



# IWSS Newsletter

International Weed Science Society

January 2001

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## Officers' Comments

Past President Labrada

The 3rd International Weed Science Congress held in Foz do Iguassu, Brazil, 6-11 June 2000, was a real success. More than 750 participants from 62 countries attended the congress. The Brazilian counterparts, led by the chairman of the congress, Dr. Joao Baptista da Silva, did an excellent organizational job. The facilities of the congress were simply excellent. Brazil showed once more its hospitality and warmth.

Several participants in the congress came to me to express their gratitude for the excellence of the congress. In all cases I said that the merit belongs to the Brazilians. We must acknowledge that since the 1995 congress held in Florianopolis, Brazil, the Brazilian Weed Science Society clearly expressed its interest and willingness to organize the III IWSC. The society started its work since then and by the end of June 1996 a group of three specialists came to the II IWSC in Copenhagen and successfully applied for the venue of the congress.

In Brazil there were three strong candidates for the next venue of IWSC: India, Israel and South Africa. A Site Selection Committee seriously checked all bid documents and carefully analyzed advantages and disadvantages of each candidate. The selection of Durban, South Africa, was later approved unanimously by the new IWSS board. Our congratulations to our colleagues in South Africa. Personally I hope that the 2004 congress will be attended by several weed scientists in Africa.

The congress in Brazil was the culmination of work started by the previous IWSS president Dr. Jonathan Gressel four

years ago. It was also the last activity carried out by the last IWSS board. There is a new board led by Dr. Steve Duke with Drs. Anis Rahman and Bernal Valverde as Vice-President and Secretary, respectively. This board is now in a better position to conduct a more consistent work. Its new term is for four years, which enables them to plan various activities, including the organization of the next IWS Congress. In addition, including new IWSS regional coordinators guarantees reaching the weed science community in many parts of the world. As Past President, I would like to wish good success to the new colleagues on the board.

In my short term as IWSS president, various colleagues kindly provided support to the activities carried out and I would like this time to express my sincere gratitude to Drs. Bernal Valverde, Robert Zimdahl, Kyl Ung Kim, R. Malik, Gualbert Gbehounou, Ona Sakaliene, Robinson Pitelli, Joao Baptista da Silva, Jens Streibig, Anis Rahman among others.

Also, as Past President I would like to insist on the need to improve the work of IWSS in least developed regions of the world. The society has an excellent membership and its specialists may substantially contribute to the improvement of weed management in several developing regions and subregions of the world. Obviously, limited funds hinder our intentions to organize more activities in these areas, but our willingness and efforts in this direction may help us to concretize some activities and projects in the near future. There are other activities which do not need extra funds to be carried out, e.g., updated web pages of IWSS with technical sections included and more informative issues of the newsletter. The IWSS may also prepare and publish some booklets with relevant topics to weed science community.

The coming four years are an opportunity to IWSS, which should not be wasted. Let's look forward with required optimism.

Ricardo Labrada

President Duke

I hope that each of you had a good year 2000 and that 2001 will be even better. IWSS certainly welcomed the millennium with a bang through the 3rd International Weed Science Congress in Brazil. The details of this success were described in the last

newsletter. We have many people, including Jonny Gressel, Ricardo Labrada, João Baptista, and Carol Mallory-Smith, to thank for getting us to this point. As I get into the tasks at hand, I appreciate how much effort has gone into running this society. Keeping up the momentum will take significant effort from many people.

There are a number of items that I would like to discuss. First, it is dues time. Please pay your 2001 dues, so that we can continue in our activities. Instructions for dues payments are provided elsewhere in the newsletter and on our web page. When you renew, please let us have your email address. When you change your address or email address, please include us among those that you notify.

Our web page address has changed (see notice elsewhere in the newsletter). We have made a few changes in the web page. Please contact me with any comments about the web page or items that you would like to add to the web page. Note that the newsletters are now on the page as a pdf file for printing. We ask that you email me at [sduke@olemiss.edu](mailto:sduke@olemiss.edu) if you would like us to email you when the next newsletter goes on line in lieu of us mailing it to you. This will save the society postage expenses, which will allow us to spend the money on other societal activities.

Other than planning for the next meeting in 2004, we would like to be active in international weed science educational activities during the next few years. Dr. Okezie Akobundu has headed an ad hoc committee to develop a plan for IWSS to become more involved in educational efforts for improved weed management technologies for farmers in the developing world. This plan involves training programs, dissemination of educational information on weed management, and facilitating networking of international groups dealing with weed problems. Without a big budget, these efforts will require considerable

volunteer time on the part of many people. We will be in contact with some of you about this in 2001.

Please let us here from you regarding potential IWSS activities and your interest in participating in them. I will be calling on some of you in the near future for your assistance.

Next month, I will go to South Africa to examine the 2004 venue in Durban and to discuss organization with the local planning committee. I am now in the process of putting together a Scientific Program Committee for 2004. I will give you a report on the trip and plans for the meeting in our next newsletter.

Stephen Duke

### **New Year's Resolution: To Pay Your 2001 Dues**

We would like to invite you to make the New Year's Resolution of timely paying your dues to the IWSS. We are trying to make it easier for you to fulfill this by inviting you to pay in local currency to national or regional representatives. Please visit our web site to find the representative nearest you. You can also send your dues to our Secretary Treasurer, Bernal Valverde, by check or money order payable in US dollars against an American bank. The check should be written to the order of the International Weed Science Society. If you are a member of the Weed Science Society of America, you can also pay your IWSS dues along with your WSSA membership.

If you require further assistance, do not hesitate to contact us. Please provide your current address, telephone and fax number,

AND E-MAIL address on the form included at the end of this newsletter when you pay.

Bernal Valverde  
Secretary/Treasurer Valverde

### A Word from your Editor

The newsletter of any society is for and from the members. Any and all suggestions of what you would like the newsletter to be will be humbly accepted. This is a new venture for me and I will strive to meet the expectations of the IWSS members. One of the changes already implemented is making each issue available on the Web. Steve Duke has made arrangements to do this at his headquarters and I encourage you the check out the IWSS web site ([www.olemiss.edu/orgs/iws/default.html](http://www.olemiss.edu/orgs/iws/default.html)). I hope to include several web site addresses in each issue of the newsletter.

Any IWSS member can send items for the newsletter. The URL of your favorite web site might be a good place to start. You may wish to write a brief article on a hot weed topic in your part of the world. You might want to write something that questions common wisdom in weed science. If there is sufficient response to this idea, we may develop a "member forum" section in the newsletter.

**IWSS Newsletter by Internet.** Our newsletter is available online on our web site: [www.olemiss.edu/orgs/iws/DEFAULT.HTM](http://www.olemiss.edu/orgs/iws/DEFAULT.HTM). You will be able to print it as a pdf file. Please notify Steve Duke ([sduke@olemiss.edu](mailto:sduke@olemiss.edu)) if you are willing to have notification of the next newsletter by e-mail rather than have it sent by regular mail. This will speed up your access to the Newsletter and save the IWSS money.

Jerry Doll  
Newsletter Editor

## Coming Events

**2001**

**March 13-15**

**6th International HCH and Pesticides Forum**

Poznan, Poland

Contact: Mr. Stanislaw Stobiecki Fax: +48 32 238 7503

E-mail: [stock@ior.gliwice.pl](mailto:stock@ior.gliwice.pl)

Web page: <http://hjem.get2net.dk/HCH-Pesticides>

**May 28-June 2**

**18th Asian-Pacific Weed Science Conference**

Role of Ecologically based Weed Management for Sustainable Agriculture in the 21 Century

Beijing Friendship Hotel, Beijing, China

Contact: Dr. Chao Xian Zhang, APWSC, Institute of Plant Protection, CAAS, No. 2 West Yuanmingyuan Road, Beijing 100094, China

E-mail: [CXZhang@publiceast.cn.net](mailto:CXZhang@publiceast.cn.net); FAX: 86-10-62815937

Web page: [www.wssc.org.cn](http://www.wssc.org.cn)

**June 23-27**

**28th International Symposium on Controlled Release of Bioactive Materials**

California, USA

Contact: The Controlled Release Society Fax: 1 847 808 7073

E-mail: [info@controlledrelease.org](mailto:info@controlledrelease.org)

**August 13-17**

**6th International Symposium on Adjuvants for Agro-chemicals**

Amsterdam, The Netherlands

Contact: Dr. Hans de Ruiter, ISAA 2001 Foundation, PO Box 83, NL-6870 AA Renkum, The Netherlands Fax: 31-317-350-812

E-mail: [H.deruiter@issa2001.com](mailto:H.deruiter@issa2001.com) Web page: [www.isaa2001.com](http://www.isaa2001.com)

**Nov. 26-30**

**Latin American Weed Association Conference.**

Maracaibo, Estado de Zulia, Venezuela

Contact: Werner Gutierrez (Vice-President of ALAM) E-mail:

[wernergutierrez@cantv.net](mailto:wernergutierrez@cantv.net)

**2002**

**March 11-13**

**European Weed Research Society Workshop on Physical & Cultural Weed Control**

Pisa, Italy

Contact: P. Bàrberi, Scuola Superiore di Studi Universitari e Perfezionamento S. Anna, Via G. Carducci 40, 56127 Pisa, Italy; Tel. +39-050-883 449, Fax: 39-050-883 215

E-mail: [barberi@sssup.it](mailto:barberi@sssup.it)

**August 4-9**

**10th IUPAC International Congress on the Chemistry of Crop Protection - Innovative Solutions for Healthy Crops**

Basel, Switzerland

Contact: IUPAC 2000, c/o Novartis CP AG, WRO-1060.1.42, CH-4002

Basel, Switzerland; Fax: 44 61 697 7472

Web page: [www.cp.novartis.com/iupac2000](http://www.cp.novartis.com/iupac2000)

## Announcements

**IWSC Abstracts Available** Those who attended the 3rd International Weed Congress received a bound copy of the abstracts of all the presented posters and papers. These are still available to members who would like to have one. Contact Ms. Simone Busignani, Secretary for the Brazilian Weed Science Society at [sbcpd@cnpso.embrapa.br](mailto:sbcpd@cnpso.embrapa.br). The abstracts are also available for viewing and printing at the IWSS Web site.

**New Weed Science Society Created in Cuba.** Probably the youngest weed science society in the world is in Cuba. We received a copy of the proceedings from the 1st National Weed Science Conference that was celebrated in December 1999 in Cuba's National Botanical Garden. A total of 64 invited and volunteer presentations were made on topic from bioherbicides to weeds of interest to bee keepers! Dr. Juan Carlos Diaz Diaz is president and he can be contacted at INICA, 17203 Van Troi Ave., Boyeros, 19120, Havana, Cuba. e-mail: [jcdiaz@inica.edu.cu](mailto:jcdiaz@inica.edu.cu).

**Recipients of the Jim Herberger Award.** The best poster in each section of the 3<sup>rd</sup> International Weed Science Congress was awarded a copy of the book, "World Weeds: Natural Histories and Distribution" by one of the book's authors, Mr. James Herberger. The books were presented to the winners at the banquet during the Congress. Congratulations to each recipient! The complete list of winners is given in the following table.

Presenter	Country	Poster Title
Hamed Abbas	USA	The structure-activity relationships of fungal toxins that disrupt sphingolipid biosynthesis in plant and animal systems
Pedro Alves	Brazil	Identification and characterization of itchgrass accessions
Ulisses Antuniassi	Brazil	Mechanical removal of aquatic weeds: operational and economic analysis
Scott Baerson	Malaysia	Characterization of a glyphosate-resistant <i>Eleusine indica</i> biotype from Malaysia
Diego Batffa	Argentina	Effects of soil water status and depth of burial on dormancy changes in <i>Polygonum aviculare</i> seeds
Diego Bentisegna	Argentina	Growth of <i>Potamogeton pectinatus</i> in the irrigation system of the Rio Colorado, Argentina
Jamil Constantin	Brazil	Azafenidin: A new herbicide for weed control in <i>Eucalyptus camaldulensis</i>
Tomilea Dillon	USA	Control of red rice ( <i>Oryza sativa</i> ) and other difficult weeds in imidazolinone-tolerant (ClearField) rice
Friday Ekeleme	Nigeria	Planted fallow reduces weed seed bank in southwestern Nigeria
Geoff Hurrell	New Zealand	<i>Cirsium arvense</i> control using <i>Sclerotinia sclerotiorum</i>
Deirdre Lemerle	Australia	Breeding for strongly competitive cultivars of wheat in Australia
Rachel Melland	Australia	Integrated control of <i>Chrysanthemoides monilifera</i> in temperate natural ecosystems in southern Australia

<b>Festus Murithi</b>	Kenya	Approach to weed management practices in the maize cropping systems of the eastern highlands of Kenya
<b>David Ndungu</b>	Kenya	Fodder legume effects on <i>Striga hermonthica</i> germination and parasitism infestation of maize
<b>Rico Pamplona</b>	Philippines	Seedling recruitment of <i>Echinochloa crus-galli</i> in relation to rice cultivar and crop establishment method
<b>Jorge Perdigon</b>	Argentina	Phytotoxic persistence of chlorimuron and metasulfuron in soils of the Pampean region of Argentina
<b>Eduardo Puricelli</b>	Argentina	Effects of glyphosate doses and soybean planting system on <i>Anoda cristata</i> biomass and seed production
<b>Claudio Purissimo</b>	Brazil	Effectiveness of postemergence herbicides following early preplant applications of sulfosate in no-tillage soybeans
<b>Susan Timmins</b>	New Zealand	Eradicate this weed or not?
<b>Craig Walton</b>	Australia	National weedbuster week: linking weed communication and action across Australia

## Reports on Conferences/Courses/etc.

**Regional course on weed ecology and competition.** Dr. G. Gbèhounou, Regional IWSS Coordinator for West and Central Africa

From 16 to 21 October 2000 FAO and the "Laboratoire de Défense des Cultures" of the Institut National des Recherches Agricoles du Bénin organized a regional course on weed ecology and competition at the Centre Interafricain de Conférences in Cotonou, Bénin. The course was organized for French-speaking countries in West and Central Africa. Participants were from the Republic of Bénin, Burkina-Faso, Cameroun, Côte-d'Ivoire, Mali, Niger, Sénégal, and Togo. Four participants from Nigeria, an English speaking country, and Dr. Chikoye, weed scientist at the International Institute of Tropical Agriculture, also joined in the course.

The lectures on weed interference were given by Dr. Ricardo Labrada, Weed officer at FAO, while weed ecology was addressed by Professor Jacques Maillet from the Ecole Nationale Supérieure Agronomique de Montpellier in France. Interesting discussions

followed the lectures and field visits. Competition and critical periods for weed control were emphasized. Dormancy of weeds was also emphasized with regard to its implications on weed control. Build up and assessment of weed populations were stressed.

Participants visited Bohicon and the region of Dassa-Zoumé. At Bohicon participants viewed experimental cotton plots and a large area invaded by *Imperata cylindrica* which was successfully treated with glyphosate. At Dassa-Zoumé many rice fields were heavily infested with *Rhamphicarpa fistulosa*, a parasitic weed. *R. fistulosa* is a recent pest in Bénin which appeared after reclamation of inland valleys and continuous rice cultivation.

A special workshop *I. cylindrica* control gave the participants an opportunity to share information on this weed in their countries. Sahelian countries like Niger, Mali and Sénégal do not have a serious *I. cylindrica* problem. However, Burkina-Faso reported that in the southern part of the country *I. cylindrica* is a weed of concern. The countries most affected are Bénin, Cameroun, Côte-d'Ivoire, Nigeria and Togo. Control measures adopted by farmers include cover crops such as mucuna, tillage and chemical control by means of glyphosate.

Course participants also discussed the revival of the West African Weed Science Society. They agreed that a new society should be created that would include both West and Central Africa. They formed a committee of weed scientists from Bénin (Dr. G. Gbèhounou), Burkina-Faso (Dr. O. Ouédraogo), Cameroun, Ghana, IITA (Dr. D. Chikoye), and Nigeria to gather information and do the background work to set up the new society. Dr. Chikoye will coordinate this activity.

### **Weed Science Short Course in Venezuela.**

In preparation for the Latin American Weed Science Society (ALAM) meeting, to be held on Nov. 26-30, 2001 in Maracaibo, Venezuela, SOVECOM (The Venezuelan Society of Weed Science) organized an intensive short course. Held at La Universidad del Zulia (6-8 December 2000) in the beautiful port city of Maracaibo, the course attracted 199 participants throughout Venezuela. There was an outstanding participation of advanced under-graduate and graduate students (41%) as well as of researchers, extension workers and industry representatives. The local crop protection industry and the national (CONICIT) and regional (CONDES) research councils financially supported the course.

Most lectures, covering aspects from weed biology to biotechnological approaches to weed management were presented by local experts from a variety of institutions and industry. International speakers, among them the Secretary-Treasurer of IWSS, Bernal Valverde, also presented lectures on specialized topics. The organizers, Werner Gutierrez and Carlos Medrano, ALAM's Vice-President and SOVECOM's President, respectively, made a great effort, to compile all lectures in a proceedings provided to each participant.

IWSS salutes the approach used by SOVECOM in organizing this course. Proceeds will be used to help in the organization of the ALAM meeting and graduate credits were granted to those

interested participants approving a test at the end of the course.

The deadline for abstract for the Nov., 2001 ALAM meeting is May 15, 2001. See the Calendar of Events for more details on this meeting.

Secretary-Treasurer Bernal Valverde

## **Book Review**

**The Distribution and Importance of Arthropod Pests and Weeds of Agriculture and Forestry Plantations in Southern China.** 1997. Li Li-ying, Wang Ren and D. F. Waterhouse. Reviewed by Jonathan Gressel.

This book is a distillation of raw data from the area and is intended as a data base. Obviously, weeds are of lesser importance as they recorded 991 arthropod pests yet they found only 87 weeds. Eighteen tables list the distribution and subjective importance of each arthropod species found in eight crops and six grouped agroecosystems (e.g., leafy vegetables, trees, etc.).

The major weeds are listed in table 19 of the book, without the division as to agroecosystem as was designated as for the arthropods, even though weeds do not fly and are easier to pinpoint. Presumably the authors naively thought that the weeds lack the crop specificity of the arthropods, as we are just told that most of the weeds invade "agricultural land." Table 20 describes the incidence and subjective importance of each weed species in each of the 13 provinces south of the Yangtze River. Table 21 rankings the importance of weeds. The top ten contain only one species that is not a global pest: *Malachium aquaticum*. The other nine are (from worst) *Echinochloa crus-galli* (no surprise), *Alopecurus aequalis*, *Digitaria sanguinalis*, *Eichhornia crassipes*, *Eleusine indica*, *Leptochloa chinensis*, *Cyperus difformis*, *Mimosa pudica* and *Galium aparine*. Twenty one of the listed weeds have been targeted, somewhere in the world, for

biocontrol (Table 22). Interestingly, only three of these are in the top ten South China weeds.

As the book is dedicated to defining target pests for "classical" biocontrol agents, it would have been useful if there had been a designation of which arthropods and weeds originated outside of China (i.e., "exotic" or "alien"). Despite the tabular manner and the lack of a real discussion on impact, the book does have a considerable amount of important data, and will probably be obtained more by the chemical controllers than by the biocontrollers. Published by the Australian Centre for International Agricultural Research, GPO Box 1571, Canberra ACI, 2 601, Australia. 185 pp.

## Odds and Ends

**Deadline for material for the next Newsletter** is 15 June 2001.

Send newsletter material to:  
Dr. Jerry Doll, Univ. of Wisconsin  
1575 Linden Dr., Madison, WI 53706 USA  
Fax: 608-262-5217  
E-mail: [jddoll@facstaff.wisc.edu](mailto:jddoll@facstaff.wisc.edu)

## Web Sites

This section of the Newsletter will include a few of the Web sites of weed scientists we have found or been informed of that may be of interest to IWSS members. Please send any web site you would like to make known to other IWSS members to the Newsletter editor.

This month, the list includes the following:  
[www.unr.edu.ar/u-acad/fcagr/malezas/index.htm](http://www.unr.edu.ar/u-acad/fcagr/malezas/index.htm) This site is from the weed science group at the National University of Rosario, Argentina. Contact Ing. Agr. Eduardo Leguizamón with

comments or suggestions  
([laupamar@satlink.com](mailto:laupamar@satlink.com))

Ricardo Labrada indicates that the FAO web is quite big (more than 30,000 pages) and people may get lost easily if they go to [www.fao.org](http://www.fao.org). He recommends using the following URL to get immediately to the FAO weeds site:  
[www.fao.org/WAICENT/FAOINFO/AGRICULT/AGP/agpp/IPM/WEEDS](http://www.fao.org/WAICENT/FAOINFO/AGRICULT/AGP/agpp/IPM/WEEDS).

## IWSS Officers

**Dr. S. O. Duke, President**  
USDA, ARS, USA  
PO Box 8048, University, MS 38677  
Tel: (662)915-1036 Fax: (662)915-1035  
E-mail: [sduke@olemiss.edu](mailto:sduke@olemiss.edu)

**Dr. Anis Rahman, Vice President**  
Ruakura, Agric. Res. Centre  
Private Bag  
Hamilton, NEW ZEALAND  
Tel: 64-7-838-5280 Fax: 64-7-838-5073  
E-mail: [anisrahman@agresearch.co.nz](mailto:anisrahman@agresearch.co.nz)

**Dr. Bernal Valverde, Secretary/Treasurer**  
The Royal Veterinary & Agricultural University  
Thorvaldsensvej 40  
DK-1871 Frederiksberg C  
Copenhagen, Denmark  
Tel: (+45) 35 28 34 62 Fax: (+45) 35 28 34 68  
E-mail: [bev@kvl.dk](mailto:bev@kvl.dk)

**Dr. Ricardo Labrada-Romero, Past-President**  
FAO  
Via Delle Terme di Caracalla  
Rome 00100  
ITALY  
Tel: 396 5705 4079 Fax: 396 5705 6347  
E-mail: [ricardo.labrada@fao.org](mailto:ricardo.labrada@fao.org)

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**Best wishes to one and all for the New Year.**

**May it be one of professional and personal progress and satisfaction.**

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## Application for Membership -- International Weed Science Society

Membership in the International Weed Science Society (IWSS) is open to individuals of all nations interested in any aspect of weeds and their management. Payment of dues entitles active members to voting privileges and receipt of the IWSS Newsletter and Membership Directory.

Membership fees are:

**Individual Membership**, US \$10.00 annually

**Affiliate Membership** (for companies, institutions, and national and regional weed science societies) US \$50.00

**Lifetime Membership**, US \$200.00.

Payment must be in U.S. currency. **Credit card payments cannot be accepted.**

Name \_\_\_\_\_  
Company/Organization \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_  
State/Zip/Country \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

Amount enclosed \$ \_\_\_\_\_

Type of Membership:     Individual         Affiliate         Lifetime

Mail your check payable to the International Weed Science Society and mail to one of three people:

**1. In North America:**

Stephen O. Duke  
USDA, ARS, NPURU  
P.O. Box 8048  
University, MS 38677  
USA

**2. In the rest of the World:**

Bernal E. Valverde  
The Royal Veterinary & Agricultural University  
Weed Science  
Agrovej 10  
DK-2630 Taastrup, Denmark

**3. To your national correspondent or regional representative** in local currency. We have such representatives for South America, Central America and the Caribbean, the Middle East and North Africa, West and Central Africa, East and Southern Africa, West Europe, East Europe, India and South and SE Asia, and Central and North Asia. Their names and addresses are found on the IWSS Web site: [www.olemiss.edu/orgs/iws/DEFAULT.HTM](http://www.olemiss.edu/orgs/iws/DEFAULT.HTM).