Australian Entomological Society

News Bulletin

Volume 16, Part 3, August 1980

Registered for Posting as a Publication Category (B)  Price: $1.25
AUSTRALIAN ENTOMOLOGICAL SOCIETY

OFFICE BEARERS

President: Dr. I.F.B. Common
Vice President: Dr. E. Shipp
Secretary: Dr. K.R. Brown
Assistant Secretary: —
Treasurer: Mr. G.A. Holloway
Assistant Treasurer: —
Business Manager: Mr. J. Donaldson
Assistant Business Manager: —
Public Officer: Dr. P.B. Carne
Chief Editor: Dr. G.H.S. Hooper
General Editor: Dr. B.P. Moore
Taxonomic Editor: Dr. B. Domrow
Assistant Editor: Mr. P.D. Webb
News Bulletin Editors: Dr. P. Williams, Mr. P.M. Ridland

REGIONAL COUNCILLORS

Queensland: Dr. G.B. Monteith, Mr. A.P. Walford-Huggins
New South Wales: Mr. D.R. Smith, Mr. N.W. Forrester
A.C.T.: Dr. R.W. Taylor, Mr. T.A. Weir
Victoria: Dr. A.A. Calder, Mr. P.M. Ridland
Tasmania: Mrs. M.A. Williams
South Australia: Mr. D. Hopkins
Western Australia: Dr. J.D. Majer
Papua New Guinea: Dr. E.J. Brough

REPRESENTATIVE COUNCILLORS

Entomological Society of Queensland: Dr. E.M. Exley
Entomological Society of Victoria: Mr. D.J. Stewart
Royal Zoological Society of N.S.W.: Mr. C.E. Chadwick
Entomological Society of Australia (NSW): Dr. J.M.E. Anderson

ADDRESS FOR CORRESPONDENCE

News Bulletin Editor: c/o Plant Research Institute,
Swan Street, Burnley, Vic., 3121
Executive: c/o School of Biological Sciences F07,
University of Sydney, Sydney, NSW, 2006
ADDRESSES OF REGIONAL COUNCILLORS

Qld.  Mr. A.P. Walford-Huggins, P.O. Box 17, Molloy, Queensland, 4880.
      Dr. G.B. Monteith, 22 Raglan Street, St. Lucia, Queensland, 4067.

N.S.W. Mr. D.R. Smith, C.S.I.R.O., Division of Applied Organic Chemistry, c/o School of Zoology, University of N.S.W., P.O. Box 1, Kensington, New South Wales, 2033.
      Mr. N.W. Forrester, Agricultural Research Centre, R.M.B. 944, Tamworth, New South Wales, 2340.

A.C.T. Dr. R.W. Taylor, Division of Entomology, C.S.I.R.O., P.O. Box 1700, Canberra City, A.C.T., 2601.
      Mr. T.A. Weir, Division of Entomology, C.S.I.R.O., P.O. Box 1700, Canberra City, A.C.T., 2601.

Vic.  Mr. P.M. Ridland, Plant Research Institute, Swan Street, Burnley, Victoria, 3121.
      Dr. A.A. Calder, Department of Entomology, National Museum of Victoria, 71 Victoria Crescent, Abbotsford, Victoria, 3067.

Tas.  Mrs. M.A. Williams, Department of Agriculture, St. John's Avenue, New Town, Tasmania, 7008.

S.A.  Mr. D. Hopkins, Department of Agriculture & Fisheries, Northfield Laboratories, G.P.O. Box 1671, Adelaide, South Australia, 5001.

W.A.  Dr. J.D. Majer, Department of Biology, W.A. Institute of Technology, Hayman Road, South Bentley, Western Australia, 6102.
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EXECUTIVE REPORT

Meeting:

The Executive met on 8th July, 1980.

Membership:

Since the last report 8 members have been elected and
1 has resigned. Total membership now stands at 580 and
the geographical distribution is as follows:

<table>
<thead>
<tr>
<th>State</th>
<th>Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSW</td>
<td>112</td>
</tr>
<tr>
<td>QLD</td>
<td>135</td>
</tr>
<tr>
<td>ACT</td>
<td>86</td>
</tr>
<tr>
<td>VIC</td>
<td>85</td>
</tr>
<tr>
<td>SA</td>
<td>44</td>
</tr>
<tr>
<td>TAS</td>
<td>22</td>
</tr>
<tr>
<td>NT</td>
<td>7</td>
</tr>
<tr>
<td>PNG</td>
<td>17</td>
</tr>
<tr>
<td>OVERSEAS</td>
<td>44</td>
</tr>
</tbody>
</table>

New Members:

We extend a warm welcome to the following members:

Elected 8th July, 1980

- Dr. Geoff H. Baker, University College, Dublin, Department of Agricultural Biology, Belfield, Dublin 4. Dr. Baker is interested in the population and community ecology of soil animals especially Diplopoda and Lumbricidae. His interests also include the ecology of introduced species such as millipedes in Australia.

- Dr. Stuart C. Cairns, Department of Zoology, University of New England, Armidale, New South Wales, 2357. Dr. Cairns is interested in population dynamics, ecological energetics and biological control.

- Dr. William A. Palmer, Agricultural Research Station, Narrabri, New South Wales, 2390. Dr. Palmer's interests are cotton and veterinary entomology.
- Mr. Stephen J. Davidson, Department of Zoology, University of New England, Armidale, New South Wales, 2351. Mr. Davidson holds an Honours degree and is currently embarked upon post-graduate work. He is interested in soil biology, insect ecology and population dynamics.

- Mr. Robert H. Eldridge, c/o Forestry Commission of New South Wales, P.O. Box 100, Beecroft, New South Wales, 2119. Mr. Eldridge holds a B.A. (Biological Sciences) from Macquarie University and is a Research Officer with the Forestry Commission. He is interested in timber destroying insects especially termites.

- Mr. Anthony Postle, Department of Biology, W.A.I.T., Hayman Road, Bentley, Perth, Western Australia, 6102. Mr. Postle holds a M.Sc. degree and is currently studying the taxonomy of the Anthocoridae (Heteroptera : Cimicoidea).

- Mr. Neil L. Treverrow, Agricultural Research Centre, Yanco, New South Wales, 2703. Mr. Treverrow holds a M. Rural Science degree. His interests are in the cattle tick (Boophilus microplus) and rice and vegetable entomology in irrigation areas.

- Dr. Janice McDonald, Psychology Department, Monash University, Clayton, Victoria, 3168. Dr. McDonald is interested in behavioural genetics and evolution of behaviour.

Resignation:

Mr. G.W. Levot, 23 Wollum Street, Como, New South Wales, 2226 (School of Zoology, University of New South Wales, Box 1, Kensington, New South Wales, 2033).
Changes of Address: (State of previous residence in brackets)

Mr. J. Gerozisis, School of Rural Studies, Sydney Technical College, Broadway, New South Wales, 2007. (N.S.W.)

Dr. R. Lavigne, Entomology Section, P.O. Box 3354, University Station, University of Wyoming, Laramie, Wyoming, United States of America, 82071. (U.S.A.)

Mr. W.E. Stewart, Biosystematics Research Institute, Agriculture Canada, Ottawa, Ontario, Canada, K1A OC6. (Canada)

Mr. E.E. Adams, P.O. Box 1384, Rockhampton, Queensland, 4700. (Qld.)

Mr. A.M. Smith, Plant Research Institute, Swan Street, Burnley, Victoria, 3121. (Vic.)

Mr. G. Williams, "Lorien", Newby's Lane, c/o Post Office, Lansdowne, New South Wales, 2435. (N.S.W.)

Mr. J.B. Jobe, 2 Killin Close, Chapel Park, Newcastle-upon-Tyne, England, NE5 1UQ. (U.K.)

Ms. K.A. Huxham, Dung Beetle Research Unit, Private Bag X5, Lynn East, Pretoria, 0039, South Africa. (Qld.)

Mr. C. Brickhill, Head, A.D.L.T. Programme, School of Applied Science, D.D.I.A.E., c/o P.O. Darling Heights, Toowoomba, Queensland, 4350. (Qld.)
The Executive is pleased to present the Society's Eleventh Annual Report, covering the period January 1979 to May 1980.

Executive Meetings

The Executive met on eight occasions. The Assistant Secretary, Assistant Treasurer and Regional Councillors for Victoria and Dr. T.R. New attended meetings by invitation.

Changes of Office Bearers

During 1979 the Chief Editor, Dr. M.J. Rice expressed the intention of resigning in 1980. In January 1980 Dr. Rice recommended to the Executive that Dr. G.H.S. Hooper succeed him as Chief Editor. The Executive accepted this recommendation and appointed Dr. Hooper Assistant Chief Editor as from 31st January 1980. Dr. Rice's resignation became effective on the date of issue of the March 1980 number of the Journal (19:1). Dr. Hooper then became Chief Editor until the 11th AGM in May 1980 when the office was subject to election.

On 30th January, 1980, the Assistant Business Manager, Mr. R.C. Kassulke, tendered his resignation to the Executive. His resignation was accepted with regret and the Executive records its appreciation for his efforts on behalf of the Society.

Executive Appointments

Dr. Rice submitted to the Executive that the office of Chief Editor was involving him in an ever-increasing amount of administrative work and that he considered that a paid Editorial Assistant was required. Following exhaustive efforts by Dr. Rice to find a new Chief Editor and Editorial Assistant, he recommended that the Executive appoint
Dr. G.H.S. Hooper as Chief Editor and Mrs. S. Hooper as Editorial Assistant on a salary of $4,000 per annum. The Executive determined that Mrs. Hooper be appointed Editorial Assistant for a period of 3 months pending confirmation of this appointment on an annual basis by Council (at Council meetings to be held in May 1980 in association with the AGM). The Editorial Assistant is to be paid a salary at the rate of $4,000 per annum (plus appropriate payment for Workers Compensation). This decision was taken with due regard for the need to bring Journal publication up to date and for the desirability that creation of any permanent appointment of this nature should be an act of Council.

Organisation of 11 AGM

On 9th May, 1979 South Australian members elected an organising committee for the 11 AGM. Members were Dr. F.P. Morgan (convenor), Mrs. P. Greenslade, Dr. B. Hutson, Mr. P. Birks and Mr. D. Hopkins (Regional Councillor) and the Executive approved this arrangement.

Membership

The Executive recorded with deep regret the death of our Foundation President Dr. I. Mackerras. He was an Honorary Member of the Society and had done much towards the establishment of the Society and had made an important contribution to the Science of Entomology.

Membership of the Society remains stable. Since January 1979 there has been one loss by death, seven by resignation and eight members have ceased their membership under Section 22(c) of the Constitution. During this period 43 members were elected, and the total membership now stands at 572. This total includes two Honorary Members, 23 Retired Members and 44 Student Members.
The distribution of members by States is currently:

<table>
<thead>
<tr>
<th>State</th>
<th>Members</th>
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<tbody>
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<td>NSW</td>
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<tr>
<td>VIC</td>
<td>83</td>
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<td>WA</td>
<td>27</td>
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<tr>
<td>QLD</td>
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<td>SA</td>
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<td>ACT</td>
<td>86</td>
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<td>TAS</td>
<td>23</td>
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<td>PNG</td>
<td>17</td>
</tr>
<tr>
<td>OVERSEAS</td>
<td>41</td>
</tr>
</tbody>
</table>

Student Research Paper Award

It was disappointing that only one manuscript was received. The manuscript was subsequently sent to a panel of two referees who considered that the paper was not up to the standard required for the award and that this was unfortunate because it contained the basic material for a good paper. In view of the comments of the referees the Executive decided not to make an award for 1980.

Miscellaneous Publications

"Directory of Australian Entomologists".

It has proved impossible to modify the computer format to meet requirements for the economic printing of the Directory. A new computer format would be required and new information as the information for the Directory is now about 3-4 years old. In view of these factors the Directory is unlikely to be published unless a member can be found who is prepared to write a suitable program for the computer and update the Directory material.

Chief Editor's Report

The past year has seen the issue of Volume 18 of the Journal. This contained 400 pages and included 66 scientific papers and notes. There have been unavoidable delays in issuing some parts but these have now been overcome.
The new edition of our successful miscellaneous publication "The Collection and Preservation of Insects" has been extensively revised and re-illustrated and is due to be issued in May under the authorship of Murray Upton and Ken Norris. Other miscellaneous publications are in preparation, including "Simple Experiments with Australian Insects", by a number of authors, due to be issued later this year.

The Journal is in a satisfactory financial situation, such that employment of a part-time editorial assistant is now possible. This enables the Journal to be edited in a more regular and professional manner and will help to avoid the inevitable delays that ensue when all involved are voluntary helpers, with no professional editing backup.

As from the date of issue of the March 1980 number of the Journal (19:1), Gordon Hooper has agreed to become the Journal's fourth Chief Editor and will, I know, maintain and improve the already high standard of content and production. I thank my colleagues Barry Moore, Robert Domrow and Phillip Webb for their dedication, and the numerous referees and Editorial Board members for their hard work. It has been a real pleasure to work with them over the last four years and with a most co-operative Business Manager, John Donaldson, and ever helpful printer Steve Gould, of Watson Ferguson and Company.

Future developments may include the introduction of a copyright fee on papers, to be collected by the Society, and the possibility of publishing book advertisements. It may also be necessary, due to the heavy work load, to have two General Editors, one for papers on structure, chemistry and physiology and another for papers on behaviour, ecology and pest management.

M.J. Rice
News Bulletin Editors' Report

In 1979 a total of 116 pages were printed and the February 1980 News Bulletin consisted of 21 pages.

The News Bulletin continues to be a success. There has been a good response from Regional Councillors and other Society members in providing contributions. Also a number of notable events such as the XVI International Congress of Entomology in Japan and the 2nd World Wilderness Congress in Queensland have been publicised in the News Bulletin.

We wish to acknowledge the assistance given by a number of Melbourne members in the distribution of the News Bulletin.

P. Williams, P. Ridland

Report of Environmental Quality Committee

The Committee has continued to hold a watching brief; there were no matters referred to it for advice or action during the year.

D.F. Waterhouse

Report of Conservation Committee

No matters were referred to the Committee by the Executive during 1979-80. Committee members have maintained surveillance of developments in the Forestry industry.

T.R. New
Working Party on Constitution and By-Laws

At the seventeenth Council Meeting in January 1979 it was decided that there were a number of deficiencies and redundant clauses in the Constitution and that a working party should be convened to examine the Constitution. The working party formed consisted of the Public Officer, Dr. P.B. Carne (convenor), Dr. E.N. Marks, Dr. T.E. Bellas and the Vice President and Secretary ex-officio. The working party requested comments on the constitution from members and would like to thank Dr. G. Ettershank for his useful suggestions. A submission on proposed alterations to the constitution has been prepared for submission to the nineteenth council meeting in May 1980.

Treasurer's Report

The Society is in a favourable financial situation, total each credits at 1st April, 1980 being $24,618.95. Following approval by the Executive, in future the Society's financial year will end on the calendar year, which will allow the auditor (D.M. Crichton) to prepare a Financial Statement for presentation at future Annual General Meetings.

There are a number of members in arrears for 1978/79 and 1979/80; and some members still have not advised their banks that the annual subscription is $20, not $15.

Pin, rather than staple cheques to invoices; and a reminder to members to avail themselves of the concession rates for the Australian Journal of Zoology and Journal of Biological Sciences before 1st March each year when submitting their subscription.

J.R.J. French
Following the meeting on the 24th October, 1978 with representatives of the Department of Science and Environment, the Academy of Sciences, Museum Directors, and the C.S.I.R.O., we have received a set of revised guidelines for the administration of Regulation 13A. These guidelines are certainly an improvement on any previous efforts in this direction and provide smoother mechanisms for dealing with material leaving the country.

At the same meeting it was resolved that an investigation would be made into the effects of Regulation 13A. In a letter dated 26th February, 1980 from the Bureau of Fauna and Flora we were informed that the Bureau would be investigating the deposition of holotypes since 1960. We have pointed out to the Bureau that the Australian Entomological Society was represented at the Meeting and that it would be appropriate that the Society should have input in the planning and investigation. As a result of this the President has been informed that if the Society makes a formal offer to participate in the planning that the offer will be accepted.

It is essential, in view of resolutions which have been passed by Meetings of the Society, that the Society be not only represented in the planning of the investigation but they take part in the investigation itself.

The Bureau has been informed that the matter will be considered by the incoming Executive.

C.N. Smithers
Acknowledgements

The Executive is grateful for the assistance and advice given by members. In particular the Executive wishes to thank David Morgan, Penny Greenslade, Barry Hutson, Peter Birks and Dennis Hopkins for the excellent organisation of the 11 AGM and Scientific meeting.

On behalf of the Executive.

I.W.B. Thornton (Vice President)
P. Williams (Secretary)
Minutes of Eleventh Annual General Meeting held at Lyndoch, South Australia, on 10th May, 1980.

Opening:

The President, Dr. Courtenay Smithers, opened the meeting at 4.05 p.m. and welcomed members.

Apologies:

Apologies for absence were received from Dr. T.G. Amos, Dr. P.B. Carne, Dr. J.R. MacFarlane, Dr. D.F. Waterhouse, Mr. N. Forrester, Dr. P. Madge, Dr. I.F.B. Common and Dr. D.K. McAlpine.

Attendance and Proxies:

The President (Chairman), and 57 members (Vic. 13, S.A. 19, N.T. 1, N.S.W. 13, A.C.T. 5, Qld. 3, W.A. 2, U.S.A. 1). Those present held proxies for 13 members (Vic. 3, Qld. 6, N.S.W. 2, A.C.T. 2). Total votes: 70.

Deaths:

The President announced that one member had died since the last meeting, the Society's Foundation President Dr. I.M. Mackerras. Members stood in silence as a mark of respect for Dr. Mackerras.

General Announcements:

The Secretary announced that a new shortened tour for the XVI International Congress of Entomology in Japan was now being offered by American Express. The cost of the tour was over $800 cheaper than the original tour because of reductions in air fares between Australia and Japan. Details of the tour were distributed to members. Members were reminded that notes on travel in Japan compiled by Mr. T. Grace were available from the Secretary and Treasurer.
Minutes of the 10th Annual General Meeting:

The minutes of the 10th AGM having been circulated to all members, were taken as read and adopted (Holloway/Morgan). No business arose from them.

Annual Report of the Executive:

The Vice President, Prof. I.W.B. Thornton, presented the Report to the meeting.

Once again the response to the Student Research Paper was very disappointing, there being only one entry. The paper was sent to a panel of two referees who considered that it was not up to the standard required and that this was unfortunate as it contained the basic material for a good paper. Consequently the Executive decided not to make an award for 1980.

The Executive accepted with regret the resignations of the Chief Editor, Dr. M.J. Rice and the Assistant Business Manager, Mr. R.C. Kassulke. When Dr. Rice indicated his intention to resign after publication of Journal (18:4) the Executive appointed Dr. G.H.S. Hooper as Assistant Chief Editor until publication of (18:4) and Chief Editor thereafter. Also the Executive appointed Mrs. S. Hooper as Editorial Assistant for a period of 3 months at an annual salary rate of $4,000. These actions were taken as a result of recommendations by Dr. Rice. The Executive considered that the decision to appoint a paid Editorial Assistant should be a matter for Council and at the 19th Council Meeting it was decided to recommend to the 20th Council Meeting that the appointment be approved on an annual basis. This action was taken to enable the new Executive to participate in the final decision on this matter.
The future of the "Directory of Australian Entomologists" was discussed at the 19th Council Meeting and a proposal made that a C.S.I.R.O. computer programmer be asked to write a new program for the directory information which would meet printing requirements.

The Committee, appointed as a result of a resolution at the 18th Council Meeting, to review the Constitution and By-laws had presented recommendations to the Executive and the Council. The recommendations were adopted and will be presented to the membership in a referendum to be held before the next Annual General Meeting.

During the past year no matters have been referred to either the Environmental Quality or Conservation Committees and if members know of any matters that should be considered by these committees they are asked to present them to the Executive for referral.

The Society has been informed that the Bureau of Fauna and Flora will be investigating the matter of deposition of holotypes. Representations have been made to the Bureau that the Society should be represented in both the planning of the investigation and in the investigation itself.

On behalf of all members Prof. Thornton paid tribute to the contributions made to the Society by the retiring President Dr. Courtenay Smithers and the Secretary Dr. Peter Williams.

The report was adopted (Holloway/Morgan).

Treasurer's Report:

The Treasurer, Dr. J.R.J. French presented audited accounts for the year ending 30th June, 1979 which showed that the Society was in a sound financial position.

The Treasurer's Report was adopted (French/Holloway).
Prof. T. Browning asked Dr. French to explain the surplus of $41,427 shown in the accounts. Dr. French said that this figure gave an over-optimistic impression of the financial status of the Society as there were a number of commitments to be met from this surplus; the Journal printing was behind schedule, postal charges had increased, and it was anticipated that Council would appoint an Editorial Assistant at a salary of $4,000 per annum. Term deposits had been used to maximum effect to boost the Society's income.

Dr. French considered that the Society's financial position was such that no increase in membership charges would be required in the immediate future. He expressed the hope that proposed revisions to the Constitution would result in the Society's accounting year being altered to commence on 1st January instead of 1st July each year. This would aid accounting procedures and should enable fully audited accounts to be presented at the Annual General Meeting which in future will probably be held in May each year.

It was proposed that the Treasurer be thanked for his diligence in caring for the Society's finances (Southcott/Tydale): the motion was carried unanimously.

Auditor:

It was agreed (French/Holloway) that D.J. Crichton, Public Accountant, be retained as the Society's Auditor for the 1980/81 financial year.
Announcement of Office Bearers and Councillors:

The Secretary announced that one nomination had been received for each vacant position with the exception of the positions of Business Manager, one of the Regional Councillors for the A.C.T., and Regional Councillors for P.N.G. and Tasmania. Appointments to these vacancies could be made by the new Executive. Council had declared the following members duly elected:

President: Dr. I.F.B. Common (Smithers/Thornton)
Vice President: Dr. E. Shipp (Smithers/McAlpine)
Secretary: Dr. K.R. Brown (McDonald/Smith)
Treasurer: Mr. G.A. Holloway (Smithers/McAlpine)
Chief Editor: Dr. G.H.S. Hooper (Rice/Kettle)
General Editor: Dr. R. Domrow (Marks/Harris)
Taxonomic Editor: Dr. P.B. Carne (Bellas/Moore)
Public Officer: 

Regional Councillors

Victoria: Dr. A.A. Calder (Williams/Ridland)
A.C.T.: Mr. P. Ridland (Williams/O’Loughlin)
Queensland: Dr. T.A. Weir (Upton/Edwards)
S.A.: Dr. G.B. Monteith (Marks/Domrow)
N.S.W.: Mr. A.P. Walford-Huggins (Hutton/Marks)
W.A.: Mr. D. Hopkins (Greenslade/Allen)

The immediate past President, Dr. Smithers presented an apology from the new President, Dr. I.W.B. Common who was unable to attend the Annual General Meeting. It was agreed that Dr. Smithers should retain the chair for the rest of the meeting.
Dr. Smithers thanked the retiring Executive, Officers and Councillors of the Society, especially the Secretary, for the service they had given during the past year.

A motion of thanks was passed unanimously (Smithers/Southcott).

**Location and Date of 12th Annual General Meeting**

It was agreed that the 12th Annual General Meeting be held in Brisbane in May 1981 and that the nature of the meeting should be determined by a committee of members in Brisbane in consultation with the Executive.

**Other Business:**

Dr. Jenny Anderson announced that the name of the Entomological Society of Australia (NSW) had recently been changed to the Entomological Society of New South Wales.

Dr. Bock enquired whether there was a Society policy on exchange of journals with other organisations. He said that he had been approached by an East European library willing to exchange journals but unable to purchase the Society's Journal because of financial restrictions imposed by the East European government. If an exchange was impractical because of limited storage facilities could the Journal be donated.

Dr. Smithers replied that the Society does not exchange journals as it does not have a library. He said that the Linnean Society of New South Wales does donate its journals to a restricted number of organisations, although it does experience difficulties in discriminating between organisations which would like to receive the journal.

Prof. Southcott said he was opposed to donating the Journal to another organisation as it would be most difficult to discriminate between organisations requesting donations, which were likely to be numerous.
It was then proposed that "The new Executive should be asked to consider the possibility of donating the Journal to overseas organisations unable to purchase the Journal". (Thornton/Bock). The motion was carried on a show of hands.

Closed:

There being no further business, Dr. Smithers closed the meeting at 4.50 p.m.

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THE AUSTRALIAN ENTOMOLOGICAL SOCIETY
General Income and Expenditure Account
for the year ended 30th June, 1979

1978

<table>
<thead>
<tr>
<th>Income</th>
<th></th>
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<tbody>
<tr>
<td>Subscriptions Received</td>
<td>10,130</td>
</tr>
<tr>
<td>Interest Received</td>
<td>695</td>
</tr>
<tr>
<td>Annual General Meeting Costs Recovered</td>
<td>0</td>
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<tr>
<td>-------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Total Income</td>
<td>10,825</td>
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</tbody>
</table>

Subscriptions Received: 12,636
Interest Received: 426
Annual General Meeting Costs Recovered: 479
Less Expenditure

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<tr>
<th>Code</th>
<th>Description</th>
<th>Amount</th>
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<tbody>
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<td>161</td>
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<tr>
<td>641</td>
<td>News Bulletin</td>
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<td>Student Award Dinner</td>
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<td>100</td>
<td>Portrait Fund</td>
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<td>159</td>
<td>Annual General Meeting Costs</td>
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<td>Subscriptions</td>
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<td>23</td>
<td>Bank Charges and Incidentals</td>
<td>-</td>
</tr>
</tbody>
</table>

11,261 Surplus for Year 1979

Auditors Report:

We have examined the accounts and records of the Australian Entomological Society for the year ended 30th June, 1979, and report that in our opinion the attached Balance Sheet and Income and Expenditure Accounts are properly drawn up so as to give a true and fair view of the state of the Society's affairs as at 30th June, 1979.

Outstanding subscriptions to the value of $5,480 have been included in general subscriptions received. In our opinion subscriptions in arrears should be reviewed with a view to writing off approximately $360 for the 1976/77 year and $820 for the 1977/78 year.

MELBOURNE May, 1980

D.J.M. Crichton, F.A.S.A.
Australian Entomological Society

THE AUSTRALIAN ENTOMOLOGICAL SOCIETY

Balance Sheet as at 30th June, 1979

<table>
<thead>
<tr>
<th></th>
<th>1978</th>
<th>1979</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Accumulated Funds</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balance, 1st July, 1978</td>
<td>26,868</td>
<td>35,856</td>
</tr>
<tr>
<td>Add/(Subtract) Surplus/(Deficiency) for the year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Publications</td>
<td>(2,273)</td>
<td>(1,380)</td>
</tr>
<tr>
<td>General Account</td>
<td>11,261</td>
<td>6,951</td>
</tr>
<tr>
<td><strong>Balance, 30th June, 1979</strong></td>
<td>35,856</td>
<td>41,427</td>
</tr>
</tbody>
</table>

| **Current Assets** |               |
| Cash at Bank |               |
| - General Account | 3,619        |
| - Publications Account | 7,359        |
| - Special Purposes | 2,031        |
| Interest Bearing Deposit | 5,000        |
| - Publications | 26            |
| - General | 2,328          |
| Cash on Hand | 10,000        |
| Stock on Hand - At Cost | 6,151        |
| Subscriptions in Arrears |               |
| **Total** | 36,514        |
| **Fixed Assets** |               |
| Furniture and Equipment at cost less depreciation | 5             |
| **Total** | 36,519        | 41,925        |
### Current Liabilities

<table>
<thead>
<tr>
<th>Liabilities</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subscriptions in Advance</td>
<td>111</td>
</tr>
<tr>
<td>Sundry Creditors</td>
<td>552</td>
</tr>
<tr>
<td>Excess Assets over Liabilities</td>
<td>663</td>
</tr>
</tbody>
</table>

### Income

**THE AUSTRALIAN ENTOMOLOGICAL SOCIETY**

**Publications Income and Expenditure Account**

**for the year ended 30th June, 1979**

<table>
<thead>
<tr>
<th>Income</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subscriptions Received</td>
<td>7,759</td>
</tr>
<tr>
<td>Interest Received</td>
<td>545</td>
</tr>
<tr>
<td>Sales</td>
<td>9,172</td>
</tr>
<tr>
<td>Excess Assets over Liabilities</td>
<td>45,856</td>
</tr>
</tbody>
</table>

**Income**

- Subscriptions Received: 7,759
- Interest Received: 545
- Sales: 9,172
- Excess Assets over Liabilities: 45,856

**Expenditure**

- Subscriptions in Advance: 111
- Sundry Creditors: 552
- Total Excess Assets: 45,856

**Excess Assets over Liabilities**

- 45,856

**Revenue**

- Subscriptions Received: 8,043
- Interest Received: 558
- Sales: 5,410
- Total Revenue: 14,011

**Total Income**

- 17,476
<table>
<thead>
<tr>
<th>Description</th>
<th>Opening stocks 1/7/78</th>
</tr>
</thead>
<tbody>
<tr>
<td>Handbooks</td>
<td>30</td>
</tr>
<tr>
<td>Miscellaneous Publications</td>
<td>150</td>
</tr>
<tr>
<td>Journals</td>
<td>2,270</td>
</tr>
<tr>
<td></td>
<td><strong>2,450</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Less Expenditure</strong></td>
</tr>
<tr>
<td>Journals</td>
<td>2,328</td>
</tr>
<tr>
<td></td>
<td><strong>2,500</strong></td>
</tr>
<tr>
<td></td>
<td><strong>(172)</strong></td>
</tr>
<tr>
<td>Printing Costs</td>
<td>19,122</td>
</tr>
<tr>
<td>Stationery and Postages</td>
<td>470</td>
</tr>
<tr>
<td>Bank Charges</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td><strong>19,749</strong></td>
</tr>
<tr>
<td></td>
<td><strong>15,391</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Surplus/(Loss) for year 1979</strong></td>
</tr>
</tbody>
</table>
CO-OPERATION BETWEEN SCIENTIFIC SOCIETIES

As President, I accepted an invitation from the Australian Academy of Science to attend a meeting on 23rd July of representatives of the leading scientific societies and the Academy to discuss:

1. Interrelations between scientific societies, the Academy and its National Committees;

2. Ways in which the Academy can help to foster science in Australia and to act more effectively in the formulation of national science policy;

3. Problems facing scientific societies in Australia and ways in which they and the Academy can complement and support one another more effectively.

Many topics of importance to our Society were discussed, in particular cost problems confronting those societies publishing journals, and problems of costs and staffing which could affect the publication of the nine Australian national scientific journals published by C.S.I.R.O. Of special concern is the current government enquiry into the need for it to fund or subsidise the publication of scientific research results and other scholarly works. I have accordingly responded to an invitation, issued by the Academy to societies publishing journals, to prepare a submission on this subject which the Academy can use in the preparation of its submission to the Department of Science and the Environment. As the publication of research results is an integral part of scientific research, and its cost is minimal compared with the cost of research as a whole, government must accept responsibility at least for the costs of publishing the work of the scientists it employs.
I believe it also has a national responsibility to make the results of Australian research known to the world, and to foster research and promulgate the results of research on the Australian fauna and flora. Perhaps by closer co-operation between Australian scientific societies and with the Australian Academy of Science, the significance of scientific research in Australia, and the responsibilities of government to foster and fund research, can be brought to the attention of government more forcibly.

Ian Common

ENTOMOLOGICAL NEWS AROUND AUSTRALIA

VICTORIA:

National Museum of Victoria

Arturs Neboiss attended the Third International Trichopterist's Symposium at Perugia, Italy.

Ian Common visited the Museum in May to examine and photograph type specimens of the Oecophoridae. At the same time, Norman Tindale was studying the collection of Hepialidae.

Dr. Claudio Froehlich, Universidade de Sao Paulo, Brazil, visited the Museum in August to examine the collection of Plecoptera.

Monash University

Brian Roberts and Sherrie Wentworth attended the XVI International Congress of Entomology. Brian has just taken delivery of an $18,000 desk top scanning electron microscope which he won in a raffle at a conference on electron microscopy held recently at Monash.
LaTrobe University, Department of Zoology

Professor Ian Thornton and Dr. Dantharayana attended the XVI International Congress in Kyoto. Tim New will be attending the First International Symposium on Neuropterology in Graz, Austria in September and he will spend a few days in the British Museum en route.

Andrew Calder was awarded a Ph.D. for his thesis entitled "A study of the distribution and relationships of the Crepidomeninae (Coleoptera : Elateridae)".

Robert Wood was awarded an M.Sc. for his thesis entitled "Osmotic and ionic Regulation in the Sheep Blowfly Larva, Lucilia cuprina (Wied.)".

Plant Research Institute

Graeme Murphy has recently been appointed and he will be working in the stored product programme.

John MacFarlane is visiting the U.K. and the U.S.A. where he will be visiting centres involved in aspects of suppression of houseflies and other nuisance flies. He also is attending the XVI International Congress of Entomology at Kyoto.

Dave Morris and Ian McLaren are also going to the Congress. Ian will then be taking leave in the U.S.A. where he hopes to visit workers involved in the mass-rearing and release of Trichogramma.

Peter Williams recently visited B.C.R.I. and the G.E.B. in Sydney and C.S.I.R.O. Division of Entomology, Canberra for discussions concerning stored product entomology.

Recent visitors included Tony Wapshere (C.S.I.R.O., Montpellier) and Professor DeWilde (Wageningen).

Peter Ridland,
Andrew Calder
NEW SOUTH WALES:

Country Centres

Two South African entomologists, Dr. D.P. Annecke and Prof. V.C. Moran, visited John Hosking at Tamworth in July for discussions on the biological control of tiger pear. John showed them infestations of tiger pear around central and northern New South Wales prior to all three attending the Fifth International Symposium on Biological Control of Weeds held in Brisbane in late July. John also attended the Asian-Pacific Weeds Conference held at Sydney in June.

Paul Deighton, John Hosking's former assistant, has accepted a position as Technical Officer with the New South Wales Department of Agriculture at Armidale. He will be working on wingless grasshoppers under the direction of C.S.I.R.O. entomologist Reg Roberts.

Congratulations to John Rand, Entomologist with the New South Wales Department of Agriculture at Wollongbar, who has just been awarded a master's degree from the University of Queensland. The title of his thesis was: "The ecology and control of Amnemus quadrituberculatus".

Gus Campbell has taken up the position of eucalyptus dieback Entomologist at Armidale. He will be employed by the New South Wales Department of Agriculture and will work from the C.S.I.R.O. laboratories at the University of New England. Gus comes from the Australian National University at Canberra where he has just completed his studies for a Ph.D. on forest litter decomposition. He will be joined by Chris Haywood who will take on the Technical Officer position. Chris was formerly a Technical Officer on cotton entomology stationed at Narrabri.

Robin Gunning from the Agricultural Research Centre at Tamworth, attended the 16th International Congress of Entomology at Kyoto, Japan in August.
Steve Goodwin visited the Plant Research Institute (Burnley), LaTrobe University and the Newtown Research Laboratories, Tasmania in June. He had wide ranging discussions with a number of entomologists based mainly on his work on pest control in strawberries.

Robin Gunning and Neil McLaren attended the 11th annual general meeting of the Australian Entomological Society at Lyndoch, South Australia, in May.

Peter Gregg arrived in Armidale in late July to take up a position as Lecturer in pest management in the Department of Agricultural Biology at the University of New England. Peter has just completed his studies for a Ph.D. in the Department of Population Biology at the Australian National University.

University of Sydney

Doug Rugg has completed his Diploma in Agricultural Entomology. His research project was an investigation of a control system for the stable fly Stomoxys calcitrans.

John Madsen has recently resigned from the Department of Plant Pathology and Agricultural Entomology and left on 8th August. John has contributed greatly to the Department over many years and will certainly be missed.

Biological and Chemical Research Institute

Mostafa Elshafie resigned on 13th May and has returned to Egypt.

Luc-Olivier Brun of the Office de la Reserche Scientifique et Techniques Autre Mer - New Calidonia, Noumea visited B.C.R.I. from 16th - 22nd May for discussion of various aspects of Australian entomology.

Tony Wapshere of C.S.I.R.O. Biological Control Unit, Montpellier, France, visited the taxonomy section for discussions on Biological Control of Weeds on 25th June. He also gave a seminar to B.C.R.I. which was also attended by members of the Weed Society.
Ann Stocker from Genetics Department, University of Melbourne visited B.C.R.I. during June for discussions with Ben Loudon on the suitability of Australian Sciaridae for chromosome studies.

Dr. S. Sadikin, the Director General of Agricultural Research and Development, Jakarta, Indonesia, and Dr. B. Sjarisuddin of the same department, accompanied by Mr. R. Soekrie of the Indonesian Embassy were shown over the Insect collection and had discussions with members of the Taxonomy Section, on the 10th June.

AUSTRALIAN CAPITAL TERRITORY:

C.S.I.R.O., Division of Entomology

The ANIC staff are waiting with bated breath for the completion of their new quarters. Although basically finished and looking resplendent in Canberra's winter sunshine there are some minor problems holding up the final commissioning and launching of the future home for the Australian National Insect Collection. The actual move into the building is not being anticipated with such relish with the thought of moving the 1200 entomological cabinets into place. All strong and burly visitors will be welcome at the time.

After nearly two years' grounding, a major survey is to be carried out by the Division's taxonomists in the vicinity of Cooktown. Partly sponsored by outside funds, the survey will attempt to rediscover some of the species collected by Sir Joseph Banks in 1970, some of which have not been taken since and are only known by the types in the Banks Collection at the British Museum.
The first stage of the survey will take place in the September/October period this year and Don Colless, Tom Weir (Survey Leader), Ted Edwards, Rob Barrett, and Jo Cardale will take part. Tony Watson will join the party briefly during the middle of the survey as well as conducting termite investigations in Cooktown itself. The second stage will take place in April/May next year.

The ANIC has been fortunate to obtain the services of a second taxonomic illustrator in the guise of Andrew Atkins who commenced duties in mid-July. Andrew is a well known amateur entomologist from Melbourne and has published various papers on Lepidoptera. He has spent the last two years in Britain studying skippers (Hesperiidae) at the British Museum (Natural History).

The dung-beetle section has not been idle during the last year and managed the release of 114,000 laboratory bred introduced beetles represented by 10 species and 17 strains. These species, with their country of origin, were Geotrupes spiniger, France, Euoniticellus fulvus, France/Turkey, E. pallipes, Iran/Turkey, Onitis ayyulus, South Africa, O. caffer, South Africa, O. crenatus, South Africa, O. deceptor, South Africa, O. uncinnatus, South Africa, O. westermanni, Rhodesia/South Africa, and Onthophagus taurus, Spain/Italy/Greece/Turkey. Recent new recovery records for the same period include Onthophagus obliquus and Onitis vanderkelleni from North Queensland and Onitis pecuarius from south-eastern New South Wales.

Recent short term visitors have included: Dr. J.R. Clearwater (D.S.I.R., Auckland, New Zealand) who is interested in insect control with pheromones in Lepidoptera and various aspects of physiology of cerambycid beetles and diaspid scales; Dr. Elizabeth Davidson (Arizona, U.S.A.),
an expert on microbial control of vector insects; Prof. Howard Evans and Mrs. Mary Alice Evans (Colorado State University, U.S.A.) to study Hymenoptera (Sphecidae, Pompilidae and Bethylidae) and Odonata respectively; Dr. John Noyes (British Museum (Nat. Hist.), U.K.) to examine our Encyrtidae (Hymenoptera); Dr. G. Innis (Utah State University, U.S.A.), to discuss his reappraisal of Neil Gilbert's Masonaphis model; Ms. C.B. Hoffman (EMBRADA, Landrina, Brazil), who is interested in the biological control of weeds; Dr. D. Annecke (Department of Agricultural Technical Services, Pretoria, South Africa), to look at parasitic Hymenoptera (mainly Encyrtidae); Prof. C. Moran (Rhodes University, Grahamstown, South Africa), who has an interest in Neuroptera; and Dr. D.L. Chambers (Director of Attractants, Behaviour and Basic Biology Laboratory, USDA, Gainesville, Florida, U.S.A.) who spent July studying the Insect Behaviour programs being undertaken by the Division.

A long term visitor is Heinz Hämel from Frankfurt -a. Main, West Germany who is here until February, 1981. He will be studying the interaction between fungal pathogens and termites and will be working with Richard Milner and Michael Lenz.

The Division was the venue for an International Symposium on Autocidal Control Techniques from 14th - 19th July, organised by Geoff Foster. Autocidal means, basically, self-killing, and covers control methods based on the release, into the wild population, of genetically altered or sterile individuals. There were some 21 participants, from U.S.A., U.K., Canada and Papua New Guinea, as well as Australia, and topics covered included: theory of autocidal control, case histories of autocidal control programs, ecological aspects of autocidal control and the role of ecology in planning and assessment, maintenance of quality in strain development, and mass rearing and logistics of autocidal control. The week's activities ended with a visit to the Division's sheep blowfly control trial area near Canberra.
The Division's new JEOL JSM35c Scanning Electron Microscope has now arrived and is fully operational and producing excellent results. The new SEM has a resolution of 40Å (4nm) whereas the old unit could manage only 200Å (20nm) and this is reflected in the maximum magnification of 180,000X. But it is perhaps in the low magnification end of its performance that most of the microscope's users will be interested. The minimum magnification of the new unit is 10X, which should permit the micrography of specimens three times bigger than previously. It also has superior performance at low accelerating voltages which will allow its use with uncoated specimens - an obvious advantage where users do not wish to coat unique specimens.

Overseas travellers during this period included: Murray Wallace (August-September) who visited various C.S.I.R.O. dung beetle outposts in France and South Africa; Eric Holm (July-September) who was in France collecting dung beetle mites and examining breeding techniques; and John Lawrence (September-October) who, while on recreation leave in the U.S.A., examined Coleoptera at various museums there.

Doug Waterhouse, Jim Cullen, Ernest Delfosse and David Briese attended the 5th International Symposium on Biological Control of Weeds held in Brisbane from 22nd - 29th July. Ken Harley was the chairman of the organising committee and the proceedings of the symposium are to be edited by Ernest Delfosse.

Tom Weir
QUEENSLAND:

Department of Primary Industries

Deputy Director, Merv Bengston, is off overseas from 1st August to 17th September. First port of call is the International Congress in Kyoto, Japan, and thence to England, France and Israel where he visits laboratories and chemical companies involved with stored grain protection.

John Turner visits India for two months from the beginning of September to search for and study egg parasites of Nezara viridula. His tour will be in collaboration with the National Center for Biological Control and includes stops at Ludhiana, Lucknow and Bangalore.

Dick Drew spent most of June in Papua New Guinea carrying out field surveys of dacine fruit flies with Queensland Plant Quarantine Officer, Dan Curry. They visited areas around Port Moresby, Daru, Bulolo and the Central Highlands and report a staggering number of new species. Much fresh material was returned to Brisbane in liquid nitrogen for electrophoresis studies.

Queensland Institute of Medical Research

Bob Domrow and Leith Moxon spent a fortnight at Bamaga, just south of the tip of Cape York Peninsula, in July collecting chigger mites and other ectoparasites from small mammals and birds. They were pleased to be able to sample all the small mammal species known from this interesting region.

In June, Brian Kay and Pat Marks, with Peter Liehne of the Microbiology Department, University of Western Australia, made an aerial inspection of the site for the proposed giant Burdekin Dam and visited irrigation areas on the ground with a view to assessing potential mosquito problems. Both Brian and Pat will be attending the International Congress in Kyoto where Pat gives a paper on mosquito problems caused by industrial development in Australia.
Queensland Museum

Gordon Gordh, of the Division of Biological Control, University of California at Riverside, revisits the Museum for 6-8 weeks from early August. He and Ted Dahms will collaborate on putting the finishing touches to their paper reviewing the Australian genera of Encyrtidae described by A.A. Girault.

Bill Baar, of the University of Idaho, and Dave Annecke, of the National Collection in Pretoria, were delegates to the Weeds Conference who took the opportunity of visiting the Museum in July in connection with their interests in Cleridae and Encyrtidae respectively. A colleague of Dave's from the South African National Collection, Mervyn Mansell, visited also to look at the thread-winged lacewings, Crocinae. He spent a couple of weeks in Brisbane during July on a private visit during which he managed to travel inland and to Cairns and Alice Springs where he collected a few crocine larvae himself. After Brisbane he goes to Sydney and Canberra before flying home via a week stop-over in Perth to harrass the local thread-wings.

Entomological activity of a somewhat novel nature at the Museum has occupied, among others, Society members Vince Salanitri, Rudi Kohout and Geoff Monteith in producing display casts of giant magnetic termite mounds. These will eventually form the focus of the Animal Architecture gallery in the new Queensland Museum building. The casts were made from latex moulds taken by a party which Geoff led in June to Princess Charlotte Bay, north of Cooktown, a major occurrence of the Queensland magnetic species, *Amitermes laurensis*. 
University of Queensland

On 23rd July the Entomology Department farewelled with regret Howard and Mary-Alice Evans who return to University of Colorado after completing a year-long sabbatical in Brisbane. During their extensive travels in Australia from their Brisbane base they made fine collections of wasps and dragon-flies, and Howard made good progress in his studies of nesting behaviour, especially in the pompilids and cercerids.

Gordon Hooper spent a week in Narrabri in July discussing cotton problems in connection with his additional new hat as leader of the Cotton Research Group at the University of Queensland.

Suzanne Batra, of the Beneficial Insect Introduction Laboratory, Beltsville, Maryland, and a delegate to the Weeds Conference in Brisbane visited the University for discussions with Ken Walker on native bees. She is interested in secretions of Dufours Gland and is travelling north to Cairns for two weeks to collect anthophorid and collected bees for physiological studies. Also on the bee front, Elizabeth Exley is due back soon from her sabbatical which she is winding up with visits to bee colleagues at the University of Kansas and the Smithsonian before swinging home via the International Congress in Kyoto.

Griffith University

Bob Taylor, from C.S.I.R.O., Canberra, and Bert Holldobler, from Germany, both ant specialists, visit the School of Australian Environmental Studies to give lectures on ants on 8th - 9th September. Bob also talks to the Entomological Society of Queensland on the evening of the 8th.

Roger Kitching will be attending the International Congress in August.
Department of Forestry

Ross Wylie will be attending the eucalypt dieback conference being arranged by the C.S.I.R.O. Division of Forest Research in Canberra in early August. During a stopover in Sydney he will address the Australian Museum Society on dieback and visit the New South Wales Forestry Commission on 18th August.

5th International Symposium on Biological Control of Weeds

Arranged under the symbol of *Cactoblastis* and the prickly pear, this was a major event in Brisbane and lasted for 9 days in late July. It attracted exactly 100 delegates, the majority of whom were entomologists and 50% of which came from overseas. A full programme was provided including bus tours to inspect release sites and weed problems in southeast Queensland.

Geoff Monteith

SOUTH AUSTRALIA:

Department of Agriculture

Peter Williams, Plant Research Institute, Burnley, visited the Northfield Research Laboratories on 8th May.

Dick Drew, Department of Primary Industries, Queensland, visited Northfield on 12th May to discuss the taxonomy of fruit flies with Greg Baker.

Prof. Ken Hagen, University of California, visited Northfield on 19th May and had discussions with the Entomology Group.

Tony Wapshere, C.S.I.R.O., Montpellier, visited Northfield and head office on the 13th June. He discussed the biological control of insects and weeds with both the Entomology and Weeds groups.
Derek Maelzer has returned to the Waite Institute after 5 months study leave in Malaysia working on insect pests of cashew nuts and cocoa. He is winding down his research on citrus entomology and has started a long-term investigation, with Dudley Pinnock, of insect pests of seed lucerne crops in South Australia, with special reference to irrigated crops. Derek and Dudley will attend the Heliothis workshop in Toowoomba in September.

Peter Miles will give a review of "The Role of Chemical and Biological Methods of Pest Control in Dryland Farming" at the "International Congress on Dryland Farming", which will be held in Adelaide from 25th August to 5th September, 1980. He also attended by invitation the meeting of the Phylloxera Research Management Committee of the Victoria Department of Agriculture held in Mildura on 19th June.

Besides Helen Brookes, Tom Browning, Peter Miles and David Morgan, Dudley Pinnock will also attend the XVIth International Congress of Entomology at Kyoto.

David Morgan will be on study leave until 31st July, 1981. He will visit institutions in Indonesia, Japan, Italy, France and England.

Mr. F. Verberne, who came to the Department for 6 months as a visiting student, and who worked on the influence of temperature on the relationship between the predator Leis conformis and the aphid Macrosiphum rosae, has returned to the Agricultural University in Wageningen, Holland where he will complete his degree studies.

Mr. Yugal Kishore Prasad, an M.Sc. graduate from IARI, New Delhi, has enrolled for a higher degree and will study the interaction of the greenhouse whitefly Trialeurodes vaporariorum and its parasite Encarsia formosa in an attempt to determine why the biological control of the whitefly is no longer effective. His study will be supervised by Derek Maelzer.

Dennis Hopkins
WESTERN AUSTRALIA:

Last year a botanist from the Western Australian Herbarium found ten specimens of the rare subterranean Rhizanthella orchid on a property near Ravensthorpe. Members of the W.A. Orchid Society found another eighteen specimens in June this year. Within hours of its re-discovery, Dr. John Cooke, of Oxford Scientific Films, arrived from Britain to search for, and film, the pollinator of this plant. He now believes that he has found the culprit, a fly of the genus Magaselia, and film footage obtained during his investigations here will be used in forthcoming documentary on plant reproduction.

Recently Dr. Bill Humphries has arrived from Bath University to join the W.A. Museum Department of Biological Survey. Bill will be surveying the invertebrate fauna of the Feaston Goldfields.

Dr. Stewart Peck of Carleton University Department of Biology has recently spent a couple of months in the south-west of the State sampling forest litter invertebrates. Samples were specifically aimed at obtaining beetles of the family Anisotomidae on which Stewart is currently working.

Nick Monzu and Andy Sproul of the W.A. Department of Agriculture have just returned from the recent conference in Canberra on autocidal control of insects. The Department has also recently been visited by Dr. Wapshere of the C.S.I.R.O., Montpellier station. While in the State Dr. Wapshere visited south-west localities to discuss the possibilities for biological control of weeds such as dock, doublegee and Paterson's curse.

Drosophila geneticist Marvin Druger from Syracuse University is currently working as a visiting fellow in the WAIT School of Applied Science. While here, Marvin has set aside his entomological interests and is working on new methods of educating college biology students.

Jonathon Majer
TASMANIA:

At a meeting of local members of the Society on 30th June, Dr. W.M. Kain, Ministry of Agriculture and Fisheries, New Zealand, gave an inspiring talk on "Current thoughts on pasture pest control in New Zealand".

David de Little, Entomologist with APFM, Burnie and wife Cath have recently returned from six weeks in U.K. and Eire. While there David visited British Museum (Natural History) to examine type specimens of Chrysomelidae, and Dr. Brian Selman, Lecturer in Entomology, Newcastle-upon-Tyne. He also climbed Mt. Snowdon and Ben Nevis in perfect conditions.

Department of Agriculture

Several interstate and overseas entomologists visited the Department during the period. Stephen Goodwin, Horticultural Research Station, Gosford, New South Wales, visited during the first week in June for discussions on pest control in strawberries and the use of Phytoseiulus in glasshouse and field crops. Tony Wapshere, C.S.I.R.O. Biological Control Unit, Montpellier, France, spent almost a week in Tasmania in mid June for discussions with weeds officers and entomologists on further possibilities for biological control of weeds and insects. In late June Bill Kain, spent a couple of days discussing entomological problems especially pests of forage crops and pasture, currant borer moth and mites.
C.S.I.R.O.

Ray Akhurst and Robin Bedding travelled widely during the period. In May, Ray visited Dunedin, New Zealand for a joint meeting of Australian Society of Microbiology and New Zealand Microbiology Society in which there was a section on insect pathology. Robin travelled to Adelaide for the ANZAAS conference at which he presented a paper in the symposium on Insect Pest Management. He was back in Adelaide the following week to address a meeting of Australian Society for Parasitology. During June both Robin and Ray visited Heytesbury, Victoria to make an experimental release of Heterorhabditis nematodes in conjunction with Victorian Department of Agriculture for control of the redheaded pasture cockchafer Adoryphorus couloni.

Keith Taylor will be in Canberra from 11th - 29th August curating the Psyllidae prior to his retirement at the end of the year. Keith commented on the Sirex wasp project to the effect that although there have been two dry summers which might have been expected to stress pines there was no noticeable increase in mortality from the wasp in the Pittwater plantation.

University of Tasmania, Department of Agriculture

Two honours students have almost completed projects. They are Christine Stone who is studying taxonomy and population dynamics of the eriophyid Acacidrus sp. on Eucalyptus pulchella and Tony Fist who is comparing biology and behaviour of Myzus persicae and Brevicoryne brassicae on cabbage.

Margaret Williams
PAPUA NEW GUINEA:

L.A.E.S. at Kerevat was visited in May by Peter Maddison and Barry Eykel (from D.S.I.R. Auckland) who photographed pest problems on the station, and Terry Bourke (from FAO, Western Samoa) who examined coconut disease problems of seednuts. Yael Lubin (Wau Ecology Institute) spent a week collecting spiders and was excited by the fauna there, finding another species of Nephila, a new uloborid species and a very unusual jumping spider. Also in July, Mike Pearson from UPNG visited to assist Malchus Arura with a project on Tarophagies proserpina, the vector of the taro virus. Stuart Smith also reports that Dr. John Moxon recently took up a posting at L.A.E.S. His project will be to develop a technique for the biocontrol of Pantorrhyes (the main cocoa pest in Papua New Guinea) by manipulating crazy ants and he will also examine the possibility of crazy ants attaining pest status in certain domestic and agricultural situations. Dr. Moxon recently completed his Ph.D. on aggressive interactions between ants in U.K.

From D.P.I. Bubia, Fred Dori reports that Dick Drew and Dan Curry recently visited and collected some interesting samples of fruit flies at Bulolo. They have left their traps for further sampling to be done in the Markham Valley. Graham Young is presently in Hawaii where he is looking for parasitoids of Nezara viridula and Ophiomyza phaseoli as possible control agents for Papua New Guinea.

Brian Thistleton reports from Kuk Tea Research Station that he has been joined by Roy Masamdu who is embarking upon an entomological career. Brian attended the Second Papua New Guinea Food Crops Conference where he gave a paper on problems associated with pesticide usage on food crops in Papua New Guinea. He also presented Graham Young's paper on pests of grain and vegetable legumes in Papua New Guinea and their control. Elaine Brough from UPNG, also attended the conference and gave a short paper on observations of citrus pests in the Port Moresby environs.
Phil Spradbery tells us that the irradiation studies being conducted at the screw worm fly unit indicate that the species here is similar to the American fly in the dose levels required for sterilisation. They have recently collected sterile egg masses from the field after release of sterile males. The unit has had quite a number of visitors during the past 3 months. Dr. Hutasoit from Indonesia visited with Dr. W.J. Pryor and Dr. N.M. Noble from Australia, and Lindsay Barton Browne and Les Readshaw came up from Canberra. Phil has just returned from Canberra where he attended a meeting on autocidal control. He is presently hosting a visit from Dr. D. Wilson from U.S.D.A. and Dr. E. Krafeur from Iowa State University. Both these visitors share the mutual interest of mass rearing of screw worm fly and the ecology and population dynamics of this pest. Phil also reports a case of myiasis on the tree kangaroo - a new record.

Paul Hudson from Malaria Control tells us that a research study on the cytogenetics of the *Anopheles punctulatus* complex of mosquitoes (malaria vectors) has recently been initiated in Papua New Guinea. The project is aimed at the genetic identification of the different members of the complex and their possible role in the epidemiology and control of Malaria. The work is being undertaken by 2 entomologists from the Malaria Control Programme in collaboration with Prof. T. Kanda from St. Marianna University, Japan.

Elaine Brough
NEWS FROM AFFILIATED SOCIETIES

Entomology Section, Royal Zoological Society of N.S.W.

The Annual General Meeting and Election of Officers was held on 10th June, 1980.

The Annual Report indicated that a substantial improvement had occurred over the preceding year, showing that changes made over that period had had very satisfactory results.

The election of officers resulted in the following appointments: Chairman, C.E. Chadwick; Honorary Secretary, J.R. Turner; Honorary Treasurer, W.J. Wilson; Councillor, L. van Raalte.

The rest of the evening was devoted to notes and exhibits.

Geoff Williams showed colour slides with appropriate commentary, of a number of insects and spiders from Queensland, New South Wales and Western Australia.

Clarry Chadwick illustrated by colour slides the various stages and the parasites and predators of the psyllid *Eucalyptolyma maideni*.

Jack Wilson demonstrated by colour slides the larvae of several species of butterflies.

Dallas Doolan gave a qualitative assessment of the various orders and families of insects which were collected at mercury vapour light in a suburban backyard over the period January to May 1980.

C.E. Chadwick
Entomological Society of Victoria

At the Annual General Meeting in June, David Stewart was re-elected President and gave his presidential address on Insectivorous Plants. At the April meeting, Andrew Calder talked about his recent visit to Europe.

Speakers for meetings later this year include Shane McEvey (22nd August - Visit to Islands of Cape York) and Tim New (24th October - Prospects for biocontrol of Australian acacias in Southern Africa).

Tim New

Entomological Society of New South Wales
(formerly Entomological Society of Australia (N.S.W.)

With the new Society name, a new Journal name and a new symbol (*Monochirus multispinosus*) for our monthly circular we hope a new era has arrived for our Society. The new name now makes a clear distinction between our Society and the Australian Entomological Society. Thus we hope confusion will cease, and correspondence will go directly to the correct Society - especially the cheques. Our Journal, issued annually, *General and Applied Entomology* considers for publication original work in any branch of entomology or related subjects. We see it as a complementary Journal to that to the Australian Entomological Society.

We have a strong nucleus of professional and amateur entomologists as active members and our future aim is to encourage more amateurs and students to join in our activities which include monthly talks and collector's nights at the Australian Museum, visits to various institutions and field trips.

Jenny Anderson
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73. N. Richardson, S.A.
74. E.N. Marks, Qld.
75. Jwo-Ywee Jan, S.A.

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77. T.C.R. White, N.S.W.
78. P. Bailey, S.A.
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83. I.W.B. Thornton, Vic.
84. P. Ramesh, S.A.
85. R. Laughlin, S.A.
86. W. Greenslade, S.A.
87. C. Boros, S.A.
88. J.M.E. Anderson, N.S.W.
89. R.A.I. Drew, Qld.
90. T.W. Hogan, Vic.
91. F.D. Morgan, S.A.

Absent:

D. Coleman, U.S.A.
G.F. Gross, S.A.
D. Lee, N.S.W.
J.R.E. Hardy, S.A.
B.R. Hutson, S.A.
PROTECTION OF INSECT SPECIES IN N.S.W.

The Service recognises the importance of the conservation of insect species and the fact that many species are rare or endangered principally due to habitat destruction. One of the Service's long term objectives is to reserve as national park or nature reserve samples of all habitat types thereby ensuring the survival of most habitat-specific species.

The Service further recognises that a situation exists where some insect species are already rare due to habitat destruction and their populations are being further dessimated by commercial collecting. In an effort to curb these activities it is proposed to legislate to protect several of the rarer species by amending the National Parks and Wildlife Act.

It is proposed that the initial species to be protected will be:

- **Dryococelus australia** Lord Howe Island Phasmid
- **Argynnis hyperbius inconstans** Australian fritillary
- **Ornithoptera richmondia** Richmond birdwing
- **Tisiphone abeona joanna** Joanna's swordgrass brown
- **Euschemon rafflesia** Regent skipper
- **Zelotypia stacyi** Bent-wing swift moth
- **Trioplognathus griseopilosus** Grey Christmas beetle
- **Anoplognathus viridiaeneus** King Christmas beetle
- **Tettigarcta crinita** Hairy cicada
- **Arachnoeampa richardsea** Richard's glowworm

It should be noted that the above is only in the proposal stage and not everyone will agree with the initial selection of species, however, if our proposals are accepted and the mechanisms of legislation are enacted, then additions and/or deletions from the schedule will be by gazettal only.
I would be interested to hear comments on this proposed legislation and would stress that it is designed for the conservation of species and not for the limitation of bona fide research by professional and amateur entomologists.

Ian Mahood,
Acting Chief of Scientific Services,
National Parks and Wildlife Service,
P.O. Box N 189,
Grosvenor Street,
SYDNEY, N.S.W., 2000

Request for Information

Saturniidae

Stephen E. Stone would like to correspond with workers who are studying silk moths (Saturniidae) in Australia. He is also interested in buying or trading living or papered specimens.

His address is: National Parks Service,
Denver Service Center,
755 Parfet Street,
P.O. Box 25287,
Denver,
COLORADO, 80225, U.S.A.

F.R.T. Frey located

Jim Kitzmiller, Florida Medical Entomology Laboratory, has now located F.R.T. Frey (News Bulletin 16:2). He writes "... I have just learned that F.R.T. Frey is an Austrian, not Australian, the confusion arising from a poor translation of the Chinese text ... Frey is evidently still alive, and a high wheel in the Chinese medical hierarchy."
Addresses Unknown

Would any person knowing the current addresses of the following members please contact the Secretary:

Mr. R. Zietek, previously of 25 Dale Road, Camira, Queensland, 4300

Mr. C.R. Maclellan, previously of Research Station, Kentville, N.S., Canada

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Articles, Notes, Letters to the Editor and other material for the News Bulletin should be sent to the News Bulletin Editor.

Deadline for copy for next issue is 31st October, 1980