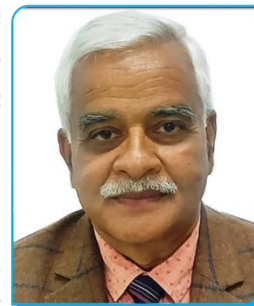


Message from President

Dear ISWS colleagues

Greetings!!!

I sincerely thank to all the esteemed members of the Indian Society of Weed Science (ISWS) for the opportunity to serve as the President of the Society for 2023-2025. It's my immense pleasure to welcome on board our newly elected EC members, Dr. M.K. Singh (Varanasi) & Dr. Anil Dixit (Raipur) as Vice-Presidents; Dr. R.P. Dubey (Jabalpur) as Secretary; Dr. D. Subramanyam (Guntur) & Dr. S.P. Singh (Pantnagar) as Jt. Secretaries, & Dr. P.K. Mukharjee (Jabalpur) as Treasurer and Dr. Sushil Kumar as Chief Editor, Indian Journal of Weed Science. They all are learned weed scientists. The Society will require their experience in future decisions related to scientific, administrative and policy matters. The Society have entrusted a big responsibility on us and we assure you that the new team will further accelerate the momentum generated in the past. We are an organization of volunteers and everyone's contributions are critical for our Society's success. It is our members that make the ISWS successful. It will be my great honour and pleasure to serve you the next two years along with the new EC members. Our past EC (Dr. Sushil Kumar, President; Dr. T.K. Das & Dr. C.R. Chinnamuthu, Vice Presidents; Dr. Mukesh Kumar & Dr. Murali Arthanari, Joint Secretaries; Dr. V.K. Choudhary, Treasurer and Dr A.N. Rao, Editor-in-Chief, IJWS deserves special thanks for their hard work and professional leadership. I wish them the very best.



After taking over the charge on 15th May 2023, the first meeting of the newly elected EC was held at the Directorate of Weed Research, Jabalpur on 16th May, 2023. While appreciating and acknowledging the all good works done by the outgoing EC, the present EC discussed in detail about the new challenges before us such as inclusion of weed science course in UG programme of the state agricultural universities, sensitizing and strengthening Councillors for organizing regular programmes for the various stakeholders of the region and increasing the number of ISWS life members, attracting foreign scientists/students to become member of the Society, increasing the NAAS rating of the IJWS, inclusion of the journal in the UGC care list, revision of score card and online system for ISWS awards, provision of ISWS fellowship for Ph.D. students, finalization of venue for the next biennial conference, etc. to make the Society activities more visible and transparent, and strategies for way forward. The Society has to play a major role in policy issues of the Government when it comes for the use/restrictions of herbicides in agriculture. So far, the herbicides are not included in the list of pesticides allowed to be sprayed by drone in India due to lack of sufficient research data on its efficacy, drifts, crop safety, environmental impacts, etc. The weed scientists and the herbicide industries have to play a major role in this direction. We as a weed scientist have to generate enough data on various aspects of herbicide as per the requirement of CIB & RC, so that the herbicides are also permitted, and the benefits of this technology could be harnessed by the Indian farmers and other stakeholders. Dr. Sushilkumar, has been unanimously elected as the Editor-in-Chief of the IJWS. We are confident that under his editorship, the quality of the journal, its overall visibility and NAAS rating will be improved further.

As we move forward, the weed science discipline may be shaped in future by new ideas and technologies along with new challenges. We hope that the Society will address the emerging challenges and become a reference point for the weed scientists, students, farmers, policy makers and beyond. Please do not hesitate to reach out to us, if you have questions/suggestions.



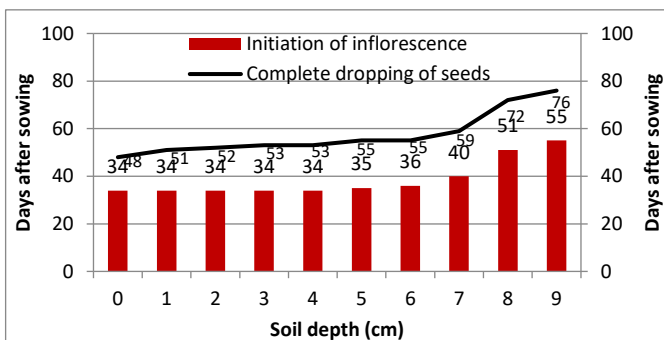
JS Mishra
President, ISWS

Research highlights

Influence of seed ecology on phenology of *Echinochloa colona*

P.K. Mukherjee and Sonali Singh, ICAR-DWR, Jabalpur

Seed ecology in terms of burial depth of seeds has the influence on germination, emergence and phenology of the weeds. *Echinochloa colona* plants initiated first inflorescence from 34 to 40 days after sowing (DAS) of seeds and complete dropping of seeds from all the inflorescences was recorded within 48 to 59 DAS in case of seedlings emerged from 0 to 7 cm soil depth. However, considerable delay in initiation of inflorescence from 51 to 55 DAS and complete dropping of seeds from all the inflorescences within 72 to 77 DAS were recorded from the *E. colona* plants emerged from 8 to 9 cm soil depth. Synchronization of inflorescence emergence and shorter duration from initiation of first inflorescence to complete dropping of seeds ranging from 14 to 19 days were recorded from the *E. colona* plants emerged from 0 to 7 cm soil depth. However, staggered emergence of inflorescence and longer duration from initiation of first inflorescence to complete dropping of seeds ranging from 21 to 22 days were recorded from the *E. colona* plants emerged from 8 to 9 cm soil depth. This finding revealed the seed rain of *E. colona* as per the burial depth of the seeds and therefore, targeted weed management strategies need to be developed to curtail seed rain from *E. colona* to the soil seedbank.



Organic weed management in Kharif Kodo millet (*Paspalum scrobiculatum*)

Gurubasava Swamy, UAS, Bengaluru

In labour scarcity areas, growing kodo millet under organic agriculture is challenging. Hence, different weed management practices were evaluated for effective weed management. It was observed that stale seedbed technique followed by inter cultivation twice at 25 and 45 DAS resulted in seed yield of 763.4 kg/ha with net returns of ₹ 28,373/ha and 2.34 of B:C.



Straw mulching 5 t/ha at 10-15 DAS



Kodo millet + fodder cowpea as intercrop /b inter cultivation at 30 DAS



Kodo millet + fodder cowpea as intercrop with in situ mulching at 35 DAS



Stale seedbed technique /b inter cultivation twice at 25 and 45 DAS

Herbicidal weed management in sesame (*Sesamum indicum*)

G. Dhanush, UAS, Bengaluru

Sesame, a very important minor oilseed crop grown during early *Kharif* is severely infested with weeds. Various herbicides were evaluated for effective weed management. Pendimethalin 30% EC 0.75 kg/ha as pre-emergence produced comparable yield (477.3 kg/ha) to hand weeding at 20 and 40 DAS (628 kg/ha), with no negative impact on crop growth, and recorded the lower weed index (24) with BC of 2.82.



Pendimethalin 30% EC 0.75 kg/ha (PE) Alachlor 50% EC 1.0 kg/ha (PE)



Unweeded control (weedy check)



Hand weeding 20 and 40 DAS

Allelopathic potential of *Alternanthera philoxeroides* extracts on water hyacinth

R.N. Ashwini, UAS, Bengaluru

Study was conducted to have a deeper insight of allelopathic potential of *Alternanthera philoxeroides* (Mart.) Griseb. against water hyacinth and also bioassay study on blackgram. Whole plant extract of *A. philoxeroides* at higher concentration (120 g/L), significantly reduced the fresh weight of water hyacinth both under pot and lake conditions. Bioassay study on use of aqueous extracts of different plant parts (stem, leaf, root, whole plant) at higher concentration (120 g/L) retarded the germination of blackgram. Evaluating the aqueous extracts of *A. philoxeroides* as pre-emergent and post-emergent bio-herbicide, in blackgram, significantly lower weed density (33 and 26 no./m², respectively) and weed biomass (19.2 and 2.15 g/m², respectively) was recorded in whole plant extract at 160 g/L.



Plate 1. Pot Experiment; 2. Whole plant 80 g/L of water (pot study.); 3. View of Lake experiment; 4. Whole plant at 120 g/L (Lake experiment); 5. Bioassay study on use of aqueous extracts on effect of germination in blackgram; 6. Aqueous extract of *A. philoxeroides* as pre-emergent herbicide in blackgram; 7. Aqueous extract of *A. philoxeroides* as post-emergent herbicide in blackgram

Herbicidal weed management in soybean (*Glycine max*)

Vikas Achari B. V., UAS, Bengaluru

In soybean, sulfentrazone 28% + clomazone 30% WP (RM) at 725 g/ha at 3 DAS recorded the highest weed control efficiency (86.5%) at 60 DAS with higher seed yield (1.91 t/ha), whereas, fluazifop -p- butyl 11.1% + fomesafen 11.1% SL at 250 g/ha (RM) as post-emergent obtained higher WCE (70.9%) at 60 DAS, seed yield (1.90 t/ha) and net returns.



Fluazifop-p-butyl 11.1% + fomesafen 11.1% SL 250 g/ha (PoE)



Sulfentrazone 28% + clomazone 30% WP (RM) 725 g/ha (PoE)



Untreated control

Ecofriendly management of submerged aquatic weeds (Hydrilla and Najas) in pond by liming (Calcium oxide)

P. Prameela and Savitha Antony

Aquatic weeds are menace in many waterbodies in Kerala and physical removal was the only option available. The liming technology developed by the AICRP Centre was demonstrated in a temple pond near the KAU campus, Thrissur (broadcast of fresh calcium oxide 8-15 g/L depending on the intensity of infestation). The total control of the weed helped in considerable saving of money which the temple authorities used to spend every year (Rs. 20,000-30,000 per year), apart from benefiting the devotees who uses the pond.



Before liming



After liming

Invasion of *Xanthium strumarium* in Kerala

P. Prameela and Savitha Antony, KAU, Thrissur

In Kerala, some of the wild life sanctuary and reservoir have been seriously invaded by *Xanthium strumarium* (Common cocklebur, Asteraceae) with a density from 80-120 plants/m². Due to the occurrence of this weed, the forest animals are not grazing these areas, which again favoured their luxuriant growth.



Xanthium strumarium incidence in Chimminney Wild Life Sanctuary, Kerala

Management of *Salvinia molesta* in rice ecosystem

P. Prameela and Savitha Antony, KAU, Thrissur

For management of invasive aquatic weed *Salvinia molesta* in transplanted rice, pre-mix application of cyhalofop-butyl + penoxsulam 0.15 kg/ha or butachlor + penoxsulam 0.82 kg/ha or florpyrauxifen-benzyl + cyhalofop-butyl 0.15 kg/ha along with a spreader/surfactant at 2 ml/L of spray fluid effectively controlled the weed when sprayed on the *Salvinia* mat at 20-25 days after transplanting (AICRP-WM, KAU, Thrissur).



Atrazine 500 g/ha (PE) /b topramezone 25.2 g/ha (PoE)

Krishak Sangoshthi on Safety measures while applying herbicides

Two *Krishak Sangoshthies* on “Safety measures while applying herbicides in the field crops” were conducted during February 2023 at farmer’s fields of Gwalior and Morena by AICRP on Weed Management, RVSKVV, Gwalior, Madhya Pradesh. Around 150 farmers and officials attended the programme. Dr. D.S. Sasode, Dr. Varsha Gupta, from AICRP-WM, Gwalior, Dr. R.P. Singh and Dr. B.S. Kasana, from KVK, Morena were associated in the programme. In the Sangoshthi, farmers were demonstrated and empowered about know-how of herbicide application techniques.



Unweeded control



One week after spraying of butachlor + penoxsulam at 820 g/ha

Weed and nutrient management in maize

V.V. Goud, PDKV, Akola

At PDKV Akola, in maize, application of 125% recommended dose of nitrogen (150 kg/ha) and potassium (75 kg/ha) in five splits (10, 20, 25, 25 and 20%) at 20 days interval through drip and phosphorous (75 kg/ha) as basal through soil application along with application of atrazine 500 g/ha (PE) /b topramezone 25.2 g/ha at 25 DAS provided higher grain yield, effective weed management and net returns.



Ph.D. and M.Sc. theses in Weed Science

Name	Name of chairmanship	Thesis title	University
Ph.D.			
Koushik Sar	Dr. B. Duary	Weed management in conservation agriculture-based rice-yellow sarson-green gram cropping system in lateritic soil of West Bengal	Institute of Agriculture, Visva-Bharati, Sriniketan, West Bengal
Uma Shankar Bagri	Dr. D.S. Sasode	Effect of post emergence herbicides in black wheat under Gird zone of Madhya Pradesh	College of Agriculture, RVSKVV Gwalior, Madhya Pradesh
M.Sc.			
Bipasa Roy	Dr. B. Duary	Studies on weed competitive ability of high yielding varieties and hybrids of mustard in lateritic soil of West Bengal	Institute of Agriculture, Visva-Bharati, Sriniketan, West Bengal
Sangati Harinath Reddy	Dr. B. Duary	Effect of seed priming on crop weed competition and performance of aerobic rice in lateritic soil of West Bengal	Institute of Agriculture, Visva-Bharati, Sriniketan, West Bengal
Ritu Aroliya	Dr. Varsha Gupta	Integrated weed management studies in potato (<i>Solanum tuberosum</i> L.) crop using straw mulch and metribuzin	College of Agriculture, RVSKVV Gwalior, Madhya Pradesh
Kanhaia Lal	Dr. Varsha Gupta	Integrated weed management studies in mustard crop (<i>Brassica juncea</i> L.)	College of Agriculture, RVSKVV Gwalior, Madhya Pradesh
Pranali Kotnake	Dr. V.V. Goud	Efficacy of different pre- and post-emergence herbicides on growth and yield of soybean	Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola, Maharashtra

Recently published articles in Indian Journal of Weed Science

Volume 54(4) 2022

- Rao AN. 2022. Weed management role in meeting the global food and nutrition security challenge. *Indian Journal of Weed Science* 54(4): 345-356.
- Chauhan Bhagirath S. 2022. Weed biology: An important science to develop effective weed management strategies. *Indian Journal of Weed Science* 54(4): 357-359.
- Shrestha Bharat Babu. 2022. Invasive alien weeds problem in South Asia: Challenges and prospects of their management. *Indian Journal of Weed Science* 54(4): 360-369.
- Singh MC, Chalam VC, Singh Dhruv, Sushilkumar and Gnansambandhan S. 2022. Risk associated with the weed seeds in imported grain. *Indian Journal of Weed Science* 54(4): 370-375.
- Mahajan G, Kumar Vivek and Chauhan BS. 2022. Biology and management of wild oat in Australia. *Indian Journal of Weed Science* 54(4): 376-388.
- Bhowmik Prasanta C. 2022. Bioavailability of allelochemicals in soil environment under climate change: Challenges and perspectives. *Indian Journal of Weed Science* 54(4): 389-396.
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- Choudhary VK, Dubey RP and Mishra JS. 2022. Weed management in oilseed crops- a review. *Indian Journal of Weed Science* 54(4): 411-420.
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Volume 55(1) 2023

- Gharde Yogita, Dubey RP, Singh PK, Sushilkumar, Jamaludheen A, Mishra JS and Gupta PK. 2023. Bibliographic analysis of modelling weed distribution and invasion with global perspective. *Indian Journal of Weed Science* 55(1): 1-12.
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- Veeraputhiran R. 2023. Integrated weed management in irrigated cotton under high density planting system. *Indian Journal of Weed Science* 55(1): 42-45.
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- Mohanty P, Sar K, Duary B and Mishra G. 2023. Effect of sole and ready-mix herbicides on weeds and productivity of summer greengram in Odisha. *Indian Journal of Weed Science* 55(1): 50-53.
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- Rani Reema, Baliyan Nikita, Mawlong Ibandalin, Sharma Ashok Kumar, Kumar Sujith, Kumar Arun and Rai PK. 2023. Molecular and morphological diagnosis of *Orobanche aegyptiaca* Pers. infestation in mustard fields. *Indian Journal of Weed Science* 55(1): 58-66.
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Welcome of new life members in Indian Society of Weed Science (Jan-June, 2023)

- | | |
|--|---|
| 1. Mr. Sonu Kumar Rai (LM-1486)
Krishi Vigyan Kendra, Manpur, Gaya, Bihar | 13. Mr. Nagendra Kumar Verma (LM-1498)
Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh |
| 2. Miss. Jakku Prasanna (LM-1487)
Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu | 14. Dr. Deldan Namgyal (LM-1499)
Krishi Vigyan Kendra-Leh, Ladakh |
| 3. Miss. S. Swetha (LM-1488)
Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu | 15. Mr. Manojkumar Dohat (LM-1500)
College of Agriculture, AAU, Vaso, Gujarat |
| 4. Mrs. Shaheen Naz (LM-1489)
Veer Kunwar Singh College of Agriculture, Buxar, Bihar | 16. Dr. Pratikkumar Panchal (LM-1501)
College of Agriculture, AAU, Vaso, Gujarat |
| 5. Dr. Punam Horo (LM-1490)
Birsa Agricultural University, Ranchi, Jharkhand | 17. Dr. Vishnudevi Sangeeviraman (LM-1502)
Annamalai University, Chidambaram, Tamil Nadu |
| 6. Dr. Birendra Kumar (LM-1491)
Bihar Agricultural University, Sabour, Bhagalpur, Bihar | 18. Mr. Lakhan Singh Mohaniya (LM-1503)
RVSKVV, Gwalior, Madhya Pradesh |
| 7. Dr. Teresa Alex (LM-1492)
Kerala Agricultural University, Thrissur, Kerala | 19. Mrs. Rashmi Rekha Borah (LM-1504)
Jorhat kendriya Mahavidyalaya, Jorhat, Assam |
| 8. Mr. Dhritiman Das (LM-1493)
Adamas University, Kolkata West Bengal | 20. Dr. Ipsita Kar (LM-1505)
Odisha University of Agriculture and Technology, Bhubaneswar, Odisha |
| 9. Dr. Vipulbhai Yogeshbhai Patel (LM-1494)
Anand Agricultural University, Anand, Gujarat | 21. Dr. Pabitra Adhikary (LM-1506)
Parganas Krishi Vigyan Kendra, Ashokenagar, West Bengal |
| 10. Dr. Sunita Uttamrao Pawar (LM-1495)
College of Agriculture, VNMKV Parbhani, Maharashtra | 22. Mr. Bhupesh Kumar Dhaka (LM-1507)
C.C.S. Haryana Agricultural University, Hisar, Haryana |
| 11. Mr. Pankaj Bhaskarrao Ghodke (LM-1496)
Punjab Agricultural University, Ludhiana, Punjab | 23. Miss. Prakriti Dhaka (LM-1508)
C.C.S. Haryana Agricultural University, Hisar, Haryana |
| 12. Miss. Monika Raghuwanshi (LM-1497)
Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur, Madhya Pradesh | 24. Dr. Mona Nagargade (LM-1509)
ICAR-Indian Agricultural Research Institute, New Delhi |

- | | |
|--|---|
| 25. Dr. Sagar Dhage S. (LM-1510)
University of Agricultural Sciences, Dharwad, Karnataka | 33. Miss. S. Karubakee (LM-1518)
Odisha University of Agriculture and Technology, Bhubaneswar, Odisha |
| 26. Dr. Archana H.A. (LM-1511)
SRM College of Agricultural Sciences, Chengalpattu, Tamil Nadu | 34. Mr. Sumit Sow (LM-1519)
Dr. Rajendra Prasad Central Agricultural University, Samastipur, Bihar |
| 27. Mr. Khoisnam Naveen (LM-1512)
SASRD Medziphema campus Nagaland University, Dimapur, Nagaland | 35. Miss. Shivani Ranjan (LM-1520)
Dr. Rajendra Prasad Central Agricultural University, Samastipur, Bihar |
| 28. Mr. Pem Thinley (LM-1513)
SASRD Medziphema campus Nagaland University, Dimapur, Nagaland | 36. Dr. Marimuthu S. (LM-1521)
SRM College of Agricultural Sciences, Chengalpattu, Tamil Nadu |
| 29. Mr. Khrawbor Dkhar (LM-1514)
SASRD Medziphema campus Nagaland University, Dimapur, Nagaland | 37. Mr. Ved Prakash (LM-1522)
Banaras Hindu University, Varanasi, Uttar Pradesh |
| 30. Miss. Deepika Bamal (LM-1515)
C.C.S. Haryana Agricultural University, Hisar, Haryana | 38. Dr. Bharat Babu Shrestha (LM-1523)
Tribhuvan University, Kathmandu, Nepal |
| 31. Dr. Jeyajothi R. (LM-1516)
SRM College of Agricultural Sciences, Chengalpattu, Tamil Nadu | 39. Mr. Kanhaiya Lal (LM-1524)
Dr RPCAU, Pusa, Samastipur, Bihar |
| 32. Miss. Naincy Rani (LM-1517)
C.C.S. Haryana Agricultural University, Hisar, Haryana | 40. Mr. Shravan Kumar Maurya (LM-1526)
CSAUA&T, Kanpur, Uttar Pradesh |

Upcoming events

- Weed Science School 2023 September 19-21, 2023 Bowley Plant Science Teaching Facility UC Davis
https://wric.ucdavis.edu/events/weed_science_school_2023.html
- The 28th APWSS Conference to be held at Phuket, Thailand during 26th to 29th November 2023
<https://www.apwss2023-phuket.com/>
- The California Weed Science Society Annual Conference January 24 –26, 2024 Santa Barbara Hilton Resort Santa Barbara, CA
<https://www.cwss.org/>
- EWRS Working Group meeting '*Physical and Cultural Weed Control*' Wageningen, The Netherlands, 27th to 29th of May 2024
- The 9th International Weed Science Congress (IWSC) will be held July 7-11, 2024, in Jerusalem, Israel
<https://www.iwsc2024.com/>

ISWS members are requested to contribute any major research finding as a news, awards obtained, Ph.D. obtained, forthcoming events on weed Science etc. to:

Dr. V.K. Choudhary

ISWS Newsletter Editor

Senior Scientist (Agronomy)

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