



WEED SCIENCE NEWS LETTER



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June 2008

Message from the President

Dear ISWS Members,



Greetings from new ISWS Executive!

I am happy to inform you that the old Executive of the Society represented by Dr. R.K. Malik, the past President, has handed over the charge of the

ISWS to the New Executive on 17 June, 2008.

As you make out, the present EC has many new faces that have rich experience in weed science and have served the Society for many years. The ISWS has been in existence for nearly forty years and can boast of nearly 600 plus life members. But honestly this has not been translated rightfully in terms of reputation at the international scene or in the quality of publications. We have a long way to go. But I am optimistic for its future. Given the right conditions we promise you that with in a reasonable time frame we will transform the situation. What we need is your whole-hearted support and total indulgence in our endeavors. This becomes more important considering the crisis that the society is facing. We earnestly feel that it is temporary and will fade away soon. Each one of you can contribute to its betterment. We have lined up a number of activities that will make the society vibrant. Be patient for a while and we request you to give your ideas and suggestions to make the society strong and its activities, interesting and rewarding. Our priority will be to renew contacts with the members. We need your help in

updating the information. We will soon be sending the membership list along with the new issue of the journal. Please be kind to tell us about any changes with your and your colleagues contact details. We try to create a database and a network so that you could have a renewed and fruitful interaction. Once this is done, other things will follow easily. We look forward to your total cooperation and understanding in making something which we all could be proud of. We trust you are with us. We thank for the opportunity given to us.

N. T. Yaduraju

Indian Society of Weed Science Executive Council

The newly elected executive committee of ISWS met on 17 June, 2008 at KAB-II-ICAR, New Delhi and nominated the following for various positions of the Society. Dr. Rm. Kathiresan was assigned the responsibility of Chief Editor of Indian Journal of Weed Science. He will be assisted by the Editorial committee consisting of:

Dr. U. S. Walia, PAU, Ludhiana
Dr. N. N. Angiras, HPKVV, Palampur
Dr. Gita Kulshrestha, Delhi
Dr. T. K. Das, Delhi
Dr. Ashok Yadav, CCS HAU Hisar
Dr. Rajul Edoliya, DuPont, Gurgaon
Dr. Jayakumar, Bhavanisagar
Dr. A. N. Rao, Hyderabad

All the members of ISWS EC are also *de facto* members of the Editorial Committee.

BUSSINESS MANAGERS

Dr. B. S. Phogat, Directorate of PPQ&S, Faridabad.
Dr. Ram Murti, Monsanto, Mumbai.
Dr. Sunil Kumar, Bayer, Mumbai.
Dr. Rajul Edoliya, Du Pont, Gurgaon

Indian Society of Weed Science

Executive Committee 2008-2010

President	: Dr. N. T. Yaduraju ICAR, New Delhi
Vice President	: Dr. H. V. Nanjappa UAS, Bangalore
Vice President (Co-opted)	: Dr. A. K. Gogoi, ICAR, New Delhi
Secretary	: Dr. Samunder Singh CCS HAU, Hisar
Joint Secretary	: Dr. R. K. Singh BHU, Varanasi
Joint Secretary (Co-opted)	: Dr. A. S. Rao ANGRA, Guntur, AP
Treasurer	: Dr. R. K. Pannu CCS HAU Hisar

Weed Science News letter is the official publication of Indian Society of Weed Science and is distributed free to members of the Society. This Newsletter is published four times a year; March, June, September and December. For membership, please write to Secretary, Indian Society of Weed Science, CCS Haryana Agricultural University, Hisar. Materials intended for publication may be submitted to the Editor at the following address.

Dr. Rm. Kathiresan
Newsletter Editor
Dept. of Agronomy, Faculty of Agriculture,
Annamalai University

International Weed Science Congress 2008, Vancouver, Canada

Weed scientists from Europe, North America, South America and the Asian-pacific Area formed the International Weed Science Society (IWSS) in 1975, to deal with global weed science issues. Today, the IWSS is a world wide scientific organization, open to all who are interested in weed science. This Society has organized five highly successful International Weed Science Conferences (IWSSC), in Australia (1992), Denmark (1996), Brazil (2000), South Africa (2004) and the fifth One was organized jointly by IWSS, Weed Science Society of America and Canadian Weed Science Society at Vancouver, Canada during 23rd to 27th June, 2008. The Theme of the Congress was weeds-local problems/Global challenges.

Vancouver, a dynamic, multicultural city in British Columbia amidst an enchanting natural surroundings comprising majestic mountains and sparkling ocean offered an excellent venue. The Westin Bayshore hotel threw all its facilities to the comfort of the participants and organization of 22 different sessions spread over four days. Plenary lectures from eminent scientists commenced the programmes on every day followed by invited oral presentations and posters in each of the 22 different main topics including 1. Biology, Dynamics and Ecology of Weeds, 2. Integrated Weed Management, 3. Modeling Problems and Solutions, 4. Natural Products, 5. Formulation and Adjuvants, 6. Regulatory, Economic and Social Aspects, 7. Herbicide Resistance in Crops and Weeds, 8. Biocontrol, 9. New and Emerging Technologies, 10. Site Specific Weed Management, 11. Weed Management in Turf, Parks, Recreation Areas and Right-of-ways, 12. Weed Management in Organic Farming, 13. Management of Parasitic Weeds, 14. Spread and Management of Invasive Species, 15. Aquatic Weed Management, 16. Education and Technology Transfer in Weed Science, 17.

Environmental Aspects of Weed Management, 18. Weed Management in Field Crops, 19. Weed Management in Forestry, 20. Weed Management in Horticultural, Plantation and Minor Crops, 21. Spotlight on Global Weeds, 22. Synthetic Herbicides- Mode/mechanism of Action and Safeners. A field trip was organized to refresh the participant on the third day of the 25th June.

Dr. Rm. Kathiresan, Professor of Agronomy, Annamalai University, India served as a organizer of the main topic session on Spotlight on Global Weeds, jointly with Dr. Ricardo Labrada Romero, Weed Officer, FAO, Rome. He also Co-chaired the session and presented a lecture on Honey suckle mesquite, *Prosopis juliflora* (Sw.) DC, a major invasive plant in various regions of the world. The other participants in the conference from India were Dr. A. K. Singh, Dr. J. G. Varshney, Dr. Puja Ray, Dr. B. Muthu Kumar and Dr. Irfan Rashid. Eminent NRI Weed Scientists like Dr. Megh Singh, USA, Dr. P.C. Bhowmik, USA, Dr. Raj Prasad, Canada and Dr. Anis Rehman, New Zealand also participated in the conference. Many of the graduate student awardees were from India. The graduate student award covered registration fees, accommodation and part of the travel expenses.



**Indian Weed Scientist at IWSSC
Vancouver**

The awardees were selected by a committee headed by Dr. Per Kudsk of Denmark. Many of the participants were attending the conference for the first time indicating that Weed Science continues to attract new and younger talents.

Graduate Awardees in International Weed Science Congress 2008



Dr. Puja Ray is a Senior Research Fellow in Tropical Forest Research Institute at Jabalpur. She had been awarded with the graduate Research assistance to attend the fifth IWSSC 2008 at Vancouver, Canada for her paper on “Possibilities of activity enhancement of *Zygodontia bicolorata*, a bio control agent of *Parthenium hysterophorus*, by temperature regulated diapause aversion”



Dr. Irfan Rashid,
University of Kashmir



Dr. B. Muthu Kumar
Tamil Nadu

Working groups in scientific Societies

Scientific Societies that are actively working for the advancement of science concerned, have started forming working groups in component disciplines in order to really contribute for furtherance of knowledge and to invigorate research aptitude among the young bloods

entering the field. European weed research society is a forerunner in this direction. This Society has formed working groups in 13 varied aspects viz., 1. Biological control of weeds 2. Crop weed interactions 3. Education and Training 4. Germination and Early Growth 5. Herbicide Resistance 6. Invasive plants 7. Optimization of Herbicide dose 8. Parasitic weeds 9. Physical and Cultural 10. Site specific weed management 11. Weed management systems in vegetables and 13. Weeds and Biodiversity. Each of the group is headed by eminent scientists working in that field. These groups identify priority areas and challenges in that field, undertake research independently or jointly, evolve new methodologies and organize periodical workshops. They also host separate Websites.

New Officers of International Weed Science Society elected

The election for the office-bearer of International Weed Science Society was over by April 2008. In accordance with the constitution of IWSS, the Vice-President (during 2004-08) Dr. Baruch Rubin, has assumed office as President for the term 2008-12. Dr. Albert Fisher of University of California, Davis, USA who was also the Secretary-Treasurer during 2004-08 has been elected as Vice-President for and Dr. Nilda Roma Burgos, University of Arkansas, USA has been elected as Secretary-Treasurer for 2008-12.

National Invasive Weed Surveillance Project Launched in India

To meet the increasing demand for food in the country, Government of India imported 6.2 million tonnes of wheat during 2006-2007 from various countries like Australia, Russia, Canada, Ukraine, Hungary, France, Kazakstan, Romania, Bulgaria, Netherlands and Argentina with relaxed phytosanitary conditions. Consequent to there imports, five different quarantine weed seeds were

intercepted in the wheat consignment. They were *Cenchrus tribuloides*, *Solanum carolinense*, *Viola arvensis*, *Cynoglossum officinale* and *Ambrosia trifida*. In order to guard our agro-environment against any possible invasion by these weed species, a National Invasive weed surveillance project has been sponsored by Ministry of Agriculture and Co-operation Government of India with an out lay of 666.45 Lakhs covering ten states viz. Gujarat, Maharashtra, Karnataka, Kerala, Tamil Nadu, Andhra Pradesh, Orissa, West Bengal, M.P and Chattisgarh. The Project is implemented by NRCWS, Jabalpur involving the AICRPWC centers and other institutes in the concerned states. The expected output of the project could be the development of appropriate database survey and monitoring protocols for early detection, creation of public awareness and suggest management strategies for quarantine and invasive weeds.

Indian Society of Weed Science Biennial Conference

The Biennial conference of ISWS held at Hisar during 2-3 Nov. 2007 was a grand success with 100 registered participants and 35 students participants including eminent global weed scientists like Dr. Krishna Reddy (USA), Dr. Rafael DePrado (Spain), Dr. Robin Bellinder (USA), Dr. Ken Sayre (Mexico) and Dr. Ribas Vidal (Brazil). Chief Guest Padamshree Dr. J. B. Chowdhury gave a clarion call to weed scientists to develop technologies meeting the future challenges of increased production without taxing the environment. The detailed account of the Conference has been published in the recent issue of IJWS. The Society honoured its dedicated and industrious weed scientists during this occasion.

The Profile of Awardees in the ISWS Conference is as:

Gold Medal 2006



Dr. Rm. Kathiresan is a Professor of Agronomy, Faculty of Agriculture, Annamalai University with 23 years of Research and Teaching Experience. He has been a recipient of British Crop Protection Council Bursary award and Commonwealth Senior Fellowship. He organized a session in the IWSC 2008, Canada and is the Principal Investigator of NAIP Research Project. He has supervised several Weed Research Projects funded by ICAR DBT and NRI, U.K. He has published several Research Papers and Book Chapters of international repute.

Gold Medal 2007



Dr. U. S. Walia is a Senior Agronomist who has been awarded with FAI Silver Jubilee Award. He has authored one book in Weed Management and six book chapters in weed science. He has several good papers to his credit published in reputed journals in India and abroad. Dr. Walia has guided several PG students in Weed Science with outstanding work in weed ecology, physiology and resistance management. Presently Dr. Walia is shouldering the responsibility of Head of Agronomy Department at Punjab Agricultural University, Ludhiana, Punjab.

Fellows 2005 & 2006



Dr. Samunder Singh is a senior Weed Scientist at CCS HAU, Hisar. He is a Commonwealth scholar and had been a visiting scientist at University of Florida, USA. He has published several international research papers in weed science and is a pioneer researcher on *Phalaris minor* resistance.



Dr. H. V. Nanjappa is Director Instruction (Post Graduate Studies) in University of Agricultural Sciences, Bangalore. He was a Research Fellow of IRRI, Philippines and he has received the best teacher award of ICAR during 1998. He has completed several research projects of ICAR and published numerous research papers in weed science



Dr. Gita Kulshrestha is Emeritus Scientist with 35 years of Research and Teaching experience in herbicide residue chemistry at Division of Agricultural Chemicals of IARI, New Delhi. She has bagged several awards including the Fellowship of National Academy of Agricultural Sciences (NAAS). She serves as a member of several important monitoring and consultancy teams of Agricultural Research Institutions of the country.



Dr. A. K. Gogoi is presently the Assistant Director General (Agronomy) of ICAR and was the Principal Scientist at NRCWS, Jabalpur earlier, where he developed the National Database on major weeds of the country. He has attended many international meets and published several research papers.

Fellows 2006 & 2007



Dr. Ashok Yadav is Senior Scientist (Weed Science). He had been visiting Scientist in Australia and USA and visited many other countries on academic assignments. His contribution in herbicide resistance in wheat is widely appreciated. He has published several research papers in weed science.



Dr. A. S. Rao is Principal Scientist, Weed Control Unit, Regional Agricultural Research Station, LAM Farm, Guntur, A.P. He had undergone advance training on "Herbicidal behaviour in plants" at Southern Weed Science Laboratory, Stoneville, U.S.A and is a recipient of many awards. He has several research papers in reputed journals to his credit.



Dr. J. S. Mishra is a senior scientist at NRCWS, Jabalpur. He has received many national awards and has published a technical manual, two books and three technical bulletins in Weed Science

Future Events

March, 2009

Workshop on Physical and Cultural Weed Control at Zargosa, Spain.
website <http://www.ewrs.org/pwc>

8-12, June 2009

10th World Congress on Parasitic Plants at Kusadasi, Turkey. website www.ippsturkey.com

August, 2009

12th Symposium on Aquatic Weeds at

Jyvaskyla, Finland.

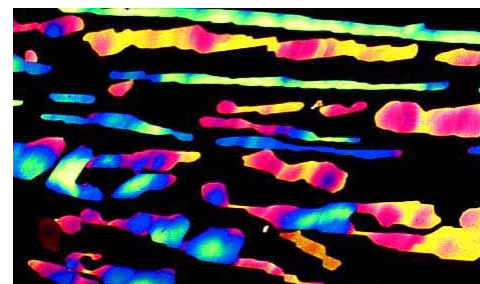
Contact : Christian.bohren@acw.admin.ch

New Book in Weed Science

Utility of Weeds and their Relatives as Resources

Ed : K. U. Kim, D. H. Shin and I. J. Lee. Published by Kyungpook National University September, 2007. The book comprise 11 Chapters, covering the various modes of weed utility, experienced in different Asian-pacific nations, contributed by eminent weed scientists, with 222 pages. For details contact: jast@www.2.knu.agkr

Submit your interesting experimental/field trial/weed photos and we will publish the best photo in the news letter with some 'reward' – Secy. ISWS



Crystal structure of paraquat

Please submit your articles for publication in the Indian Journal of Weed Science to: Secretary ISWS, Department of Agronomy, CCS HAU Hisar – 125 004 or to Dr. Rm. Kathiresan, Chief Editor, IJWS, Annamalai University, Annamalai Nagar, TN 608 002 or by email at Indian.j.weedsci@gmail.com and all other communications at isws.hisar@gmail.com. Send newflashes of any weed science activity in the country to rm.kathiresan@sify.com