



G. Thompson

ENTOMOLOGICAL SOCIETY OF QUEENSLAND NEWS BULLETIN



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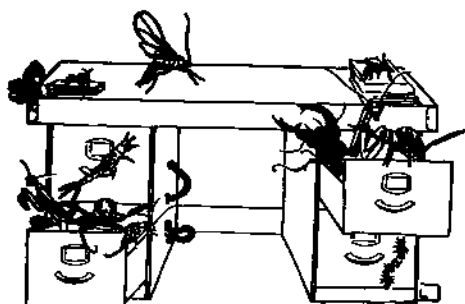


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The issue of this document does NOT constitute formal publication. It should not be reviewed, abstracted or quoted from without the consent of the Council of the Entomological Society of Queensland. Authors are alone responsible for the views expressed.

ANNUAL REPORT FOR THE YEAR 1982

The Council of the Entomological Society of Queensland takes pleasure in presenting its Annual Report for the year 1982.

The Society is now 60 years old. It has been a successful year with good attendance at the monthly General Meetings - possible a reflection of the diverse combination of overseas and interstate speakers the Society has been fortunate enough to have during 1982.

A very enjoyable Society bar-b-que was held at CSIRO Long Pocket Laboratories immediately before the December Notes and Exhibits meeting, at which a variety of research activities of the various local entomological institutions were outlined.

The Entomological Society of Queensland awarded a prize this year in the Junior section of the Queensland Science Teachers Association Science Contest. A bursary of \$20.00 was awarded to Master John Horstman from Toowoomba Grammar for his exhibit entitled "A Freshwater Study".

Details of the years activities together with reports by the Treasurer and Convenor of the Publications Committee follow.

(a) Membership

The number of members increased only slightly despite the election of 17 new members during the year. There were 7 resignations and 10 terminations of membership under Clause 4(f) of the Constitution. Currently, there are 316 members representing 123 Ordinary members, 130 Country members, 43 Associate members, 4 Honorary/Life members and 16 Unfinancial members.

(b) Council Meetings

There have been ten Council meetings during the year at which the attendance was as follows -

Dr D. Sands	10	Mr I. Fanning	8
Dr R. Suthurst	5	Miss J. Grimshaw	8
Mr E. Dahms	8	Dr R. McFadyen	10
Miss M. Schneider	10	Mr C. Hagan	6
Mrs M. Harris	10		

(c) General Meetings

Nine General Meetings were held during the year with an average attendance of 44 members and visitors. The Main Business of these meetings was as follows -

- March 8 Presidential Address, Mr E. Dahms - "Thoughts of a Museum Entomologist"
- April 13 Dr D.E. Hardy - "The Role of Taxonomy and Systematics in Integrated Pest Management Programmes"
- May 18 Professor J. Edman - "Are Mosquitoes Gourmet or Gourmand?"
- June 15 Notes and Exhibits as follows:-
 (a) Dr R. Kitching - "Ant Lions and Ant Lion Pits"
 (b) Dr G. Monteith - "Earthwatch Expedition to Bellenden Ker"
 (c) Mr B. Wilson - "An Itchy Problem in Rearing a new Bruchid Beetle introduced for Control of *Acacia nilotica*.
 (d) Mr R. Piper - "An Expedition to East Gippsland"
 (e) Dr B. Stone - "Artificial feeding of the Australian Paralysis tick *Ixodes holocyclus* and secretion of Toxin"
- August 2 Professor H.F. Van Emden - "Aphid Responses to Nutrition on Plant and Artificial Diets"
- September 13 Dr R.H. Wharton - "Reflections on Malaria and Filariasis in Relation to the UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases"
- October 11 Dr J. Majer - "The Place of Invertebrates in Environmental Management"
- November 8 Dr R.W. Sutherst - "Climatic Comparisons in Entomology or How to Choose a Holiday Venue"
- December 13 Notes and Exhibits as follows:-
 (a) Dr I. Galloway - "Australia's first primitive scelionid"
 (b) Ms W. Forno - "Biology of a Root Feeding Waterhyacinth Moth, Native to South America"
 (c) Mrs N. Riding - "Groundselmania"
 (d) Dr E. Marks and Dr D. Sands - "Cracking a Mosquito's Secrets"
 (e) Mr C. Wild - "The Corumba Weevil for Biological Control of Parthenium Weed"
 (f) Dr V. Davies - "Brachypelma - The Orange Knead Tarantula"
 (g) Dr G. Monteith - "A Terrestrial Anisopterous Dragonfly larva"

Publications Committee Report

I wish to extend my thanks to those who have assisted during the year especially Judy Grimshaw, Rachel McFadyen, Marlene Harris and my contacts in the different departments who have had their arms twisted at the last minute to provide articles or news for the "About People" segment.

Council approved a change in format for the Bulletin with the introduction of bolder type for segment headings and illustrations where appropriate for these headings. I must express special thanks to Cobie Ellwood for these illustrations and also for producing the

excellent "Insect Asides" column. Cobie is now our resident cartoonist and with only the nearest outline of what is required produces a gem every month.

Don Sands our president has been keen to have a "Letters to the Editor" section and I hope members have found this section informative and interesting. With only 8 Bulletins during 1982 we have already reached 118 pages. This could have been much larger as we are still awaiting two articles which were to have appeared during the year. From the feedback I have received most comments have been favourable. We are in the process of arranging book reviews for next year and I would welcome any other suggestions from members. Sadly, however, there were two obituaries during the year.

As there is a dearth of material for publication next year please feel free to contribute. If contributions are received early in the year they will appear in the next Bulletin.

Ian Fanning
PUBLICATIONS CONVENOR 1982

Treasurer's Report

The Society's financial position remains sound despite a year of some marked cost increases - in particular, printing and postage costs. Regrettably, printing costs rose by 75% in 1982 compared with the previous year. Clearly this is unacceptable and it is hoped to overcome some of the problem in 1983 with a change in printer since not only did the present printer's charges increase dramatically during 1982 but also fluctuated inexplicably from one Bulletin to another. Postage costs for the year rose by 34%. One hundred Bulletin binders were purchased at a cost of \$3.00 each (total \$300) and are on sale for cost. One thousand greeting cards of a new design were purchased at a cost of \$99.79 (excluding envelopes).

In September one of the Society's \$500 Interest Bearing Deposits which had been invested for 12 months at 12% matured and it was decided to transfer this to the Savings Investment Account which is currently earning 12.5%. A further \$500 was transferred from the General Account to the S.I.A. in October. There is now \$1670.03 in this account and during the year it earned \$93.24 interest. In addition, the Society has a \$500 Interest Bearing Deposit invested for 3 months at 13.5% p.a.

The year finished well with respect to payment of subscriptions with only 16 unfinancial members. Seventy-seven members paid in advance for 1983. Subscriptions are due on 1st January of each year and early payment is always much appreciated.

M.A. Schneider
HONORARY TREASURER 1982

PUBLICATION COMMITTEE ACCOUNT

		Postage	338.91
Balance 1/1/82	35.00	Address labels for Bulletins	31.90
From General Account	386.51	Red Spots	0.70
		Balance 31/12/82	50.00
			<hr/>
			421.51
			<hr/>

SECRETARY'S PETTY CASH

		Suppers	53.35
Balance 1/1/82	15.00	Postage	2.10
From General Account	55.45	Balance 31/12/82	15.00
			<hr/>
			70.45
			<hr/>

TREASURER'S PETTY CASH

		Postage	9.63
Balance 1/1/82	10.00	Stamp Duty	1.40
From General Account	17.53	Cash Receipt Books (2)	6.50
		Balance 31/12/82	10.00
			<hr/>
			27.53
			<hr/>

PERKINS MEMORIAL FUND

		Expenditure	N I L
Balance 1/1/82	105.75	Balance 31/12/82	105.75
			<hr/>

REFRESHMENT FUND

		Drinks	21.96
Balance 1/1/82	22.75	Glasses	10.62
Sales	41.65	Balance 31/12/82	31.82
			<hr/>
			64.40
			<hr/>

NOMINATIONS FOR 1983 OFFICE BEARERS

The following nominations for members of the Council and Publications Committee have been received by the Secretary.

Position	Nominee	Place of Work	Nominated Seconded
President	Dr R. Suthurst	C.S.I.R.O.	R. McFadyen M. Harris
Snr Vice President	Miss M. Schneider	U of Q	D. Sands M. Harris
Treasurer	Dr R. McFadyen	Lands Dept	R. Suthurst M. Schneider
Secretary	Mrs M. Harris	Q.I.M.R.	M. Schneider J. Grimshaw
Publ. Committee Convenor	Mr I. Fanning	Q.I.M.R.	E. Dahms D. Sands
Hon Auditor	Mr K. Cantrell		M. Harris I. Fanning
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Councillors 3 positions	Mr E. Dahms	Qld Museum	M. Schneider M. Harris
	Mr C. Hagan	U of Q	M. Schneider D. Sands
	Ms J. Grimshaw	D.P.I.	M. Harris R. McFadyen
	Ms G. Sarnes	Qld Museum	R. Suthurst E. Dahms
	Dr M. Zalucki	U of Q	J. Grimshaw R. McFadyen

Since there are five nominations for the three Council positions, there will be an election at the A.G.M. on March 14th. Election will be by ballot of members present at the meeting. Any member unable to attend may appoint, in writing to the Hon. Secretary before the meeting, a proxy to vote on her/his behalf. Such proxy must also be a member of the Society.

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BOOK REVIEW

ECONOMIC FRUIT FLIES OF THE SOUTH PACIFIC REGION: R.A.I. Drew, G.H.S. Hooper & M.A. Bateman

Illustrated by M.C. Romig. 2nd ed. 139 pp, 59 figs. Printed by Watson Ferguson and Co. in Brisbane for the Queensland Department of Primary Industries. 1982.

The long-awaited second edition of this extremely useful book is now available. Most of the changes from the first edition appear in the Taxonomy section by R.A.I. Drew. These include the addition of *Dacus aquilonis* (May) to the list of economic species descriptions and the addition of 18 new species to the updated key (14 of which are those described by Drew and Hancock in 1981). One small omission was that of *D. aquilonis* from the list of responses to male attractants. The description of the geographic range of *D. dorsalis* Hendel has been adjusted to exclude Australia since the northern Australian species originally described as *D. dorsalis* (as event which was, in fact, to some extent responsible for the first edition) has now been determined as *D. opiliae* Drew and Hardy.

I was a little disappointed to find no description or illustration of *D. opiliae*, which I felt could have been included in the subsection on "species which may be confused with *D. dorsalis*". However, Dr Drew's omission is perhaps understandable in view of the extreme difficulty of separating *D. opiliae* and *D. dorsalis* on morphological differences and the unlikelyhood of *D. opiliae* becoming an economic pest.

The other two major sections, on the sterile insect release method by G.H.S. Hooper and on chemical control by M.A. Bateman, have been left essentially unchanged from the first edition. Several more recent references have been added to the comprehensive reference list on S.I.R.M. and the section remains one of the most readable reviews of S.I.R. techniques available. M.A. Bateman's section on chemical control includes extra information on female fly response to protein lures and is a clear and concise overview of the subject (a small point - suggested costs for the male lure/insecticide "cordelitos" could have been updated from 1978 to 1982 prices).

The final section by R.A.I. Drew on collection and preservation of fruit flies includes an updated list of suppliers for the various male lures (NB. International Pheromones Ltd of England also stocks trimedure).

The second edition of this publication, like its predecessor, will be welcomed by everyone involved in fruit fly research and control. The taxonomic section (comprising 97 of the 139 pages) offers a vast amount of information on the Dacinae of the South Pacific region including distribution, known host plants and economic status or potential; as well as clear detailed illustrations (by M.C. Romig) and a reasonably unambiguous key. The sections on S.I.R.M., chemical control and trapping provide a great deal of valuable information to even those fruit fly workers whose geographic field of study is some considerable distance from the South Pacific.

This attractive book with its olive green cover (c.f. the burnt orange of the first edition) depicting the world's three most dreaded fruit fly pests is well made and reasonably sturdy to cope with the thumbing through to which it will undoubtedly be subjected. I have no doubt that this edition will be as well received and as widely sought after as the first.

A.R. Hill, Western Australian Dept Agriculture.

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A LEGUME THAT TRAPS INSECTS

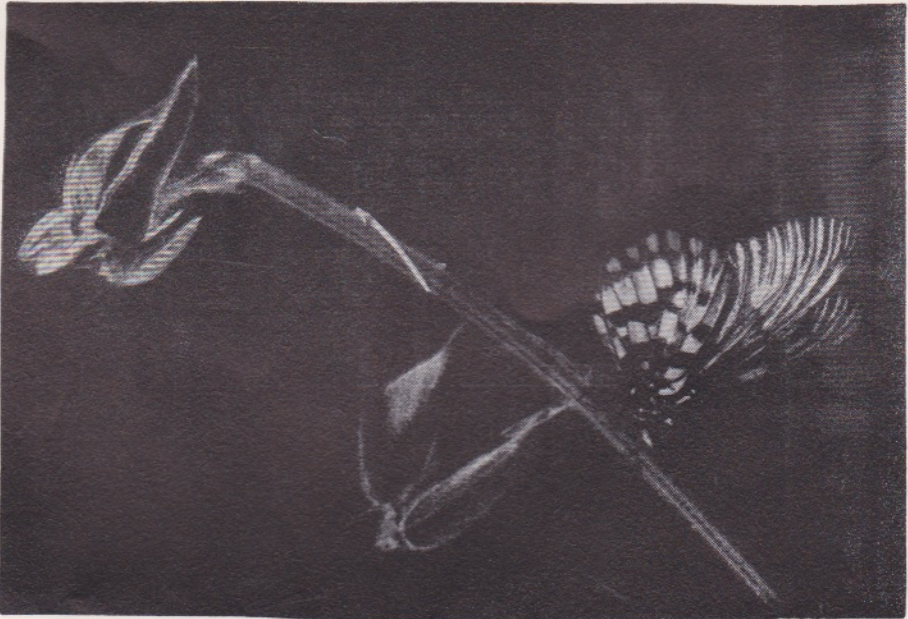
Last year we heard (Nature 295 : 320-321) about the sticky varieties of the introduced legume *Stylosanthes*, and their ability to trap and kill tick larvae. It may, therefore, be of interest to members that these stylos are not the only legumes capable of trapping insects.

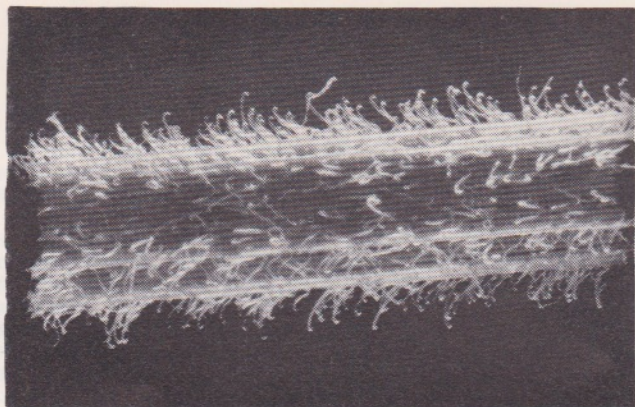
The photograph shown here is of a butterfly (*Acraea andromacha*) trapped on a stem of the introduced legume, *Desmodium uncinatum* (Silverleaf Desmodium). This legume was introduced as a pasture plant from South America, and is now found along much of coastal Queensland and northern N.S.W. It is a coarse, hairy plant, and the leaves are characterized by the presence of a broad, irregular silver band along the midrib. The pale lilac-pink flowers produce pods covered with dense, hooked hairs, which stick readily to animals.

Insects are trapped on the small by hooked spines covering much of the stems of this species of plant. Though feeling sticky to the touch, no droplets are evident on the hairs when examined through a microscope. The apparent stickiness is probably the result of the 'Velcro'-like action of the hooked spines. The plant is a vigorous climber and the spines probably serve as its means of attachment to a substrate.

Besides the butterfly, this particular plant had also caught a honey bee and several beetles (Coccinellidae and Lycidae).

G. Maywald





BRACHYPELMA - THE ORANGE KNEED TARANTULA
 (illustrations to accompany p 130 Vol 10 no 10)



MOSQUITO TAXONOMIST RETIRES

A dinner in honour of Dr Elizabeth Marks on her retirement will be held at the Melbourne Hotel, West End on Friday 29th April, 1983 at 7.30 p.m. You are cordially invited to attend.

Cost: \$17.50 per head

Drinks extra

R.S.V.P.: 18th April, 1983
The Director,
Queensland Institute of
Medical Research,
Bramston Terrace,
Brisbane, Q. 4006.

* * * * *

Dr Marks will continue to work on as an honorary research fellow at Queensland Institute of Medical Research

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LETTERS TO THE EDITOR

Dear Sir,

Thank you very much for your generous prize which I received at the recent Science Contest. I look forward to entering my new Science Project next year. One again I add my thanks

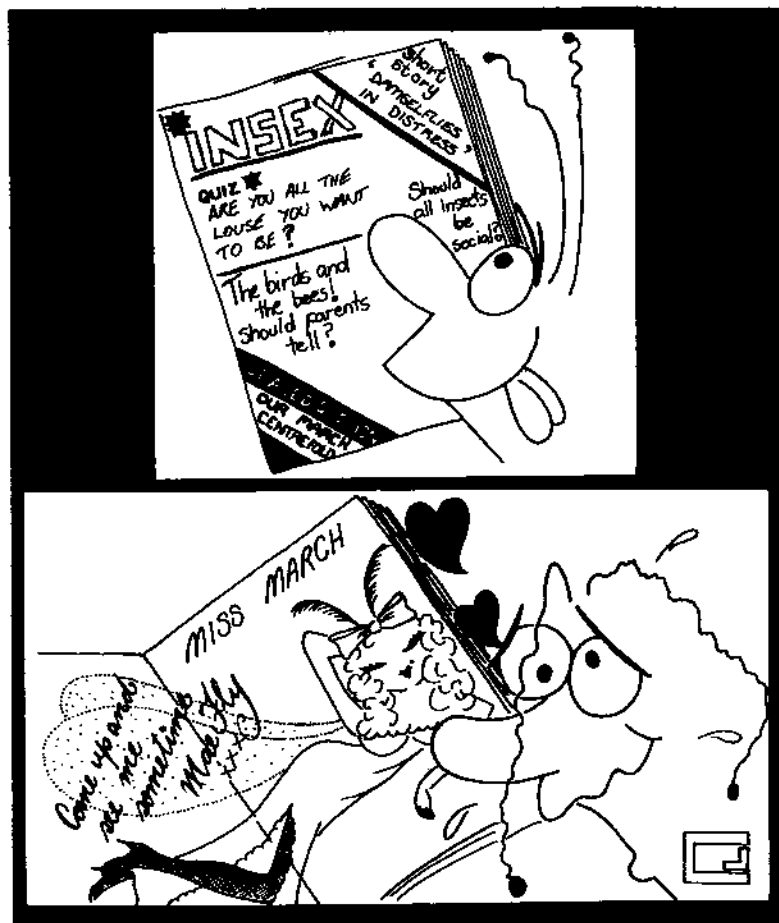
Yours sincerely,

Brett Fordyce,
19B Wirra Wirra St,
Toowoomba

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INSECT ASIDES

By Cobie



OFFICE BEARERS 1982 - 1983

PRESIDENT

Dr. D. Sands,
Entomology,
C.S.I.R.O. Long Pocket Labs.,
INDOOROPILLY. Q. 4068

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University of Queensland,
ST. LUCIA. Q. 4067

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Bramston Terrace
HERSTON. Q. 4006

Mr. C.E. Hagan,
Dept. of Entomology,
University of Queensland,
ST. LUCIA. Q. 4067

NOTICE OF NEXT MEETING:

The next meeting of the Entomological Society of Queensland will be held at 8.00 p.m. on Monday, March 14th, in Room 323 of the Hartley Teakle Building, University of Queensland, St. Lucia, Brisbane. This is the Annual General Meeting of the Society and will consist of:

- i) Presentation of Annual Report for 1982
- ii) Presentation of the Financial Statement for 1982
- iii) Election and induction of President, Council and Publication Committee for 1983
- iv) Presentation of the Presidential Address by the retiring President Dr. D.P.A. Sands entitled "Trends in research or the biological control of weeds."

Supper will be served after the meeting and visitors welcome.

THE SOCIETY

The Entomological Society of Queensland is an association of over 300 people with professional amateur interest in Entomology. It is dedicated to the furtherance of Pure and Applied Entomological Science and, since its inception in 1923, has promoted liaison amongst entomologists in academic, private and governmental institutions. It has a concern for the conservation of Queensland's natural resources. Further information is available from the Honorary Secretary at the address given above.

MEMBERSHIP

Membership is open to anyone interested in Entomology and entitles the member to attend monthly Society meetings, held on the second Monday night of the month and to receipt of News Bulletin. There are three classes of subscription membership:

Ordinary: persons residing in the Brisbane area (\$10.00 p.a.)

Country: persons residing outside Brisbane (\$8.00 p.a.)

Associate: students and others at the discretion of the council (\$5.00 p.a.)

Joint: is 1.5 times the standard for the area.

THE NEWS BULLETIN

The monthly News Bulletin reports on the society's monthly meeting, keeps members informed of Society events and news, and provides a vehicle for debate and discussion. Contributions in the form of articles, notes, letters, news clippings and photographs are always welcome, and should be sent to the Convenor of the Publication Committee at the address given above. The deadline for contributions is the Wednesday following the monthly Society meeting.