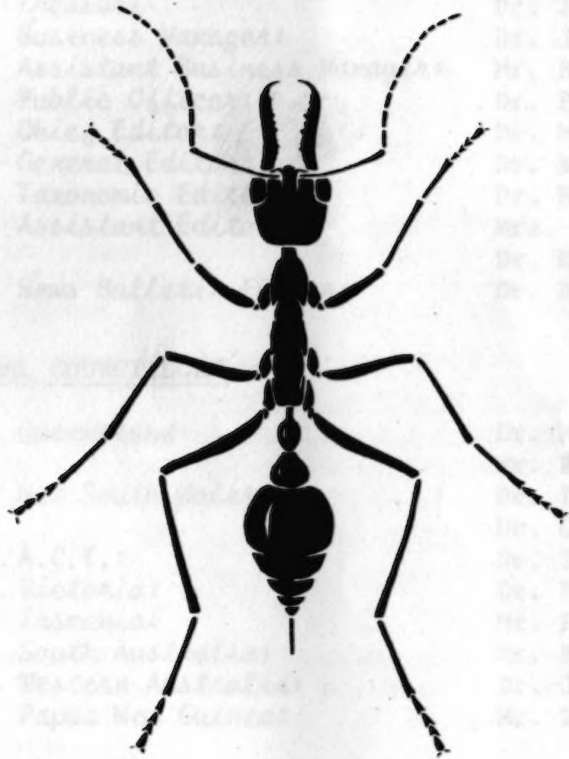


# AUSTRALIAN ENTOMOLOGICAL SOCIETY

Duration of Scientific Meeting Reduced See Inside



## NEWS BULLETIN

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AUSTRALIAN ENTOMOLOGICAL SOCIETY

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ADDRESS FOR CORRESPONDENCE

Society Executive ) c/- Victorian Plant Research  
News Bulletin Editor) Institute,  
Swan Street, Burnley, Vic. 3121.

EXECUTIVE REPORT

## MEETINGS

The Executive met on 2 May and 29 June.

## MEMBERSHIP

Since the last report, ten members have been elected and one has resigned. Total membership stands at 544, and the geographical distribution is as follows:

NSW	120	VIC.	81	TAS.	22
QLD.	115	SA	41	WA	21
ACT	87	PNG	21	NT	6
Overseas	30				

## NEW MEMBERS

We extend a warm welcome to the following new members:

Elected 29 November 1976 (error of omission from a previous issue)

- Mr. J.B. Jobe, Kerowagi High School, Kerowagi, Chimbu Province, PNG. Mr. Jobe teaches at the High School, and is interested in genetics, Lepidoptera (especially Arctiidae and Pyralidae) and Diptera (particularly Tipulidae).
- Mr. Nabil Hassan, 11 Cranwell Crt., Bundoora, Vic. 3083. Mr. Hassan served for 7 years as an Entomologist with the Plant Protection Dept. in Egypt before coming to Australia, and at present is a school teacher.
- Mr. P. Allbrook, C/- Zoology Dept., Univ. of Tasmania, Box 252C, GPO, Hobart, Tas. 7001. Mr. Allbrook, a student member, is particularly interested in aquatic insects.

Elected 2 May

- Mr. W.A. Day, Macquarie Private Hotel, National Circuit, Barton, Canberra, ACT 2600. Mr. Day, a student at ANU, is interested in natural resource management, and the environmental effects of pests.
- Mr. D. Binns, Dept. Forestry, ANU, P.O. Box 4, Canberra, ACT 2600. Mr. Binns is a student at ANU.
- Miss S.A. Harrington, 146 Handel Street, Armidale, NSW 2350. Miss Harrington is a student at the University of New England.
- Mr. G. Griffith, 168 Donnelly Street, Armidale, NSW 2350. Mr. Griffith is a student and has a general interest in entomology.

Elected 29 June

- Mr. J. Gerozisis, C.I.G. Ltd., Box 66, Alexandria, NSW 2015. Mr.

Gerozisis has interests in insect pest control, particularly in relation to knockdown-kill and aerosol bioassay.

- Dr. W. Gagne, Box 77, Wau Ecology Institute, Wau, PNG. Dr. Gagne is interested in the biosystematics of Miridae, and insect ecology in general.

- Mr. P.J. McFadyen, 31 Norman Street, Fig Tree Pocket, Qld. 4069. Mr. McFadyen is an Entomologist with the Queensland Dept. of Mines, and is interested in the biocontrol of weeds.

#### RESIGNATION

The resignation of Dr. R.N. Nankivell was accepted.

#### CHANGE OF ADDRESS (State of previous residence shown in brackets):

Dr. A.R. Brimblecombe, 10 Angy St., Sunnybank Hills, Qld. 4109 (NSW)

Dr. T.C.R. White, School of Applied Science, Riverina College of Advanced Education, P.O. Box 588, Wagga Wagga, NSW 2650 (overseas)

Mr. P. Lovejoy, P.O. Box 839, Morwell, Vic. 3840 (Vic.)

Mr. G.J. Prince, Zoology Dept., Univ. of Auckland, Private Bag, Auckland, New Zealand (WA).

#### 9 ANNUAL GENERAL MEETING

On the recommendation of the Organising Committee, the Executive has rescheduled part of the Annual General Meeting to be held in Melbourne prior to ANZAAS. There will now be a two day scientific session (instead of a 3 day session as originally proposed) which will commence on Friday, 26 August. The business session will take place as advertised at 7.30 p.m. on Thursday, 25 August, and will be preceded by a meeting of Council at 4 p.m. Other arrangements are as previously advertised. Full details about these changes are given elsewhere in the News Bulletin.

#### REPORT FROM THE PRESIDENT

On 30th March the Minister for Science, Senator J.J. Webster, agreed to receive a deputation from the Society to discuss Customs Regulation 13A. I wrote on 5th May nominating the Vice-President, Professor I.W. B. Thornton, the senior member of Council, Dr. C.N. Smithers, and myself to meet him. In his reply of 27th May setting a date for the meeting, the Minister said "I would be pleased to discuss this matter with anyone who may care to meet me". The Presidents of the six other Societies seeking repeal of Regulation 13A were advised of this offer. Our four Affiliated Societies and the Australian Society for Parasitology nominated our Society's deputation to represent their views also. The Linnean Society of New South Wales, nominated one of its Councillors, Dr. D.K. McAlpine, to accompany our deputation.

On 24th June at the Australian Government Centre, Sydney, we spent over an hour with Senator Webster who encouraged a free-ranging discussion. An officer of the Department of Science was also present. The Minister's interest and courtesy are greatly appreciated. He has stated that the issue is important and has been investigating legislation of other countries. Advocates of the Regulation have also been pressing their views and there is no indication of when a decision on its future is likely to be made.

This is my last President's Report and I want to thank members for their support and encouragement. Especially I want to thank the Executive and my numerous other advisors, who provided information for the deputation as generously as they responded to many earlier requests.

Elizabeth N. Marks

#### ENTOMOLOGICAL NEWS AROUND AUSTRALIA

##### VICTORIA

###### *Plant Research Institute:*

Drs. Terry Amos and Shlomo Navarro visited the Stored Grain Research Laboratory, CSIRO, Canberra to discuss developments in use of fumigants controlled gas atmospheres and pesticides for control of insect pests of stored grain. Afterwards Terry flew to Sydney for further discussions with researchers at the Biological and Chemical Research Institute, Rydalmere and with the Grain Elevators Board of NSW. Shlomo travelled on to Brisbane to meet stored products entomologists at the Department of Primary Industries and to view fumigation facilities at Pinkinbar and refrigerated aeration plant at Brookstead.

The arrival of the spotted alfalfa aphid in Victoria in early autumn has resulted in considerable redeployment of personnel. Mr. Gordon Berg and Mr. Peter Ridland are both now working on the problem in collaboration with Dr. Ian McLaren and Dr. Geoff O'Loughlin. The wide range of tasks to be undertaken include participation in the establishment of the parasites being imported by CSIRO, aphid monitoring, evaluation of native predators, insecticide trials and glasshouse screening of cuttings of lucerne and annual medics. P.R.I. is represented on the SCA ad hoc working party on spotted alfalfa aphid by the Principal Entomologist Mr. Ron Van Baer.

###### *Department of Zoology, La Trobe University:*

Dr. W. Danthanaryana has recently returned from sabbatical leave in England at Imperial College Field Station, Silwood Park, Ascot, and in Sri Lanka.

### National Museum

The move of the entomology collection to Victoria Crescent, Abbotsford is now complete. Dr. Arturs Neboiss is at present overseas for discussions with other workers in his fields of study, the Trichoptera and Plecoptera.

P. Williams

### AUSTRALIAN CAPITAL TERRITORY

In April Don Colless participated in a survey which was organised by the W.A. Department of Fisheries and Wildlife. The area of interest was the Dampier Peninsula which is one of a number of areas being considered as possible reserves. Ian Common and Ted Edwards spent a fortnight in May collecting, primarily Lepidoptera, in the Cooktown-Cairns area.

The Division of Entomology is contributing specimens from the Australian National Insect Collection for a display at the Commonwealth Institute, Kensington. The new exhibition is to be opened on the occasion of the meeting of the Heads of Commonwealth Nations later this year.

Two new members of the Division are Dr. Bob Maddern and Dr. Peter Tychsen (Smith) who have joined Geoff Foster in the blowfly group. Bob will be working on the genes of *Lucilia cuprina* in the Division's programme aimed at control of the sheep blowfly through genetic manipulation while Peter is working on field behaviour and its relationship to competitiveness of laboratory raised flies.

Visitors to the Division have included John Kethley, an acarologist from the Field Museum in Chicago, fresh from a collecting trip in W.A., who spent a week with Murray Wallace discussing mites and Mike Rose of the University of California, Riverside, who passed through on a couple of occasions while looking at Australian *Iridomyrmex* in the hope that he may find something to be of use against the Argentine Ant which is a major pest of citrus in California. He reported that he had found *I. humilis* to be quite widespread and in localities not previously known to be infested.

A visitor of longer term is Dr. Alan Clements of Shell Research, Sittingbourne, U.K., who will be at the Division until the end of the year. Alan is now involved in Divisional projects on integrated control.

Ted Edward's Nymphalid from Cape Wessel, which was mentioned in the February Bulletin is *Precis erigone* (Cramer).

Three new members of the Taxonomy group of the Division of Entomology will be arriving shortly to take up their positions. John Lawrence and David Rentz, Curators of Coleoptera and Orthopteroids respectively, are scheduled to arrive in September. Ian Naumann now at the University of Queensland will be joining the Division later this year as Curator of Hymenoptera.

Bob Taylor left early in July for Townsville where after collecting at Mt. Elliott he progressively worked his way northwards. The Locust

section's radar unit plans to spend the next Wet in the Torres Strait area. The group will be looking at the southwards migration of insects from New Guinea and Melanesia in order to test the possibility of a screwworm invasion via this route.

Dr. Brian Selman, lecturer in the Department of Agricultural Entomology of the University of Newcastle on Tyne, will be visiting Australia for 12 months commencing in August. He will be here to investigate the *Paropsini*, their taxonomy and their larvae, and will be based in Canberra but will be spending considerable time in the forests of the East coast and Tasmania.

Ev Britton retired on the 15th July. He has spent the last 13 years in charge of the Coleoptera section of the A.N.I.C. His main activities have been building the collection and providing an identification service. The collection, which has been completely rearranged, has identified representatives of 11579 species which is estimated to be about 59% of the described species in Australia. As well he has been revising the subfamily Melolonthinae of the Scarabaeidae and plans to continue this work on his retirement as well as undertaking a compilation of a catalogue of the Australian Coleoptera.

T.E. Bellas

## NEW SOUTH WALES

### Biological and Chemical Research Institute:

Peter Walters, who on rejoining the Department in March was assigned to investigate pests of potatoes and some other vegetable crops, has now been assigned to implement the Department's pest management programme re the spotted alfalfa aphid, *Therioaphis trifolii*, and the blue green lucerne aphid, *Acyrtosiphon kondoi*.

Colin Bower, Graham Thwaite and Carl Willott of the Agricultural Research Station, Bathurst visited the CSIRO Division of Entomology during May to examine mass rearing techniques for the predatory mite *Typhlodromus occidentalis*. Their hosts were Betty Lee and Ken Helm.

### Sydney University:

Fred McDonald commences six months sabbatical leave on 7.8.77. Fred will spend the six months in Baton Rouge, working on a key for the North American pentatomids.

John Naimo, a graduate of the Faculty of Agriculture, recently commenced a Diploma in Agricultural Entomology.

### University of N.S.W:

Ross Crozier has two honours students, Robin Craig and Mark Burgman. Robin is studying heterogeneity differences between ant castes and degrees of

relationship between colony queens. Mark is looking at cladistic and phenetic isozyme dendrograms for the ant genus *Camponotus*. Also working with Ross are Kuldip Dhindsa who is on sabbatical leave from Concordia University, Montreal and Tony Bishop, a Ph. D. student from Victoria, who is working on C-band and satellite DNA differences between related ant species.

Glen Campbell (a Ph.D. student) is on a field trip to the Nullabor for 3 weeks to study cave crickets in that area. He has a grant of \$250 from the Australian Museum towards the trip. He is being accompanied by Ian Stiff and Bob Heard.

#### Macquarie University:

Chit Ramirez is now working under Dinah Hales' supervision for her M.Sc. She is studying aspects of the biology of the moth, *Chelepteryx collesi*. Chit is a Colombo Plan Student from the Philippines and carried out the first part of her work with the N.S.W. Forestry Commission.

G.A.C. Beattie

"Mr. C.W. (Toss) Frazier, who was until recently a member of the Society, died suddenly at the beginning of June. Toss, who recently retired from his job at the Department of Zoology, University of New England, assisted many entomologists visiting northern N.S.W. in their collecting, and he was a great source of information on the life histories and biology of the insects of the area.

Dr. Richard Milner of the CSIRO at Armidale has transferred his major research effort to looking at the use of fungal diseases (*Entomophthora* spp.) for the biological control of spotted alfalfa aphid and blue-green aphid. Laurie Greenup and Neil Forrester of the Department of Agriculture at Tamworth will also be involved in the programs for the integrated control of these two aphids.

Professor Vernon Joyce, of the Cranfield Institute of Aeronautics in the U.K. was guest speaker to the Australian Agricultural Aviation Association at Port Macquarie in June. He spoke to an audience of over 100 people about using Ultra Low Volume sprays and in particular the problem of drift. In Australia for example, U.L.V. sprays of DDT on cotton are drifting onto pastures and causing possible residue problems in beef.

Professor Tony O'Farrell, Zoology Department, University of New England, is making use of his six months sabbatical to review another group of Odonata, the *Argiolestes* spp. of eastern Australia.

J. Ridsdill Smith

#### SOUTH AUSTRALIA

#### Waite Institute:

The spotted alfalfa aphid, an insect that can devastate lucerne crops and



pasture medics, has recently been introduced into Australia. It was first found in S.A. this May. The insect caused considerable economic damage when it was first introduced into the U.S.A. in 1954, but in America it has since been controlled largely by the introduction of parasitic wasps and reseeded of pastures with resistant varieties of lucerne.

Dr. Miles, Chairman of the Entomology Department of the Waite Agricultural Research Institute, University of Adelaide, was host recently (16.6.77) to Dr. R.D. Hughes of CSIRO Division of Entomology, Canberra, Mr. P.R. Birks (S.A. Dept. of Ag.), Mrs. C. Boros, Dr. M. Carver, Professor C.M. Donald, Mr. K.M. Doull (Waite Institute), Dr. D.L. Hayman (Genetics, Univ. of Adelaide), Mr. M.H. Khan, Dr. R. Laughlin, Dr. D.A. Maelzer (Waite), Mr. M.J. Mathison (S.A.D.A.), and Mr. D.E. Sincer (S.A.D.A.) at a conference on action to be taken in South Australia.

Cooperation was agreed between CSIRO, the State Department of Agriculture and the Waite Institute to establish the emergency measures and long term management procedures in S.A. CSIRO was collecting and disseminating information obtained in all the States. The S.A. Department of Agriculture had already begun the breeding of resistant varieties; it would initiate emergency treatment with insecticides where necessary and would handle the local breeding and release of parasites brought into Australia by CSIRO. The Entomology Department of the Waite Institute was already working on native insect predators that could reduce the incidence of the aphids under appropriate crop management and it would cooperate with the Department of Agriculture in monitoring the development of populations of the aphids and their natural enemies. The meeting was confident that through active cooperation a stable system of management of the pest could be developed within three years, and the situation kept under control by emergency measures in the meantime.

The Council of the University of Adelaide has announced its acceptance of a grant of \$30,000 from the Utah Foundation to set up a Readership in Insect Pathology within the Entomology Department of the Waite Agricultural Research Institute. The position has been created in anticipation of retirements from that Department and the grant will cover costs in the intervening period.

Two overseas students have joined the Institute to study for higher degrees. Mr. Shadrack Mlambo from Zambia, is studying the occurrence and dispersal of major grain storage pests in the field under the supervision of Dr. R. Laughlin and Prof. T.O. Browning. Mr. Jwo Yee Yan, from Taiwan has yet to determine his project which will be supervised by Prof. T.O. Browning.

Two students are commencing external M. Ag. Sc. degrees. Mr. D.C. Lake, will study the central nervous system of Aranidae under supervision of Dr. R. Laughlin and Mr. David Lee (S.A. Museum).

Ms. Beryl Morris, will study the taxonomy and physiology of blowfly larvae, in connection with a request for assistance in forensic entomology by the S.A. Police Department. The study will be supervised by Prof. T.O. Browning.

Ms. Charlma L. Cordingley has completed her studies for the Ph.D. degree and has presented her thesis, entitled "The ecology of the grape vine moth, *Phalaenoides glycine*".

Ms. Helen M. Brookes left the Department in mid-April for 10 months' study leave. Her travels will take her to Malaysia, Japan, England, Poland and U.S.A.

Prof. W.P. Rogers visited England and Canada from 13 May to 13 June. He is officially on study leave until 31 December 1977.

Prof. T.O. Browning attended the annual research review at I.C.I.P.E. in Nairobi, Kenya, and was away from Adelaide from the end of May till the end of June.

Dr. F.D. Morgan has been teaching at the universities of Hasanuddin and Brawijaya on Java, Indonesia under the auspices of the Australian Vice-Chancellor's Committee. He also visited the University of Malaysia on his way back to Australia.

Dr. P.W. Miles will attend the 3rd Inter-Congress of the Pacific Science Association, to be held at Bali from 18-22 July.

Dr. B.M. Doube of CSIRO Division of Entomology, Rockhampton, visited the Department on 18 May and gave a seminar entitled "A paralysing toxin produced by *Ixodes holocyclus*".

The visit by Dr. David Smith of the University of Miami that was scheduled to take place in July has been postponed to August 11-12th.

The Department is also expecting a visit from Professor Rachel Galun of the Israel Institute for Biological Research, Ness-Ziona, who will come to Australia to attend the Eighth International Conference of World Associations for the Advancement of Veterinary Parasitology in Sydney (11-15th July).

#### Department of Agriculture:

Bob Hardy of the Tasmanian Agriculture Department was here on April 22nd to discuss current projects in pasture and crop Entomology.

Jim Johnston of Macquarie University School of Economics was here during the first week in May to discuss a sampling and dockage scheme for stored products pests.

Paul Vellacott of the Victorian Dept. of Agriculture visited us on June 7th, concerning field cricket control, and Murray Wallace of CSIRO, Canberra, was here on June 20th to discuss the dung beetle release programme.

Tony Watson, CSIRO Canberra, visited Adelaide on June 6th, 7th and 8th regarding the discovery of a drywood termite.

#### Museum:

Everard Britton visited the Museum during the first week in May.

R.S. Bungey

## TASMANIA

## Department of Agriculture:

Neil Hudson recently retired from the position of Senior Entomologist. Neil is best known for his work on insects in pome fruit orchards. He has also worked on potato tuber moth and led the Tasmanian programme against the Argentine Ant. He is succeeded as Senior Entomologist by Alex Terauds.

Margaret Williams has resumed work in the Department following the birth of daughter Erica.

A recent appointee to the Department is Rodney Brieze-Stegeman. He will be introducing parasites of lucerne aphids, which are expected to reach Tasmania in the coming summer, and will survey the insect fauna of Tasmanian lucerne fields. He will also be working on parasites, predators and disease of aphids in Tasmania and assisting in a study of the feasibility of growing sugar beet in Tasmania.

## Forestry Commission:

Humphrey Elliott has now moved into the Commission's new laboratories in Hobart.

R.J. Akhurst

## WESTERN AUSTRALIA

The European Wasp has recently been found in Perth, the initial sighting coming from a salami sandwich in Mosman Park. The Department of Agriculture is attempting to eradicate the pioneer nests. This has attracted some attention in the press including one letter calling for the encouragement of this species for sentimental reasons.

Stewart Learmonth of the Department of Agriculture has just returned from the Waite Institute where he has been working on field survival and reproduction of *Heliothis*. He has now returned to the Ord region.

William H. Brown recently visited Western Australia from Cornell University. He visited taxonomists in Perth and spent several days in the south-west. As with his previous attempt, he was unsuccessful in his search for the primitive ant *Nothomyrmecia*.

Harold Heatwole recently visited Barrow Island to study the insect fauna, with particular reference to ants. Elizabeth Davidson performed similar work on the nearby mainland so that some comparisons may be made.

While on the subject of ants, my field trials in the Jarrah forest suggest that the forest ants are adapted for survival during and after fire. I was interested to read in the British newspaper last week that ants are being fed cheese and honey by researchers so that they can survive the food shortage following the heathfires of last years English drought.

Wynn Bailey has recently returned from a four month study period in England where he worked on the Australian Copiphorinae revision at the British Museum. He has also completed a paper on sound production in the whistling moth, *Hecatesia*. This remarkable moth produces ultra sonic signals with the aid of castanets and a resonator on the wings.

Rob Whelan is just completing his Ph.D. on the effects of insect grazing after fire. Grazing is largely influenced by the presence of chemicals in certain plant species which cause the plant to be unpalatable to herbivores.

J.D. Majer

### QUEENSLAND

Welcome to Dr. Al Ohta from the Department of Genetics of the University of Hawaii who has commenced a two year assignment with the Queensland Department of Primary Industries, Indooroopilly. He will undertake gel electrophoresis work to supplement Dr. Dick Drew's taxonomic studies on populations of Oriental fruit fly, *Dacus dorsalis*, recently discovered in the Northern Territory. Al was born in Hawaii and trained there in the Hawaiian Drosophila Project under Dr. Hampton Carson.

Roger Goebel (D.P.I. Indooroopilly) and Keith Halfpapp (D.P.I. Mareeba) are on a joint collecting trip in north Queensland extending as far north as Bamaga. Roger is collecting strains of honey bee and Keith is collecting fruit flies.

Congratulations to Peter Allsopp (D.P.I. Toowoomba) on the award of his Masters Degree by the University of Queensland.

Messrs. Ian Kay (D.P.I. Toowoomba) and Geoff Waite (D.P.I. Emerald) attended the annual Cotton Research Meeting in Narrabri on July 11th to 15th.

Mr. John Turner formerly of D.P.I. Kingaroy commenced duties at D.P.I. Indooroopilly on July 1st. John will work on the spotted alfalfa aphid and the blue-green lucerne aphid, both of which are major pests of lucerne and related legumes overseas and have been newly recognised in Australia.

Visitors to the stored product section of D.P.I. Indooroopilly have included Dr. Shlomo Navarro of the Agricultural Research Organisation, Israel; Dr. Graeme Quick of CSIRO, Division of Mechanical Engineering, Melbourne; and Dr. Barry Wallbank of the N.S.W. Department of Agriculture, Sydney.

During June, Michael Julian of CSIRO, Long Pocket Biological Control group visited Sydney to study the distribution of Alligator Weed.

Dr. Ken Harley and Wendy Forno undertook a field trip to north Queensland during June to study lantana and water hyacinth.

Visitors anticipated at CSIRO Long Pocket include Dr. J. Lamberton of the Division of Applied Organic Chemistry, Melbourne on July 18th and Dr. Jim Cullen of the Biological Control Unit from July 19th to 22nd.

Queenslanders attending the Conference of the World Association for the Advancement of Veterinary Parasitology in Sydney from July 11th to 15th included Drs. Harry Wharton, Bernie Stone and Rob Sutherest of CSIRO Long Pocket and Dr. Martin Rice and Sam Walladde of the University of Queensland.

Professor Doug Kettle will commence sabbatical leave on July 25th. His first three months will be spent in Russia under the Australia-Soviet Scientific Agreement.

Professor Rachel Gahin, Head of the Entomology Division of the Israel Institute for Biological Research will visit the University during the week of July 21st to 30th.

Dr. Ted Wilson of the University of California will visit the University on a Fullbright Fellowship in connection with the Integrated Pest Management Unit of the Departments of Agriculture and Entomology.

M. Bengston

#### NEWS FROM AFFILIATED SOCIETIES

##### ENTOMOLOGICAL SOCIETY OF AUSTRALIA (N.S.W.)

The Twenty-fourth Annual General Meeting was held on the night of 2nd March at the Australian Museum, Sydney. Mr. C.E. Chadwick presented the Presidential Address, entitled "Impressions of entomology in North America".

Mr. R. Faulder gave an interesting talk entitled "Control of insects in cotton in the Namoi Valley, New South Wales" to the meeting held at the Australian Museum, Sydney on the night of 6th April. Mr. Faulder has spent several summers working in cotton crops and he presented a good overall impression of the problems, as well as the insects, involved.

The May monthly meeting was held on the night of 4th May at the Australian Museum, Sydney. Dr. A. Clift presented an account of two personal collecting trips he had made to the Western Division of New South Wales. He concentrated mainly on insects specifically adapted to the region, rather than insects with a wider range of habitats which were also found in the area.

Mr. M. Moulds talked to the June meeting, held on the night of 1st June at the Australian Museum, Sydney, about his latest collecting trip in Queensland, including the periphery of the Simpson Desert. He illustrated his talk with good photographic slides and an excellent display of collected insects.

A.D. Clift

##### ENTOMOLOGICAL SOCIETY OF VICTORIA

At the Annual General Meeting of the Society Dr. Tim New was elected

President and Mr. 'Zoo' Le Souef and Mr. Ross Field were elected Vice Presidents. Mrs. Julie Field, 51 Sandells Road, Tecoma, Vic. 3160, was elected Secretary and Mr. Andrew Calder, National Museum of Victoria, Bulletin Editor. The new committee is enthusiastically planning the program for the coming year.

T.R. New

9TH ANNUAL GENERAL MEETING AND SCIENTIFIC MEETING

The Organising Committee has reluctantly recommended to the Executive that the duration of the Scientific Meeting be reduced from three to two days. This recommendation, which has been accepted by the Executive, was necessitated by the paucity of papers offered to the meeting. The Organising Committee regrets any inconvenience caused by this alteration. It is anticipated that refund of part of the registration fee will be made to delegates at a later date.

The final program for the meeting is given below:-

PROGRAM FOR 9TH A.G.M. AND SCIENTIFIC MEETING

25-28 August 1977 LaTrobe University, Bundoora, Victoria

REGISTRATION AND MEETING VENUE, GLENN COLLEGE, LECTURE THEATRE

Thursday 25th

7.30 - 8.30 p.m. (approx.) Annual General Meeting

Friday 26th

9.00 a.m.	Registration
9.30 a.m.	Address of welcome by Professor Ian Thornton, Vice President
9.50 a.m.	Announcements
9.55 a.m.	GENERAL ENTOMOLOGY
9.55 a.m.	Pheromone involvement in social behaviour in ants - P. Robertson
10.30 a.m.	Tea
11.00 a.m.	Insect migration in relation to synoptic weather - R.A. Farrow
11.20 a.m.	A simple diet incorporation assay for granulosis virus - I.P. Griffith and A.M. Smith
11.40 a.m.	The Australian drosophilid fauna - I.R. Bock
12.00	Analysis of two genetic models for the innate components of colony odour in social Hymenoptera - R.H. Crozier and M.W. Dix
12.20 p.m.	Lunch
2.00 p.m.	STRATEGIES FOR SURVIVAL
2.00 p.m.	Film on Orchard Mites
2.15 p.m.	Establishment of organo-phosphate resistant predatory mites in Australian apple orchards - D.S. Morris
2.50 p.m.	Survival of organo-phosphate resistant <i>Typhlodromus occidentalis</i> Nesbitt (Acarina:Phytoseiidae) in a Victorian peach orchard - R.P. Field
3.25 p.m.	Tea

- 3.55 p.m. Host identification - A strategy for survival - M.J. Rice  
 4.15 p.m. Biology of the oak leaf miner - T.R. New  
 4.35 p.m. Possible Student Award Paper

## Saturday 27th

- 9.30 a.m. FOREST ENTOMOLOGY  
 9.30 a.m. A review of the effects of insect defoliators in eucalypt regeneration in Tasmania - H.J. Elliott  
 10.15 a.m. Diversity and phenology of Coleoptera on some bipinnate acacias - T.R. New  
 10.35 a.m. Tea  
 11.05 a.m. Termite bioassays of wood extracts from Cypress pine - J.R.J. French  
 11.25 a.m. Comparison of the gut bacteria of *Mastotermes darwiniensis* from different locations - M.L. Eutick, D. Veivers, R.W. O'Brien and M. Slaytor  
 11.45 a.m. Toilet rolls to detect subterranean termites - J.R.J. French  
 12.05 p.m. A comparison of the epigaecic invertebrate fauna, with particular reference to ants, in areas of different land use at Dwellingup Western Australia - J.D. Majer  
 12.25 p.m. Lunch  
 2.00 p.m. MOSQUITOES  
 2:00 p.m. Some mosquito problems associated with industrial development of intertidal areas in Queensland - E.N. Marks  
 2.20 p.m. Age grading studies of *Culex annulirostris* (Diptera: Culicidae) in Queensland - B.H. Kay  
 2.40 p.m. The application of research findings to mosquito control - G.P. Sheldon, G. McDonald and I.R. Smith  
 3.00 p.m. History of malaria control in Sri Lanka - W. Danthanaryana  
 3.20 p.m. Tea  
 3.50 p.m. STRATEGIES FOR SURVIVAL  
 3.50 p.m. Adaptive trends in the external morphology of final-instar ichneumonid larvae. - J.T.R. Short  
 4.10 p.m. - 5.15 p.m. Physiological Aspects of Strategies for Survival - papers by A.T. Marshall, A. Hyatt, D. Beamish, R. Wood.  
 5.15 p.m. Close of Scientific Meeting  
 7.30 p.m. Pre-dinner Drinks  
 8.00 p.m. Annual Dinner  
 Main Dining Hall, Glenn College

## Sunday August 28th

- Field Excursion to Black Spur  
 9.30 a.m. Vehicles leave Glenn College  
 12.00 noon Barbecue Lunch  
 6.00 p.m. Coach returns to Glenn College.

THE ABOVE PROGRAM MAY BE SUBJECT TO MINOR ALTERATION.

NOTICE OF MOTION FOR 9TH ANNUAL GENERAL MEETING

A motion to be proposed at the A.G.M. has been received and is printed

below for the consideration of members of the Society.

PROPOSAL FOR FELLOWSHIP MEMBERSHIP OF THE  
AUSTRALIAN ENTOMOLOGY SOCIETY

We believe than an established and eminent scientific Society such as the Australian Entomological Society Incorporated should have the desire and the authority to recognise the contribution of any of its members to the advancement of entomology in Australia.

At present members of our Society have been recognised by other societies e.g. Royal Society, Australian Academy of Science, Australian Institute of Agricultural Science. However, these Societies cover a wide spectrum of science and so recognition of individuals in particular disciplines must be sparse and presumably only then to outstanding individuals.

We believe that recognition of a significant contribution to entomology in Australia by members of our Society which would result from the award of Fellowship membership would be highly desirable and stimulating. There are, of course, a number of examples in other disciplines e.g. chemistry, medicine, mathematics, engineering, geology, computer science, education, so we are not proposing a radical step.

There is no suggestion that membership fees would be waived, and we do not consider that there should be any numerical limit placed on the number of Fellows.

We support the continuation of Honorary Membership for the purpose stated in the Constitution.

At the Annual General Meeting we will propose and second the motion "That the Executive of the Society consider the creation of Fellowship Membership of the Society".

Proposer: G.H.S. Hooper  
Seconded: T. Passlow

TRAVEL ARRANGEMENTS

ANSETT

AIRLINES OF AUSTRALIA

The Convention Specialists

Official carrier for the Australian Entomological Society  
9th Annual General Meeting and Scientific Conference.

Contact with your local representative will assure you of friendly and courteous attention for all your travel and accommodation requirements. It is suggested that delegates requiring accommodation outside La Trobe



University should contact their ANSETT representative.

A group travel discount of 10% off the normal adult economy air fare to Melbourne will apply for groups of 15 or more delegates travelling forward on the same flight. So that an accurate record of numbers can be kept, it is important that you contact the Ansett representatives listed below:

Adelaide	Mr. R. Birks, 150 North Terrace	217 7222
Brisbane	Mrs. S. Smith, Ann St., North Quay	32 0171
Hobart	Mr. T. Otte, 178 Liverpool St.,	34 6211
Perth	Mr. W. Wallace, St. Georges Tce and Irwin St.	25 0201
Sydney	Mrs. S. Mattock, Oxford Square, Oxford St.	2 0611
Canberra	Miss M. Scales, 62 Northbourne Ave.	49 7333

TRAVEL FROM TULLAMARINE AIRPORT  
TO LA TROBE UNIVERSITY

La Trobe University is very difficult to reach using public transport. It is suggested that delegates travelling to Melbourne by air take the airport coach to the city and then a taxi to the university. If however sufficient delegates arrive on the same flight or closely spaced flights from different locations, it may be possible to arrange minibus or airport coach transport to La Trobe. Delegates wishing to use such a service should notify their Regional Councillors so that demand for this form of transport can be assessed.

48TH A.N.Z.A.A.S.

Section II: Zoology

Wednesday, 31st August

Symposium: Some Projected Developments in Insect Pest Management. Presented by the Australian Entomological Society.

Venue: Lecture Theatre, Zoology Department.

Convenor: Dr. P. Williams, Victorian Plant Research Institute

Chairman: Dr. D.F. Waterhouse, Chief, Division of Entomology, CSIRO

9.30 - 10.15 Mr. R.A.H. Davies, ICI Merrindale Research Station, Croydon.  
"Pest management, politics and profit".

10.15- 11.00 Dr. G.H.S. Hooper and Dr. M.J. Rice, Department of Entomology,  
University of Queensland.

"The manipulation of insect behaviour for population control".

11.00- 11.30 Morning Tea.

11.30- 12.15 Dr. R.D. Hughes, Division of Entomology, CSIRO.

"Pest management and the aphids infesting lucerne".

12.15- 1.00 Professor P. Miles, Entomology Department, Waite Agricultural  
Research Institute.

"The pre-requisites of pest control: making management a reality".

**SUSTAINING ASSOCIATES:**

Australian Entomological Supplies  
A.P.M. Forests Pty. Ltd.  
Bayer Australia Ltd.  
Boots Pure Drug Co. (Aust.) Pty. Ltd.  
CIBA-CEIGY Ltd.  
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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.