

# 'IWSS'

V8.N1.1982



*IWSS President Dr. Shooichi Matsunaka receiving gavel from outgoing President Dr. Marvin Schreiber at the Rice Weed Control Symposium in the Philippines.*



## President's Comments

I assumed duties of the President of the International Weed Science Society on September 1st, 1981 during the IRRI/IWSS joint Symposium on "Weed Control in Rice". At that time Dr. Marcos R. Vega took office as the President-Elect.

On behalf of all members of our Society, I would like to express my deep thanks to Dr. M.M. Schreiber, our second president, for his efforts and contributions to our Society. Mr. Les Matthews, the first President, constructed the railroad of the Society, and Dr. Schreiber started two trains; one was the West African Weed Science Society/IWSS joint Symposium on "No-Tillage Crop Production in the Tropics" and the other is the above-described Symposium on "Weed Control in Rice". We had decided to concentrate our efforts on

the promotion of special symposia on international topics in conjunction with regional or national weed science societies or organizations. These two meetings were planned and held successfully during Dr. Schreiber's tenure in office. For the next two years he will serve as the Past President. Dr. Schreiber will continue to be responsible for IWSS activities concerning the above-described symposia. We all sincerely appreciate his contribution to our Society and welcome his continued support.

Two more co-sponsored symposia appear probable for the near future:

- (1) The FAO/IWSS workshop on "Weed Management Strategies for the Eighties for the Least Developed Countries" is scheduled for September 6-10, 1982 in Rome. The planning is in progress by FAO Weed Specialist, Mr. Les Matthews, the first President of our Society.
- (2) A Weed Science Society of America/IWSS joint symposium at the 1983 Annual Meeting of WSSA in St. Louis is being considered. The proposed title of the Symposium is "Technology Transfer in Weed Science". The members of the IWSS Executive Committee will discuss the matter at the 1982 WSSA meeting in Boston.

As described by Dr. Schreiber in the last newsletter, in retrospect agreeing to co-sponsor two symposia in the same year was ambitious. In the coming two years IWSS meeting activity will be limited to these two, in Rome and St. Louis. IWSS activities after 1984 will be also discussed by the Executive Committee in Boston. If any member has ideas or suggestions please pass them to the Secretariat or to me directly.

Current publications of our Society include:

- (1) IWSS Newsletter
- (2) A brochure describing weed science activities at international agricultural centers.
- (3) A listing of name and current address of most of the weed science societies and groups in the world.
- (4) Partial listing of weed science publications of the world.

**International Weed Science Society**

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Proceedings of the two completed symposia are being published by the International Rice Research Institute and the International Plant Protection Center. Members will be informed when they are finished.

Now we are attempting to compile and publish a worldwide directory of weed scientists.

Local and regional activities in weed science are encouraging to me. One I have watched from the beginning is the Asian-Pacific Weed Science Society. APWSS held successfully the 8th Conference in Bangalore, India from November 22nd to 29th, 1981. The society was founded in 1967 in Hawaii, and followed by the meetings in Los Baños, Philippines; Kuala Lumpur, Malaysia; Rotorua, New Zealand; Tokyo, Japan; Jakarta, Indonesia; and Sydney, Australia. I emphasized the importance and value of these conferences spread over 14 years in my congratulatory address at the inaugural ceremony in Bangalore. The 9th Conference of APWSS will be held in the Philippine Plaza Hotel, Manila, Philippines, from November 28 to December 2, 1983. You may contact Dr. Beatriz L. Mercado, Agronomy Department, University of the Philippines, Los Baños, Laguna, Philippines. On behalf of the Department of Agriculture, Thailand, Dr. Tanongchit Wongsiri, Deputy Director General of the Department, issued a formal invitation to the Secretariat of the APWSS to stage the 10th conference in Thailand. The suggested period would be October-November, 1985, in Bangkok.

In the constitution of IWSS, one of the objectives of the Society is shown as follows: Encourage and assist in the development of national and regional weed science societies. The slow but steady growth of the societies all over the world gives great pleasure to our Society. Any reports of activities by local societies are welcome in this newsletter.

Along with the promotion of international meetings, IWSS should promote uniformity in weed science terminology to enhance communication between individuals and organizations. An effort on herbicides is underway by ISO, and IWSS should pay increased attention to it.

At last I should write a bit as to the financial problems of the Society. Two Symposia were financially supported by IRRI, and chemical industry through IWSS. The following companies rendered to these contributions: Uniroyal, American Cyanamid, Stauffer, Rohm & Haas, ICI, Monsanto, Dow, Eli Lilly, FMC Corp., Nippon Soda, Hodogaya, Yashima, Hokko, Sumitomo, Takeda Pharmaceutical, Kumiai, Nissan, Showa-denko, Chugai, Sankyo, Mitsubishi, Nihon-kayaku, Nihon-nohyaku and Mitsui-tohatsu. We appreciate their contribution very much. A new lifetime membership for individuals and increase in the number of industry representatives on the Executive Committee, may help our financial status a little however, still we need greater resources to proceed with planned activities. I wish to request sincere cooperation to promote our fundamental objectives.

Concerns over environmental problems associated with increased use of herbicides will be more important and more complex in the future. Now as we promote weed science in developing countries, we should proceed to develop new materials, and methods to solve present and future problems. IWSS wants to be a good mediator and promoter of these activities.

Shooichi Matsunaka  
President, IWSS

#### Executive Committee Action

Following Executive Committee meetings in Los Baños, Philippines mail ballots were sent to the entire committee with the following results:

- (1) A Lifetime Membership will be offered to individual members at a fee of \$50 U.S. This is intended to be a service to individual members only and is not transferable to other individuals.
- (2) The FAO weed scientist will be a member of the IWSS Executive Committee.
- (3) Industry representation on the IWSS Executive Committee will be increased from one to three; one each from Europe, Japan, and the United States.

### No-tillage Crop Production in the Tropics

Members of the West African Weed Science Society and IWSS worked together to organize and conduct this two-day symposium. It was held in Monrovia, Liberia on August 6 & 7, 1981. The major share of credit for this successful effort must go to Dr. I.O. Akobundu who served as the organizing chairman. Twenty-eight papers on many topics including; soils, fertilizers, weed control, pest interactions, conservation, and equipment were presented and discussed. The papers are being edited by Dr. Akobundu and will be published by the International Plant Protection Center. An announcement will be sent as soon as the proceedings are available.

### Weed Control in Rice

This highly successful symposium was cosponsored by the International Rice Research Institute and IWSS. Dr. Keith Moody and the efficient organizing team at IRRI are to be congratulated for their fine effort.

The conference brought together 77 people to discuss 33 papers and 2 workshops. Twenty countries were represented including China, USSR, Australia, USA, India, Colombia and West Africa. Weed control measures, economics, equipment, research needs, weed identification, and training needs received attention in the conference which was designed to stimulate and record discussion. Drafts of all the papers were available to participants. The conference proceedings will be published by IRRI and made available at a reasonable cost.

### 21st Anniversary of the Weed Research Organization, Oxford, UK

WRO was established in 1960 and the 1981 "Weed Workshop" was an opportunity for some formal celebration of the achievements of the institute which has grown from an original 30 to some 170 staff, making it perhaps the largest unit of its kind in the world. Current projects were on display and several invited speakers noted the contributions the organization has made to British agriculture. Professor Bunting, however, also noted with regret the recent decision of the Overseas Development Administration (ODA) to cease funding WRO's Tropical Weeds Liaison Unit. This unit has become widely known as a source of advice and information on weeds and weed control in developing countries. Up to the present no alternative funding has been found and it is feared the service will no longer be available after March 1982.

### National Weed Science Research Institute (NWSRI), Thailand

With the help of the Japan International Cooperation Agency a completely new weed science institute has been established near Bangkok, Thailand. Dr. Kenji Noda is the leader of the Japanese team providing guidance in the build-up of the institute and coordinating the training programme which will see numbers of Thai personnel trained in Japan. Mr. Prachern Kanchanomai is the national leader of the institute, which has a clearly defined and comprehensive research programme covering the next five years.

### 2nd International Striga Workshop and Sorghum in 80's Symposium

These meetings were both organised by ICRISAT, the first involving a very small group in Ouagadougou, Upper Volta in October and the second a very large international gathering at Hyderabad, India in November. At the first the progress of the ICRISAT Striga-resistance breeding programme was reviewed, along with related work in Africa, USA and UK. The meeting resolved to seek increased funding for Striga research and this resolution was loudly echoed at the larger meeting in India when speakers from both Africa and India emphasized the continuing (and in India, increasing) problems being caused by this parasitic weed. USAID has a large Striga research project in their budget for 1982 onwards and it is to be hoped they are able to carry this through.

#### NEWS OF OTHER SOCIETIES

Asian-Pacific Weed Science Society held its eighth conference in Bangalore, India from November 22 to 29, 1981. Approximately 280 people from 15 countries attended to hear and discuss 120 papers on various weed control subjects. The first volume of the proceedings can be requested from the Organising Committee, Eighth Conference of Asian-Pacific Weed Science Society, 159, I Cross, Vasanthanagar, Bangalore 560 052, India.

The Philippine Weed Science Society held its annual general meeting in the course of the 12th Annual Conference of the Pest Control Council of the Philippines in May 1981. The new President of the Society is Mr. Ben Angeles, Vice President, Mr. M. Menguito, Secretary/Treasurer Dr. R. Robles and Business Manager Miss R. Talatala.

The European Weed Research Society has announced changes in the Editorial Board of "Weed Research" following illness and other difficulties which resulted in delayed publication. The new Board will welcome contributions in English, French or German and can offer publication times comparing favourably with other scientific journals. Contributions should be sent to the Secretary, Editorial Board EWRS, ARC Weed Research Organization, Yarnton, Oxford, OX5 1PF, UK.

Mexican Weed Science Society Meeting. Approximately 250 persons attended the 2nd annual meeting of the Mexican Weed Science Society, held at the University of Chapingo from November 4-7. Fifty-four papers were presented, covering the areas of weed control, physiology, taxonomy, application equipment, and education. The Congress was inaugurated by Dr. E. Moncadi, Director of the National Institute for Agricultural Research (INIA), who stressed the need for an integrated approach to the problem of weed control, and for developing weed control systems for the principal crops in Mexico.

During the inaugural session, Dr. Joaquin Gonzalez, president of the Latin American Weed Control Association (ALAM), presented a paper entitled Weed Control with Preemergence Herbicides in Rice Fields in Latin America; Dr. Omar Agundis M. gave a talk entitled Research on Weed Control in INIA; Dr. Miguel A. Altieri, from the University of California-Berkeley, presented a paper entitled Ecological Aspects of Weed Management.

During the final session, new officers were elected. The new president is Ing. German Mata, and Vice President Ing. Gilberto Equihua.

The abstracts of the meeting can be obtained from: Sociedad Mexicana de la Ciencia de la Maleza, Apartado Postal 22275, Mexico 22, D.F. Mexico.

#### NEW PUBLICATIONS

Pest Control in Tropical Grain Legumes. Latest (No. 5) in the Tropical Pest Management series, published by Centre for Overseas Pest Research, London, this manual provides the usual comprehensive guide to control of pest, diseases, nematodes and weeds in cowpea (Vigna unguiculata), black gram (Vigna mungo), mungbean (Vigna radiata), adzuki bean (Vigna angularis), moth bean (Vigna aconitifolia), chickpea (Cicer arietinum), lentil (Lens culinaris), horse gram (Macrotyloma uniflorum), hyacinth bean (Lablab purpureus), pigeon pea (Cajanus cajan) and winged bean (Psophocarpus tetragonolobus). Copies £4.50 (or free of charge to official workers in most developing countries) available from COPR, College House, Wrights Lane, London, W8 5SJ, UK.

The quarterly journal "Tropical Pest Management" continues to be available from the same source again free of charge to most workers in developing countries. Are you and your colleagues taking advantage of this?

Weed Ecology and Management Booklet Published. Dr. Miguel Angel Altieri at the University of California-Berkeley has published an 18-page booklet on the "Ecology and Management of Weed Populations." It is an annotated bibliography covering a wealth of topics and presents many tables and figures to illustrate the principle points. Sixty-eight references are cited, most of which were published in the 1970's so the information represents the current status of weed management. It is available for \$2.50 (U.S.) from: Eugene Memmier, 3287 Dunsmere Road, Glendale, CA 91206, USA.

Current problems in weed control - G.S. Gruzdev (Editor) 1980 - Aktual 'nye voprosy bor by s sornymi rasteniyami, Leningrad, "Kolos", pp 288 (in Russian). This volume contains the papers read at conferences in 1977 in Dotnuva (Lithuania) and in 1978 in Omsk (Siberia) by workers participating in the Lenin Agricultural Academy's Coordinated weed investigation and control plan. The first paper reviews the 17 aspects of the plan and the work of the participating institutes. Considerable emphasis is placed on cultural and integrated weed control methods in reaction to excessive use of herbicides. Equations are derived to express the economic threshold of weed harmfulness and weed infestation patterns are described in various regions of the country and in particular crops. Details are given of methods for the cultural control of wild oats (*Avena* spp.). **The use of herbicides** was found to increase sunflower susceptibility to broomrape (*Orbanche* spp.). Fenagon, a new formulation of 2,4-D (O-2,4-dichlorophenoxyacetylglycolic acid) is claimed to be 18 times less volatile than 2,4-D butylester while at the same time giving better control of perennial weeds and costing less to produce. Another author complains that the country was producing only half of the boom sprayers that were needed and that farmers were resorting to converting other sprayers. The paper on aviation claims that nearly half of the herbicides applied in 1970-75 were applied by air and that the proportion is increasing; special herbicide formulations were being developed for ULV application.

These are just a few highlights of what is otherwise a highly informative volume on the status of weed science in USSR. In Russian, but all papers have been abstracted for "Weed Abstracts".

Small Farm Weed Control - an annotated Bibliography compiled and Edited by J.A.F. Compton, 1982. The "overview" in the first 20 pages of this unique publication very effectively introduces the reader to the complexity of small farm agriculture. By presenting and discussing the many options and decisions facing the small farmer the author leads the reader to the inescapable conclusion that weed control must be studied as part of the total farming system.

One hundred pages of brief reviews of books, articles, and papers from 298 sources make this a must for anyone interested in weed control on small farms. It is available for \$10 (U.S.) from: Intermediate Technology Publications, Ltd., 9 King Street, London WC2E 8HN/U.K. Complementary copies are available to individuals working for non commercial firms in developing countries. Requests should be directed to the International Plant Protection Center, Oregon State University, Corvallis, OR 97331 / USA.

Conservation farming for small farmers in the humid tropics - techniques and tools by Ray Wijwardene, IITA, Sri Lanka Programme 1981, 19 pp. Those awaiting the Proceedings of the WAWSS/IWSS No-till Symposium in Monrovia mentioned elsewhere in this newsletter, will find this publication contains a large proportion of all that they wish to know about the latest ideas and techniques of "conservation farming". It is a culmination of Dr. Wijwardene's own pioneering efforts with IITA and, while guilty of some over-simplification in places, will provide a stimulus and inspiration to the further development of the concept of no-till farming, involving legume mulches, very low volume herbicide use (by "conventional" nozzles as well as spinning discs) and rolling jab planters - also the use of *Leucaena* species in "alley cropping". Copies are available for \$1.00 plus postage from Dr. Wijwardene at 133, Dharmapala Mawatha, Colombo-7 Sri Lanka.

Australian Weeds - Official Journal of the Council of Australian Weed Science Societies. Volume 1, Number 1, September 1981. This new journal is a little later appearing and differently titled from the announcement in our newsletter V5 N1 but is none the less a very welcome addition to the weed science literature. Edited by John Swarbrick and published by Indata Press Pty Ltd., 4 Longbourne Avenue, North Clayton, Victoria 3168, Australia, the first issue has a lively blend of research papers, review articles, new records and notes, book reviews, conference reports, letter to the editor and abstracts of selected articles. We wish it all success.

Principles and practices of rice production by Surajit K. de Datta, 1981, John Wiley & Sons, pp 618. This is a masterly, up to date volume covering all the practical aspects of rice growing, with particular attention to the wide range of growing techniques and predictably able and detailed attention to nutrition and weed control. A must for all field researchers involved with this crop.

## MEETINGS 1982

- January 27-29 Swedish Weed Conference, Uppsala, Sweden.
- February 9-11 Weed Science Society of America, Boston, Massachusetts. Contact: T.J. Sheets, Pesticide Residue Research Laboratory, North Carolina State University, Raleigh, NC 27650, USA.
- February 11-12 Ghana Weed Science Society 1982 Weeds Meetings, University of Ghana, Legon. Contact: Dr. F.K. Fianu, Department of Animal Sciences, University of Ghana, Legon, Ghana.
- March 1-4 Malaysian Plant Protection Society International Conference on Plant Protection in the Tropics, Kuala, Lumpur. Contact: Secretary MAPPS, P.O. Box 2351, Kuala, Lumpur 01-02, Malaysia.
- May 4 34th International Symposium on Crop Protection. Contact: Secretary at Faculty of Agricultural Sciences, State University, Coupure links 533, B-9000 Gent, Belgium.
- July 26-30 1st International Conference on weeds as reservoirs for organisms affecting crops. Wooster, Ohio, USA. Contact: Dr. L.E. Bendixen, Department of Agronomy, Ohio State University, Ohio 43210, USA.
- August 2-6 Latin American Weed Science Society (ALAM) and Brazilian Congress of Herbicides and Weeds, Campinas, SP - Brazil. Contact: Joaquin Gonzelez (President ALAM), CIAT, Apartado Aereo 6713, Cali, Colombia.
- August 29-September 4 5th International Congress of Pesticide Chemistry (IUPAC) and Symposium Pesticide Use in Developing Countries, Present and Future, Kyoto, Japan. Contact: Dr. T. Misato, Institute of Physical and Chemical Research, Wako-shi, Saitama, T 351, Japan.
- September 6-10 FAO/IWSS Workshop. Weed Control Strategies for the 1980's for Developing Countries. Contact: Dr. L.J. Matthews, Plant Protection Service, Food and Agricultural Organization, Vie delle terme di Caracalla, 00100-Rome, Italy.
- September 20-25 EWRS/Yugoslav Weed Science Society, 6th International Symposium on Aquatic Weeds and 2nd International Conference on Herbivorous Fish, Novi Sad, Yugoslavia. Contact: Mr. T.O. Robson, WRO, Yarnton, Oxford, OX5 1PF, UK.
- November 22-25 British Crop Protection Conference - Weeds, Brighton, UK. Contact: F.W. Bishop, 144-150 London Road, Croydon, CRO 2TD, UK.

## MEETINGS 1983

- February 8-10 Weed Science Society of America Annual Meeting, St. Louis, Missouri, USA. Contact: C.G. McWhorter, Southern Weed Science Laboratory, P.O. Box 225, Stoneville, Mississippi 38776.
- November 20-25 10th International Congress of Plant Protection, Brighton, UK. Contact: F.W. Bishop, 144-150 London Road, Croydon, CRO 2TD, UK.
- November 28-December 2 Asian Pacific Weed Science Society Conference, Manila, Philippines. Contact: Dr. Beatriz L. Mercado, Agronomy Dept. UPLB, College, Laguna, Philippines.