

THE WEED SOCIETY / OF NEW SOUTH WALES

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

PRESIDENT Mr. M.W. Barrett

HON. SECRETARY Mr. W.J. Burke

JUNE, 1976

NEWSLETTER 4/76
Price - 10 cents

NOTICE OF MEETING

The Society has arranged the following meeting:

- WHERE: Department of Agronomy and Horticulture.
Room N 208 (same as 1976 Annual General Meeting)
Woolley Building,
University of Sydney.
- WHEN: Thursday, 15th July
4.00 p.m.
- WHO: Speakers will be:
Dr. B.A. Auld - N.S.W. Department of Agriculture, Orange.
"Highlights of an Overseas Study Tour"
Mr. R.W. Medd - N.S.W. Department of Agriculture, Orange
"Roadside Vegetation Control"
- DINNER: Dinner will be available at the University Staff Club following the meeting (expected to conclude approximately 5.30 p.m.). Members and their friends are cordially invited to attend.
- R.S.V.P.: July 12th - A.D. Mears, 20661 extension 280

NEWSLETTER COMMITTEE

The Executive Committee of the Weed Society have established a Newsletter Sub-Committee to extend and expand the present Newsletters. The Committee consists of:

Dr. L.W. Smith Chairman and Editor
Dr. B. Lowe
Mr. J. Strang

In this issue of the Newsletter we are suggesting a format and asking you to comment and also to let us know what you would like to see in the Newsletter.

We believe that the Newsletter, which is the only form of contact with many members, should carry information of immediate interest to members, keep members informed of latest developments within the Society as well as other Societies etc., and to act as a voice for members.

Listed below are some headings or topics which have been suggested as being suitable for conveying information to you. Your comments are needed.

1. Short Editorial Section - (topical problems or other areas).
2. Coming Events and Notices of Meetings - (even outside Weed Societies).
3. Short Notes - (recent developments in Weeds or Weed Control practices etc.).
4. Books and Publications of Interest
5. Recent Registrations of chemicals in N.S.W.
6. Who's who in Weed Science - (world and Australian basis).
7. Letters to the Editor.
8. Abstracts of recent journal articles or summaries of talks, seminars, etc.
9. Personal column (items of interest about members' recent activities or movements) - new members.
10. Question and Answer Section (i.e. Weed Doctor)(Answers to queries about weeds and control methods).
11. Reports on other Meetings - (Weed Societies of Victoria, Queensland, South Australia etc.).
12. Summary of Executive Meetings.
13. A list of members and their activities and how to contact them (published over the year).

It is intended to issue the Newsletter on at least a quarterly basis in February, May, August and November each year (special ones may be issued from time to time to advise of events etc., not covered in the main Newsletter and occurring before the next issue).

To conform to postal regulations and to get the most economical postage rates, the Newsletter will need to be restricted to 5 or 6 double sided pages or 8 single pages.

Please let us know what you want. A Newsletter can be of invaluable assistance to members. Comments should be sent to:

Dr. Leon W. Smith,
Department of Plant Sciences,
Hawkesbury Agricultural College,
RICHMOND. N.S.W. 2753

COMING EVENTS

The 6th Asian-Pacific Weed Science Society Conference (APWSS) will be held in Jakarta, Indonesia from July 11th to 17th, 1977.

Contact Dr. Peter Michael (692-1122 extension 3214), University of Sydney for further information. More details will be published in the next Newsletter.

The Weed Society of N.S.W. - Hawkesbury Agricultural College, Weed Science Prize, 1975

The Executive, at its May meeting, confirmed the awarding of the above prize to:

Miss Gwen J. Ellis.
Collingwood
via MUDGE

Miss Ellis was awarded the prize of \$20.00 for her project entitled "Ecological Studies on the Germination of Bathurst Burr and Johnson Grass Seed".

A summary of this project will appear in the next issue of the Newsletter.

WHO'S WHO IN WEED SCIENCE

Bill Haseler - President of the Council of Australian Weed Science Societies (CAWSS). Bill, in his professional capacity, is Director of The Allan Fletcher Research Station, Department of Lands, Queensland.

He graduated M.Sc., in entomology from the University of Queensland and his main field of interest is biological control of weeds, particularly research in rangeland situations, and noxious weed legislation.

SHORT NOTES

1. Allan Mears and Ken Watson will be meeting Bill Haseler and John Swarbrick at Sydney Airport for discussions on CAWSS in early July.
2. The 13th AWC meeting is to be held in Hobart in early July. Aspects of this meeting will be reported in the next issue.
3. 1976 Herbicide Spraying Guide No. 1 for Winter Cereals is now available at departmental offices.

4. Kelvin Green reports the first record of rust (Puccinia oxalidis) on Oxalis latifolia, O. corymbosa. There is no danger to crops. Affected Oxalis plants should be forwarded to Mr. J. Walker, Senior Biologist, B. & C.R.I. Rydalmere.
5. The Department of Technical and Further Education is experiencing problems with art work and printing for the new weed control practices course, which is now expected to commence early 1977.
6. The publication "Weed Talk" will in future be a biennial one according to State Rivers and Water Supplies Commission, 590 Orrong Road, Armadale, Victoria, 3143.
7. Charles Lamp's book "Weeds of Australia" in Inkarta Press (price not known) to be released early July, 1976.

BOOKS AND PUBLICATIONS OF INTEREST

"Weeds Today" - a popular type journal published for the Weed Science Society of America by Weeds Today Inc.,
7101 York Ave. S.,
MINNEAPOLIS.
Mn. 55435
U.S.A.

Subscription rates: \$10 U.S. per year

Contains feature articles by leading U.S. weed scientists plus articles on new herbicides and special weeds etc.

Ware, George W. Pesticides - An Auto Tutorial Approach
(1975, Freeman & Co., San Francisco)

A comprehensive review of modern pesticides - basic chemistry, formulations, insecticides, herbicides, fungicides and bactericides, nematocides, rodenticides, plant growth regulations and defollients - in a clearly presented self-instruction format.

Price: \$7 (approximately)

Crafts, A.S. Modern Weed Control
(1975 U. of Cal. Press, Berkeley)

Author: Professor of Botany, U. of Cal., Davis;
former president of the Weed Science Society of America.

A revision of Weed Control by Crafts & Robbins (1962) - biological and chemical weed control discussed in depth. Included are chapters dealing with particular weed control situations, field crops, vegetables, horticulture, forests, irrigation and industrial sites.

Price: about \$18.00

PERSONAL COLUMN AND NEW MEMBERS

Katrina Slack (Zimmerman) is now married and stationed at Yanco -
Congratulations, Katrina.

A correction under New Members in the last Newsletter:

Robert Plumbe - is with Lane Ltd., and is Product Manager
(Herbicides) involved with marketing not registration.

Derek Browne has been appointed Field Officer (Weeds) Tamworth following
Errol Chaffey's retirement. His main interests include noxious weeds
and community activities such as S.E.S.

ABSTRACTS

*Ref: Weed Science, Journal of the Weed Science Society of America
Volume 24, Issue 1 (January), 1976*

BIOLOGICAL CONTROL

Dispersal of *Rhinocyllus conicus* for Biocontrol of Musk Thistle
J.M. Hodgson and N.E. Rees

A weevil (*Rhinocyllus conicus*) host specific to *Carduus*, *Cirsium*, *Silybum*,
and *Onopordum*, was introduced into Gallatin County, Montana, for biocontrol
of musk thistle (*Carduus nutans* L.). Releases were made in 1969, 1971,
1972, and 1973 on local musk thistle infestations. The insects became
established and overwintered successfully. In 1974, *R. conicus* was found
over a 1,280-km area of the county in seed heads of musk thistle. Weevil
larvae severely infected the primary flowers, but only a few secondary
and later flowers were attacked. Seed production from infected primary
flowers was greatly reduced, and other factors influenced reduction of seeds
from secondary and later flowers.

POTATO

Differential Response of Potato Cultivars to Metribuzin
G.T. Graf and A.G. Ogg, Jr.

In greenhouse studies, 11 cultivars of potato (*Solanum tuberosum* L.)
responded differently to foliar applications of metribuzin at rates of
0.14 to 1.12 kg/ha. The first symptoms of metribuzin injury varied
among cultivars. When measured 14 days after treatment, the dry weight
was reduced more than the height or the vigor. Height was least affected.

Plant vigor and dry weight of all of the cultivars were reduced
significantly by metribuzin applied at 1.12 kg/ha.

RICE

Performance of Carbon-Coated Rice Seed on Flooded Soil
D. Nangju, D.L. Plucknett and S.R. Obien

Pelleting rice seeds with activated carbon was developed as a means of overcoming herbicide phytotoxicity to direct-seeded, flooded rice. Field and greenhouse experiments showed that pregerminated rice seeds coated three times with activated carbon with 50% polyvinyl acetate as an adhesive, were adequately protected from the injurious effects of chloramben butachlor and oxadiazon. The performance of carbon-coated rice seeds in flooded soil, however, was dependent on time of flooding, method and rate of sowing, rate and time of herbicide application, and quality of activated carbon.

*Ref: Weed Science Journal of the Weed Science Society of America
Volume 24, Issue 2 (March), 1976*

TOMATO

Differential Tolerance of Tomato Cultivars to Metribuzin
G.R. Stephenson, J.E. McLeod and S.C. Phatak

Seedlings of fifteen different cultivars of tomato (*Lycopersicon esculentum*) varied greatly in tolerance to metribuzin applied at a concentration of 0.5 mg/L in quartz sand nutrient culture during the three-true-leaf stage. Tolerance increased with seedling age, but acceptable tolerance was observed about 6 days earlier in the tolerant 'Fireball' compared to the susceptible 'Heinz 1706'. Differential tolerance was related to the rate of detoxification by metabolism within the tomato leaves, which was approximately two-fold greater in the tolerant Fireball seedlings.

TURF

Germination of Seeds of Turfgrasses as Affected by Glyphosate and Paraquat
Dayton L. Klingman and J.J. Murray

Effects of glyphosate and paraquat on turfgrass seed germination were evaluated in the greenhouse. Glyphosate caused little effect on germination of Kentucky bluegrass, red fescue and tall fescue when applied to the soil immediately before seeding or when applied directly over the seed on the soil surface. Paraquat sprayed directly over the seed on the soil surface prevented germination of most of the seeds of the three grass species.

FUTURE PROGRAMME - 1976

The Executive Committee are working on the following ideas for the programme of meetings in 1976

- A Symposium on Equipment and Application Techniques at Dubbo in November
- A meeting dealing with minimum tillage
- Potential of Remote Sensing for Weed Control and other Agricultural Practices
- An Annual Dinner in early December

"AND WHAT IS A WEED? A PLANT WHOSE VIRTUES
HAVE NOT YET BEEN DISCOVERED".

Ralph Waldo Emerson

(1803-1882) Fortunes of the Republic