



# ISWS News Letter

A publication of Indian Society of Weed Science

January-March, 2009



## President's Message

Greetings to all the esteemed members of the Indian Society of Weed Science. It gives me immense pleasure in presenting the current issue of the 'ISWS News letter', mouth piece of this important society that is

engaged in weed science research and education.

Under my presidency, series of steps were taken to rejuvenate and strengthen the Indian Society of Weed Science (ISWS). You are aware that for last 25 years ISWS was functioning as an unregistered body as attempts were never made to renew its registration from the competent authority. In this context, I am happy to inform you that we have been able to renew the registration of the society as a result of the sincere efforts made by the present executive body. This will help us to have transparency in the financial transactions which is essential for the proper up keep and functioning of the society. Besides that the society may now seek the funding from the government organizations like ICAR, etc., an opportunity that was missed by our society for almost past 25 years. Within the short span of last two years, that is after shifting of the society's headquarters from CCSHAU, Hisar, to DWSR, Jabalpur, in April 2007, we added about 182 new members to the society and thereby substantially increasing its total membership from 368 to 550.

The state level interface meeting on 'Weed management and use of weedicides in increasing crop productivity' was organized at Pune on 25<sup>th</sup> February, 2009, by the Marhatta Chamber of Commerce, Industry and Agriculture, Pune in association with the Maharashtra chapter of ISWS. The meeting was attended by a large number of state government officials, scientists from state agricultural universities and ICAR institutes, industrialists, media and progressive farmers. I chaired this meeting and delivered the keynote address on the topic "Review of research work and recent advances in weed management in India". Further, during the question hour that followed the meeting, we were able to convince the audience about the importance of weed management and the necessity for private participation in research and development work in the field of agriculture.

I assure the esteemed members that the executive committee will leave no stone unturned in transforming the ISWS into a professional, vibrant and glorious scientific society to serve the farming community in a much better and effective manner.

It will be my sincere endeavor to serve the society and to stand by its members in all their efforts towards strengthening of the society and accomplishing its goal.

Any suggestions, announcements or other information may please be sent to me at [varshneyjg@gmail.com](mailto:varshneyjg@gmail.com).

Jay G. Varshney

## Notice

It has come to our knowledge that a group of few scientists like Dr. N.T. Yaduraju and Dr. Samunder Singh claim themselves as President and Secretary of ISWS. It is hereby informed to all concerned that their election is not approved by the general body. It is further informed that ISWS which is having its headquarters at DWSR, Jabalpur, is registered with the Registrar of Societies, Bangalore, and it is the only authorized body to work as per its mandate. Any other body claiming as ISWS is liable to attract the provisions of law of the land.

All communications regarding ISWS should be addressed to:

The Secretary, Indian Society of Weed Science, DWSR, Jabalpur 482004, M.P., India

Please click <http://isws.org.in> to access the Indian Society of Weed Science, Jabalpur.

## Introduction

The directorate which was earlier called National Research Centre for Weed Science (NRCWS) has been upgraded as Directorate of Weed Science Research (DWSR) from 23<sup>rd</sup> January, 2009. The directorate functions under the Natural Resources Management (NRM) division of Indian Council of Agricultural Research (ICAR), Department of Agricultural Research and Education (DARE), Ministry of Agriculture, Government of India. Director is the executive authority and also holds additional positions like the member of the Core group of Experts - Integrated National Biosecurity System, Government of India, and member of the Review Committee on Genetic Manipulations (RCGM).

The Directorate is the headquarters of the following important national programmes:

1. National Invasive Weed Surveillance Programme being carried at 265 districts of 10 states, viz. West Bengal, Orissa, Andhra Pradesh, Tamil Nadu, Kerala, Karnataka, Maharashtra, Gujarat, Madhya Pradesh and Chattisgarh.
2. 22 DWSR centres in State Agriculture Universities located at different regions of the country for conducting location specific research on weeds.
3. Indian Society of Weed Science (ISWS)

## Mandate of the directorate

- To undertake basic and applied researches for developing efficient weed management strategies in different agro-ecological zones;
- To provide leadership and co-ordinate the network research with State Agricultural Universities for generating location-specific technologies for weed management in different crops, cropping and farming systems;
- To act as a repository of information in weed science;
- To act as a centre for training on research methodologies in the areas of weed science and weed management;
- To collaborate with national and international agencies in achieving the above mentioned goal; and
- To provide consultancy on matters related to weed science.

## Ongoing research programmes

1. Herbicides as a tool in weed management.
2. Weed biology and eco-physiology.
3. Development and evaluation of integrated weed management techniques.
4. Development and evaluation of bio-herbicides for the eco-friendly management of weeds.
5. Techniques for transfer of developed technologies to the farming community.

## Externally funded research programmes

1. *National invasive weed surveillance programme, 2008-2010*, funded by DARE with a budget of Rs. 716.00 lakhs. PI: Dr. Jay G. Varshney.
2. *Compost production from weed biomass for the socio-economic development of rural people, 2008-2011*, funded by DST with a budget of Rs. 5.55 Lakhs. Co-PI: Dr. Shoba Sondhia.
3. *Precision farming technologies based on microprocessor and decision support systems for enhancing input application efficiency in production agriculture, 2008-2011*, funded by NAIP with a budget of Rs. 50.57 lakhs. Co-PIs: Dr. V. P. Singh and Dr. C. Kannan.

## Salient research findings from the DWSR Centres

1. Pre-emergence application of atrazine @1.0 kg/ha at 3 DAP combined with post-emergence spraying of 2,4-D Na salt @1.0 kg/ha + urea 1% + soap solution 1% at 70-75 DAP effectively controls *Striga asiatica* in sugarcane (**TNAU, Coimbatore**).
2. Application of metribuzin @0.5 kg/ha followed by one earthing up is highly effective in controlling weeds, getting higher productivity and net return in the maize+potato intercropping systems (**RAU, PUSA**).
3. Interculture and hand weeding at 20 & 40 DAS is highly effective in controlling weeds in okra under organic farming system (**AAU, Anand**).
4. Post emergence spray of metsulfuron methyl @4 g/ha at 30-35 DAS in wheat and post emergence application of 2,4-D EE @0.5 kg/ha at 20-25 DAS in bajra are effective to control all the seasonal weeds in wheat-bajra cropping system (**RAU, Bikaner**).
5. Dr. C. Chinnusamy and his associates from DWSR Centre, TNAU, Coimbatore, compiled the *Compendium on weed science research in Tamil Nadu (25 years) since 1982* wherein the research on weed science carried out at this

centre and as well as at the constituent colleges and research centres of TNAU. Crystallized weed management recommendations for different crops are enlisted and the relevant research findings of post graduate scholars of different colleges of TNAU are highlighted.



Dr. Jay G. Varshney, President, ISWS, releasing *Compendium on Weed Science Research in Tamil Nadu (25 years) since 1982*, edited by Dr. C. Chinnuswamy

## Glimpses of activities

### Model training on Recent Advances in Weed Management, Dec 29, 2008 to Jan 05, 2009



DWSR organized an eight-day Model Training Course on 'Recent Advances in Weed management', from 29 December 2008 to 5 January 2009, with the main objective to impart

knowledge on improved weed management technologies to the personnel of state departments of agriculture and horticulture. It was sponsored by Department of Agriculture and Cooperation (DAC), Ministry of Agriculture, Government of India, New Delhi. Scientists of the Centre as well as experts from JNKVV, Jabalpur, delivered lectures on various aspects of weed management. Field trips to nearby villages to show the performance and profitability of improved weed management technologies were also organized.

### Annual group meet of the DWSR centres, Feb 27-28, 2009, RAU, Bikaner



Annual group meeting of the DWSR centres was convened to review the progress of the ongoing activities of the centres. Principal investigators from different centres presented their research achievements during the review meeting. The results of the experiments in different centres were thoroughly reviewed. The meeting was inaugurated by Dr. Pratap Narayan, Vice Chancellor, RAU, Bikaner, Rajasthan. Dr. M.P Sahu, Director (Research), RAU, and Dr. Jay G. Varshney, Director, DWSR, were the guests of honour in the annual review meeting.



The review meeting came out with many concrete recommendations in the management of weeds and their effective utilization for the betterment of the mankind. It was also decided that no herbicide should be recommended for registration without sufficient data on residual toxicity and soil microbial properties. Further weed survey and surveillance may be carried out after bench mark survey and the change in weed shift should always be correlated with cropping pattern, herbicide use and climatic conditions. It was decided to properly maintain the weed survey record.

### Training programme on Protocols and Methodologies for Weed Survey and Surveillance, March 2-6, 2009



The training programme was organized at DWSR, Jabalpur to train the Surveillance Inspectors (SI's) and Senior Surveillance Inspectors (SSI's) appointed under the National Invasive Weed Surveillance (NIWS) Programme. The SI's and SSI's of OUAT (Bhubaneshwar), UAS (Dharwad), IGKVV (Raipur), MAU (Parbhani) and DWSR (Jabalpur) have participated in this training.

## State level interface meeting on Weed Management, Feb 25, 2009, MCCIA, Pune



The Marhatta chamber of commerce industries and agriculture (MCCIA), Pune, and Maharashtra chapter of ISWS, jointly conducted the one day interface meeting on “Weed management and use of weedicides in increasing crop productivity” at Pune on 25<sup>th</sup> February, 2009. Dr. Jay G.Varshney, Director, DWSR, was the chief guest of the function and he delivered the keynote address. In the interaction session that followed the meeting, he answered a volley of questions from the participants and convinced them about the importance of weed management in profitable agriculture and food security.

## Important Research Publications from the directorate

### Research Bulletins

1. Tillage and weed management
2. Soil solarization
3. Biological control of *Parthenium* using Mexican Beetle
4. Integrated weed management in rice under different ecologies
5. Methods for herbicide residue analysis in Soil, Water and Food chain
6. Weed management in tea
7. Biology and management of *Cuscuta*
8. Weed management in pulse based cropping systems
9. Weed utilization for vermicomposting

### Book

1. AICRP-WC Recommendations on Weed Management
2. Recent advances in Weed Management
3. Weed Management (Published by ICAR)
4. Littleseed Canary Grass-Agro-ecology and Management
5. Weeds that Heal
6. District-wise distribution of major weeds in India
7. Major invasive weeds of India
8. A Manual on Advances in Weed Management
9. गाजरघास का जैविक नियंत्रण—वर्तमान स्थिति एवं समन्वय



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## Recent publications

### Weed Atlas

#### District-wise distribution pattern of major weed flora in prominent crops (Volume-I and Volume-II)

Dr Anil Dixit, Sr. Scientist (Agronomy), DWSR, Jabalpur

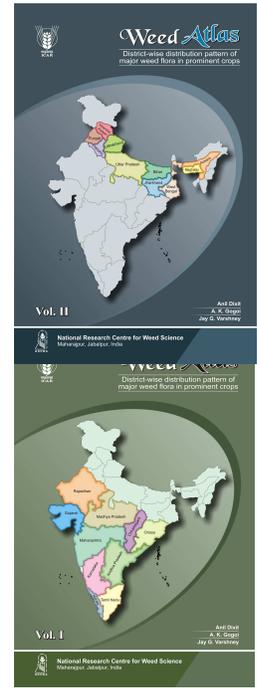
Dr A.K.Gogoi, ADG (Agronomy), ICAR, New Delhi

Dr Jay G. Varshney, Director, DWSR, Jabalpur

Published by: Directorate of Weed Science Research (ICAR), Jabalpur (M.P.)

Coloured maps: Vol. I-540 plates, Vol. II- 365 plates, Size; 36X24 cms

Price: Rs.4,500/-



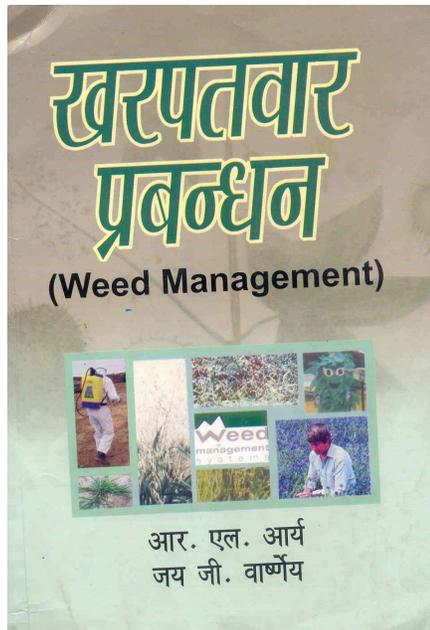
The book highlights the distribution of five major weeds in prominent crops and cropping systems, in all the districts under varied agro climatic conditions of the country. The distribution of weeds are super imposed in digitized maps of the districts.

**Volume-I** carries information pertaining to different states namely Andhra Pradesh, Chhattisgarh, Gujarat, Karnataka, Kerala, Madhya Pradesh, Maharashtra, Orissa, Rajasthan and Tamil Nadu.

**Volume-II** carries information about Assam, Bihar, Haryana, Himachal Pradesh, Jharkhand, Meghalaya, Punjab, Uttar Pradesh, Uttrakhand and West Bengal.

Photographs of important weeds are given as annexure in both the volumes. This book will be of immense use to the administrators, researchers, extension workers and farmers involved in weed management and farming activities.

### खरपतवार प्रबन्धन (Weed Management)



Dr. R.L. Arya

Sr. Scientist

Central Tobacco Research Centre,

Dinhata, Distt.- Kooch Bihar, West Bengal

Dr. Jay G. Varshney

Director

Directorate of Weed Science Research

Maharajpur, Adhartal, Jabalpur (MP)

इस पुस्तक "खरपतवार प्रबन्धन (**Weed Management**)" में प्रमुख खरपतवारों पर जानकारी खरपतवारों का वर्गीकरण, खरपतवारों का प्रकीर्णन, खरपतवार नियंत्रण, शाकनाशी रसायनों का वर्गीकरण, प्रमुख खरपतवारनाशी कुल तथा अणु संरचना, शाकनाशी रसायनों की क्रिया विधि, खरपतवार तथा विभिन्न संस्तुत शाकनाशी रसायन, पौध-शाकनाशी सम्बन्ध, शाकनाशी द्वारा चुनाव, पौध शाकनाशी रसायनों की दृढ़ता, शाकनाशी रसायनों का मृदा में प्रभाव, प्रभाववर्धक, विभिन्न फसलों में खरपतवार प्रबन्ध, प्रमुख खरपतवारों के लक्षण एवं उनका नियंत्रण, खरपतवारों के सामान्य अंग्रेजी, स्थानीय तथा वैज्ञानिक नाम, प्रमुख शाकनाशी रसायनों के सामान्य तथा व्यापारिक नाम आदि

विषयों पर विस्तृत जानकारी प्रदान की गई है।

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## ANNOUNCEMENTS

- NRCWS, Jabalpur has been upgraded to the status of Directorate and will henceforth be known as Directorate of Weed Science Research (DWSR) w.e.f 23<sup>rd</sup> January, 2009. Accordingly the AICRP centres will be called as DWSR centres.
- Dr Jay G. Varshney, Director DWSR is nominated as member in the Review Committee on Genetic Manipulations (RCGM) for a period of three years. The mandate of RCGM includes, to lay down procedures and bring out manuals of guidelines for regulatory process on GMOs and their related experiments, to review all the on-going r-DNA projects and experiments, to authorize imports of GMOs/ transgenes for research purposes, to undertake visits of experimental sites with projects of bio-hazard potentials and to ensure adequate safety measures as per the guidelines.
- Dr Jay G. Varshney, Director DWSR is nominated as a member in the Core group of Experts of the Integrated National Bio-security System, Ministry of Agriculture, Government of India, for finalizing various issues pertaining to national bio-security system in the country.

DWSR, Jabalpur, is the head quarters of Indian Society of Weed Science (ISWS). The society has published its journal "Indian Journal of Weed Science" Volume 40, number 1&2, January–June, 2008, from Jabalpur. Research papers for publication in the Journal may be sent to the following address:

**The Secretary, Indian Society of Weed Science, DWSR, Jabalpur 482 004,  
Madhya Pradesh.**

**Research papers for publication may also be sent through *email* at  
[iswsjbp@gmail.com](mailto:iswsjbp@gmail.com)**

### AWARD

Dr. S.K. Mukhopadhyay, a senior weed scientist of the country, has been conferred Doctor of Science (D.Sc.) *Honor's Cause* during XVII convocation of Bidhan Chandra Krishi Visva Vidyalaya, Kalyani, West Bengal on April 09, 2009. Dr. M.S. Swaminathan graced the occasion as chief guest. Dr. Mukhopadhyay, after formal retirement on February 29, 2001, was appointed Emeritus Professor life time by Vishva-Bharti University, a Central University founded by Nobel Laureate Rabindra Nath Tagore. He is perhaps the only agronomist in the country, who has this honour of life time appointment as Emeritus Professor.

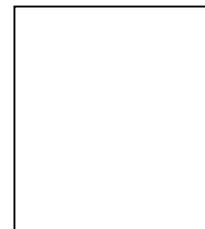
Dr. Mukhopadhyay was vice-chancellor of Visva-Bharati University in 1991 and again in 1995, and Dean (Agriculture) for 12 years and Head, department of agronomy for 8 years. At the present age of over 70 years, as Emeritus Professor, he attends his weed science laboratory at Sriniketan Institute of Agriculture (PSB). He is currently guiding a Ph.D. student on weed management in rice and also taking special classes on weed science and rice agronomy. He is appointed as guest professor at the Calcutta University to teach M.Sc. agronomy students and as an adviser on Jute Agricultural Project at Indian Jute Industries Association, Calcutta, with an honorarium of Rs.10,000/- per month.

Dr. Sisir K. Mukhopadhyay is a FELLOW and recipient of Gold Medal of both the Indian Society of Agronomy and Indian Society of Weed Science and served actively the societies as a life member in various capacities. We are proud of Dr. Mukhopadhyay for his outstanding achievements.

# To join the Indian Society of Weed Science (ISWS)

Please fill the particulars and print the form given below  
Send along with your subscription amount as detailed below

To,  
The Secretary  
Indian Society of Weed Science  
Directorate of Weed Science Research  
Maharajpur, Jabalpur – 482004, (M.P.), India



1. Title : .....
2. Name : .....
3. Designation : .....
4. Correspondence Address : .....
5. Permanent Address : .....
6. Telephone Number: Res.: .....Office: .....
7. Mobile Number : .....
8. E-mail : .....
9. Admission fee : Rs. 50/- US\$ 10
10. Membership Subscription (Kindly tick {√} which ever is applicable)

	India rates (in Rs.)	Foreign Rates (US\$)
<b>Individual (Life member)</b>	2000	200
<b>Individual (Annual)</b>	200	20
<b>Institutional Libraries</b>	1000	100
<b>Students affiliate</b>	100	-
<b>Sustaining Industries (Annual)</b>	15000	-

11. Amount paid : .....
12. Bank details : Bank Name .....
- Bank Address .....
- DD Number .....

Date:...../...../.....

Signature

Kindly send DD in Name of "Indian Society of Weed Science" Jabalpur (M.P.)

### **Minutes of the meeting of ISWS Executive along with special invitees held at NRC Weed Science, Jabalpur on 27<sup>th</sup> Dec.2008**

1. ISWS, Jabalpur is having its headquarter at NRC Weed Science, Jabalpur. Its executive is duly approved by an unprecedented record number of members. The present executive has the support of almost full majority of the active weed scientists in the country.
2. Its executive and bye laws are registered with the appropriate authority, which was not be done by the past executives for the last almost 25 years.
3. The society is not the personal property of an individual whether at Jabalpur or any other place.
4. Anyone who has the faith and belief in the rules and byelaws can become member of the executive by contesting the election, which is now due in the end of 2009. The process of election will begin sometime in the month of Sept-Oct.2009
5. There cannot be any compromise with the location of HQ of the ISWS at Jabalpur and its byelaws.
6. 5-10 members who are no more active weed scientists, have made a group declaring themselves as executive members of ISWS without the approval of any General body. Their act has been criticized by majority of members. The letters written by large number of members are available in the headquarters. If this trend is allowed to continue then every group of 5-10 members may declare themselves as ISWS.
7. These 5-10 members have collected large sum of money from the members, industry in the name of Director, NRC Weed Science, Jabalpur and kept unauthorized with them in their personal account. Arrangements may be made for collecting the same from them and depositing it in the official bank account of the society located at Jabalpur.
8. They have defamed the society taking the matter with President, International Weed Science Society and UK Weed Science Society and other large number of international organizations. How can the members have the faith in them?.
9. The senior members of ISWS are expected to give their views whether they want the things to continue in the society as happened in the last almost 25 years, as they could not even renew the registration of the society, kept the public money with them, unauthorized and run the society with their own group of people, ignoring the large numbers of members from south, west and east.
10. The present executive, in the last few months has been able to renew the registration of the ISWS, increased the strength of members by more than 50% and has enhanced the activities of society as apparent from bringing the National Invasive Weed Surveillance Programme spread over 10 states at district level.
11. The president and other executive members and other large number of members of the society in their meeting held on 27<sup>th</sup> Dec.2008 at its H.Q., has request all the senior members of the society to support the present official executive in their endeavor to smoothly run the society and discourage the so called factional group of 5-10 members who are harming the interests of the ISWS.

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#### **Future Events on weed front**

**Brain storming session on “Utilization of weeds for useful purposes” 16-17, June, 2009**

<http://www.nrcws.org>

**NIWS review meeting 13, July, 2009**

**Tamil Nadu Agricultural University, Coimbatore-3, Tamil Nadu**

<http://www.nrcws.org>

**National Symposium on “Weeds a threat to the environment, biodiversity and sustainable agriculture” 15-16, July, 2009. Tamil Nadu Agricultural University, Coimbatore-3, Tamil Nadu**

<http://www.nrcws.org>

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## Important sites related to weed science

<http://www.nrcws.org> – Apex organization for weed research in India

<http://www.weeds.iastate.edu/mgmt/qtr97-1/weedid.htm> - For information of weed identifications

[www.ewrs.org](http://www.ewrs.org) – European weed research society

<http://www.iwss.info/default.asp> -International weed science society

[http://www.weedcenter.org/management/weed\\_id.html](http://www.weedcenter.org/management/weed_id.html) - Centre for Invasive plant management

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The Approved Bye-laws of “INDIAN SOCIETY OF WEED SCIENCE”, H.Q. Jabalpur  
can be downloaded from the following link

<http://isws.org.in>

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### Executive Council of ISWS (2008-2009)

Chief Patron	:	Dr. Mangala Rai, Secretary, DARE and D.G., ICAR, New Delhi
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