

# Biennial Conference on Doubling Farmers' Income by 2022: The Role of Weed Science

1-3 March, 2017



## Organizers:

Indian Society of Weed Science  
ICAR-Directorate of Weed Research

## Venue:

Maharana Pratap University of Agriculture and Technology,  
Udaipur, Rajasthan

Website: <http://bc.isws.org.in>



## Conference theme

Hon'ble Prime Minister of India, Shri Narendra Modi has called for doubling farmers' income by 2022. At a conservative estimate, weeds account for an annual loss of over Rs 1,00,000 crores in agricultural production. In addition, there are indirect losses on account of nutrient drain by weeds, increased cost of crop production due to higher incidence of pests and diseases, harvesting and processing, and other agricultural operations. Weed control is becoming highly labour-intensive and accounting for 15-20% of the total cost of crop production. In addition, the efficiency of other production factors like fertilizer nutrients, irrigation water, tillage (energy), soil etc. is greatly influenced by weed management. Thus, integration of weed management with other crop husbandry practices would minimize the cost of cultivation and increase the income of the farmers through increased efficiency of resources. An integrated crop/weed management approach by harnessing positive interactions of soil-water-nutrients-tillage-weeds is required for achieving the highest productivity and profitability. Appropriate weed management has the potential for reducing the cost and increasing the income of the farmers significantly. This is essential to realize our Prime Minister's dream of doubling farmers' income by 2022, coinciding with Platinum Jubilee of India's independence.

Research work on weed management was initiated in our country with the inception of a coordinated scheme in principal crops like rice, wheat and sugarcane in 1952, which was further strengthened with the establishment of Indian Society of Weed Science in 1968 and All India Coordinated Research Project on Weed Control (AICRPWC) in 1978. Establishment of National Research Centre for Weed Science in 1989 at Jabalpur, its up gradation as Directorate of Weed Science Research (DWSR) in 2009 and subsequent renaming of DWSR as ICAR-Directorate of Weed Research (DWR) and AICRPWC as AICRP-Weed Management in November 2014 were the major steps undertaken for systematic research and

development programmes on weed management in a holistic manner through multi-disciplinary approach.

Despite adoption of weed management technologies, the weed problems are virtually increasing. This is due to negligence of certain traditional practices like intercropping, mulching and crop rotations involving legumes and continuous adoption of fixed cropping systems. Further, emerging concerns like development of herbicide resistance in weeds, growing menace of weedy rice, Parthenium, Orobanche and other alien invasive weeds due to several factors including globalization and liberalization are also responsible for increasing weed infestations. It is also believed that climate change, rising GHGs level and temperature also favour aggressive crop-weed competition as the weeds are better adapted than the crop plants, and can modify efficacy of natural biocontrol agents and applied herbicides. Weeds are dynamic in nature, requiring continuous monitoring and refinement of management technologies for alleviating their adverse effects on agricultural productivity and environmental health.

In order to address the emerging challenges and for doubling farmers' income over the next 7 years, the Biennial Conference of the Indian Society of Weed Science will be organized at Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan with a theme "Doubling Farmers' Income by 2022: The Role of Weed Science" and following sub-themes:

- Weed management in major crops and diversified cropping systems
- Weed management in conservation agriculture
- Harnessing weed-nutrient-water-tillage interactions
- Crop-weed interactions and management under changing climate
- Herbicide resistance and herbicide tolerant crops
- Biological weed management
- Herbicide residues and their mitigation

- Allelopathic interactions in weed management
- Invasive, parasitic and aquatic weed management
- Economics of weed management and impact assessment

### General information

Udaipur, formerly the capital of the Mewar Kingdom, is a historic city in the western Indian state of Rajasthan. Founded by Maharana Udai Singh II in 1559, it is set around a series of artificial lakes and known for its lavish royal residences. City Udaipur is known as the 'Venice of the East'. It is also called the 'City of Lakes'. The Lake Palace on Jag Niwas Island in the middle of Pichola Lake is the finest example of its architectural and cultural explosion. The grand City Palace on the banks of Pichola lake compliments the Monsoon Palace (Sajjan Garh) on the hill above. Other tourist attractions near Udaipur are: Kumbhalgarh, Ajmer, Chittorgarh, Mount Abu, Nathdwara temple, Delwada temple etc. Udaipur is also the centre for performing arts, craft and its famed miniature paintings. The city is well-connected by rail, road and air. The venue is about 2 km away from city railway station and bus stand, and about 21 km from airport. Warm clothing will be required at the time of Conference.

### Accommodation

Only limited accommodation is available in the University Guest House. Therefore, participants will be required to stay in hotels also. A wide range of accommodation is available at Udaipur ranging from budget hotels to 5-star hotels, costing from INR 1000 onwards.

### Call for papers

Invitation is extended to weed scientists and all those associated with weed management to share their achievements in research, ideas and experiences at this Conference. Leading scientists who have made outstanding contributions in the field of weed science will make presentations on emerging challenges in weed management, such as weed-risk analysis, climate change, herbicide-tolerant crops, conservation agriculture, herbicide resistance, herbicide residues and environmental concerns, problem weeds like

weedy rice, Parthenium, Orobanche, water hyacinth etc. Invited papers will be published in a special issue of the Indian Journal of Weed Science.

Extended Summary of contributory articles should be submitted as per the "guidelines for preparation of the extended summary" that are given in ISWS website: <http://bc.isws.org.in/>. Some articles will be selected for oral presentations, while others will be presented as posters as per prescribed format. Special sessions will be organized for students, communicating science, and interaction with farmers as well as herbicide industry.

All papers should be submitted on the website portal only. Contributory papers received before the due date along with the registration fee will be published in the form of Pre-Conference e-Proceedings.

#### Dates to remember:

Submission of Extended Summary
15 January, 2017

Notification of acceptance of papers
30 January, 2017

Registration without late fee
30 January, 2017

Category	Before due date
Members	₹ 4,000
Non-members	₹ 5,000
Member students	₹ 1,500
Non-member students	₹ 2,000
Industry representatives	₹ 10,000
Overseas participants	US \$ 250

Late fee of ₹ 500 and US \$ 50 will be charged extra after 30 January, 2017

Registration form is available on ISWS website: <http://bc.isws.org.in> Delegates are advised to fill-up registration form online only. Indian delegates can pay their registration fee online or through demand draft / pay order in favour of "Secretary, Indian Society of Weed Science", payable at Jabalpur, India. Foreign delegates may deposit registration fee through PayPal link available on the website.

## Awards (2014-2015)

Following awards have been instituted by the ISWS, for which, applications are invited from the life members:

**ISWS Life Time Achievement Award:** This award will be given in recognition of the work done by a retired scientist in the field of weed science during his/her life time.

**ISWS Gold Medal:** This recognition is meant for the ISWS Fellows who made outstanding contributions and achieved professional excellence in weed science.

**ISWS Fellow:** This recognition is for the life members who made significant contributions in the field of weed science

**Adusumilli Rama Rao Best Ph.D. Thesis Award:** This award is for excellent research work done for Ph.D. thesis in the field of weed science. Cash award of ₹ 5000/- and certificate will be given to the awardee.

**Dr. T.V. Muniyappa Young Scientist Award:** This award is given for young scientists (below 35 years) in the field of weed science. Cash award of ₹ 10,000/- and certificate are given to the awardees.

**ISWS Student Travel Award:** Actual train fare limited to 3rd AC train fare will be given to deserving students pursuing Ph.D. in weed science.

**ISWS Best Book Award:** For authored or edited book published in weed science.

**Best Poster Award:** For the best poster presented during the current Biennial Conference.

(For details of the awards, visit the website: [isws.org.in](http://isws.org.in). Last date for the receipt of applications is 31st December, 2016)

## Executive Committee, ISWS

- **Dr. N.T. Yaduraju**, President, ISWS & Former Director, ICAR-DWR, Jabalpur, Madhya Pradesh
- **Dr. C. Chinnusamy**, Vice President, ISWS & Professor, TNAU, Coimbatore, Tamil Nadu
- **Dr. R.K. Singh**, Vice President, ISWS & Professor, BHU, Varanasi, Uttar Pradesh
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## Local Organizing Committee

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