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# THE WEED SOCIETY OF NEW SOUTH WALES NEWSLETTER

November 1987

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President: *Mr. W.L. Felton*

Hon. Secretary: *Mr. M.J. Hood*      Treasurer: *Mr. G.A. Jacobs*

Ed. Newsletter: *Dr. R.J. Martin and Mr. M.G. McMillan*

Newsletter No: 4/87

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## STUDY GRANT

Applications for funds are again invited from residents of New South Wales for the Weed Society Travel Study Grant.

The purpose of this grant is to assist members of the Society or other applicants from N.S.W. with travel to attend conferences, seminars or study tours connected with Weed Science.

Applications for the period ending **February 1989** will be considered.

The applicant is required to use the official application form which is available from the Secretary, Mike Hood (063) 624 539, and to nominate two referees. Completed applications should be forwarded direct to the Secretary, New South Wales Weed Society, P.O. Box K287, Haymarket, N.S.W. 2000. The closing date for application is **29th February, 1988**.

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## EDITORS' NOTE

### CONTRIBUTIONS TO THE NEWSLETTER

Members please note - we need more technical material for the newsletter. Reports on the following are welcome;

research in progress, preliminary findings,  
new techniques, methodology,  
field days,  
conferences/workshops.

Please send contributions or suggestions to The Editors, Weed Society of New South Wales, P.O. Box K237, Haymarket N.S.W. 2000.

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# TREASURER'S REPORT

## STATEMENT OF CASH FLOW AS AT OCTOBER 29TH 1987 - Geoff Jacobs

Cash in cheque account 30th January 1987 -		\$1,702.62	
<b>INCOME</b>		<b>EXPENDITURE</b>	
Interest	25.57	Tax	1.85
Subscriptions	1495.00	Australia Post Private Box	48.00
Cash	617.56	Expenses, R. Cousens & R. Hooley (Guest Speakers)	483.22
Commonwealth Interest	265.50	Envelopes	404.60 *
Weed Control in S.A.	40.00	Sydney Uni. Weed Society Prize	50.00
Proceedings of Pesticide School	160.00	AGM luncheon	46.10
A. Mears (refund)	100.00	Sydney Uni. Proc. for Pesticide School	1,618.13
		Newsletter	40.00
		Postage	163.24
		Stamp	15.80
		A. Mears, IWSS Inquiry expenses	200.00
Expenditure in excess of income	627.31	Expenses, R. Cousens	260.00
	<u>3,330.94</u>		<u>3,330.94</u>
Balance of account			1,702.62
Less			627.31
Balance at October 29th 1987			<u>1,075.31</u>

## STATEMENT OF ASSETS AS AT OCTOBER 29TH 1987 - Geoff Jacobs

Australian Savings Bond, Series 22	14.75%	3,600.00
Advance Bank Step Ahead Acc.	11.00%	2,839.49
Advance Bank Term Deposit	13.75%	13,000.00
ANZ Cheque Account		1,075.31
		<u>\$20,514.80</u>

## SUMMARY STATEMENT OF PESTICIDES SCHOOL - OCT 29, 1987 - Geoff Jacobs

### INCOME

Councils:	25 with	36 representatives	-	1,730.00
Industry:	15 companies	32	-	1,450.00
Educational:	7 institutions	33	-	1,570.00
Consultant/ Retailers:	25 firms	31	-	1,460.00
Government:	18 departments	52	-	2,420.00
Individuals:		4	-	180.00
Additional proceedings			-	160.00
Totals		<u>188</u>		<u>\$8,970.00</u>

## EXPENDITURE AS AT OCTOBER 29, 1987.

Dr. K.J. Howard, expenses	-	300.00
The Land	-	263.20
Macquarie University Union (meals)	-	362.64
Agrisearch expenses	-	641.00
Taxi fares (D. Mathews) - Cash (Receipt E5)	-	90.00
Morning and afternoon teas - Cash (Rec. E4)	-	60.00
University of Sydney - Printing of Proceedings	-	1,615.13
Total		<u>43,334.97</u>
Balance as at October 29, 1987	-	<u>45,635.03</u>



## THE FUTURE ROLE OF CAWSS

### DISCUSSION PAPER ON THE FUTURE ROLE OF THE COUNCIL OF AUSTRALIAN WEED SCIENCE SOCIETIES (CAWSS) - Leon W. Smith, President

#### Purpose of this Paper

The main purpose of this paper is to review the role and purpose of CAWSS in its first 10 years and to promote discussion on its role and activities in the future.

With time, agriculture changes, the weed problems change, institutional attitudes change and the personnel involved change. The role of CAWSS and State Societies must change if they are to be effective and meet the needs of the Societies and their members.

#### Introduction

The Council of Australian Weed Science Societies (CAWSS) is a national body with a membership of five autonomous State Societies. Currently there are State Societies in Western Australia, South Australia, Victoria, New South Wales and Queensland.

The basic work for the founding of CAWSS occurred at the 5th Australian Weeds Conference in Melbourne in 1975. However, the actual foundation of CAWSS occurred in 1976 when the five State Societies ratified a constitution. Several attempts to form a National body had occurred prior to this time but were unsuccessful. Nelson Johnston (1982) has reviewed Australian weed science and the development of the Weed Societies and his articles should be consulted for more details on the history of weed science and Weed Science Societies in Australia.

Meetings of the Council (2 delegates per State Society) have been held annually since 1976 and these are usually associated with meetings of the Australian Weeds Committee. Also meetings are always held at Australian Weeds Conferences.

#### The object of CAWSS is outlined in Article II of the Constitution and states:

"The object of the Council is to encourage and foster the study and promotion of weed science in Australia and in particular to -

- (i) provide for member organisations (State Weed Societies) a representative voice both within and outside Australia on matters pertaining to weeds and weed science.
- (ii) assist in the coordination of the activities of member organisations.

- (iii) encourage a wider interest in weed science by promoting the investigation of all aspects of weeds and their control.
- (iv) encourage the formation of Weed Science Societies within those areas of Australia where they do not exist.
- (v) encourage educational organisations, particularly at tertiary level, to provide adequate training in weed science.
- (vi) encourage continuing training for weed scientists and other people involved in weed work.

**During the past 10 years the main activities of CAWSS have been:**

1. To organise Australian Weeds Conferences. This role was taken over from CSIRO and the Australian Weeds Coordination Committee who had convened national conferences on weeds from the first one in 1954 to the fifth in 1975.

CAWSS organised their first Weeds Conference in Melbourne in 1978 and have since convened the 6th and 7th Australian Weeds Conference in 1981 and 1984 at Broadbeach, Queensland and Perth, Western Australia respectively.

The 8th Australian Weeds Conference was organised by the Weed Society of New South Wales in September 1987 and the 9th Conference is planned to be held in Adelaide in 1990 organised by the Weed Science Society of South Australia.

The practice followed has been that one of the State Weed Societies organises the Conferences on behalf of CAWSS and these are rotated among the five member State Societies (N.S.W., Vic., Qld., W.A. and S.A.).

2. The sponsoring of CAWSS Orations or special talks by prominent weed scientists. The first Oration was given by Dr. S. Everist at the 7th Asian-Pacific Weed Science Society Conference in Sydney in 1979.

Other CAWSS Orations have been given by:

Mr. Nelson Johnston, September 1981, Broadbeach  
 Dr. R. J. Hance, October 1982, Melbourne  
 Dr. R. Cousens, February 1987, Melbourne  
 Dr. W. Parsons, September 1987, Sydney

3. The awarding of special medals known as "The Australian Weed Societies Medal" for outstanding achievements in weed science over the past decade. The first awards were made at the 7th Australian Weeds Conference in Perth in 1984 when the following people received medals:

Mr. A. N. Johnston, N.S.W.  
 Mr. W. Haseler, Qld.  
 Mr. A. Mears, N.S.W.  
 Dr. W. T. Parsons, Vic.  
 Dr. J. T. Swarbrick, Qld.

Mr. G. Pearce from Western Australia was awarded a medal in March 1987. It is expected that further medals will be awarded at the 8th Australian Weeds Conference in Sydney in 1987.

4. Supporting publication of the Journal "Australian Weeds". Financial support was provided by CAWSS for the publication of this journal for its three years of operation (3 volumes, 12 issues). Unfortunately this venture was not a financial success for the publisher when it involved a journal only about weeds and another journal of wider interest "Plant Protection Quarterly" has superseded "Australian Weeds". This new journal is not financially supported by CAWSS but members of State Weed Science Societies have been urged by CAWSS to support the new journal by contributing papers and taking out subscriptions.

5. Other matters considered by CAWSS have been of a relatively minor nature, such as, several amendments have been made to the Constitution and By-Laws over the past 10 years and consideration given to issues such as transfer of members between States and the protocol for biological control of weeds.

### **Discussion**

Clearly in its first 10 years CAWSS has been only partially successful in fulfilling the objectives of the Council but there appears to be no reason to change the original object of CAWSS as stated in the Constitution.

However, there is overlap in the role of CAWSS and the activities of the State Societies. I believe the strength of CAWSS lies in strong, active State Societies which we have at present and no lessening of their role should occur.

With emphasis on the State Societies, CAWSS has tended to stay clear of activities which might conflict and this has reduced its effectiveness. A clear definition of the roles of CAWSS and the State bodies is needed so that conflict between the two is avoided and a more effective national body (CAWSS) results.

The main activities of CAWSS outlined in the introduction appear to be clearly defined roles for CAWSS.

The organising of the Australian Weeds Conferences is of national importance and clearly a major activity for CAWSS. At present the holding of the Conferences occurs every three years and the fact that State Societies organise them on a rotational basis on behalf of CAWSS, would seem appropriate. There may be a need to hold National Weed Conferences more often on a two year basis and this issue needs to be addressed.

The "Australian Weed Societies Medal" awards are of obvious national significance and appropriate as a role of CAWSS. Until this year they have only been awarded at Australian Weeds Conferences i.e. every three years. The question arises why not make annual awards when publicity about weed science CAWSS and its activities can be made on a more regular basis. If we want to highlight weed science then more publicity on a regular basis is needed and giving of awards on an annual basis could be one of a number of ways of bringing weed science more to the public's attention. (At the recent Bendigo meeting of CAWSS it was agreed to award medals outside Australian Weeds Conference meetings. Mr. Geoff Pearce of the Weed Society of Western Australia was awarded the "Australian Weed Societies Medal" in Perth in March (1987).)

The CAWSS Orations are worthwhile but I believe they have not been exploited enough in the past. It could be questioned whether these Orations are performing their original aim or whether they should be held on a more regular basis. Unfortunately distances between the five Societies are great and it is not possible to have the same person deliver an Oration in every capital city where the Societies are situated. However, it should be possible to have at least one CAWSS Oration each year in one of the States with the meeting publicised and possibly open to the public. One suggestion of merit is that an overseas expert should be brought in every year by CAWSS and expenses for the visit be shared by CAWSS, the five societies and other groups as appropriate.

Also we should be encouraging our younger developing weed scientists to give CAWSS Orations.

Special guests from overseas should of course be utilised wherever possible but how do all Societies benefit. A copy of the Oration should be published or a summary appear in the State newsletters. One or more CAWSS Orations each year would again help to publicise CAWSS and strengthen its role.

With the demise of "Australian Weeds" it could be said that there is a gap in the publication and communication aspects for Australian Weed Scientists. However, there are a number of publications, newsletters etc. being circulated on weeds and their control. These include the Australian Weeds Research Newsletter, the newsletters from the State Societies, other newsletters such as "The Weeder's Digest" from various State authorities, chemical company publications and as well there are numerous

journals such as "Plant Protection Quarterly" which publish scientific articles on weeds.

Is there room for another newsletter, publication from CAWSS? CAWSS has been attempting to answer this question for over two years now with little resolution. I feel there are enough publications on weeds and herbicides around now and it's a bit late to start a new one at this time. Farmer and grower members of Weed Societies may not be adequately catered for and it would be good to have more profiles of Weed Society members, but this can be taken up by Editors of State newsletters.

Another suggestion has been that CAWSS should take over responsibility for publication of the Australian Weeds Research Newsletter. This issue was raised at the Australian Weeds Committee (AWC) meeting in 1983 and it was decided that the AWRN should be maintained as a separate entity oversighted by AWC.

There have been many suggestions for future activities which CAWSS should be involved in and these include the following:-

1. CAWSS should have more contact with weed science bodies outside Australia.

CAWSS is already affiliated (membership) with the IWSS (International Weed Science Society) and EWRS (European Weed Research Society), but little benefit seems to have arisen from these contacts. Our nearest neighbouring Societies are the Asian-Pacific Weed Science Society and the New Zealand Weed and Pest Control Society. It would seem logical to have more formal contact with these groups and I have asked Dr. Peter Michael, University of Sydney and Mr. David Campbell, Monsanto to investigate our link with the APWSS.

I'm not sure what the status of IWSS is at the moment but perhaps an article on CAWSS could be prepared to send to other Weed Societies such as EWRS, WSSA, IWSS to let them know what we do.

2. CAWSS should be more involved in educational and training matters concerning weed science.

There are various levels at which CAWSS and State Societies can be involved with educational matters. The State Societies are better placed to deal at the school level and up to University and College of Advanced Education level, while CAWSS is more appropriate to be involved at the post-graduate level.

This is one area where I feel that both the State Societies and CAWSS need to have more input.

State Societies in cooperation with appropriate organisations in their own State could be involved in helping to produce packages of educational material for schools as well as for the general community. The Western Australian Society recently assisted the Department of Agriculture with production of a weeds identification booklet and Victoria has produced its "Recommendations for Weed Control". The N.S.W. Society is producing an audio-visual programme which could be used at schools in video form.

All these activities help promote Weed Science but I feel State Societies need to get more involved at the School and High School level. A very successful logo competition was run this year in N.S.W. High Schools by the Noxious Plants Officers Association. It was apparent that many of the students' knowledge of weeds was very poor but by the end of the special Weed Awareness Week many knew a lot more about weeds and the problems they cause.

Also more involvement by the Societies at the community level is warranted. The response by the public to the N.S.W. Weed Society Stand at the Sydney Garden Fair was unprecedented. Governments and institutions seem to be becoming less and less involved in these type of activities and the Weed Societies and CAWSS can help fill this role. Willing hands are needed but the diverse nature and skills of Society members can make excellent contributions in promoting the cause of weeds and weed science.

Some State Societies have an award for the best final year student in weed science at a college or university or for the best thesis on weeds presented in the final year and the Queensland Society presents such an award. Also the Western Australian Society has recently instituted a series of awards at various levels from crop spraying farmers, to TAFE students, to Agricultural College Pest Control

Operators.

State Societies already carry out some educational activities. A need exists for these to be listed and as well a catalog of information available, videos, slide-tapes etc. so that all Societies know what the others are doing.

I have suggested that CAWSS award a prize for the best paper presented by a post-graduate student at the 8th Australian Weeds Conference and possibly future conferences and this principle seems to have been favourably received by all member societies and CAWSS delegates although there has been some difference of opinion as to the most appropriate group who receives the award.

However, we need to do more than this to encourage students to embark on weed projects for their graduate and post-graduate studies. Funds must be made available for students to work on weed projects but this whole matter depends on appropriate people being available at the various institutions to act as supervisors and for them to approach the various funding bodies with projects.

The undergraduate and post-graduate educational issue is already under review and Dr. Powles at the Waite Institute has been asked to report to CAWSS on the needs of weed science training and post-graduate opportunities in Weed Science.

Another suggestion is that CAWSS should consider an annual award for the most innovative technological advance in weed science made by an individual during the past 12 months.

3. Nelson Johnston raised several issues in his oration in 1981 on the future direction of CAWSS and I have briefly listed these below:-

- (i) a more dynamic role is needed to pursue the object of CAWSS i.e. highlighting the importance of weeds;
- (ii) encourage membership and new Societies (A.C.T., Tasmania, North Queensland);
- (iii) better communication is needed between CAWSS and Societies as well as with other groups and the community in general;
- (iv) develop policies on weed research, extension, legislation etc. and to comment on issues of concern;
- (v) a consultative role be developed with the Australian Weeds Committee;
- (vi) investigation of consultative work opportunities in emerging countries;
- (vii) spearhead major developments in weed technology;
- (viii) a greater role in training and education;
- (ix) the need for a chair of weed science at an Australian University;
- (x) promotion of a "Weed Science Foundation" to seek funds to support major objectives.

It is difficult to separate the role of the individual State Societies and CAWSS in a number of these issues and some have been superseded with the development of ACIAR by the Federal Government.

However, several of the points raised are relevant today and need further consideration.

The education and training role has already been briefly dealt with and is receiving attention.

The issue of highlighting the importance of weeds to Government and the general public is being addressed in many diverse ways by State authorities, National bodies such as Australian Weeds

Committee and National Coordinating Committee on Aquatic Weeds, by State Societies and individuals. A unified approach is needed but should it be the Australian Weeds Committee or CAWSS? AWC is more likely to get support from "the establishment" and in any event most members of AWC are members of State Weed Societies and aware of the major issues.

However, I believe that CAWSS while not the most appropriate body to unify the approach, should be bringing matters into the general arena for discussion i.e. CAWSS should be highlighting issues of concern at the National level. It could do this by having a fixed agenda item at the Australian Weeds Committee meetings each year where it can raise issues of concern.

The matter of funding has already been raised and if CAWSS is to be an effective voice in the future it will need more funds. The incorporation of CAWSS or the formation of a 'Weed Science Foundation' or both should be explored. However this issue is of a long term nature and will need considerable discussion.

For example, the Lecturer in Weed Science position at Sydney University is to be phased out when Dr Peter Michael retires because money is not available to retain the position. Should CAWSS attempt to finance the position by seeking funds or should the State Society take up the issue. Certainly the State Society should take up the issue in the first instance but it may need to involve CAWSS depending on the outcome of negotiations.

4. Another suggestion of merit is that CAWSS should form a series of adhoc sub-committees which have the responsibility of handling certain matters or issues. These sub-committees would work by correspondence during the year and provide reports to the annual meeting of CAWSS. The Sub-committees would consist of 2-3 people and could be established in the areas of:

- (i) Constitutional and By-Law amendments
- (ii) Publications
- (iii) Education and Training
- (iv) Awards
- (v) Conferences
- (vi) Ethics and Issues

plus others if applicable. The convenor should be a CAWSS delegate but other members could be from member weed societies. This would help to bring more informed discussion to the CAWSS annual meeting and help considerably in decision making.

5. Whether CAWSS should be involved in lobbying government or other bodies is another issue that some people have raised. I have some doubts on this, on the one hand CAWSS represents the weed science fraternity in Australia but is only one voice. It may be useful if associated with lobbying from individuals and other institutions and organisations but it cannot have a great deal of impact on its own.

One example where it may be useful is in lobbying for weed science training i.e. special courses in weed science or for additional resources to be made available at institutions. If CAWSS is to do any lobbying the area of education and training would appear to be one area where our limited resources may have most impact.

### **Concluding Remarks**

I believe that the problems of distance and only having one meeting per year have been factors in CAWSS not fulfilling its original objects. Meetings have only been held annually and these are usually associated with some other event at which some of the CAWSS delegates are present. More regular meetings or methods of communication are necessary if CAWSS is to progress. The holding of meetings by a phone hook-up has been mooted and will be tried shortly. It is essential that some form of regular communication occurs between delegates even if it is only by correspondence or by meeting as the opportunity arises at other National meetings or conferences.



CAWSS has a continuing important role to play in the future of weed science in this country and should be recognised as the Australian voice in Weed Science both overseas and in Australia. This does not appear to have happened to any large extent in the past because CAWSS has kept a rather low profile in its first 10 years. The question is just what level of activity or profile should CAWSS strive for to be most effective. We must take note of what happened to AIAS and not attempt for that level of centralisation.

The five Weed (Science) Societies in the States are operating very successfully and providing their members with a wide range of activities. They have an independent pride of the work they carry out and this is appropriate considering the great distances between States and the geo/climatic and political differences that exist.

I would suggest that besides running the Australian Weed Conferences, awarding the Australian Weed Societies Medals and arranging CAWSS Orations, CAWSS should:

#### Short-term objectives of CAWSS

1. Arrange for more frequent meetings of CAWSS by -
  - (i) taking advantage of national meetings or workshops to which CAWSS delegates attend for holding short meetings of CAWSS;
  - (ii) using phone hookups for discussing special issues that arise or for holding meetings more regularly.
2. Allow the President of CAWSS to visit the five State Societies and address them at least once during his two year term of office. These visits to be financed by CAWSS or worked in with other business visits to that State by the President.
3. Seek to have a CAWSS agenda item at Australian Weeds Committee meetings where issues of national concern can be raised by providing or seeking reports on solutions to issues and problems (i.e. Tertiary Education Report).
4. Set up a series of ad hoc sub-committees of CAWSS to report on various matters to the annual meeting or request individual State Societies to report on issues of concern.
5. Promote weed science on a national basis by arranging for prominent overseas weed scientists to visit Australia on a regular basis (yearly or more regularly). Finance for these visits could be shared between CAWSS, State Societies, Chemical Companies and other Societies.

#### Long-Term (Objectives) Activities of CAWSS

1. Assessing whether there is a need for additional Weed Science Societies in Australia i.e. A.C.T., Tasmania or whether it would be better to form Societies with a broader base than Weed Science i.e. Plant Protection Societies or Crop Science Societies.
2. Advancing the understanding of weed science in the public interest by:
  - (a) providing publicity about the long-term benefits of controlling weeds;
  - (b) providing appropriate forums for reasoned discussion on all matters related to weeds.
3. Lobbying for more funds and resources in certain areas of weed science such as post-graduate education and training, including reviewing of weed science requirement or needs in university courses.
4. Establishing contact with equivalent Societies in New Zealand and the Asian Pacific Region with a view to more formal and informal contacts between individuals and member Societies.

5. Establish more contact with other National bodies or Societies and be involved with them on issues which cross State boundaries or have wide national implications.

Finally, I believe the emphasis needs to be on issues rather than on structural changes. These are changing times and the challenges are many and varied. There is a need to encourage future Presidents of CAWSS to be strong willed with a broad understanding of all aspects of weed science.

### References

- Johnston, A. N. (1982). Australian Weed Societies - up to the eighties and beyond. Part 1, 1954-81. Australian Weeds, 2:17-20.  
Johnston, A. N. (1982). Australian Weed Societies - up to the eighties and beyond. Part 2, Australian Weeds, 2:18-26.

### Acknowledgements

Acknowledgement is due to all the Past-Presidents of CAWSS who so quickly responded to my request for comment on the future of CAWSS; also Nelson Johnston whose suggestions about the role of CAWSS have been freely given and other members of the State Weed Societies who contacted me.



## MEMBER'S NEWS

### NEW MEMBERS

Applications have been received and accepted for the following new members:

**Brian Sindel**, Department of Agronomy and Horticultural Science, University of Sydney. Brian is completing his Ph.D. on "The Ecology and Control of Fireweed (*Senecio madascariensis* Poir.)"

**Colin Palmer**, Technical Officer Vegetation, Tamworth.

**Madaline Laurance**, Lane Cove, interested in brush regeneration in urban bushland.

Welcome to the Society!



## CONFERENCE - WORKSHOP CALENDAR

March 3 - 11 1988

Contact:

**VII Symposium on the Biological Control of Weeds**  
Istituto Sperimentale per la Patologia Vegetale, Rome, Italy  
Paul H. Dunn, Director Biocontrol of Weeds Laboratory  
USDA - ARS  
Symposium VII c/o American Embassy, AGRICULTURE  
APO New York 0974 / USA

March 28 - 30 1988

### **AAB Conference**

The Practice of Weed Control and Management in Forestry, Amenity and Conservation Areas. University of York / GB

*Contact:* E.J.P. Marshall  
University of Bristol,  
Long Ashton Research Station,  
Long Ashton, BRISTOL BS18 9AF / GB

June 1988

**Yugoslavian Weed Science Society**

3rd Yugoslavian Congress on Weeds  
Agricultural Faculty, Inst. for Arable Crops and Viticulture  
Ohrid YUGOSLAVIA

*Contact:* Prof. Dt. Risto Lozanovski  
Zemjodelski Fakultet  
Inst. za polodelstvo i gradinarstvo (for III Congress)  
E. Kardelja bb  
YU-91000 SKOPJE / YUGOSLAVIA

September 6 - 8 1988

**EWRS International Symposium**

on Factors Affecting Herbicidal Activity and Selectivity  
Wageningen / NL

*Contact:* Mrs. E.J.L. Joltke-Staal  
Int. Agric. Centrum  
P.O. Box 88  
NL-6700 AB Wageningen / NL

April 1989

**EWRS 4th Mediterranean Symposium**

Problems of Weed Control in Fruit, Horticultural Crops and Rice.  
Valencia (SPAIN)

*Contact:* Mrs. Amparo Caballer,  
IVIA,  
Apartado Oficial,  
E-46071 Moncardia (Valencia) SPAIN



## NEW BOOKS

**Australian Agriculture**

*Authors:* National Farmers' Federation Publication  
Morescope Pty. Ltd.  
GPO Box 93, Camberwell Victoria 3124  
544 pages 260 x 184 mm 250 colour photographs, 20 colour maps.  
ISBN (not given)

*Price:* \$29.95 plus postage and packing \$6.50

*Description:* "Australian Agriculture" succeeds the Australian Agricultural Yearbook. It has been compiled and published on behalf of the National Farmers' Federation. It covers; history, economics, geography and structure of rural industries, latest farming systems, government policies and tax guides, reference directory of rural businesses, goods and services, calendar of rural events, advice on farm safety, livestock health and prevention of diseases, farm finance.

