



Message from President

I express my profound gratitude to all of you for electing me the President of ISWS unanimously for this second term of the year 2021-22 to 2022-23. You also casted record vote in my favour during previous election for the term of 2019-20 to 2020-21. I am beholden for your confidence bestowed on me and consider it as a reward from you for my contributions towards the Society.



I extend my gratitude to Dr. Devraj Arya as a Returning Officer for conducting the Society's Election in unbiased and fair manner in the given time span. I am also very grateful to Dr. Shobha Sondhia, the immediate past Secretary to help the Returning Officer to update and provide all the possible help to him to conduct the elections in very smooth way.

I owe the gratitude of all my previous Executive Committee team members who worked with me shoulder to shoulder for the overall enhanced functioning of the society. We conducted many events besides organising a very memorable Biennial Conference in Goa during 5-7 February, 2020. We also started a series of Webinars from January 2021 in collaboration with ICAR-Directorate of Weed Research on important and current topics of weed science for the benefit of members of the society and other stakeholders as well. I must congratulate entire team of Editorial Board and reviewers of Indian Journal of Weed Science under the leadership of Dr. J.S. Mishra as Chief Editor for their quality inputs due to which there was an appreciable increase in the NAAS rating (5.84) of the Journal. You will also be delighted to know that more than 78 new colleagues have joined the Society during the period of 2020-21. You shall also find a significant improvement in ISWS website.

Newly elected Executive Committee has taken over the charge of the Society in a meeting held virtually on 27 April 2021 during this COVID-19 pandemic. I welcome all the fresh elected members for the next two years in the Society and hope that they all will contribute their best for the growth of the Society. Councillors recommended by the new EC for two years, representing almost each state of India have also joined and started activities related to the growth of weed science. Besides organising Webinar series in the year 2021, we also plan to organise a training course on Weed Science on virtual platform at National Level for the benefit of all the stakeholders in general and newly joined members to ISWS in particular. I request all of you to visit the ISWS website regularly to access the journals and many more information of your interest on weed science.

Please take utmost care during Covid-19 pandemic.

Wish you all the best in your endeavour in weed science and all aspects of life as well.

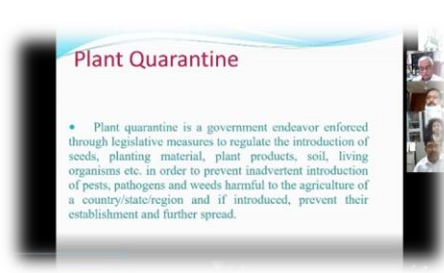
Happy reading.

Sushil Kumar

Webinar series organized by ISWS in collaboration with ICAR-DWR

Webinar	Date	Topic	Speaker	Chairman	Convener	Organizing Secretary
1 st Webinar	29 th January, 2021	Herbicide resistance in India: Problems and management	Dr. Samunder Singh President, International Weed Science Society and Retired Prof. & Head Agronomy, CCS HAU Hisar	Dr. J.S. Mishra, Secretary, ISWS & Director, ICAR-DWR, Jabalpur	Dr. Sushil Kumar, President, ISWS, Jabalpur	Dr. Shobha Sondhia, ISWS, Jabalpur
2 nd Webinar	25 th February, 2021	Weeds of national importance	Dr. Sushil Kumar, President, ISWS, ICAR-DWR, Jabalpur	Dr. J.S. Mishra, Secretary, ISWS & Director, ICAR-DWR, Jabalpur	Dr. Anil Kumar, Vice President, ISWS, Jammu	Dr. VSGR Naidu, Joint-Secretary, ISWS,
3 rd Webinar	23 rd March 2021	Quarantined weeds and weed risk analysis	Dr. Mool C. Singh, Pr. Scientist ICAR-NBPGR New Delhi	Dr. J.S. Mishra, Secretary, ISWS & Director, ICAR-DWR, Jabalpur	Dr. Sushil Kumar, President, ISWS, Jabalpur	Dr. Shobha Sondhia, ISWS, Jabalpur
4 th Webinar	30 th April, 2021	Alien invasive weeds in India: Threat to agriculture, biodiversity and environment	Dr. R.M. Kathiresan, Prof. of Agronomy, Annamalai University, Annamalai	Dr. Sushil Kumar, President, ISWS	Dr. T.K. Das, Professor & Pr. Scientist, ICAR-IARI, New Delhi	Dr. J.S. Mishra, Secretary, ISWS, Director, ICAR-DWR, Jabalpur
5 th Webinar	29 th May, 2021	Aquatic weeds: Problems and their management for improving water productivity	Dr. Sushil Kumar, President, ISWS, Jabalpur	Dr. S. Bhaskar, ADG (AAF&CC), ICAR, New Delhi	Dr. C.R. Chinnamuthu, Vice-President, ISWS, Coimbatore	Dr. J.S. Mishra, Secretary, ISWS & Director, ICAR-DWR, Jabalpur
6 th Webinar	22 nd June, 2021	Role of weed biology in weed management	Dr. Bhagirath S. Chauhan, Professor (Weed Science), School of Agriculture and Food Sciences, University of Queensland QAAFI, Queensland, Australia	Dr. R.K. Malik, Former President, ISWS	Dr. Sushil Kumar, President, Indian Society of Weed Science	Dr. J.S. Mishra, Secretary, ISWS & Director, ICAR-DWR, Jabalpur

Proceedings and video link: <https://www.isws.org.in/Webinar.aspx>



Meeting of the Executive Committee of ISWS

An online meeting of the members of the previous Executive Committee was held on January 2, 2021 to discuss of holding of Election of Society and other matters related to progress and activities of ISWS. (Proceedings of the meeting Link: https://www.isws.org.in/documents/EC_Meeting/Proceedings_ISWS_EC_online_meeting_02-01-2021.pdf)

The meeting of newly elected members of ISWS for the period 2021-2023 was held on April 27, 2021 in a virtual mode. At the start of the meeting 2-minute silence was observed in respect of the departed soul of Dr. Bhumesh Kumar, the immediate Vice-president, ISWS. The Previous EC members were felicitated and their overwhelming contributions in improving visibility of ISWS and the NAAS rating of IJWS were highlighted. (Proceedings of the meeting Link: [https://www.isws.org.in/documents/EC_Meeting/2021_27-04-2021_\(Zoom_Meeting\).pdf](https://www.isws.org.in/documents/EC_Meeting/2021_27-04-2021_(Zoom_Meeting).pdf))

The meeting of newly elected members of ISWS for the period 2021-2023 was held on May 10, 2021 in a virtual mode. Dr. B.S. Chauhan, an eminent weed scientist from Australia was the special invitee. The major objective of this meeting was to discuss the measures to improve the quality of IJWS and how to improve its impact. (Proceedings of the meeting Link: [https://www.isws.org.in/documents/EC_Meeting/2021_10-05-2021_\(Zoom_Meeting\).pdf](https://www.isws.org.in/documents/EC_Meeting/2021_10-05-2021_(Zoom_Meeting).pdf))

New Office Bearers of the ISWS

Elections were held during March 2021 to elect the new Executive Council (EC) of Indian Society of Weed Science (ISWS) for the term of 2021-22 to 2022-2023 for the positions of President, Vice President, Secretary, Joint Secretary and Treasurer. Dr. Dev Raj Arya, Returning Officer of the ISWS election has announced the results as: Dr. Sushil Kumar as President; Dr. T.K. Das and Dr C.R.

Chinnamuthu as Vice President; Dr. J.S. Mishra as Secretary, Dr. Mukesh Kumar and Dr. P. Murali Arthanari as Joint Secretary, Dr. V.K. Choudhary as Treasurer. During its first meeting, the EC of the Society co-opted Dr. A.N. Rao as Chief Editor. All of them took the charge of their respective positions and will hold the respective office during the term 2021-22 to 2022-2023.



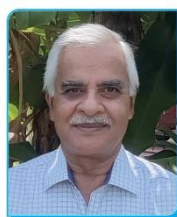
President
Dr. Sushil Kumar



Vice-President
Dr. T.K. Das



Vice-President
Dr. C.R. Chinnamuthu



Secretary
Dr. J.S. Mishra



Joint Secretary
Dr. Mukesh Kumar



Joint Secretary
Dr. P. Murali Arthanari



Treasurer
Dr. V.K. Choudhary

Councilors

Andaman & Nicobar	Dr. T. Subramani	Jammu & Kashmir	Dr. B.R. Bazaya	Pondicherry	Dr. Saravanane Pasoubady
Andhra Pradesh	Dr. D. Subramanyam	Jharkhand	Dr. Sheela Barla	Punjab	Dr. Tarundeep Kaur
Arunachal Pradesh	Dr. Punabati Heisnam	Karnataka	Dr. K.N. Geetha	Rajasthan	Dr. M.L. Mehriya
Assam	Dr. Kurmi Khagen	Kerala	Dr. Nimmy Jose	Sikkim	Dr. Manoj Kumar
Bihar	Dr. Rakesh Kumar	Ladakh	Dr. Vikas Gupta	Tamil Nadu	Dr. R. Veeraputhran
Chhattisgarh	Dr. Shrikant Chitale	Madhya Pradesh	Dr. Pramod Kumar Gupta	Telangana	Dr. M.D. Tuti
Delhi	Dr. Rishi Raj	Maharashtra	Prof. H.M. Patil	Tripura	Dr. Biman De
Goa	Dr. V. Paramesha	Meghalaya	Dr. Pankaj Baiswar	Uttarakhand	Dr. Arunima Paliwal
Gujarat	Dr. D.D. Patel	Mizoram	Dr. Jitendra Kumar Soni	Utter Pradesh	Dr. Manoj Kumar Singh
Haryana	Dr. Todar Mal Poonia	Nagaland	Dr. A.P. Singh	West Bengal	Dr. Bikas Mandal
Himachal Pradesh	Dr. Neelam Sharma	Odisha	Dr. Basudev Behera		

Honours and Awards

Dr. Bhagirath Singh Chauhan, Professor (Weed Science), School of Agriculture and Food Sciences, University of Queensland, QAAFI, Queensland, Australia has been awarded as a **Honorary Member of the Weed Science Society of America (WSSA)** in February 2021.



Professor Chauhan has published more than 350 articles in peer-reviewed journals and several books and book chapters. He is conducting research on weed biology and management. His specific interests are weed seed ecology, non-chemical weed management options, herbicide use, management of herbicide-resistant weeds, and integrated weed management using agronomic and varietal components.

Dr. C.M. Parihar, Senior Scientist, Division of Agronomy, ICAR-IARI, New Delhi-12, has been elected as a **Fellow of the National Academy of Agricultural Sciences (NAAS) 2021**. Dr. Parihar conducted comprehensive research on soil health and sustainable intensification of agriculture, and management of natural resources through conservation agriculture (CA). His research activities focused on the use of crop residue recycling for C-sequestration and thermal sensitivity of sequestered-C at elevated temperature along with GHGs emission from soil. Dr. Parihar validated the utility of the Nutrient Expert Decision Support tool to guide site-specific nutrient management (SSNM) and explored the potential of the various slow-release N fertilizer sources in maize-based cropping systems under CA. He has published over 65 research articles in some of the most prestigious peer reviewed journals.



Dr. Tushar Patel, ISWS Life member, has been awarded as "**Best Teacher-2020**" of Navsari Agricultural University by the Hon'ble Governor of Gujarat on the occasion of 16th Annual convocation held on February 9, 2021 at Navsari.



Dr. P. Murali Arthanari, Associate Professor (Agronomy) of TNAU has been bestowed with **young scientist award** under the category of Agricultural Sciences by the Department of Higher Education, Government of Tamil Nadu.



Dr. R.M. Kathiresan, Professor of Agronomy, Faculty of Agriculture, Annamalai University, Annamalai Nagar, Tamil Nadu has been nominated by the Hon'ble Governor, Tamil Nadu as a **member of the board of management of the Tamil Nadu Agricultural University** for a period of three years with effect from 29.06.2021.



The ISWS congratulate Dr R. M. Kathiresan, Dr. Bhagirath Singh Chauhan, Dr C.M. Parihar, Dr. Tushar Patel and Dr P. Murali Arthanari for their stupendous achievements.

Research highlight

Calotropis procera

Professor Bhagirath Chauhan has published a review on the overview of *Calotropis procera* with the team comprising Dr. A. Kaur, Dr. D. R. Batish and Dr. S. Kaur of Panjab University, Chandigarh, India. It is an evergreen, perennial shrub of the family Apocynaceae, mainly found in arid and semi-arid regions. Morphophysiological adaptations and the ability to tolerate various abiotic stresses enabled its naturalization beyond the introduced areas. Now, it is recognized as an obnoxious environmental weed in several parts of the world. In Australia, nearly 3.7 million hectares of drier areas, including rangelands and Savannahs, have been invaded by the plant. In this review, multiple aspects of *C. procera* have been discussed including its general characteristics, current and potential uses, and invasive tendencies.



(Kaur A, Batish DR, Kaur S, Chauhan BS (2021). An overview of the characteristics and potential of *Calotropis procera* from botanical, ecological, and economic perspectives. *Frontiers in Plant Science* 12)

<https://www.frontiersin.org/articles/10.3389/fpls.2021.690806/full>

Impact of rain on efficacy of pendimethalin in dry DSR

B. Duary and D. K. Jaiswal

Institute of Agriculture, Visva-Bharati, Sriniketan

DSR has documented several advantages over puddle transplanted rice (PTR). Despite its several advantages, there are some risks associated with DSR, which limit its wide-scale adoption and the possibility of attaining optimal grain yields. One of these risks is high weed pressure and that led to the need of sequential or mixed (pre-mix or tank mixed) application of herbicides for effective management of complex weed flora. Current options of effective pre-emergence herbicides are limited to only pendimethalin or oxadiargyl in dry DSR. Recent decision of discontinuation of

manufacturing oxadiargyl has further constricted the option. Experiments conducted in the lateritic belt of West Bengal showed that rainfall played a significant role in attributing selectivity of pendimethalin. Pendimethalin, which provides selectivity to crop by depth protection mechanism, reduced the germination of rice seeds and emergence of rice seedlings



Pendimethalin (PE) 1000 g/ha



Oxadiargyl (PE) 90 g/ha

in DSR when rainfall occurred within 2 hours of its application. Whereas, oxadiargyl facilitated greater selectivity to rice crop and ensured good crop establishment with weed-free condition during the initial developmental stages of rice. Reduced germination of rice seeds and emergence of rice seedlings resulted in 42.1 and 27% less plant population in pendimethalin treated plots in first year (2019) and second year (2020), respectively. The panicle emergence was also delayed by one week. Grain yield was reduced by 30.4% in 2019 and 13.0% in 2020. In 2019 amount of light rainfall was 3.1 mm on same day within 2 hours of application, 6.7 mm on second day and no rainfall on third and fourth day. In 2020, amount of rainfall was 22.9 mm on same day, 4.2 mm on second day and 17.1 mm on third day. Relatively higher amount of rainfall in second year might have resulted in leaching of pendimethalin to the deeper layer of soil and emerging seedlings have escaped the action of pendimethalin. Pre-emergence (PE) pendimethalin fb post-emergence (PoE) bispyribac sodium (1000 +25 g/ha) though recorded 97% total weed control efficiency (WCE), however, germination and seedling emergence of rice was also reduced due to rainfall. Whereas, PE oxadiargyl fb PoE bispyribac sodium (90+25 g/ha) with 95% WCE exhibited greater selectivity in rice even after rainfall within 2 hours of oxadiargyl application.

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

Kevizhalhou Kuotsu has successfully completed *Degree of Doctor of Philosophy* in the thesis entitled “*Response of rice to establishment and weed management methods under lowland rainfed condition of Nagaland*” under the chairmanship of Dr. A.P. Singh, Nagaland University, Lumami, Nagaland.

Subhaprada Dash has successfully completed *Degree of Doctor of Philosophy* in the thesis entitled “*Effect of tillage and weed management practices on direct seeded rice -wheat cropping system under red and lateritic soil of West Bengal*” under the chairmanship of Dr. B. Duary, Institute of Agriculture, Visva-Bharati, Sriniketan Birbhum 731236, West Bengal.

Sk. Naim Aktar has successfully completed *Degree of Master of Science* in the thesis entitled “*Weed management in dry seeded rice sown before and after irrigation*” under the chairmanship of Dr. B. Duary, Institute of Agriculture, Visva-Bharati, Sriniketan Birbhum 731236, West Bengal.

Thaimadam Girwani has successfully completed *Degree of Master of Science* in the thesis entitled “*Physiological response of transplanted rice (*Oryza sativa* L.) to selective pre- and post-emergence herbicides*” under the chairmanship of Dr. P. Murali Arthanari, Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu.

Recent published articles in Indian Journal of Weed Science

Volume 52(4) 2020

Recent advances in mitigation methods for herbicide residues in the soil

Neelam Sharma, Siddhartha Singh, and Shobha Sondhia

Chemical and non-chemical weed management effects on weed spectrum, yield and economics of direct-seeded rice in North-Western zone of Tamil Nadu

C. Sivakumar, M. Pandiyan N. Tamilselvan and A. Krishnaveni

Herbicide combinations and nitrogen scheduling for weed management and yield improvement in transplanted rice

S. Mohapatra, S.K. Tripathy and A.K. Mohanty

Leaf colour chart-based nitrogen and weed management impacts on weeds, yield and nutrient uptake in dry direct-seeded rice

K. Hemalatha, Yashwant Singh and Sunil Kumar

Yellow-green algae (*Vaucheria* sp.): A new weed reported in transplanted rice from the coastal Karnataka and its management

N.E. Naveen, U.B. Manjunatha, M. Dinesh Kumar, S.M. Jayaprakash and H.S. Chaitanya

Tillage and weed management effects on productivity of wheat under dry seeded rice-wheat system on lateritic soils of West Bengal

Subhaprada Dash and B. Duary

Weed management in wheat by pre-emergence and pre-mix post-emergence combinations of herbicides

J.P. Deshmukh, S.U. Kakade, S.S. Thakare and M.S. Solanke

Bio efficacy and phyto-toxicity of dicamba 48%SL against broad-leaved weeds in maize

V. Pratap Singh, Arya Kumar Sarvadamana, S.P. Singh and Tej Pratap

Pre- and post-emergence herbicides effect on weed dynamics, microbial population and yield of summer blackgram

Amit Mahajan, Anil Kumar, R. Puniya and Lobzang Stanzen

Weed seedbank dynamics: Estimation and management in groundnut

B.S. Gohil, R.K. Mathukia and V.V. Rupareliya

Weed management in spring planted sugarcane growing under West Bengal situations

Awindrila Mondal, Bikas Mandal, Ramyajit Mondal, Subhajit Banerjee and Kajal Sengupta

Weed management in non-cropped areas with pre-mix of indaziflam and glyphosate in Punjab

Navjyot Kaur, Renu Sethi and Makhan S. Bhullar

Residue dynamics and degradation behaviour of pyrazosulfuron-ethyl in the rice field environment

Shobha Sondhia and Uzma Waseem

Describing morphological characters of seedlings of some dicotyledonous weeds for their identification and management

Ayan Das and Parasuram Kamilya

Broad-spectrum weed management in wet-seeded rice by pre-mix herbicide combinations

J. Mounisha and Meera V. Menon

Effect of tillage, seed rate and nitrogen levels on weeds and yield of wheat

Soma Devi, S.P. Singh, R.S. Yadav, V.S. Rathore and H.R. Shivran

Glyphosate use in transgenic maize: Effect on weeds and crop productivity in North-Western Indo-Gangetic Plains of Haryana

Dharam Bir Yadav, Samar Singh, Ran Singh and Ashok Yadav

Impact of weed management on weed dynamics and yield of rainy (*Kharif*) crops

Mahaveer Prasad, R.S. Yadav and Bhawana Saharan

Performance of new herbicides in groundnut and their carryover effect on fodder sorghum

B. Naveen Kumar, D. Subramanyam, A.V. Nagavani, V. Umamahesh and G. Karuna Sagar

Allelopathic effect of *Lantana* and *Parthenium* on germination and growth of *Thespesia* tree species

P. Thiruppathi, M. Senthivelu and A.C. Surya Prabha

Invasion status of alien weeds in the historical Chobhar area of Kathmandu valley, Nepal

Lal B. Thapa, Ritu Deuba, Nirjan Oli, Uday Kumar Singh and Sanjay Kumar Jha

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Economic threshold concept for weed management in crops: Usefulness and limitation

T.K. Das, Suman Sen, Rishi Raj, Sonaka Ghosh, Biswaranjan Behera and Arkaprava Roy

Weeds as alternate and alternative hosts of crop pests

Sushil Kumar, Malay K. Bhowmick and Puja Ray

Sesbania, *Azolla* and herbicide use for weed management and optimizing yield in direct-seeded rice

Suryendra Singh, S. Elamathi, Gautam Ghosh and N.S. Abeyasingha

Weed dynamics, crop growth and yield as affected by different weed management practices and plant growth-promoting rhizobacteria in direct-seeded upland rice

Jimni Phukan and Jayanta Deka

Herbicide combinations for management of resistance in *Phalaris minor*

Jeetendra Kumar Soni, Amarjeet, S.S. Punia and V.K. Choudhary

Effect of post-emergence herbicides in chickpea

Indu Bala Sethi, Harphool Singh, Suresh Kumar, Mahesh Jajoria, Lokesh Kumar Jat, Niranjan Kumar Braod, Suresh Muralia and Hans Ram Mali

Bio-efficacy of weed management practices in rainfed potato

S.K. Yadav, T.K. Bag, A.K. Srivastava and V.P. Yadav

Germination ecology of heteromorphic seeds of bur clover

Renu Sethi and Navjyot Kaur

Dissipation kinetics and harvest time residues of pyrazosulfuron-ethyl + pretilachlor in rice

Ambily Paul and Thomas George

Farmers' knowledge level and constraints faced in the adoption of weed management technologies

Yogita Gharde and P.K. Singh

Efficacy of fenoxaprop-p-ethyl and penoxsulam for weed management with special emphasis on *Echinochloa* spp. in transplanted summer rice

Subhaprada Dash, B. Duary and K. Sar

In situ green manuring and herbicide on weed biomass, productivity and profitability of upland rice

Y. Basila, S. Anitha, Meera V. Menon, K. Sreelakshmi and V.I. Beena

Weed management in aerobic rice with sequential application of pendimethalin and bispyribac-sodium under coastal deltaic ecosystem

M. Pavithra, R. Poonguzhalan, A.L. Narayanan and P. Saravanane

Efficacy of pre- and post-emergence ready-mix herbicides in rainfed lowland wet-seeded rice

M.S.S. Reddy and M. Ameen

Performance of rice cultivars with weed management practices in dry direct-seeded rice

K. Pooja and P. Saravanane

Weed dynamics in pulses cultivated in summer-fallows of double cropped lowland rice fields of Northern Kerala

S. Adarsh and Jacob John

Assessment of bioefficacy of novel pyroxasulfone for controlling weeds in summer maize

R. Mohan Kumar, Yamanura and B. Boraiah

Performance of ready-mix herbicides for weed control in blackgram

N. Ram Mohan Reddy, D. Subramanyam, V. Sumathi, V. Umamahesh and G. Karuna Sagar

Bio-efficacy of new post-emergent herbicides on growth and yield of blackgram

S. Harisha, C. Seenappa, B.S. Lalitha, Gurnath Raddy and U. Pandu

Weed management in groundnut

Satyannarayan Regar, S.P. Singh, Hansraj Shivran, R.C. Bairwa, Vimal Khinchi

Effect of weed management treatments on growth and yield of tomato

M.P. Kavitha, M. Uma Maheswari, K. Krishna, G. Balaji, R. Yuavaraaj, R. Sachin and S. Kissan Kumar

Welcome of new life members in Indian Society of Weed Science (Jan-June, 2021)

- Dr. Dr. Ramdev Sutaliya** (LM-1307)
Agriculture University, Jodhpur
- Dr. Hari Singh** (LM-1308)
Krishi Vigyan Kendra Sirohi (AU Jodhpur)
- Dr. Santosh Kumar Chaudhary** (LM-1317)
Nalanda College of Horticulture, BAU, Sabour
- Dr. ARJUN TAYADE** (LM-1319)
ICAR-Sugarcane Breeding Institute, Coimbatore
- Dr. Naseeruddin Ramapuram** (LM-1320)
S.V. Agricultural College, Tirupati
- Dr. V.S. Susha** (LM-1321)
Kerala Agricultural University, Thiruvananthapuram
- Dr. Budigi Sandhya Rani** (LM-1322)
ANGRAU, Chittoor, Andhra Pradesh
- Dr. Sandeep Rawal** (LM-1323)
Ashoka Nursery, Kunjpura Road, Karnal
- Dr. Sanjay Kumar** (LM-1325)
ICAR-Indian Institute of Sugarcane Research, Lucknow
- Dr. Rajesh Kumar Singh** (LM-1326)
Banaras Hindu University, Varanasi
- Mr. Shiv Poojan Yadav** (LM-1327)
Banaras Hindu University, Varanasi
- Dr. P. Sudhakar** (LM-1328)
Faculty of Agriculture, Annamalai University, Tamil Nadu
- Mr. Navjot Singh Brar** (LM-1329)
Directorate of Extension Education, GADVASU Ludhiana
- Dr. V. Paramesha** (LM-1330)
ICAR-Central coastal Agricultural Research Institute, Goa
- Prof. Mirza Hasanuzzaman** (LM-1331)
Sher-e-Bangla Agricultural University, Dhaka, Bangladesh
- Dr. Subramani Thangavel** (LM-1332)
Central Island Agricultural Research Institute, Port Blair
- Dr. Manoj Kumar** (LM-1333)
Krishi Vigyan Kendra, Sikkim
- Dr. Mangal Deep Tuti** (LM-1334)
ICAR-Indian Institute of Rice Research, Hyderabad
- Miss. Sarita** (LM-1336)
College of Agriculture, Jodhpur AU, Jodhpur
- Dr. Debasree Saha** (LM-1337)
College of Agriculture Tripura, West Tripura
- Dr. Uma Nath Shukla** (LM-1338)
College of Agriculture, Jodhpur AU, Jodhpur
- Dr. Karthikeyan Ramasamy** (LM-1339)
Tamil Nadu Agricultural University, Coimbatore
- Dr. S.D. Sivakumar** (LM-1340)
Tamil Nadu Agricultural University, Coimbatore
- Mr. Sunil Kumar** (LM-1341)
CSA University of Agricultural & Technology, Bulandshar
- Dr. Pardeep Sagwal** (LM-1342)
International Rice Research Institute, Varanasi
- Miss. Isha Ahlawat** (LM-1343)
CCS Haryana Agricultural University Hisar

- | | | | |
|--|------------------|--|------------------|
| 27. Mr. Deepak Loura | (LM-1344) | 31. Mr. Badapmain Makdoh | (LM-1348) |
| CCS Haryana Agricultural University, Hisar | | ICAR Arunachal Pradesh centre Basar, Arunachal Pradesh | |
| 28. Miss. Vijay Laxmi Yadav | (LM-1345) | 32. Miss. Hillel M. Chishi | (LM-1349) |
| Rajasthan Agricultural Research Institute, Durgapura (SKNAU, Jobner) | | Deptt. of Agronomy SASRD Nagaland University, Dimapur | |
| 29. Mr. Ashirbaban Mahapatra | (LM-1346) | 33. Miss. Malem Hh | (LM-1350) |
| Indira Gandhi Krishi Vishwavidyalaya, Raipur | | Deptt. of Agronomy SASRD Nagaland University, Dimapur | |
| 30. Dr. C. Nagamani | (LM-1347) | | |
| S.V.Agricultural College, Tirupati | | | |

News and upcoming events

- The 9th Iranian Weed Science Congress, with the aim of "Extension of sustainable weed management, a step towards food security" will be held virtually from August 31 to September 1, 2021, by the Iranian Weed Science Society and the Deputy Minister of Education and Extension of the Agricultural Research, Education and Extension Organization in Tehran. (<http://9thiwsc.areeo.ac.ir/?lang=en>)
- Weed Science Society of Serbia will be organizing XI Weed Science Congress and Symposium on "Herbicides and Growth Regulators" to be held in the wonderful atmosphere of Lake Palić, during September 20-23, 2021. (<http://herboloskodrustvo.rs/en/xi-weed-science-congress>)
- International Weed Genomics Conference is hosting a weed genomics conference on September 22-24, 2021, in Kansas City, MO, with support from USDA-AFRI. The conference will be hybrid with in-person and virtual options, including hands-on training, keynote speakers, a poster session, and a workshop to prioritize weed genomics research objectives. (<https://www.weedgenomics.org/>)
- The Indian Society of Agronomy will be organizing Fifth International Agronomy Congress on "Agri-Innovations to Combat Food and Nutrition Challenges" at PJTSAU, Hyderabad, Telangana, India during November 23-27, 2021 through physical and virtual mode. (https://iac.isa-india.in/wp-content/uploads/2021/07/ISA-IAC-Second-Circular-Graphic-Designs_9.pdf)
- The 30th German working meeting on issues relating to weed biology and control (weed conference) will take place from February 22 -24, 2022 in Braunschweig. (<https://www.unkrauttagung.de>)
- The 62nd annual meeting of the Weed Science Society of America (WSSA) is scheduled to be held during February 21-24, 2022 at Vancouver, British Columbia, Canada, to be organized jointly by the WSSA and the Canadian Weed Science Society (CWSS). For more information about the meeting, please contact eric@imigroup.org.
- The European Weed Research Society (EWRS) will be hosting the 19th EWRS Symposium 2022 at Athens, Greece during June 20-23, 2022. (<https://ewrs2022.org/>)
- The Weed Management Society of South Australia (WMSSA), on behalf of The Council of Australasian Weed Societies (CAWS), will be hosting the 22nd Australasian Weeds Conference (22AWC) at Adelaide Oval during September 25-29, 2022. (<https://wmssa.org.au/22awc/>)
- Bioherbicides 2021: Overcoming the barriers to adoption of microbial bioherbicides to be held at Bari, Italy. As a consequence of the pandemics still severely affecting many countries all over the World, the event has been postponed to 2022. Information on the new dates for the event will be soon announced. (<https://bioherbicides2021.wordpress.com/>)
- Due to the recent spurt in COVID-19 case, the International Weed Science Society (IWSC) has decided to postpone the 8th International Weed Science Congress (IWSC 2020) with the theme "Weed Science in a Climate of Change" one more time to December 4-10, 2022. IWSC 2020 will be held at Marriott Marquis Queen's Park, Bangkok, Thailand. (<https://www.iwsc2020.com/>)

Obituary

It is with the profound grief to report the sudden demise of **Dr. Bhumesh Kumar** on April 16, 2021 at the age of 54. He has left wife and son behind him. Dr Bhumesh Kumar, born on 01 January 1967, received his Bachelor degree from Meerut University, Meerut, UP in the year 1987, M.Sc. degree from G B Pant University, Pantnagar in the year 1990 and Ph.D degree from CCS Haryana Agricultural University, Hisar in the year 1997. He started his career as Research Associate in the Department of Botany, CCS Haryana Agricultural University, Hisar from 1996 to 2004 and during this period he visited the Institute of Soil, Water and Environmental Sciences, ARO, Volcani Center, Israel for his research programme. He joined as Senior Scientist (Plant physiology) at ICAR-Directorate of Weed Research (DWR) in the year 2004 and served the institute (ICAR-DWR) at different capacities apart from the research programme like Member Secretary of RAC & IRC, Nodal Officer of AICRP on Weed Management, Member of Technical Programme Committee of 25th APWSS Conference, Member of organizing committee, ICAR Zonal sports meet etc. He received DWR Appreciation Award in the year 2013 and Best Worker Award for the year 2015-16. After serving ICAR-DWR he joined as Principal Scientist at ICAR-Indian Institute of Wheat and Barley Research, Karnal. He worked on Abiotic stresses and Crop-weed dynamics under climate change regime and published more than 80 research articles in peer-reviewed journals and several book chapters. Dr Bhumesh Kumar has wholeheartedly involved himself as Vice-President of ISWS till the last breath.



Condolence message

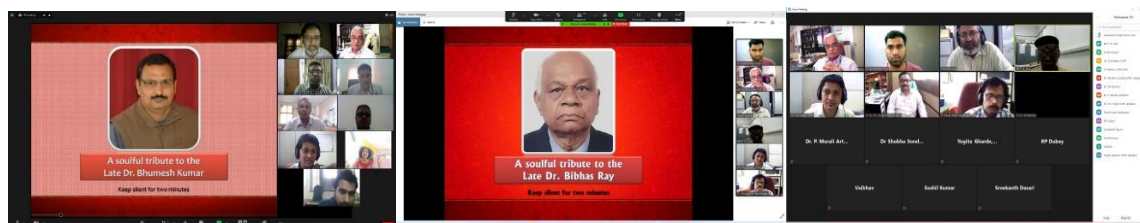
In this tragic moment, the entire ISWS family stands together in offering our heartfelt condolences to his family. His loss is irreplaceable and his memory shall always remain with us. In view of Covid-19 Pandemic, a virtual condolence meeting was conducted on 27 April, 2021 at 4.0 PM by observing two minutes of silence to give tribute to departed soul. In this meeting all the members of the Executive Committee of ISWS and scientists of Directorate of Weed Research, Jabalpur participated. We pray the Almighty to rest his soul in eternal peace and give strength to the bereaved family to bear this irreparable loss.

The entire Indian Society of Weed Science Family (ISWS) is shocked to hear the sudden demise of renowned weed scientist Dr. Bibhas Ray on 9th July 2021. He has left two sons behind him. Dr. Ray was not only the renowned weed scientist but he also contributed a lot in the development of Indian Society of Weed Science during the initial years of its establishment. Credit goes to Dr. Ray to design the official logo of ISWS. He served the society as Editor, ISWS Newsletter (1979-81); Editor-in-Chief, IJWS (1979-1981). He was awarded **ISWS Fellow in 1993-94**, and **Special Recognition Award** for the biennium 2014-15. He donated his precious collection of a vast volume of literature to DWR library including journals like Weed Science and Weed Research since 1965. The message of his unexpected departure has caused irreparable loss to weed Science. He will always be remembered for his immense contributions for weed science and ISWS.



Condolence message

In this tragic moment, the entire ISWS family stands together in offering our heartfelt condolences to his family. His loss is irreplaceable and his memory shall always remain with us. In view of Covid-19 Pandemic, a virtual condolence meeting was conducted on 12 July 2021 at 4.0 PM by observing two minutes silence to give tribute to departed soul. In this meeting all the members of Executive Committee of ISWS and scientists of Directorate of Weed Research, Jabalpur participated. We pray the Almighty to rest his soul in eternal peace and give strength to the bereaved family to bear this irreparable loss.



Editorial

Dear Reader,

First of all I pay my deepest heartfelt condolences on the sad demise of Dr. Bibhas Ray. He was considered as one of the renowned weed science specialists and contributions to promote herbicide use in Indian Agriculture in earlier days are well recognized. He has been instrumental in grooming ISWS and created opportunities to embrace ISWS at National and International levels. With the profound grief it is highly unfortunate to accept the fact that we have lost our immediate Vice-President Dr Bhumesh Kumar at the age of 54. Till his last breath he made enormous contributions to our Society. I pray Almighty God to give enough strength to their family to overcome these tragedies.



I am in privilege to request you to provide your activities as news item/short article on monitoring weeds under climate change scenario, invasion of alien weeds, aquatic and parasitic weeds, innovation or improvisation of mechanical tools/machines for weed control, degree awarded in the field of weed science under your supervision, events conducted (webinar) on Weed Science, research activities on new herbicides, award received *etc* for the next upcoming issues of ISWS NEWSLETTER.

Last but not least I express my sincere thanks to all the members who contributed for the issue of newsletter.

Pijush Kanti Mukherjee
Editor

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. Pijush Kanti Mukherjee

Principal Scientist (Agronomy); ISWS Newsletter Editor

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