

# THE WEED SOCIETY / OF NEW SOUTH WALES

P.O. Box K287, Haymarket, N.S.W., 2000

PRESIDENT Dr. L. B. Lowe

HON. SECRETARY Mr. W.J. Burke

January, 1978

**NEWSLETTER** No. 1/78  
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## 12th ANNUAL GENERAL MEETING

The 12th Annual General Meeting of the Society will be held in Room N208, Woolley Building, Manning Road, University of Sydney, on Tuesday 28th February, 1978, at 4.30p.m. This is the same venue as the 1976 and 1977 meetings and refreshments will be available afterwards at the University Staff Club if desired.

### AGENDA

1. Apologies.
2. Minutes of the 11th Annual General Meeting.
3. Business arising therefrom.
4. Annual Report.
5. Business arising therefrom.
6. Financial Statement.
7. Proceedings of the Society.
8. 1979 Asian Pacific Weed Society Conference.
9. Notice of Motion (see below).
10. Election of Office Bearers.
11. Presidential address.
12. Other Business.

Please try and attend this meeting as two controversial matters will be discussed.

#### Important matters for discussion:

1. Mr. A. Mears has given notice that he will submit a motion to increase subscriptions to \$12.00 for ordinary members and \$25.00 for corporate members.
2. Mr. M. Hood has suggested that two country members should be on the executive and that their fares to meetings should be paid for by the Society. Hence the increase in fees above.

### 1977 ANNUAL DINNER

The 1977 Annual Dinner held at the Royal Paddington Hotel at Five Ways, Paddington was attended by over 40 members and their wives. The French decore and menu was especially interesting and contributed to a very enjoyable evening. Barry Lowe and Alec McLennan are to be congratulated for organising such a successful evening.



NEW MEMBERS

The following people have recently been admitted as members of the Society:

Greg Fraser, I.C.I.(Aust.) Ltd.

Ed. Eagleston, Weeds Officer, Molong.

J. English, Moundedison.

C. Ozinga, National Parks and Wildlife Service, Sydney.

W.N. Barlow, Cowra.

R. Harris, Coonamble.

A warm welcome is extended to these new members and your active participation in the Society is requested. If you have any suggestions please contact the Secretary.

COMING EVENTS IN WEED SCIENCE

12-14th April, 1978 - "New Advances in Weed Control" - the first conference sponsored by the Council of Australian Weed Science Societies will be held at the National Science Centre, 191 Royal Parade, Parkville, Victoria. The Organising Committee is also planning to run a one day workshop on Wild Oats and Wimmera Ryegrass on Tuesday 11th April, the day before the conference commences.

Further enquiries:

Dr. T.W. Donaldson,  
Secretary,  
Organising Committee,  
P.O. Box 48,  
FRANKSTON. VIC. 3199

1979 Asian-Pacific Weed Society Conference

The local organising Committee for this conference consists of:

Mr. A. Mears (Chairman)  
Dr. P. Michael  
Mr. A. McLennan  
Dr. L.B. Lowe  
Mr. M. Barrett  
Mr. K. Green

The Conference will be held from 26-30th November, 1979, at the Hilton Hotel, Sydney. A week-long field excursion will take place either immediately before or after the Conference and a one day excursion on Wednesday, 28th November.

Dr. P. Michael (the Programme Chairman) would like to receive suggestions for the programme so please contact him if you have any ideas about what form or what sessions should be included.

Note: Dr. Michael will be away on sabbatical leave in North America until May, 1978 so please contact Alan Mears if you have any queries while Dr. Michael is away.

The first circular and call for papers will be issued in early February 1978, so be thinking about what your paper for the Conference will be about.

1980 - An International Symposium on Biological Control of Weeds will be held in Brisbane 1980. The symposium is being sponsored by the C.S.I.R.O. and Queensland Department of Lands. Further information will be supplied as more details come to hand.

#### BOOKS AND PUBLICATIONS OF INTEREST

"Integrated Control of Weeds", edited by J.P. Fryer and S. Matsunaka. Available from University of Tokyo Press for approximately \$20.00.

This publication includes the proceedings of a one day symposium on integrated weed control that took place during the 5th Asian Pacific Weed Science Society Conference (Tokyo 1975). Topics such as weed control in rice, upland crops, tropical plantations, pastures and aquatic areas are covered. Also sections on biological control, environmental problems and economics are included.

Note: The increasing importance of Biocontrol as a means of weed control is stressed in a recent Newsletter from International Plant Protection Centre, Oregon State University.

#### DEFINITION OF BIOCONTROL OF WEEDS

Control or suppression of weeds by the action of one or more organisms (such as phytopathogens, insects, nematodes, fish or other animals) accomplished naturally or by manipulation of the weed, organism or environment.

The Newsletter lists several organisations where further details can be obtained about recent experiments in biological control. These include:

U.S. Army Engineer Waterways Experiment Station,  
P.O. Box 631,  
VICKSBURG. MS 39180 U.S.A.

Department of Biological Control,  
University of California,  
RIVERSIDE. CA 92502 U.S.A.

Biological Control of Weeds Laboratory,  
USDA-ARS,  
1050 San Pablo Ave.,  
ALBANY. CA 94706 U.S.A.

"Weeds Today",  
7101 York Avenue South,  
MINNEAPOLIS. MN 55435 U.S.A.

Commonwealth Institute of Bio.  
Control,  
P.O. Box 8,  
RAWALPINDI. PAKISTAN

Aquatic Plant Management Lab.,  
USDA-ARS,  
3205 S.W. 70th Ave.,  
FORT LAUDERDALE. FL 33314 U.S.A.

Commonwealth Institute of Biol.  
Control,  
West Indian Station,  
Gordon Street, Curepe,  
TRINIDAD. W.I.

"Recommendations for Weed Control", 2nd Edition, 1977, published by the Victorian Weed Science Society of now available for sale. \$10.00 per copy. Available from:

"Recommendation Book"  
Weed Science Society of Victoria,  
Clunies Ross House,  
191 Royal Parade,  
PARKVILLE. VIC. 3052

"Recommendations for Weed Control", published by the Weed Science Society of Victoria, is now available in a completely revised metricated second edition.

The first edition was widely used for reference and recommendation by people engaged in and associated with controlling weeds and advising on control methods.

This publication is unique and most authoritative. It gathers together recommendations by State Departments of Agriculture throughout Australia, the Vermin and Noxious Weeds Destruction Board and from labels registered by chemical Companies.

Requests for the new edition can be made by ordering from the address given below.

Weed control recommendations are given in a tabular form. Weeds controlled in various situations are listed with product, rate, crop and weed stage, special notes and relevant authorities.

In 180 pages, the book covers over 300 weeds, 40 crops, and more than 200 brands of herbicides which represent the products of 40 Companies.

Other specific topics include methods of applying herbicides, calibration of boom sprays, tolerance of cereal crops to herbicides and weed control in field crops, vegetables, vineyards, orchards, pastures, lawns, turn and ornamentals. It also covers short and long term total vegetation control, soil fumigation, tree and brush control and aquatic weed control.

Conversion tables list metric units with the old Imperial equivalents and useful approximations. Common and chemical names of herbicides are provided, plus indices of trade names and specific weeds.

#### International Weed Science Society (IWSS)

Mr. L.J. Matthews, President, took office at the APWSS Conference in Jakarta, July 1977. IWSS has now over 400 members, 13 affiliated societies, 4 substaining members and 7 associate members, the Weed Society of New South Wales is an affiliated society.

#### 1978 PROGRAMME

The following functions are planned for 1978:

- April - talks by Dr. C. Switzer, Dean, Ontario Agricultural College and Professor Nalewaja, North Dakota State University. Both these people will be attending the Weed Conference in Melbourne in April and they will be in Sydney on their way back from these meetings.
- talk by John Toth on his work for the New South Wales Department of Agriculture.
  - symposium at Orange organised by Mike Hood (details yet to be determined).

Extract from Weed Science Society of Victoria Newsletter No. 5, October 1977:

#### Report on Wimmera Cereal Crop Tour - September 1977

##### Herbicide Trials, Longerenong

Wimmera ryegrass is a major target for weed control in Wimmera soils. David Waterhouse and Greg Wells discussed trials where trifluralin, diallate and tri-  
allate were tested individually and in mixtures. On the friable Wimmera soils

pre-sowing application of trifluralin can cause some crop thinning where sowing depth is less than 7cm; where this depth cannot be achieved post-sowing application is safer. However, crops usually make compensatory growth. In 1977 a time of trifluralin application study has been established with pre-sowing treatments ranging through 8,6,4 and 2 weeks to day of sowing and with a post-sowing treatment. So far it appears all times of application have been equally safe, but observation of wheel track effects in commercial crops suggest farmers should spray earlier. No loss of weed control efficiency has been observed from early spraying. All crop tolerance work with herbicides is done on Olympic as it is regarded as the most sensitive cultivar.

A small trial to examine crop safety of some tank mixes or post-emergence herbicides indicates some phytotoxicity problems particularly when Hoegrass and Igran are mixed.

The interaction of crop and ryegrass populations is being examined. Wheat sowing treatments at 9 and 18cm spacing, and at 75 and 150kg rates; are being compared with and without ryegrass competition. With late crop plantings, where plants cannot tiller as extensively, it is possible that higher seeding rates may be justified, whereas lower density early sowing can tiller and compensate.

Weed competition work at Horsham has concentrated on the broadleaf species and yield loss curves have been fitted from which economic spraying density can be calculated. The effects of ryegrass density on crop losses were first measured at Horsham in 1976 trials to compare with four year's work at Rutherglen. The yield loss curves for these two locations are fairly similar. Using Mr. Tim Reeves formula an approximate estimate of yield loss can be obtained from the equation.

$$\sqrt{\text{ryegrass plants per m}^2} \times 1.5 = \% \text{ yield loss to be expected}$$

A lupin herbicide trial showed the local standard treatment of 700ml trifluralin plus 1.7 l of simazine 50% flowable incorporated pre-sowing gave good weed control on black soils. It appears pre-sowing application and incorporation of simazine improves its efficacy particularly in dry conditions.