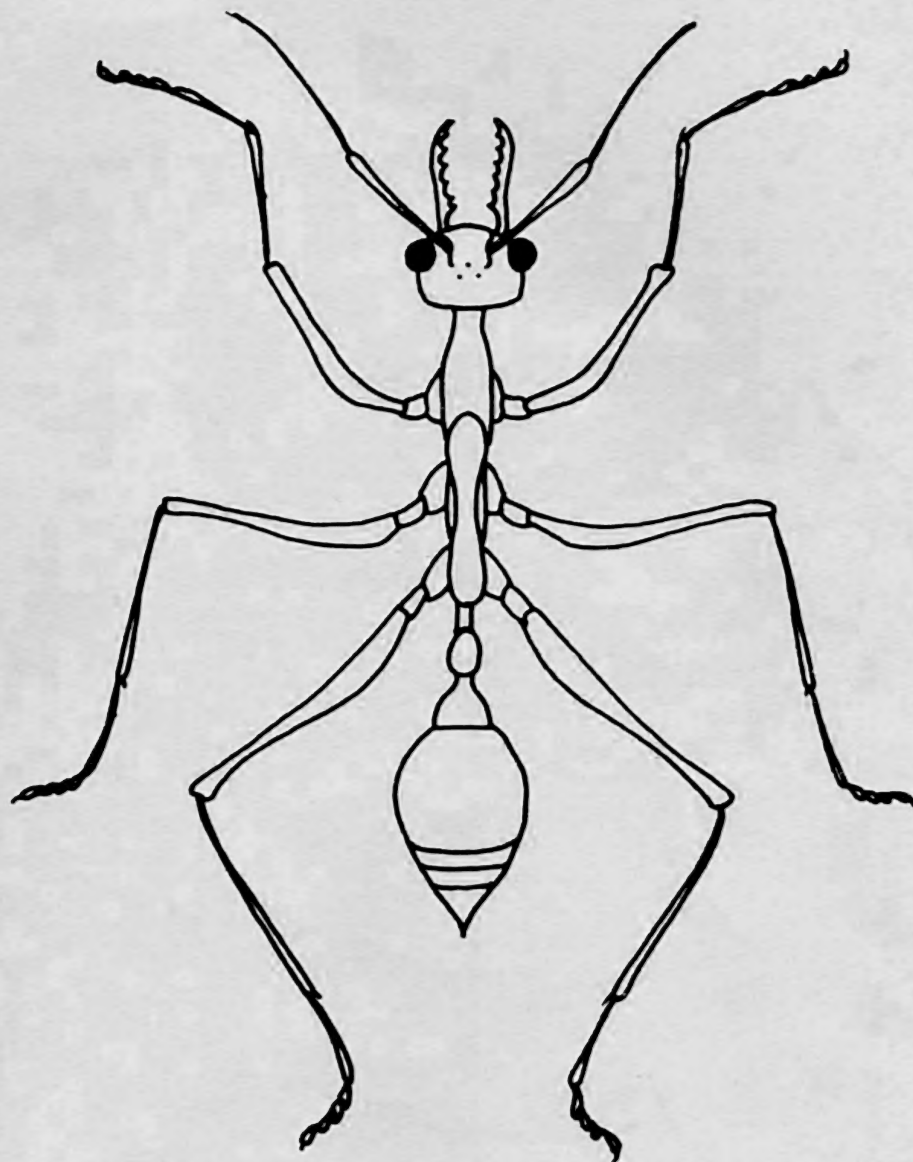


AUSTRALIAN ENTOMOLOGICAL SOCIETY



NEWS BULLETIN

Volume 4, Part 1. February, 1968.

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AUSTRALIAN ENTOMOLOGICAL SOCIETY

NEWS BULLETIN VOLUME 4, PART 1 - FEBRUARY, 1968.

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THE EDITOR WILL BE PLEASED TO RECEIVE CONTRIBUTIONS TO THE
NEWS BULLETIN FROM INDIVIDUAL MEMBERS OF THE SOCIETY.

OFFICE BEARERS AND COUNCILLORS

- President: Prof. M.J.D. White, F.R.S., F.A.A., Department of Genetics, University of Melbourne, Parkville, 3052, Victoria.
- Vice President: Dr. E.N. Marks, Department of Entomology, University of Queensland, St. Lucia, 4067. Queensland.
- Secretary: Dr. R.H. Wharton, Division of Entomology, CSIRO, 677 Fairfield Road, Yeerongpilly, 4105. Queensland.
- Treasurer and Business Manager: Dr. G.H.S. Hooper, Department of Entomology, University of Queensland, St. Lucia, 4067, Queensland.
- Editor: Dr. B.R. Champ, Department of Primary Industries, Meira Road, Indoooopilly, 4068. Queensland.

COUNCILLOR EX OFFICIO

- Immediate Past Presidents: Dr. I.M. Mackerras, F.A.A., Division of Entomology, CSIRO, Box 109, Canberra City, 2601, A.C.T.

REGIONAL COUNCILLORS

- Queensland: Mr. H.A. Standfast, Queensland Institute of Medical Research, Herston Road, Herston, 4006, Queensland.
Mr. J.G. Brooks, P.O. Box 354, Cairns, 4870. Queensland.
- N.S.W.: Mr. J.R.J. French, 96 Harrington Street, Sydney, 2000.
- A.C.T.: Mr. I.F.B. Common, Division of Entomology, CSIRO, Box 109, Canberra City, 2601, A.C.T.
- Victoria: Mr. G.P. Shelden, Victorian Plant Research Institute, Swan Street, Burnley, 3121, Victoria.
- Tasmania: Dr. J.L. Madden, CSIRO, Tas. Reg. Laboratory, Stowell Avenue, Hobart, 7000, Tasmania.
- S.A.: Dr. P.W. Miles, Waite Agricultural Research Institute, P.M.B. No. 1, Glen Osmond, 5064, S.A.
- W.A.: Mr. P.N.M. Forte, Department of Agriculture, Jarrah Road, South Perth, 6151, W.A.

T.P.N.G.: Mr. T.V. Bourke, D.A.S.F., Pepondetta, N. District, Papua.

COUNCILLORS REPRESENTING AFFILIATED SOCIETIES

Entomological Society of Queensland: Dr. E.J. Reye, Department of Entomology,
University of Queensland, St. Lucia, Queensland.

Royal Zoological Society of New South Wales: Mr. C.N. Smithers, Australian Museum,
College Street, Sydney, N.S.W.

Entomological Society of Victoria: Mr. J.S. Barnes, 42 Lucknow Street, Mitcham,
Victoria.

EXECUTIVE APPOINTMENTS

Bulletin Editor: Mr. C.N. Smithers, The Australian Museum, 6-8 College Street,
Sydney, N.S.W. 2000.

Assistant Secretary: Mr. K.W.B. Utech, Division of Entomology, University of
Queensland, St. Lucia, Queensland. 4067.

Assistant Editor: Mr. R.W. Steele, Department of Primary Industries, Meira
Road, Indooroopilly, Queensland. 4068.

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MATERIAL.

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

REPORT FROM THE EXECUTIVE

Two Executive and two Officers' Meetings were held, on 30 November, 1967 and 26 January, 1968. Council meetings were held in conjunction with the Second A.G.M. at Armidale on 8 and 9 February, 1968.

The Annual Report, presented at the A.G.M. is included in this Bulletin and there is little additional information to record.

Regional Councillors. Nominations for Regional Councillors were received from all regions and the Council for 1968-9 (including appointments to Council by affiliated Societies) was announced at the 2 A.G.M.

Membership. Ten new members were elected, one died and one resigned.

Council Meetings. Two Council meetings were held on 8 and 9 February at the time of the Second Annual General Meeting. Discussions centred on -

- (a) Finance, both with respect to the necessity for an increase in size of the Journal and maintenance of publication of the News Bulletin in its present form and size.
- (b) Editorial policy, particularly with respect to designation of a holotype and deposition of types, in an institution, preferably an Australian one for Australian species.
- (c) Additional handbooks.
- (d) Support and information for the N.S.W. National Parks and Wild Life Service regarding the inclusion of insects as protected animals under a proposed new N.S.W. Wildlife Conservation Act.
- (e) Provision in the constitution for special membership for recognition of eminent Australian entomologists.
- (f) Incorporation of the Society.
- (g) Prospects for the XIVth International Congress of Entomology being held in Australia and the part to be played by the Society.
- (h) Support for a suggestion that a Committee on Environmental Quality be formed by the Australian Academy of Science with the Society providing data on insecticide pollution.
- (i) Appointment of a sub-committee to examine and advise on statistics compiled by the Government Statistician on Pesticide Import and Manufacture.

News Bulletin. Vol. 3, Part 4 was posted to members on 14 December, 1967.

SECOND ANNUAL GENERAL MEETING

University of New England, Armidale - 8-11 February, 1968.

The meeting was extremely successful, particularly with respect to the opportunity given to members to meet entomologists in the informal ~~rural~~ atmosphere of the University of New England. The majority of participants lived together in Duval College and thus met frequently before and after the formal meetings. Although the venue is less accessible than a capital city, nevertheless those members who were able to attend would undoubtedly agree that the disadvantages were offset by the atmosphere in which the meetings were held.

Thursday, 8 February.

The following papers were delivered.

Morning Chairman: Prof. A.F.L. O'Farrell

Population movements of Danaus plexippus (L.) in Eastern Australia.

C.N. Smithers

The distribution of the furniture beetle, Anobium punctatum (De Geer) in New South Wales.

The European house borer, Hylotrupes bajulus (L.) its occurrence and control in New South Wales.

J.R.J. French

Population fluctuations of certain insect species on Cacao under regular insecticide treatment.

T.L. Fenner and
D.F. O'Sullivan

Some exciting recent fossil ant discoveries.

R.W. Taylor

Mating behaviour of irradiated fruit flies.

M. Bhatti

Afternoon Chairman: Mr. G. Pasfield

Ecological studies on the cattle tick in New South Wales

R.N. McCulloch

Insecticides and their effects on controlling Beophilus microplus (Canestrini).

C.A. Hall

Biochemistry of acaricide resistance in the cattle tick
Boophilus microplus

W.J. Roulston

Organophosphates and the Australian sheep blowfly.
R.J. Hart

Friday, 9 February.

Morning Annual General Meeting.

W.W. Froggatt Memorial Lecture - "The Entomology of
Citrus in New South Wales".

P.C. Hely

Afternoon Chairman: Dr. D.F. Waterhouse

Exotic Insects and Insect Borne Diseases

Plant quarantine in Australia

J.R. Morschel

Animal quarantine in Australia

K. McIntosh communicated
by I.D. Cameron-Stephen

Saturday, 10 February

Morning Symposium Chairman: Prof. M.J.D. White

"Entomology and the Community".

The Role of the Entomologist.

M.F.C. Day

Undergraduate Training in Entomology in Australia.

Miss E.M. Exley

Postgraduate Courses in Entomology.

E. Shipp

Need for the Fundamental Approach.

K.R. Norris

Need for the Applied Approach.

G.J. Shanahan

Afternoon

Contribution by Industry.

A.N. Johnston

Need for Extension Entomology.

C.D. Brickhill

The Challenge of the Future.

D.F. Waterhouse

Evening Dinner.

Sunday, 11 February.

Twenty members attended the excursion to New England National Park. The following statement prepared by Professor A.F.L. O'Farrell describes the Park. "The Park is situated about 48 miles east of Armidale. With an area of over 50,000 acres, a range of altitudes between about 500 and 5000 feet above sea-level, and an annual rainfall of the order of 80 inches or more, this is one of the finest scenic areas and most varied and interesting biological regions in the State. The insect fauna is quite rich and varied, and the Trustees have no objection to entomological collecting by scientific groups, provided that no damage to vegetation nor amenities of the Park is occasioned thereby. The subtropical rain-forests of the lower areas of the Park are too inaccessible to be reached on this excursion, but many interesting habitats can be explored within half-an-hour's walk of the parking areas. These include alpine grasslands with snow gum and banksia scrub, sphagnum bogs, mountain swamps and streams, and temperate rain-forest dominated by Nothofagus (Antarctic beech) of varying size and density. Occasionally the insect fauna of the area around the summit look-out, 5,260 feet above sea-level, is enriched by insects of coastal origin. These get caught and swept up to the summit by the strong up-draughts which often sweep up the precipices overlooking the Bellinger Valley, 3,500 feet below".

ANNUAL REPORT OF THE AUSTRALIAN ENTOMOLOGICAL SOCIETY

FEBRUARY, 1968.

The Executive takes pleasure in presenting the second Annual Report of the Australian Entomological Society covering the 13-month period 1 January 1967 - 31 January 1968. This has been generally a period of consolidation for the Society with one outstanding historic event, publication of the first volume of its Journal. Administrative procedures outlined in the first Annual Report have been continued.

There have been 12 Executive meetings and the Officers have met 11 times in their capacity as the Publication Committee. The President had no opportunity to attend an Officers Meeting; his advice was obtained on a number of matters but, in comparison with the inaugural period, few policy problems arose.

Those who accept appointments by the Executive play an essential role in the Society's affairs without the honour of office. We wish to record our thanks

to the Bulletin Editor, the Assistant Secretary, the Assistant Treasurer, and to the New South Wales Regional Committee who undertook the complex task of organising a 4-day residential meeting for the Society's second Annual General Meeting. Special thanks are due to those who were largely responsible for production of the first issue of the Journal while the Editor was overseas - the Acting Editor who supervised it to the galley stage, and the Assistant Editor who capably bore an exceptionally heavy burden of tasks.

Executive Appointments.

Appointments by the provisional Executive lapsed when it relinquished office at the first Annual General Meeting. The present Executive holds office for two annual terms and its appointments are for that period. At its first meeting in February 1967 it renewed the appointments of Mr. C.N. Smithers as Bulletin Editor, Dr. T.E. Woodward as Acting Editor, Mr. T.A. Weir as Assistant Secretary, and Mr. R.W. Steele as Assistant Editor. Dr. Woodward relinquished his appointment in May on the Editor's return to Brisbane. With publication of the Journal the need arose for an assistant to the Treasurer/Business Manager, while experience indicated that it was convenient where possible for an Officer to have his assistant located in the same institution. Consequently in March, Mr. T.A. Weir was appointed Assistant Treasurer and Mr. K.B.W. Utech Assistant Secretary.

In March when Queensland membership had reached 77, the Executive, after consultation with the Regional Councillor, appointed Mr. A. Macqueen of Gordonvale, north Queensland, the second Regional Councillor for Queensland.

Membership.

At 1 January 1967 membership was 331 and at 31 January, 1968 is 350 (including 10 whose membership commenced in 1968); there are also 3 affiliated societies. During the intervening period 28 new members were elected, one was reinstated, 7 resigned and 3 died (Dr. S.J. Paramonov, Professor F. Raw and Mr. R.D. Howell). The net increase of 19 members is somewhat disappointing for the period in which issue of the Journal commenced. There are still a fairly large number of Australians whose livelihood is mainly based on entomology to whom it would be reasonable to look for support of a national society without prejudice to their membership of local societies. The canvassing of new members is one way in which every member of our Society can assist its progress.

Regional membership at 31 January 1968 is Queensland : 81; N.S.W.: 71; A.C.T.: 53; Vic.: 57; Tas.: 19; S.A.: 26; W.A.: 15; T.P.N.G. (with N.T.): 15; unallotted (overseas): 13. During 1967, there were 12 receiving concessions as retired members and 6 as student members.

Constitution.

Changes to the Provisional Constitution made during the inaugural period were confirmed by the Council Meeting following the first Annual General Meeting. No further changes have been made. The Definitive Constitution Drafting Committee members have had some correspondence and several points were put to Councillors for consideration and will be brought up for discussion at the Annual Meeting.

Matters referred to the Executive by the first Annual General Meeting. "Exotic Insects and Insect-borne Diseases" as a subject for consideration by the Society. The Executive, after consultation with Dr. D.F. Waterhouse and with the Organising Committee for the second Annual General Meeting, invited the Deputy Directors of Animal and of Plant Quarantine to contribute papers to a half-day session on "Quarantine" at the Annual Meeting; these will be followed by a general discussion.

The Executive has also invited the Quarantine Services to use the News Bulletin as a medium to publicise quarantine matters affecting entomologists. It is hoped that the Society may thus be the means of improving the liaison between entomologists and the quarantine authorities.

News Bulletin.

Thanks to the Bulletin Editor, quarterly issues have continued in the style and standard already established. The variety of information provided depends very much on the extent to which members themselves contribute items and the Bulletin Editor and the Executive look to them for support. Their help is also needed in obtaining advertisements for the Bulletin which will help defray production costs; only one advertisement was obtained during the year. The 4 issues in 1967 cost the Society a total of \$591.19. It is unlikely that these costs could be reduced without reducing the size or the standard of production, and the only means of increasing income for the Bulletin appear to be by increased Society membership and by advertisements. Two additional institutions commenced subscription to the Bulletin and it was decided to send it free of charge to the Royal Entomological Society of London.

First Annual General Meeting.

Fifty-five members and 5 visitors attended the meeting held at Monash University, Melbourne on 15 January 1967. The Society was privileged to have as a visitor and speaker the distinguished Swedish entomologist and zoogeographer, Professor Lars Brundin, who consented at short notice to present a paper on zoogeography.

Surplus funds from Annual Meetings are to be credited to the Society and a surplus of \$53.92 remained after the first meeting.

It was decided that the records to be kept of Annual Meetings will be adequate minutes plus appropriate photographs.

The Society's thanks were conveyed to the Organising Committee and to the late Professor A.J. Marshall for providing accommodation for the meeting.

Second Annual General Meeting.

On the nomination of the N.S.W. Regional Councillor, the following were appointed the Organising Committee: Mr. G. Pasfield (Chairman), Dr. G.J. Shanahan (Secretary), Mr. L.R. Greenup (Assistant Secretary), Dr. E. Shipp, Mr. C.N. Smithers, Mr. A.N. Johnston, Mr. G.J. Snowball, Mr. P.C. Hely, Mr. B.M. Braithwaite, Professor A.F.L. O'Farrell.

A close liaison has been maintained between the Organising Committee and the Executive regarding arrangements. Thanks are due to the University of New England and to Mr. B.J.F. James of the Department of University Extension for considerable help with organisation of this meeting.

As the President is expected to deliver his Address only at the close of his two-year term of office, it was decided that another distinguished entomologist would be invited to address the intervening annual meeting. After consultation with the President and with the Organising Committee, the Executive decided that the address at the second Annual Meeting would be called the W.W. Froggatt Memorial Lecture; the invitation to deliver it was accepted by Mr. P.C. Hely, formerly Chief Entomologist of the N.S.W. Department of Agriculture.

Regional Meetings.

These will be reported on by Regional Councillors; few have been held. On appointment of a Regional Councillor resident in north Queensland, the Entomological Society of Queensland was consulted on the possibility of joint meetings in that area; its Council advised that it would prefer its members to be invited to meetings organised by our Society.

International Congress.

The President conveyed to the Council of the Australian Academy of Science a submission from the Executive requesting that the Academy issue a formal invitation jointly with the Society to the Permanent Committee of International Congress of Entomology in Australia in 1972. No decision is anticipated until the Academy is assured of the Commonwealth Government's financial support for the Congress.

The Academy has definite rules concerning its participation in the organisation of international congresses, and should it accede to the Society's request, and should the invitation be accepted, the Congress Organising Committee would be representative of both the Academy

and the Society. A final decision on the venue of the Congress would rest with this Committee. The probable date would be August 1972.

The Executive is indebted to Dr. J.W. Evans, member of the Permanent Committee for advice concerning international congresses, and to Dr. D.F. Waterhouse and Mr. C.N. Smithers for drafting the lengthy formal submission to the Academy.

Journal.

In February, The Reserve Bank of Australia declined the Society's application for a \$800 grant from the Rural Credits Development Fund towards publication of Vol. 6 and the Index to Vols. 1-5. The Society therefore has the entire responsibility of financing publication of its Journal.

The first issue of J. Aust. ent. Soc. was published on 30 June 1967 as Vol. 6, No. 1 and included 78 pages of text and a separate 20-page insert including a cumulative index of J. ent. Soc. Qd Vols. 1-5; there were 4 pages of advertisements. Vol. 6, No. 2 was published on 31 December 1967 and included 78 pages including the title, table of contents and index, 9 pages listing the Foundation Members of the Society and 3 advertisements.

Cost of Vol. 6, No. 1 (printing, reprints, postage and envelopes) was \$1,740.50; receipts for this issue (subscriptions from members and institutions, sale of reprints and advertising) were \$1,568.50; cost of Vol. 6, No. 2 was \$1,336.44 and receipts \$1,382.50; 750 copies of each issue were printed.

The cumulative index and the list of Foundation Members were exceptional items and expenditure on future volumes should not exceed receipts.

Papers already submitted are more than sufficient to fill Vol. 7, No. 1 and it is clear that the journal could be expanded without detriment to its standards. This could only be contemplated in proportion as income for the journal increases by increase in the number of subscribers (including members) and the number of advertisers, or if a direct grant for publication were available. The number of institutional subscribers in 1967 was 151, an increase of 42 on the number of subscribers taken over from J. ent. Soc. Qd.

Some criticisms have been received concerning the charges set for reprints, coupled with the lack of free reprints. No alteration is possible in the present state of the Society's finances, when approximately 60% of the Journal costs are covered by subscriptions, 30% by sale of reprints and 10% by advertisements.

The Publication Committee decided that short communications could be accepted for publication as Notes in the Journal. With completion of the first Volume, the type of papers to be accepted for the Journal should perhaps be further considered.

Handbooks.

The Society's Handbook No. 1 "The Collection and Preservation of Insects" by K.R. Norris continues to be in demand. Up till 31 January, 924 copies had been sold at a profit of \$363.61, providing valuable financial support for the Society.

Publication of further handbooks depends on suitable manuscripts being available and satisfactory arrangements being made to finance them. The Executive would welcome suggestions as to subjects or offers of manuscripts for consideration.

Collaboration with ANZAAS.

Mr. C.N. Smithers, Dr. R.W. Taylor and Dr. J.A. Thomson were appointed the Society's delegates to the ANZAAS Council meeting in Christchurch in January 1968.

National Science Centre.

Following correspondence with the Secretary of the Ian Clunies Ross Memorial Foundation, the Society was accredited to the National Science Centre, Melbourne. This entails no financial obligation to the Society but allows members to join the Sciences Club and the Society to utilise Clunies Ross House facilities.

List of Australian Entomologists and their Interests.

It was suggested to the Executive that such a list would be useful and might be prepared by the Society. Dr. G.F. Bennett and Mr. K.B.W. Utech have volunteered to help the Hon. Secretary in its preparation.

Matters for future decision.

The third Annual General Meeting will be held in association with ANZAAS in Adelaide in August 1969. In the intervening period decisions of importance to the Society must be made; on the invitation to hold the XIVth International Congress of Entomology in Australia; on the form of the Society's definitive constitution, and on the headquarters of the Society for the following two Annual terms.

Signed:

R.H. Wharton
Hon. Secretary

E.N. Marks
Vice-President
Chairman of Executive

ABSTRACT OF MINUTES OF SECOND ANNUAL GENERAL MEETING HELD AT UNIVERSITY OF
NEW ENGLAND, ARMIDALE, N.S.W. ON 9 FEBRUARY, 1968.

The President, (Prof. M.J.D. White, F.R.S., F.A.A.) and 54 members (N.S.W. 25, Queensland 16, A.C.T. 9, Victoria 3, S.A. 1 and T.P.N.G. 1) and 6 visitors were present. Apologies were received from 5 members.

The deaths of three members were recorded, Dr. S.J. Paramonov, Professor F. Raw and Mr. R.D. Howell.

Minutes of the First Annual General Meeting held in Melbourne on 15 January, 1967 were read and confirmed.

It was announced that (1) the 3rd A.G.M. would be held at Adelaide in conjunction with A.N.Z.A.A.S. in August, 1969; (2) the Executive is to prepare a list of members with their interests and a draft form was circulated at the meeting.

The report by the Executive for the period 1 January, 1967 - 31 January, 1968 was adopted.

In the report by the Editor, it was stated that editorial policy was to accept all papers on any aspect of entomology, provided entomology was the major discipline and that each paper was considered on its merits and was submitted to an independent referee. The Editor also stated that sufficient manuscripts were already in hand to fill the first number of Vol. 7 and that unless Journal size was increased, there would be longer delays in publishing papers. The President stated that Council had discussed the possibility of increasing the size of the Journal, but finance was a problem. Members stressed the importance of maintaining quick publication and various suggestions were made to obtain additional funds including increased reprint charges, and increased subscription to non-members and to members.

It was agreed that efforts be made to have the Journal exhibited at XIIIth International Congress of Entomology at Moscow in August, 1968.

The audited financial statement for the year ended 30th June, 1967 (published in News Bulletin Vol. 3, part 4) was received. Mr. R. Peterson, Tutor-in-Accountancy, University of Queensland was appointed Hon. Auditor in place of Mr. L.N. Livingston to whom the Society expressed its thanks.

Members were informed that Council had decided: (a) that editorial policy would conform with the articles and recommendations of the International Code of Zoological Nomenclature and it in particular would require authors of taxonomic papers to clearly designate a single specimen as the holotype and to deposit types in a museum or institution - authors would also be encouraged to deposit types of Australian species in Australia.

(b) to assist the N.S.W. National Parks and Wild Life Service in preparing a list of insects for inclusion as protected animals under Schedule II of a new N.S.W.

Wildlife Conservation Act.

(c) to consider the possibility of publishing more Handbooks and to request members to submit their views on suitable subjects.

Reports on Society activities were received from the Victorian, T.P.N.G., Queensland, Tasmanian and N.S.W. Regional Councillors. Meetings were held only in Victoria.

Dr. D.F. Waterhouse, who has succeeded Dr. J.W. Evans as the Australian Member of the Permanent Committee of International Congresses of Entomology was appointed as the Society representative at the XIIIth International Congress of Entomology in Moscow. It is hoped that an invitation to hold the XIVth Congress in Australia in August, 1972 will be issued at Moscow. Dr. Waterhouse outlined to the meeting the steps taken so far.

Dr. E.N. Marks moved a vote of thanks to the N.S.W. Organizing Committee and Mr. B.J.F. James of the Department of University Extension, University of New England for the excellent arrangements for the Second A.G.M.

The Officers elected at the First A.G.M. hold office to the Third A.G.M., but Regional Councillors must be appointed at each A.G.M. The Councillors elected were as listed in the front of this Bulletin.

The W.W. Froggatt Memorial Lecture "The Entomology of Citrus in New South Wales" was delivered by Mr. P.C. Hely, formerly Chief Entomologist, Department of Agriculture, N.S.W.

R.H. Wharton,
Secretary.

WHO IS GOING TO THE CONGRESS IN MOSCOW?

The Executive of the Society would like to know how many members intend going to Moscow next August for the 13th International Congress. Could those who intend going please let our Secretary know as soon as possible?

NEW MEMBERS

Elected by Executive on 30.11.67

Dr. P.S. Lake, Department of Zoology, University of Tasmania,
Box 252C, G.P.O., Hobart, 7001, Tasmania.

- Mr. A. Mesa, 8 Palmerston Street, Camberwell, Victoria. 3124.
Mrs. R. Mesa, 8 Palmerston Street, Camberwell, Victoria. 3124.
Mr. D.L. Porter, Flat 3, 352 Albert Road, South Melbourne, Vic. 3205.
Dr. A. Ferreira, Department of Genetics, University of Melbourne,
Parkville, Victoria. 3052.
Mr. G.C. Webb, 47 Fortuna Avenue, North Balwyn, Victoria. 3104.

Elected by Executive on 26.1.68.

- Mr. C.A. Hall, 11 Cogan Place, Lane Cove, 2066, N.S.W.
Mr. B.C. Peters, 6 Strathmore Terrace, Brighton, 5048. S.A.
Miss H. Buchanan, 17 Walker Street, Corinda, 4075. Qld.
Mr. J. Monty, 30 Burns Parade, Chapel Hill, 4068. Qld.

CHANGES OF ADDRESS

(State of previous residence is indicated in brackets)

- Mr. J.B. Williams, Department of Preventive Medicine,
Biology Laboratory, Moggill Farm, Moggill, 4068. Qld. (Vic.)
Dr. F.H.S. Roberts, Unit 6, St. Lucia Lodge,
57 Brisbane Street, St. Lucia, 4067, Qld. (Qld.)
Mr. D.K. McAlpine, Department of Entomology, Imperial
College of Science, Prince Consort Road,
London, S.W.7. (N.S.W.)
Mr. F.E. Parsons, Aldersgate Homes, 160 O.G. Road,
Felixstowe, Payneham, 5870. S.A. (S.A.)
Mr. G.W. Douglas, Keith Turnbull Res. Station, Private
Bag, P.O. Frankston, 3199, Vic. (Vic.)

RESIGNATION

Professor W. Stephenson, Department of Zoology,
University of Queensland, St. Lucia, Qld.

MEETINGS OF THE ENTOMOLOGICAL SOCIETY OF QUEENSLAND

Meetings are held in the Department of Entomology, University of Queensland at 8 p.m. on the second Monday of each Month (except January and February) unless special circumstances necessitate an alteration of date or time. Notes and exhibits, especially from country members, are welcomed and arrangements can be made for this presentation.

The following meetings have been held since October: November (13/11/67):
Mr. T. Paslow on "Some Aspects of Sorghum Midge Biology".

December (11/12/67) was a "Notes and Exhibits" evening at which the following were presented:

- "Khapra Beetle and Australia" by Mr. R.G. Winks
 "Biological Control of Cattle Ticks" by Mr. J.C. Groom (presented
 by Mr. B. Franzmann)
 "The Lucerne Bush Mite" an exhibit by Mr. B. Ingram
 "Scorpion Fly Larvae" an exhibit by Mr. G. Monteith

Some of the collections made by students in the Department of Entomology during the year were also exhibited by Mr. Monteith.

SUGGESTED CLOTHING AND PROTECTION FOR COLLECTORS IN THE TROPICAL RAIN
 FOREST AREAS OF NORTH QUEENSLAND

Having lost one of my collecting friends some years ago due to "Scrub Typhus", the casual dress of most collectors visiting the rain forest areas of North Queensland, causes me grave concern.

The principal hazards to be met with are: the "Stinging Tree", Leeches, Scrub Ticks, Murene and Scrub Typhus and "Scrub Itch". The last three are carried by or caused by "Mites".

"Army Style" dress is the most suitable - heavy boots in good condition, woollen socks, long trousers, long-sleeved shirt and mud gaiters. All should first be well sprayed with a tick and mite repellent - Dibutyl Phthalate. (The house-hold "Flit-Spray" has proved to be the most satisfactory method of applying the repellent to the clothing and into the tops of the boots and down the laces). The trouser legs should be tucked into the socks before adjusting the mud gaiters. The shirt sleeves should be buttoned around the wrists.

When collecting in rain forest areas it is advisable to keep moving as much as possible and never to sit on the ground or on fallen logs or stumps. The observation of the above suggestions should reduce the possibility of contacting various types of vermin.

J.G. Brooks

WINSTON CHURCHILL FELLOWSHIP AWARD

Mr. C.D. (Doug) HOWICK, of the Division of Forest Products, Melbourne has been awarded a 9-month Winston Churchill Fellowship. Doug's project involves an investigation of the incidence, distribution and economic significance of a number of important overseas wood-destroying insects having a potential ability to establish themselves in Australia. Primarily he will be interested in Hylotrupes bajalus and Cryptotermes brevis and will visit institutes and Forest Products Laboratories in New Zealand, U.S.A., England, France, Sweden, Austria

and Germany and will return via South Africa where Hylotrupes is an introduced pest of some economic consequence. Altogether, Doug will be away for about 10 months from early March 1968.

VISITORS TO AUSTRALIA

Mr. C. Ashall, Mr. K. Wardhaugh and Mr. F. Bullen, of the Anti-Locust Research Centre, London, are at present visiting Australia as part of a long-term investigation of the Australian Plague Locust, Chortoicetes terminifera. Mr. Ashall, who is in charge of the Field Section of the Research Centre, will be at the Division of Entomology, CSIRO, for about 6 weeks. Mr. Bullen is working at the Division for a period of about two years on the assessment of locust damage in the field. Mr. Wardhaugh is working at the Trangie Field Station of the Division for a similar period on quantitative studies in locust biology.

VISITORS TO THE TERRITORY OF PAPUA AND NEW GUINEA

Dr. D.L. Lindsey, Biology Division, Oak Ridge, Tennessee, U.S.A. collected Lepidoptera at Port Moresby and Wau for a short time in September, 1967.

Rev. B.B. Lowery, St. Ignatius College, Riverview, N.S.W., and a N.S.W. member of the Society, visited the Territory in October to collect at Port Moresby briefly, then proceeded to Bulolo to collect with Mr. B. Gray, Entomologist, Department of Forests.

Dr. Pierre H.A. Jolivet, arrived in the Territory early in February and proceeded to Goroka Teachers College, under the auspices of UNESCO and the Territory Department of Education. Dr. Jolivet, whose main interest is entomology, hopes to collect Chrysomelidae (chiefly Paropsini) while in the Territory, but he is also interested in the internal parasites of insects.

AUSTRALIANS OVERSEAS

Mr. E.F. Riek, of the Division of Entomology, CSIRO, has just left Australia to spend rather more than a year abroad. He expects to spend about three months in Britain and visit Moscow for the 13th International Congress of Entomology, from August 2 - 9.

Mr. K.M. Doull is spending a sabbatical year at Tucson, Arizona, working in the U.S.D.A. bee research laboratories.

Professor T.O. Browning will spend four months at the University of Paris in the laboratory of Professor G. Cousin. He will go to Moscow for the XIIIth International Entomological Congress. He will then spend four months at the

University of Kyoto in Japan working in the laboratories of Professors S. Utida and S. Ishii.

APPOINTMENTS

Mr. L.W. Miller, formerly Chief Entomologist in the Department of Agriculture, Tasmania, has been appointed Deputy Director of Agriculture.

Mr. E.J. Martyn has succeeded Mr. Miller as Chief Entomologist in the Department of Agriculture.

Miss S. Curtis of the Department of Entomology, University of Queensland, has joined the Division of Entomology, CSIRO, Canberra, to work as a taxonomic illustrator with Mr. E.F. Riek.

Mr. Perry Gunner, who graduated in Agricultural Science from the University of Adelaide at the end of 1967, has joined the staff of the S.A. Department of Agriculture as an Entomologist.

RECENT STAFF CHANGES, DEPARTMENT OF AGRICULTURE STOCK AND FISHERIES, T.P.N.G.

Miss Rhonda Stevens, Konedobu, resigned early in November, 1967 and proceeded to Australia. Whilst with the Department, Miss Stevens worked on the reference collection at Konedobu and carried out insect field surveys in the Wau coffee growing area, the Southern Highlands tea growing areas and at the project New Britain oil palm area. Miss Stevens was also responsible for the work resulting in the successful introduction into the Territory of Microlarinus lypriformis (Woll.), the puncture vine weevil, from Hawaii.

Dr. E. Hassan, joined the Department early in December 1967 and was initially posted to Keravat, New Britain. He has now been posted to Popondetta, Northern District, to work on various aspects of the cacao weevil Pantorhytes szentivanyi Marsh.

NEW POST-GRADUATE STUDENTS IN ENTOMOLOGY AT THE WAITE AGRICULTURAL RESEARCH INSTITUTE

Miss K.A. Britten - a Commonwealth scholar who graduated from New England University.

Mr. B. Doube - graduated in Zoology from University of Adelaide.

C O R R E C T I O N

See News Bulletin Volume 3, Part 4, page 75. For "Anystis baccarum Halotydeus destructor" read: "Anystis sp. and Neomolgus capillatus (predatory mites) against Sminthurus viridis, Halotydeus destructor and Penthaleus major."

REQUEST FOR RESEARCH MATERIAL

Dr. I. Iansbury of the Hope Department of Entomology, University Museum, Oxford, who has been working on the Australasian water-bugs (Hemiptera-Heteroptera) for several years, wishes to obtain further material for a zoogeographic study of the Australasian region generally. He asks that any private individuals who would be willing to provide material to contact him.

He also states "Types and a large percentage of material named would of course be deposited in the Museum(s) Institution(s) and collections nominated by the donor. Groups which are being worked on at present include the Corixidae, Notonectidae, Nepidae and Gerridae. Material is urgently required from all regions especially Tasmania".

PERSONAL NOTES

Miss J. Cardale has been awarded the degree of M.Sc from the University of Queensland.

Mr. G.O. Bedford has been awarded the degree of M.Sc from the University of Sydney. He is working for the next two years in New Guinea on the Rhinoceros Beetle, Oryctes rhinoceros.

1871-1872

See Howe, William, 1871-1940, for 1871-1872.
1871-1872 Howe, William, 1871-1940, for 1871-1872.
1871-1872 Howe, William, 1871-1940, for 1871-1872.

1873-1874

W. I. Howe, 1873-1874, for 1873-1874.
Howe, William, 1871-1940, for 1873-1874.
Howe, William, 1871-1940, for 1873-1874.
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1875-1876

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