital, QLD. 4029.

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## NOTICE OF NEXT MEETING

The next meeting of the Society, held at 6.30 pm on **Monday March 11** in Room **323**, Hartley Teakle Building, UQ, will be the **Annual General meeting** with **election of office bearers**. Refreshments will be served before the meeting at 6.00 pm in the Tea Room (510).

The Main Business will be a tribute to Elaine Brough. Colleagues and friends of Elaine will speak about her work and members of the audience will be invited to contribute.