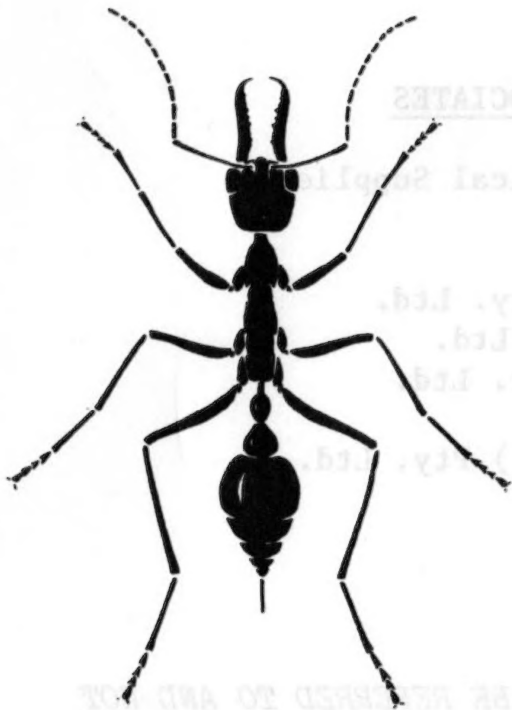


Australian Entomological Society



News Bulletin

Volume 17, Part 2, May 1981

Registered for Posting as a Publication Category (B)

Price: \$1.25

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- A.C.T.: Mr. T.A. Weir, Division of Entomology, C.S.I.R.O., P.O. Box 1700, Canberra City, A.C.T., 2601 (Telephone 062 46 4911)
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- W.A.: Dr. J.D. Majer, Department of Biology, W.A. Institute of Technology, Hayman Road, South Bentley, Western Australia, 6102 (Telephone 09 350 7700)
- P.N.G.: Dr. E.J. Brough, Biology Department, University of Papua New Guinea, Box 4820, University P.O., Papua New Guinea
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EXECUTIVE REPORTMeetings:

The Executive met on 19th March, 1981.

Membership:

Since the last report members have been elected. Total membership now stands at 607. The geographical distribution is as follows:

| | | | | | |
|--------|-----|------|----|--------------------|----|
| QLD. | 142 | S.A. | 52 | P.N.G. | 17 |
| N.S.W. | 119 | W.A. | 30 | OVERSEAS | 46 |
| A.C.T. | 89 | TAS. | 22 | (excluding P.N.G.) | |
| VIC. | 83 | N.T. | 7 | | |

New Members:

We extend a warm welcome to the following members:

Elected 19th March, 1981

- Mr. Peter C. Gregg, Department of Microbiology, University of New England, Armidale, New South Wales, 2351. Mr. Gregg is a Lecturer and is interested in the environmental biology of insects especially locusts. Cotton entomology is another interest.
- Mr. R.G.F. Piggott, Department of Agriculture, State Office Block, Dubbo, New South Wales, 2830. Mr. Piggott is a Locust Patrol Officer with the Department. His interests are the biology of acridids, including plague dynamics and the role of biological control agents.
- Mrs. Jennifer Gardner, Zoology Department, University of Adelaide, Adelaide, South Australia, 5000. Mrs. Gardner is embarking upon post-graduate studies, the area of interest being the taxonomy of buprestid beetles.
- Miss Beryl Morris, 101 Military Road, Tennyson, South Australia, 5022. Miss Morris is the Curator of Information and Publicity at the South Australian Museum. She is enrolled in an external Masters degree, examining the entomological timing of death using the rates of development of blowfly larvae.

- Mr. Peter E. Coombe, 4A Urrbrae Avenue, Myrtle Bank, South Australia, 5064. Mr. Coombe is a post-graduate student at the Waite Institute.
- Ms. Heloisa Marianth, 4A Urrbrae Avenue, Myrtle Bank, South Australia, 5064. Ms. Marianth is a post-graduate student at the Waite Institute.
- Mr. M. Yusof Hussein, Entomology Department, Waite Agricultural Research Institute, Glen Osmond, South Australia, 5064. Mr. Hussein is a Lecturer at the Agriculture University, Malaysia, and is currently on study leave, doing a post-graduate course at the Waite. His interests include crop protection entomology, and integrated pest management.

Change of Address: (State of previous address in brackets)

Mr. T.L. Fenner, Box 3202, Darwin, Northern Territory, 5794 (P.N.G.)

Ms. A. Pound, P.O. Box 102, Kainantu, East Highlands, P.N.G. (P.N.G.)

Mr. P.S. Glanville, P.O. Box 38, Darling Heights, Queensland, 4350

Dr. A.L. Yen, Biological Survey Department, National Museum of Victoria, 71 Victoria Crescent, Abbotsford, Victoria, 3067 (Vic.)

Mr. P.R. Birks, 1/117 Esplanade, Henley South, South Australia, 5022 (S.A.)

Dr. A.A. Calder, C.S.I.R.O., Division of Entomology, P.O. Box 1700, Canberra City, A.C.T., 2601 (Vic.)

Mr. M.I. Nikitin, 22 Lime Street, Cabramatta, New South Wales, 2166 (N.S.W.)

Mr. S. Sexton, 8 Gillam Street, Warwick, Queensland, 4370 (Vic.)

ENTOMOLOGICAL EDUCATION IN THE 80's

A Seminar-Workshop hosted by the Entomological Society of New South Wales is to be held on Friday, 23rd October, 1981 at Macquarie University.

What constitutes a good tertiary entomological education for the 80's? What skills do teaching and research institutions, agriculture departments, commerce, industry or pest control require entomology graduates to be able to master? Should we be teaching entomology for recreation? We hope to cover these aspects and more. Papers from guest speakers and contributed papers are to be presented, which are to be published.

More detailed information in the next bulletin, and if you have opinions about this matter, please contact the Representative Councillor of the Entomological Society of New South Wales.

10th INTERNATIONAL CONGRESS OF PLANT PROTECTION

The 10th International Congress of Plant Protection will be held from 20th - 25th November, 1983, in Brighton, U.K.

The Congress is held under the auspices of the International Union of Biological Sciences, and was authorised by the Standing Committee for International Congress of Plant Protection, which met in Washington, U.S.A., in August 1979. The Theme of the Congress will be "Plant Protection for Human Welfare", and the programme will provide multi-disciplinary sessions, workshops, poster presentations and exhibitions dealing with applied research, development and application of plant protection techniques for pests, diseases and weeds. The Congress proceedings will be published in full.

The programme will be built around the following subject themes: (1) the incidence and effects of pests, diseases and weeds; (2) discovery and properties of conventional and novel chemical control agents; (3) factors affecting performance of pesticides in practice: application methods and formulation and the nature and avoidance of resistance;

- (4) environmental and safety aspects of pesticide usage;
- (5) non chemical methods of control, including plant breeding;
- (6) pest, disease and weed management in integrated crop production.

The full scientific programme will be published in due course. Meanwhile, anyone who wishes to offer a paper relevant to the broad general themes outlined above should contact either the Chairman of the Programme Committee or the Congress Secretary, at these addresses:

Chairman, Programme Committee:

Dr. I. Graham-Bryce,
Director,
East Malling Research Station,
East Malling, Maidstone, Kent.
Tel. 0732 (West Malling) 843833

Congress Secretary:

Frank bishop (Conference Planners) Ltd.,
144-150 London Road,
Croydon, CRO 2TD.
Tel. 01-688 4115

ENTOMOLOGICAL NEWS AROUND AUSTRALIA

NEW SOUTH WALES:

Country Centres

Peter Cull, the SIRATAC development officer with CSIRO at Narrabri, is about to go to the U.S.A. for 2 months to study computerised cotton pest management. Peter is being funded by cotton growers' research grants.

Steve Goodwin attended the 1st National Berry Fruits Seminar held at Orange during May. Steve spoke about his work on the biological control of two spotted mite in strawberries using the predatory mite *Phytoseiulus persimilis*.

Neil Treverrow and Bill Palmer visited the Agricultural Research Centre at Tamworth in April to attend a seminar given by pesticide chemist Ian Ferris. Ian spoke on his work done in the U.S.A. on the degradation of parathion.

Paul Deighton has left behind the wingless grasshoppers and the Armidale winter to sample the delights of the U.K. and the Continent. Paul is on leave without pay for 6 months and is due back in August.

Robin Gunning, Neil McLaren and Peter Gregg were the only country entomologists able to make it to the 12th Annual General Meeting at Maroochydoore. I would expect a much better roll up next year in Canberra.

Robin Gunning received her Ph.D. from the UNSW in April. The title of Robin's thesis was: "A circadian rhythm in the eye nerve activity from the housefly *Musca domestica*".

Dr. Harold Madsen returned to Canada in June after a 9 month stay in Australia working with Graham Thwaite, entomologist at the N.S.W. Department of Agriculture Research Centre at Orange. Throughout the apple growing season, they conducted a project to assess the value of sex pheromone traps in the management of codling moth control in orchards.

Harold addressed numerous grower meetings during his stay. At the request of the Victorian Department of Agriculture, he visited Burnley, the Goulburn Valley and the Mornington Peninsula in March, accompanied by Col Bower from Orange. Just before his departure he gave a seminar at the B.C.R.I. and a talk to the Entomological Society of N.S.W.

Graham Thwaite attended the "Australasian Workshop on Insect Pheromones and their application" at D.S.I.R., Auckland in February. While in New Zealand, Graham visited the main deciduous fruit growing areas to evaluate the progress of integrated mite control.

Col Bower and Graham Thwaite ran a seminar at Orange in early May for pesticide resellers. It provided information to enable the resellers to deal with enquiries from growers practising Integrated Pest Control in their orchards.

University of New South Wales

Ahmed Moussu has just been awarded a Ph.D. for his work on insect viruses. Some of the viruses he looked at came from *Musca domestica*, *Dacus tryoni* and *Lucilia cuprina*.

Biological and Chemical Research Institute

Andrew Beattie is visiting the Peoples' Republic of China in May and June to advise on citrus growing there. His visit was arranged by the Australian Development Assistance Bureau.

Professor James McMurtry is currently visiting N.S.W. and is working with Eberhard Schicha on the taxonomy and biology of beneficial phytosoid mites found in Australia and surrounding regions. Part of the work will be on a collection of over 2,000 mites made by James McMurtry on a previous visit in 1978.

Alan Clift is helping convene and organize the 11th International Mushroom Congress (I.S.C.E.F.) to be held in Sydney in August 1981.

Neil Forrester, Don Smith

AUSTRALIAN CAPITAL TERRITORY:C.S.I.R.O., Division of Entomology

Max Whitten, Professor of Genetics at the University of Melbourne has been appointed to the position of Chief of the Division of Entomology. He is an internationally recognised geneticist and succeeds Doug Waterhouse who retires in June after 20 years as Chief. Because of his university commitments, Max will not be able to take up his appointment until 7th September this year and Doug will remain at the helm until then, in order to avoid an interregnum.

Dr. Geoff Baker is another recent appointee to the Division and he is now established at Estoril near Lisbon in Portugal where he is investigating the biology of the black Portuguese millipede (*Ommatoiulus moreletii*) to assess the potential for its biological control in Australia.

Dr. David Webley has just joined the Stored Grain Research Laboratory to service the Division's commitments to overseas aid in that field.

Penny Gullan, who has recently moved from Melbourne to a part-time job in the Zoology Department at A.N.U., is also spending her spare time working on a continuing project on the taxonomy of Coccidae at the A.N.I.C.

Jean-Paul Aeschlimann has returned to his home base at the Division's Biological Control Unit at Montpellier, France, after a year based in Canberra looking at the Australian end of the sitona weevil program.

The A.N.I.C.'s post wet-season survey of the Cooktown area of North Queensland took place in April/May. A party of five (Don Colless, Dave Rentz, Ian Naumann, Andrew Calder, and John Feehan), working out of a mobile base of Toyota Landcruiser, caravan and Toyota Hi-Ace spent three weeks collecting intensively in the rainforest, sclerophyll forest and heath around Cooktown. Much interesting material was collected and will serve to greatly increase the A.N.I.C.'s holdings of specimens from that area.

Recent visitors to the Division have included: John Scott (W.A. Department of Agriculture) to become familiar with the Division's biological control programs, especially those relating to the control of Paterson's curse (*Echium plantagineum*); Mike Porter (C.S.I.R.O., Armidale) to discuss dung beetle activity in the Armidale and Narrabri areas; Dr. M. Nyindo (International Centre of Insect Physiology and Ecology, Nairobi, Kenya) for discussions with Richard Milner on general insect pathology; Dudley Pinnock (Waite Agricultural Research Institute) to discuss aspects of lucerne aphid control; David Austin (Waite Agricultural Research Institute) to talk about his work on the biology and ecology of a clubionid spider and its egg parasite;

Arturs Neboiss (National Museum of Victoria) for 3 days at the A.N.I.C. studying specimens of Trichoptera; and Geoff and Sybil Monteith (Queensland Museum), Geoff to discuss aspects of his collecting work in North Queensland rainforests and on Lord Howe Island and Norfolk Island, and Sybil to talk about her illustrating commitments.

From the dung beetle section comes the news of the first recovery of the introduced *Euoniticellus fulvus* following its release in northern Tasmania.

Ernest Del Fosse also records a first recovery of a specimen of *Longitarsus albineus*, a halticine chrysomelid introduced to combat the common heliotrope (*Heliotropium europaeum*). The first releases were made in December 1979 and this recovery is encouraging in that it shows ability of the beetle to overwinter successfully. Two more releases have been made near Corowa and Urana in New South Wales and prospects for its establishment in these areas is also good.

Richard Milner reports that *Zoophthora radicans* (syn. *Entomophthora sphaerosperma*) has caused widespread epizootics in the spotted alfalfa aphid *Therioaphis trifolii* for the first time this year in northern New South Wales and southern Queensland. This fungus disease, obtained from Israel, was field released in 1979 at Armidale and Tamworth. Further releases have been made in South Australia (1980) and in south-west New South Wales (1981). The disease is specific to spotted alfalfa aphid.

Tom Weir

QUEENSLAND:

The big event in Queensland this period was the Society's AGM at Surfair on the Sunshine Coast. This event is reported on elsewhere in this Bulletin and the conference photograph with its list of delegates gives details of who attended. Before and after the event Brisbane institutions saw a flood of visiting entomologists on their way to and from the AGM. In general these will not be further elaborated on in this report.

Alan Fletcher Research Station, Lands Department

Staff have expanded with a sigh of relief into their new quarters which were opened by the Minister on 22nd April. This combined laboratory/office block almost trebles the previous space available. Further good news is that approval has been given for establishment of a new laboratory at Townsville, to be run as a subsidiary of the Sherwood unit. This will give a much needed base for operations in North Queensland on the increasing number of tropical weed problems in Queensland.

Rachel McFadyen and Alan Torley visited inland areas around Winton, Longreach and Hughenden in June to examine reports of widespread death of the pest spiny acacia, *Acacia nilotica*, in case it was the work of insects. Initial impressions are that it was a disease yet to be verified. Meanwhile, Brian Willson's trip to Pakistan to investigate biocontrol agents for the same plant is winding up and he is expected back soon after 22nd June.

The current crop of entomologists gaining "apprenticeship" experience in temporary employment culturing biocontrol agents of groundsel bush and parthenium weed includes Natasha Riding, Kev Lambkin, Philip Kirsch, Greg Dagleish and Gordon Paris.

Entomology Branch, Department of Primary Industries

A strong contingent of Queenslanders who attended the first Australia-wide conference on stored product entomology in Melbourne in May included Merv Bengston, Neil Heather, Eric Sinclair and Graham White. Graham took the opportunity to visit grain laboratories in Canberra and Sydney while he was away.

The Entomology Branch sponsored a workshop on tropical entomology in Mareeba during the week of 11th - 15th May following the Society AGM which had a similar theme. Those attending included Tom Passlow, Gordon Hooper and John Rogers from south Queensland, Ian Kay from Ayr, Geoff Strickland and Stewart Learmonth from Kununurra, Western Australia,

Allan Allwood, Ching Sing Li and Ted Fenner from Darwin and the local Mareeba-ites, Ian Cunningham, Ian Titmarsh, Ross Storey, Neil Gough and Bruno Pinese. This latest of a series of similar workshops that have been held at Mareeba proved, once again, a useful exchange of ideas between workers with similar problems, and was made none the less fruitful through the hospitality of the local northerners.

The beekeeping section within D.P.I. saw a doubling of manpower with the appointment of extension officer, Peter Marhurst, and experimentalist, Craig Marstella. It is pleasing to report that this results from a timely industry funding response to the introduction to Queensland last December of the serious European Brood Disease which had already been established in southern states.

Director, Tom Passlow, with Gordon Hooper of the University of Queensland attended a Cotton Industry funding advisory meeting in Narrabri in early June. They were accompanied by Peter Twine of the Toowoomba, D.P.I., office, and Bruce Pike of the University's Cotton Research Group.

University of Queensland

Professor Doug Craig, of the Department of Entomology, University of Alberta, visited the University briefly in June on his way home after spending sabbatical leave in New Zealand. His interests lie with those great Canadian levellers, black flies of the family Simuliidae, which he discussed with Doug Kettle and Martin Rice in the Entomology Department and Doug Moorhouse in the Parasitology Department.

C.S.I.R.O., Long Pocket Laboratories

Local members of the Entomology Division gathered at the McLeod Golf Club on the evening of 6th May for a farewell function and presentation for soon-to-retire Chief, Doug Waterhouse. Assistant Chief Lindsay Barton Browne also spent some time at the Laboratory before and after the Society AGM.

A new appointment is experimental officer, Martin Taylor, who will work with the effects of nutrients in Salvinia on biocontrol agents. He is a recent graduate of Griffith University.

Ken Harley, currently based in Brazil, will attend a meeting of the Commonwealth Science Council in Sri Lanka in June to discuss water hyacinth control. He expects to visit the South African operation of the Entomology Division while on the same trip.

Queensland Institute of Medical Research

Staff are busy with preparations for the Inaugural Derrick-Mackerras Lecture sponsored by the Institute to commemorate two distinguished former directors. The lecture will take place on 10th June and will be given by another former Director, Professor R.L. Doherty. At the same function Honorary Fellowship of the Institute will be conferred on a number of scientists, including entomologists Harry Standfast of the C.S.I.R.O. Long Pocket Laboratories and Bill Reeve of the University of California at Berkeley.

Geoff Monteith

SOUTH AUSTRALIA:

Department of Agriculture

Peter Allen visited Perth in March where he attended part of the Mosquito Control Course conducted by the Department of Health and Medical Services. He also spent time at the W.A. Department of Agriculture discussing the Mediterranean fruit fly sterile male programme, the Argentine ant control programme and research programmes on crop and pasture pests. A day was spent in the field with James Ridsdill-Smith, C.S.I.R.O., assessing the effects of introduced dung beetles on dung.

Waite Institute, Entomology Department

Helen Brookes has left for a two-month trip overseas. While in the U.K. she will be consulting coccidologists in the British Museum (Natural History). She is expected back in Adelaide by mid-July.

Mr. P.E. Coombe has completed his Ph.D. studies and submitted his thesis entitled "Visual behaviour of the whitefly *Trialeurodes vaporariorum* (Westwood)".

Ms. Herma de Wilde, a postgraduate student from the Agricultural University, Wageningen, worked with Derek Maelzer from October 1980 to February 1981 on problems of sampling insect pests in lucerne seed crops.

Mrs. Karindah Yosowidigdo of Brawijaya University, Malang, Indonesia, has joined the Department for a study period of 8 months under the auspices of the Australian Asian Universities Co-operative Scheme. She will spend her time here reviewing the literature and studying sampling techniques for agricultural pests under David Morgan's supervision.

A proposal for biological control of *Ips grandicollis* has been approved by the S.A. Woods & Forests Department. Subject to acceptance of the programme by plant quarantine authorities, introduction of parasites and predators from the U.S.A. will begin in late 1981. The project will be carried out in the Department of Entomology, under the supervision of David Morgan.

A major research project on the management of insect pests and pollinators of lucerne seed crops has been started by Derek Maelzer and Dudley Pinnock of the Waite Institute, and Paul Madge and Peter Bailey of S.A. Department of Agriculture. The first year's work, from 1st July, 1980, was supported by grants from the United Farmers and Stockowners of S.A. (Inc.) and the Rural Credits Development Fund.

Tom White, Dean of Applied Science, Riverina College, Wagga Wagga, visited the Department of Entomology from 19th - 21st May, for discussions with Derek Maelzer. Tom will key into the major project on lucerne seed pests later in 1981 when he spends 3-4 months of study leave at the Waite Institute.

Dennis Hopkins

WESTERN AUSTRALIA:

Doug Waterhouse passed through Perth on his way to South Africa where he was going to look at the dung beetle project work. While here he gave a talk to local scientists on entomological work performed by C.S.I.R.O. In the evening about twenty entomologists joined Doug for a congenial evening's note exchanging at a restaurant in the hills behind Perth.

Bruce Halliday, the acarologist recently appointed to C.S.I.R.O. visited C.S.I.R.O. scientists in Perth in March. Bob Pope of the British Museum (Natural History) also visited a number of local institutions to inspect collections of Coccinellidae.

James Ridsdill-Smith of C.S.I.R.O., Division of Entomology, is away from March to July and is visiting South Africa, Spain, France, U.K. and U.S.A. The primary aim of James' visit is to look at niche relations between dung beetles in Spain.

Lyne Hayles, also from the Division of Entomology, is currently visiting Canberra where she is looking at egg resorption in bushflies. Graham Hall will soon visit the Kimberley and Darwin area where he will survey the parasites of *Pectinophora* (pink boll worm).

Tony Friend has recently taken up a position with the W.A. Department of Fisheries & Wildlife. Previously Tony was working on the biology of terrestrial amphipods while based at the University of Tasmania. His new work is concerned with the biology of the numbat and will include studies on its feeding habits. It is possible that changes in the abundance of certain invertebrates may partly be responsible for the decline of the numbat.

Steve Curry of the W.A. Department of Agriculture is continuing to work on the leaf-blister sawfly, *Phylacteophagg froggatti*. Parasites of the larval stage were first obtained in Perth in 1980 and have since been found in country areas. More than twenty percent parasitism has so far been recorded from a few infestations. Seven different parasitic wasp species have so far been identified from W.A., including one Elasmid species, one Eupelmid, one Braconid, two Eulophid genera, including three species of *Cirrospilus*, and an unnamed genus. The latter is native to W.A. and is the commonest species so far found. The possibility of eventual biological control of this introduced pest using local parasites appears to be bright.

Jonathan Majer

TASMANIA:

Department of Agriculture

Spotted alfalfa aphid has become widespread in Tasmania following its discovery in December 1980. Populations built up rapidly in many lucerne stands during warm weather in March and caused serious damage to some stands.

Gordon Gross, South Australian Museum, has identified a single specimen of bug collected by pitfall trap in pasture as genus nr. *Maoristolus* (N.Z.). This genus belongs to sub family Aenictopechinae of fam. Enicocephalidae, a new sub family record for Australia.

Forestry

Humphrey Elliott visited New Zealand in December as part of a Forest Officer Exchange scheme for discussions on biological control of Chrysomelidae and ambrosia beetles in rainforest.

Margaret Williams

PAPUA NEW GUINEA:

Dr. Nagaraja from the C.I.B.C. in Bangalor, India, visited D.P.I. to discuss control of sugar cane pests.

Graeme Young is now rearing the sugar cane borers *Chilo terrenellus* and *Sesamia grisescens* in mass culture on artificial media to assist the establishment of the biological control agents. *Apanteles flavipes* has already been reared and is being released. *Sturmiopsis inferens* has not been successfully cultured as yet.

Jan Greve has now begun his investigations into the storage of pandanas nuts and has been looking at the traditional methods in the Highlands.

Brian Thistleton recently visited Port Moresby to examine the sweet potato trials at the Laloki Plant Quarantine Station for infestation of the weevil *Cylas formicarius*. These trials are a continuation of the programme to establish a control by insecticide application.

Yael Lubin left Papua New Guinea in late February to go (with a little meandering) to the Charles Darwin Research Station in the Galapagos Islands where she will embark upon a study of problem ants for six months before going to the University of Florida.

Elaine Brough

VICTORIA:University of Melbourne

Professor Max Whitten leaves the Department of Genetics in August to take up the position of Chief of the C.S.I.R.O., Division of Entomology in Canberra. He will be replaced as Chairman of the Department by John McKenzie, also an entomologist, who works on the ecological genetics of the Australian Sheep Blowfly and *Drosophila melanogaster*.

Four 1981 A.R.G.C. grants were awarded for entomological projects in the Department of Genetics: to John Dearn for a new project on genetic aspects of phase polymorphism in locusts; to Jon Martin for his work on the taxonomy and phylogeny of the Chironomidae; to John McKenzie for studies on the ecological genetics of *Drosophila melanogaster* and to Max Whitten and John McKenzie for their project on the development of insecticide resistance in the Australian Sheep Blowfly. Field work associated with the Sheep Blowfly project is being carried out at the University of Melbourne's farm, Strathfieldsaye, on the northern shore of Lake Wellington in Gippsland. A laboratory has been recently built on the farm and this proved particularly useful last summer for field work carried out by John Dearn on the grasshopper *Phaulacridium vittatum* which reached very high numbers in the Stratford region.

John Dearn and John McKenzie presented papers at a symposium entitled "Populations, Habitats and Colonizing Strategies" held in March at LaTrobe University. The symposium was also attended by Max Whitten and Jon Martin.

Dr. Bill Atchley from the Department of Entomology, University of Wisconsin, who is collaborating with Professor M.J.D. White on studies on the Australian parthenogenetic grasshopper *Warramaba virgo*, visited the Department of Genetics in March.

LaTrobe University, Department of Zoology

Two postgraduate students have recently been awarded the Ph.D. degree: Jane Hughes (now at Griffith University) for her thesis "Geographic variation in the Australian magpie and its Mallophagan parasites", and David Palmer (currently in Europe) on "Partitioning of the carrion resource by sympatric Calliphoridae (Diptera) near Melbourne".

Recently-commenced entomological projects include David Maclaren's work on eucalypt defoliation with Tim New, and Swarna Hewa-Kapuge's project on *Pieris rapae* with Dr. W. Danthanarayana.

Dennis Farrugia, formerly a student in the Department has recently been appointed as a third year demonstrator.

National Museum of Victoria

Ken Walker has been appointed Assistant Curator in the Department of Entomology and he commenced duties on 27th April. Initially, he will be working with the Hymenoptera collection.

Alan Yen has taken up a position in the Biological Survey Department.

The first Honorary Research Fellow of the Museum will be Dr. John C. Morse from Clemson University, U.S.A., who will spend 5 months (August - December) working on his research project "The phylogeny of Triplectidine caddis flies".

In early April, Arturs Neboiss spent several days at C.S.I.R.O., Division of Entomology, Canberra, working mainly on caddis flies.

Recent overseas visitors included Dennis Brothers, University of Natal (Australian mutillid wasps), and Keith Wise, Auckland Museum (Antartic collembola).

Interstate visitors included Judith King, University of Queensland; Bob Taylor, C.S.I.R.O.; and Graham Brown, New South Wales Department of Agriculture.

C.S.I.R.O., Division of Building Research

John French thoroughly enjoyed the 12th AGM but was distressed to see the extent of the eucalypt dieback in the New England area. While in Brisbane, John visited the Division of Entomology laboratories at Indooroopilly and also spent time with Robin Yale and Ross Wylie.

The Division has an involvement in a Forestry Commission's project looking at termite damage in regrowth mountain ash in Powelltown. Sixty percent of ash resources in Victoria are regrowth and very little is known about the significance of insect attack on regrowth.

John has also been made a deputy group leader in the International Union of Forestry Research Organisations. John is involved in the section dealing with "Site Interaction of Pests and Diseases" and would welcome any Australian information on this subject.

Alan Rosel has now retired after a lifetime in the Division. His address is: 7 Coppin Grove, Hawthorn, Vic., 3122

Plant Research Institute, Burnley

The Institute has recently been through a process of formalizing sections within both entomology and plant pathology. Entomology now is divided into four sections: Horticultural Entomology (Dave Morris); Agricultural Entomology (Peter Williams); Insect Biology (John MacFarlane); and Pesticides Research (Malcolm Campbell).

The Pesticides Research Section has been created out of existing staff and includes Ian Smith (Entomologist) and Jim Whan (Plant Pathologist). It is hoped to include a chemist and a modeller and possibly a meteorologist in the near future. The section will be looking at application methods for all agricultural chemicals at integrating the use of agricultural chemicals and at strategic control of pests and diseases on crops. It is expected that a person with considerable experience in modelling pest management programmes will be Visiting Scientist at the Institute from September 1981 for twelve months.

Stephen Sexton has concluded his three year study which assessed the feasibility of using the microsporidian, *Nosema locustae*, to control the wingless grasshopper, *Phaulacridium vittatum*. He has now resigned from his position and has migrated to Warwick, Queensland, where he will be involved in a range of enterprises. One idea he will be pursuing is the production and marketing of biological control agents. Initially, he intends rearing the predatory mite, *Phytoseiulus persimilis*, for control of twospotted mite. In the longer term, he is keen to be involved with culturing and marketing of insect pathogens.

Recent visitors included Harold Madsen and Colin Bower for discussions with Dave Morris about pome and stone fruit entomology. Harold gave an excellent seminar about the use of codling moth pheromone traps with emphasis on his work with Graham Thwaite at Orange. Their visit has served as a catalyst for increasing attention paid to pest management of pome and stone fruits in Victoria.

Dennis Hopkins visited the Institute for two days at the end of May and managed to speak to numerous people - despite being almost swept away by a fast-rising creek. After the Stored Grain Conference, Graham White and Jan Greve visited P.R.I. to have discussions with Terry Amos and Carl Reinganum, respectively.

Peter Ridland, Tim New

1st Australian Stored Grain Pest Control Conference,
LaTrobe University, Bundoora, 18th - 22nd May, 1981

The conference was opened by Mr. Bruce Lloyd, M.P., Parliamentary Secretary to the Hon. P.J. Dixon, Minister for Primary Industry. Over the five day period, a total of 106 delegates from State Departments of Agriculture, Universities, Grain Handling Authorities, Marketing Boards, Commonwealth instrumentalities, including C.S.I.R.O. and the Department of Primary Industry, Commercial organisations and private individuals attended.

The opening address on the grain industry and its future was given by Mr. Bill Murray, Technical Services Manager of the Australian Wheat Board. Thereafter delegates presented 47 contributed papers. The main topics of papers and discussions were the grain handling system, farming and farm equipment, hygiene including the design of storage and transport equipment, thermal disinfestation of grain, fumigation and controlled atmosphere treatments in sealed storages, insect biology and control strategies, grain protectants, resistance to grain protectants, and the role of government and industry.

On Wednesday, 21st May, delegates visited G.E.B. storage and handling facilities at Dunolly, Charlton and Bridgewater and enjoyed a barbecue lunch.

A meeting of conference delegates agreed unanimously that the Conference had been very successful because it had brought together those involved in research on developing new programmes to control insects throughout the industry and particularly on farms.

Peter Williams

NEWS FROM AFFILIATED SOCIETIES

The Entomological Society of New South Wales

The new year got off to a good start in March with the Annual General Meeting, when a new Council was elected. Council was enthusiastic to have speakers at Ordinary Monthly Meetings of a high standard, and we are lucky to have Fred McDonald (Assoc. Prof. in Agricultural Entomology, Sydney University) in April who spoke on Insect Taxonomy. This was a very well attended meeting including a high number of students. A lively discussion followed. Laurie Greenup (Director, Pesticides and the Environment, Department of Agriculture, New South Wales) spoke in May and gave us insight into progress being made co-ordinating activities between various Government departments concerned with pesticide effects. Dr. Harold Madsen (Canadian Department of Agriculture) speaks to us in June on Insect Pheromones and Professor McMurtry in July. We are in the process of organizing a seminar on "Entomological Education in the 80's" to be held at Macquarie University on 23rd October, 1981. More details given elsewhere in the Bulletin.

Our Society has been asked once again to comment on the proposed Insect Protection Legislation in New South Wales. Council feels the Legislation in its present form should be abandoned and replaced by Legislation incorporating habitat protection. We are at present holding a postal ballot amongst our members to get a consensus.

Andy Ramage, a hard working Council member for many years, is recovering from a major operation.

Jenny Anderson

REPORT OF THE TWELFTH ANNUAL GENERAL MEETING

The 12th Annual General Meeting and Conference of the Australian Entomological Society was held at the Surfair Hotel on Queensland's Sunshine Coast during the period 8th - 9th May, 1981.

A record attendance of 155 delegates was achieved, and these were accompanied by 37 spouses and 25 children. It is notable that the only other AGM to have attracted more than 100 delegates was the previous Queensland one, that held at Southport in 1970, which had 127 present. The 155 Surfair delegates comprised 118 full members, 26 student members and 11 non-members of the Society. Papua New Guinea and all Australian States were represented, though rather unevenly, as follows: Queensland, 86; New South Wales, 22; A.C.T., 15; South Australia, 14; Victoria, 10; Northern Territory, 3; Papua New Guinea, 3; Tasmania, 1; Western Australia, 1. It was gratifying to see large contingents of staff and students from both ANU and the Waite Institute. From the latter, Professor Tom Browning led a contingent of 13, comprising virtually the whole South Australian delegation.

The meeting enjoyed superb weather and general conference spirit was enhanced by having exclusive (and total) occupancy of the luxurious, beachside, six-storey Surfair Hotel with its complete range of conference and entertainment facilities under one roof. The multiplicity of spouses and children (plus the occasional truant delegate!) enjoyed a hedonistic parallel conference around the pool or on the beach - so enthusiastically, in fact, that the two morning bus tours arranged by the Organising Committee were a flop because no one wanted to leave Surfair.

Despite the diversions, a busy programme of 47 papers grouped into 11 sessions was presented and enthusiastically attended. In accord with the conference's location in the warmer latitudes the keynote symposium was on the theme of "Tropical Entomology" with invited speakers being C.S.I.R.O., Chief of Tropical Pastures, Ted Henzell, giving the overview, and Pat Marks, Ian Cunningham and Ted Fenner filling in the med-vet, agricultural and melanesian aspects of the theme. Other sessions included Physiology-Behaviour, Agricultural Entomology, Photoreception, Medical Entomology, Invertebrate Pathology, Evolution and General Biology. Memorable moments included Tom Browning's aplomb in the face of a predatory projector, the audience's involuntary but unwarranted flinch as Melanie O'Flynn began to show her slides, and the one speaker who didn't go over time. Highlights included Ian Common's magnificently illustrated Presidential Address on adaptations and mimicry in Australian Lepidoptera, and Student Award winner, Ann Wagner's, vindication of the judges' choice by her clear, confident presentation on lack of intra-specific genetic variability in *Trigona*.

182 people sat down to the Society Dinner in the "Top of the Surf" restaurant on the Saturday night and were entertained by incoming President Doug Kettle, C.S.I.R.O. Chief - designate, Max Whitten, and Chief Editor, Gordon Hooper, in their dinner roles of chairman, dinner speaker and vote-of-thanks mover, respectively. For the perceptive there was "many a serious word spoken in jest" as Max touched on various aspects of entomology, not least important being future government funding for research.

An innovation at this conference was inclusion of displays in the contributed programme. No less than 23 were erected by delegates and these provided entertaining browsing during tea and lunch breaks. Exhibits ranged from simple poster displays, through audio-visual presentations to veritable 3 ring circuses put on by stalwarts such as Eric Reye (Research on Biting Midges), Phil Webb (Electronic Devices of use in Entomology) and Richard Bull (Pests of the Sugar Industry). Very popular was the trade display of entomological books and goodies presented by Dawn Frazer and Joyce Lenehan from Australian Entomological Supplies; many delegates, including the senior author, took the opportunity to fondle an advance copy of the long-awaited new edition of Common & Waterhouse's "Butterflies of Australia".

The welcoming drinks hosted for delegates by the Entomological Society of Queensland on the Friday evening was enthusiastically attended (the drinks were free) but the planned troika of performing presidents turned into a duet with the temporary misplacement of a key Sydneysider. Traditional close links between the Queensland Society and the national Society were reconfirmed by a shouted exchange of greetings between Presidents Ted Dahms and Ian Common during a lull in the hubub of renewed acquaintances between 155 entomologists.

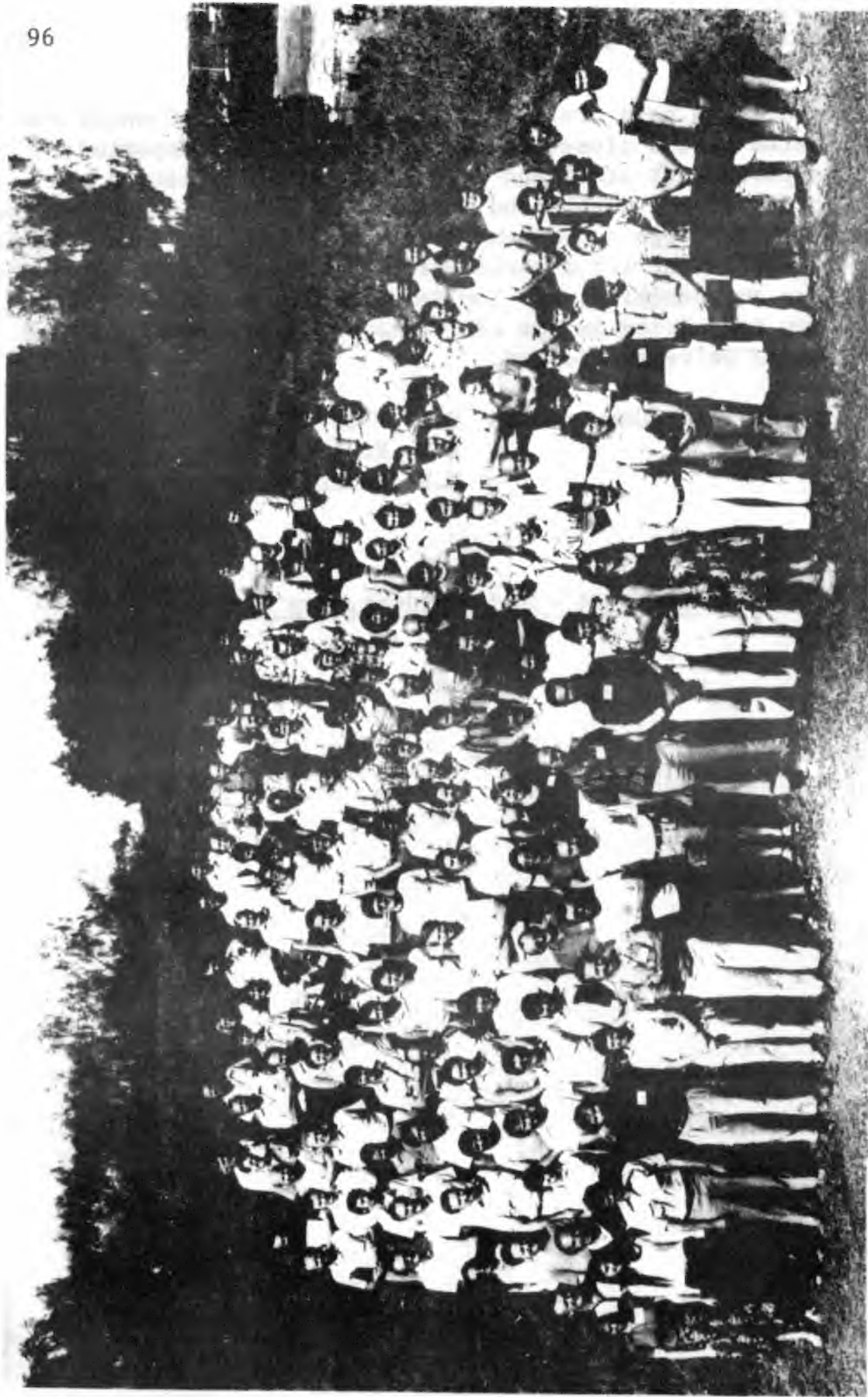
Though none were found by either daytime collectors or nighttime revellers, the Cooloola Monster made its appearance everywhere as the symbol of the 12 AGM. Drawn by Sybil Monteith, our logo of *Cooloola propator* Rentz was also incorporated into the striking cover of the "Conference Papers, May '81" booklet designed and screen printed by art staff at the Queensland Museum and which includes the now infamous 7-legged insect! This 40 page booklet, which included abstracts of all papers presented, gave delegates a permanent memento of the conference.

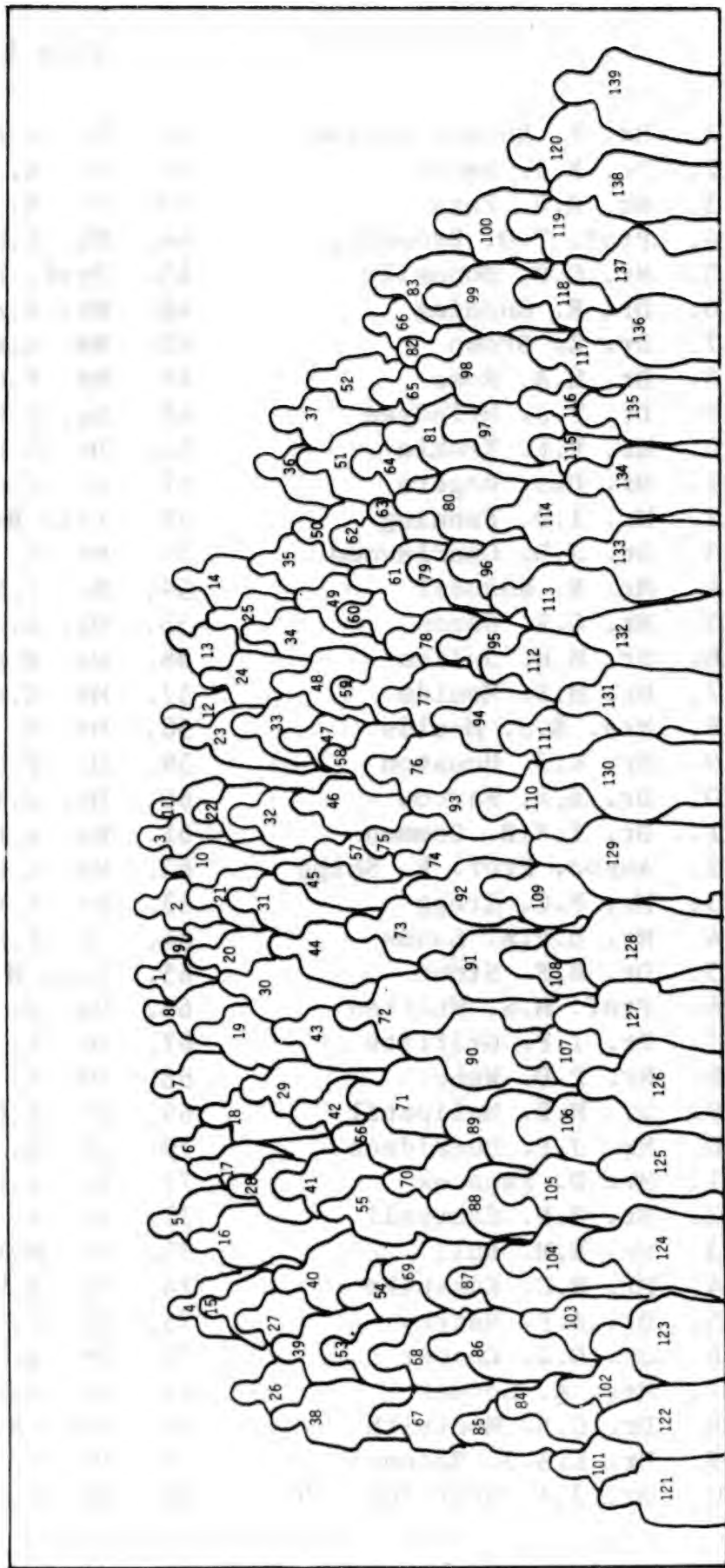
The Organising Committee owes thanks in many directions: to the delegates for filling the hotel; to the speakers and chairman for providing the programme; to the exhibitors for decorative diversions; to Surfair management for service,

victuals and calm professionalism; to Society Council who laboured behind closed doors while delegates disported; to typists, art staff and a working bee of collators and staplers at the Queensland Museum; to Gudrun Sarnes for the name tags no one could bear to throw away; to Vince Salanitri and Rudy Kohout for a giant effort in co-ordinating projectors, slides and exhibits; to Tom Passlow, Pat Marks and Gordon Hooper for advice in the early stages of programming; and to those we've overlooked.

Organising Committee: G.B. Monteith
B.H. Kay
N.W. Heather

12th AGM - Maroochydore, May 1981





1. Mr. P. Barker-Hudson
2. Dr. R.J. Mahon
3. Mr. R.P. Paru
4. Prof. T.O. Browning
5. Mr. G.P. Donnelly
6. Dr. R. Gunning
7. Dr. K. Brown
8. Dr. H.A. Rose
9. Dr. P.J. McFadyen
10. Mr. R.E. Teakle
11. Mr. D.J. Rogers
12. Mr. I.D. Fanning
13. Dr. J.D. Charlewood
14. Mr. R. Russell
15. Mr. C.E. Hagan
16. Mr. M.H. Julien
17. Mr. M.S. Moulds
18. Mrs. B.J. Moulds
19. Mr. K.J. Houston
20. Dr. R.A. Farrow
21. Dr. I.F.B. Common
22. Assoc. Prof. E. Shipp
23. Mr. P.C. Gregg
24. Mr. D.P.A. Sands
25. Dr. B.F. Stone
26. Prof. M.S. Whitten
27. Dr. I.P. Griffith
28. Mr. P.D. Webb
29. Dr. M.B. Malipatil
30. Mr. J.F. Donaldson
31. Mr. D. Papacek
32. Mr. B.K. Cantrell
33. Mr. R.M. Bull
34. Mr. R.C. Kassulke
35. Dr. A.P. Mackey
36. Dr. D.J. Cooper
37. Mrs. A. Cooper
38. Dr. G.B. Monteith
39. Mr. L.A.J. Radunz
40. Dr. J.A. Shuttleworth
41. Dr. R.A.I. Drew
42. Mr. A.J. Allwood
43. Dr. R. Domrow
44. Mr. A.D. Wright
45. Prof. D.S. Kettle
46. Mr. B.A. Franzmann
47. Mr. G.K. Waite
48. Mr. P.G. Allsopp
49. Dr. N.W. Heather
50. Dr. G.H.S. Hooper
51. Mr. C.G. Freebairn
52. Eric Reye
53. Mr. S. Learmonth
54. Mr. P.E. Coombe
55. Mr. R.A. Yule
56. Mr. D.K. Yeates
57. Mr. G.P. Browning
58. Dr. D. Dall
59. Mr. P.C.E. Bailey
60. Mr. G.F. Maywald
61. Mr. A.D. Austin
62. Ms. C.L. Brayley
63. Mr. T.F. Fenner
64. Dr. E.M. Exley
65. Miss M. Evans
66. Ms. J. Lamy
67. Dr. L. Barton Browne
68. Dr. E. Henzell
69. Mr. D.G. Holdon
70. Dr. R.J. Milner
71. Mr. D.P. Sinclair
72. Mr. P. Kirsch
73. Mr. M.Y. Hussein
74. Mr. N.W. Rodd
75. Dr. J. Madden
76. Dr. A. Macqueen
77. Dr. C.N. Smithers
78. Mrs. S.R. Monteith
79. Mr. P. Samson
80. Mr. G. van de Klashorst

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| 81. Mr. T. Cribb | 121. Ms. M. Kotzman |
| 82. Mr. D. Smith | 122. Ms. P.J. Gullan |
| 83. Mr. J.C. Conran | 123. Dr. I.C. Cunningham |
| 84. Mr. M.S. Harvey | 124. Mr. R.J. Raven |
| 85. Miss H. Mariath | 125. Miss J. Grimshaw |
| 86. Assoc. Prof. F.J.D. McDonald | 126. Mr. E.C. Dahms |
| 87. Dr. J.R.J. French | 127. Mr. R.I. Storey |
| 88. Dr. I.D. Galloway | 128. Dr. N. Gough |
| 89. Mrs. P. Mottram | 129. Dr. R.W. Sutherst |
| 90. Mr. W.K. Jorgensen | 130. Dr. P.B. Room |
| 91. Mr. F.R. Wylie | 131. Dr. J. Nolan |
| 92. Mr. J.R.E. Hardy | 132. Dr. M.A. O'Flynn |
| 93. Mr. G. Daniels | 133. Dr. E. Hassan |
| 94. Miss A. Wagner | 134. Ms. G. Sarnes |
| 95. Dr. V.E. Davies | 135. Miss A. Eduayah |
| 96. Dr. T. Spencer | 136. Dr. J. McDonald |
| 97. Ms. K. van Brunshot | 137. Dr. R.E. McFadyen |
| 98. Mr. C.H. Eisemann | 138. Mr. R.A.H. Davies |
| 99. Dr. D.A. Maelzer | 139. Mr. N.A. McLaren |
| 100. Dr. D. Pinnock | |
| 101. Mr. R.J. Kohout | |
| 102. Mr. V. Salanitri | |
| 103. Mrs. M.M. Harris | <u>Absent from Photograph</u> |
| 104. Mr. D. Merritt | |
| 105. Mr. P. Pinese | Mr. G.A. Buchanan |
| 106. Dr. J.N. Yates | Mr. R.D. Cooper |
| 107. Mr. T. Passlow | Mrs. D. Frazer |
| 108. Dr. J.M.E. Anderson | Mr. S.J. Gagen |
| 109. Dr. D. Hales | Mr. J. Howard |
| 110. Mr. G.A. Holloway | Dr. D.M. Hunter |
| 111. Miss M.A. Schneider | Prof. D.J. Lee |
| 112. Dr. E.N. Marks | Dr. M.J. Rice |
| 113. Mrs. M. Spencer | Mr. G.P. Sheldon |
| 114. Dr. B.P. Moore | Dr. G. Stange |
| 115. Mrs. J. King | Dr. R.W. Taylor |
| 116. Mrs. A. Hill | Dr. P.H. Twine |
| 117. Miss B. Sorby-Adams | Mr. K. Walker |
| 118. Mr. D.J. Scambler | Miss J. Semple |
| 119. Mr. R.G. Piper | Miss L. Morgan |
| 120. Dr. B.H. Kay | Dr. R.J. Hart |

Assistance to Attend XXI International
Horticultural Congress in Hamburg

Applications for awards from the Horticultural Congress Trust are now invited and should be submitted by no later than 1st September, 1981.

This was announced by the Chairman of the Trust, Mr. G.R. Gregory, of the New South Wales Department of Agriculture. The awards which could range in value up to \$1,500 will be provided to assist the attendance of Australians at the XXI International Horticultural Congress to be held in Hamburg, Federal Republic of Germany in August 1982.

Mr. Gregory said that the trustees would favour applicants under the age of 40 years who would find it difficult to otherwise raise the full amount required for attendance. It will not be essential for applicants to present papers to the Congress to qualify but they would need to demonstrate the potential value of gaining an award to both themselves and their particular sphere of horticultural interest.

Successful applicants will be required to prepare a 2,000 word report outlining the benefits achieved from the award.

Application forms are available from the Horticultural Congress Trust at P.O. Box K220, Haymarket, N.S.W., 2000.

Mr. Gregory said that the money for the awards had been provided by the investment of residual monies remaining from industry contributions towards the staging of the XX International Horticultural Congress in Australia in 1978.

1981 BRITISH CROP PROTECTION CONFERENCE - PESTS AND DISEASES

The 1981 British Crop Protection Conference - Pests and Diseases, will take place at the Hotel Metropole, Brighton, Sussex, England, from 16th - 19th November, 1981. All enquiries should be addressed to the Conference Secretary:

Mrs. R.A. Bishop,
Frank Bishop (Conference Planners) Ltd.,
144-150, London Road,
Croydon, CRO 2TD,

U.K.

The Overseas registration fee to attend the conference is 87 Pounds and is due by 2nd October, 1981.

Conference sessions include New compounds, Formulations and uses, Unusual mite problems, Behaviour and fate of pesticides after application, Cereal pest and disease control, Pest control in annual tropical crops, Viruses and vector control, New approaches to the control of soil-borne pests and diseases, Pest and disease control in field crops excluding cereals, Pest and disease control in fruit and hops, Pesticide resistance in pests and pathogens, Pesticide resistance - its impact on pest and disease control, Role of application technology in pest management.

Addresses Unknown

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

Dr. A.V. Spain, formerly of Department of Biological Sciences, James Cook University, P.O. Box 999, Townsville, Queensland, 4810.

Mr. J. Stock, formerly of 7 McLucas Street, Bundaberg, Queensland, 4670.

Mr. K.C. Davis, formerly of 32 Warrimoo Drive, Marayong, New South Wales, 2148.

Dr. K.L. Lindsay, formerly of 2/20 Rocklands Road, Wollstonecraft, New South Wales, 2065.

GENERAL LITERATURE

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