

## Tentative Programme

# 3<sup>rd</sup> International Weed Conference

*Weed problems and management challenges: Future perspectives*  
 20-23 December, 2022, Anand Agriculture University, Anand, Gujarat, India

Tuesday, December 20, 2022

Venue: Main Hall | 20<sup>th</sup> December

9:30-11:00	<b>Inaugural session</b> Welcome address: Presidential address: Convenor, 3 <sup>rd</sup> IWC Release of books by dignitaries: ISWS Award announcement by Secretary, ISWS Address by Local Organizing Chairman, 3 <sup>rd</sup> IWC Address by: <b>Guest of Honour</b> Address by <b>Chief Guests</b> Vote of thanks: Local organizing Secretary, 3 <sup>rd</sup> IWC
11:00-11:30	<b>High Tea</b>
11:30-13:45	Chairman: <b>Dr KB Kathiria</b> Co-chairman: <b>Dr C Chinnamuthu</b> Rapporteur: <b>Dr VK Choudhary &amp; Dr P Murali Arthanari</b>  <b>Dr T Mohapatra</b> <span style="background-color: #FFD700;">Keynote Lecture</span> <i>Ensuring Food Security at Global Level: Role of Weed Science</i> <b>Dr Prasanta Bhowmik</b> <span style="background-color: #FF8C00;">Plenary</span> <i>Bioavailability of allelochemicals in soil environment under climate change: Challenges and Perspectives</i> <b>Dr Yoshiharu FUJII</b> <span style="background-color: #FF8C00;">Plenary</span> <i>Allelopathy utilization for weed control: Challenges and perspectives</i>  Discussion and concluding remarks by Chair
13:45- 14:30	<b>Lunch/Posters</b>

### TEC HNICAL SESSIONS (Concurrent Sessions in MH, Hall 1 and 2)

Venue: Main Hall | 20<sup>th</sup> December

14:30 -17:30	<b>TECHNICAL SESSION 1: New ways to deal with weeds, i.e. new technologies</b> Chair: <b>Dr BS Chauhan</b> Rapporteur: <b>Dr Todar Mal Poonia &amp; Dr Fayaz Ahmed Bahar</b>  <b>Dr Muthu Bagavathiannan</b> <span style="background-color: #8B0000; color: white;">Lead</span> <i>Application of digital technologies for weed detection and precision management</i> <b>Dr Aviraj Datta</b> <span style="background-color: #8B0000; color: white;">Lead</span> <i>Monitoring of water hyacinth spread using remote sensing techniques: Challenges and future developments</i> <b>Dr Doddaga Subramanyam</b> <span style="background-color: #4169E1; color: white;">Invited Oral</span> <i>Plant water extracts for organic weed management in groundnut</i>  <b>Dr Satya Prakash Kumar</b> <span style="background-color: #32CD32;">Oral</span> <i>Robotic concept derived fuzzy logic based inter cum intra row weeder for wider row crops</i> <b>Dr CR Chethan</b> <span style="background-color: #32CD32;">Oral</span> <i>Sensor based pre-emergence herbicide application system for seed drills and planters</i> <b>Mr Purushottam Gyawali</b> <span style="background-color: #32CD32;">Oral</span> <i>WEEDS: A Decision Support System (DSS) for guiding integrated weed management across multiple regions</i> <b>Dr VS Susha</b> <span style="background-color: #32CD32;">Oral</span> <i>Allelopathy-based biosynthesized silver nanoparticles for the management of water hyacinth</i>
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**Dr Ajay Kumar Roul** Oral

*A high-clearance self-propelled machine for simultaneous intra-chemical and inter-mechanical weeding in tall field crops: Development and evaluation*

**Dr Nitin Gudadhe** Oral

*Nano Atrazine synthesis and application for ecofriendly weed control in maize*

**Dr Marimuthu Subramanian** Oral

*Microencapsulation of Pyrazosulfuron-ethyl and Diclosulam in polymeric systems for prolonged and improved weed control efficiency*

**Mrs Justina Michael** Oral

*Artificial intelligence based WeedBot for weed identification and removal in dense fields*

**Miss N Swathika** Oral

*Nanoformulation of Eucalyptus citriodora essential oil for the control of weeds*

Discussion and concluding remarks by Chair

**Venue: Hall 1 | 20<sup>th</sup> December**

14:30 -17:30

## TECHNICAL SESSION 2: Weed management in cereals-based cropping system

Chair: **Dr Virender Kumar**

Rapporteur: **Dr Debika Nongmaithem & Dr Ramphool Puniya**

**Dr TK Das** Lead

*Weed management in conservation agriculture: Challenges and perspective*

**Dr Udai Pratap Singh** Lead

*Can Conservation Agriculture Practices help in Sustainable Weed Management??*

**Dr Mewa Lal Kewat** Oral

*Bio-efficacy of Carfentrazone ethyl 40% DF against broad leaved weeds in wheat and their residual effect on succeeding soybean*

**Dr Simerjeet Kaur** Oral

*Drip irrigation and mulching reduces weed interference in spring maize*

**Dr Kiran Jadhav** Oral

*Response of weed management on growth, yield and yield attributes of Kharif maize*

**Dr B Sandhya Rani** Oral

*Weed indices and yield of maize as influenced by different weed management practices*

**Dr Prabu Kumar Ganasekaran** Oral

*Effect of pre- and post-emergence herbicides on control of weeds in irrigated maize*

**Dr Senthivelu Muniyandi** Oral

*Optimizing pre-emergence herbicide dose, methods and time of post-emergence weed management practices for maximizing irrigated maize productivity*

**Dr S Manimaran** Oral

*Evaluation of different weed management practices on yield attributes and yield of maize*

**Mr N Prem Kumar** Oral

*Mateno Duo TM – A novel herbicide for wheat growers of India to manage hard to kill weeds*

**Dr Dasari Sreekanth** Oral

*Impact of drought stress on herbicide efficacy and biochemical traits of wheat*

**Dr Sonaka Ghosh** Oral

*Weed interference and crop yield under a conservation agriculture-based maize-wheat-mungbean system*

**Dr Swapnil Deshmukh** Oral

*Ensuing economic benefits through use of different weed management treatments in Rabi sorghum- greengram*

**Dr Muni Pratap Sahu** Oral

*Tillage and weed management practices on weed prevalence, crop productivity and economics in maize under maize-chickpea-greengram cropping system*

**Mr Ayan Sarkar** Oral

*Effect of herbicide mixtures and nano-urea on weeds and productivity of wheat*

**Dr Ramanpreet Kaur** Oral

*Weed dynamics and management in wheat in relation with different sowing times and rice residue management systems*

**Mr Deepak Loura** Oral

*Integrated Weed Management in Wheat*

Discussion and concluding remarks by Chair

**Venue: Hall 2 | 20<sup>th</sup> December**

14:30 -17:30

## TECHNICAL SESSION 3: Weed management in oilseeds and vegetable crops

	<p>Chair: <b>Dr TV Ramchandra Prasad</b>                  Rapporteur: <b>Dr Rakesh Kumar &amp; Dr Deepak Pawar</b></p> <p><b>Dr DD Patel</b> <span style="background-color: #c00000; color: white; padding: 2px;">Lead</span>  <i>Weed management in Vegetable crops: problems and perspectives</i></p> <p><b>Dr Arvind Verma</b> <span style="background-color: #0070c0; color: white; padding: 2px;">Invited Oral</span>  <i>Efficacy of different weed management practices on weed control and yield of Kharif groundnut</i></p> <p><b>Dr B Duary</b> <span style="background-color: #0070c0; color: white; padding: 2px;">Invited Oral</span>  <i>Long term effect of tillage and weed management on weed dynamics and productivity of yellow sarson and greengram under direct seeded rice-yellow sarson -greengram cropping system</i></p> <p><b>Dr JA Hosmath</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Post emergence application of Imazethapyr 10 SL on soybean and its residual toxicity effect on performance of succeeding crops in transitional tract of Dharwad, Karnataka</i></p> <p><b>Dr Rabiratna Dash</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Integrated Weed management in Indian mustard</i></p> <p><b>Dr Tushar Thorat</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Effect of integrated weed management practices on growth and yield of mustard</i></p> <p><b>Dr Samatha Parameswari Yasa</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Effect of Different Weed Management Practices on Yield and Economics of Mustard</i></p> <p><b>Dr Selvakumar Thambiyannan</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Evaluation of chemical cum mechanical weed Management – A way to reduce chemical usage in sunflower</i></p> <p><b>Miss Kimdeiting Haokip</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Effect of integrated weed management and organic manures in sunflower</i></p> <p><b>Dr Sanjeevraddi Reddi</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Evaluation of bio-efficacy of different herbicides on weeds and their impact on fresh fruit bunch (FFB) yield of oil palm</i></p> <p><b>Dr VJ Patel</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Management of complex weed flora in onion</i></p> <p><b>Dr Ramanjit Kaur</b> <span style="background-color: #909000; color: white; padding: 2px;">Oral</span>  <i>Effect of different weed management options in vegetable pea</i></p> <p><b>Dr. Raghwendra Singh</b>  <i>Weed management under conservation agriculture in vegetable-based cropping system</i></p> <p>Discussion and concluding remarks by Chair</p>
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17:30-18:00 **POSTERS/Tea**

18:00 -19:00 **General Body Meeting of ISWS**

19:00 -21:00 **Gala dinner** (Sponsored by AAU, Anand)

**Wednesday, December 21, 2022**

**Venue: Main Hall | 21<sup>st</sup> December**

09:30-11:00	<p>Chair: <b>Dr NT Yaduraju</b>                  Co-Chair: <b>Dr TK Das</b>                  Rapporteur: <b>Dr PK Mukherjee &amp; Dr Malay K Bhowmick</b></p> <p><b>Dr RK Malik</b> <span style="background-color: #e67e22; color: white; padding: 2px;">Plenary</span>  <i>Sustainable weed management in rice-wheat systems: Myth and reality</i></p> <p><b>Dr Shoumo Mitra</b> <span style="background-color: #e67e22; color: white; padding: 2px;">Plenary</span>  <i>Current herbicide development scenario: Need to launch reduced risk herbicides</i></p>
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11:00-11:15 **POSTERS/Tea**

**TECHNICAL SESSIONS (Concurrent Sessions in MH, Hall 1 and 2)**

**Venue: Main Hall | 21<sup>st</sup> December**

11:15 -13:15	<p><b>TECHNICAL SESSION 4: Herbicide residues, monitoring, mitigation and effect on non-target organisms in weed management</b></p> <p>Chair: <b>Dr Samunder Singh</b>                  Rapporteur: <b>Dr Yogita Gharde &amp; Dr Mini Abraham</b></p> <p><b>Dr A Ramesh</b> <span style="background-color: #c00000; color: white; padding: 2px;">Lead</span>  <i>Herbicides residues in soil, water and plants: Mitigation challenges and the future perspectives</i></p>
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	<p><b>Dr Neelam Sharma</b> <span style="background-color: #ADD8E6; padding: 2px;">Invited Oral</span>  <i>Pesticide residue analysis challenges: An overview</i></p> <p><b>Dr P Janaki</b> <span style="background-color: #ADD8E6; padding: 2px;">Invited Oral</span>  <i>Determination of ready-mix herbicides residue in soybean cultivated tropical inceptisol</i></p> <p><b>Dr P Sudhakar</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Impact of post-emergence herbicides on soil micro flora In transplanted rice</i></p> <p><b>Dr Kaberi Mahanta</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Bioremediation of Pretilachlor by bacterial consortia from polluted soils of Assam</i></p> <p><b>Dr Kaushikkumar Parmar</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Residues and persistence of pendimethalin 38.7% CS in chickpea</i></p> <p><b>Dr Dibakar Roy</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Effect of herbicide on soil biochemical properties under varying level of crop, nutrient and herbicide dose in wheat under vertisols of Central India</i></p> <p><b>Dr Nitesh Litoriya</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Residue status of diclosulam 84% WG in soybean</i></p> <p><b>Miss Annu Kumari</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Cereal rye residue effects on the germination of troublesome weeds in the Southern United States</i></p> <p><b>Mr Navjot Brar</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Weed dynamics and atraine residue in green fodder and silage of spring maize (Zea mays L.) grown under different cropping systems in north-west India</i></p> <p><b>Mr NR Chauhan</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Residue status of pre-emergence application of pendimethalin in cumin and soil of bhal region of middle Gujarat</i></p> <p>Discussion and concluding remarks by Chair</p>
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**Venue: Hall 1 | 21<sup>st</sup> December**

11:15 -13:15	<p><b>TECHNICAL SESSION 5: Non-chemical weed management including biological control</b></p> <p>Chair: <b>Dr Mahesh K Upadhayaya</b>          Rapporteur: <b>Dr CR Chethan &amp; Dr Rishi Raj</b></p> <p><b>Dr RK Ghosh</b> <span style="background-color: #8B0000; color: white; padding: 2px;">Lead</span>  <i>Botanical herbicides for eco-friendly weed management and sustainability of smallholder farming</i></p> <p><b>Dr Ajay Kumar Singh</b> <span style="background-color: #8B0000; color: white; padding: 2px;">Lead</span>  <i>Bio efficacy of mycoherbicides against alien invasive weeds Parthenium, Lantana and Water hyacinth: Commercialization perspectives</i></p> <p><b>Dr Ravikant R Upasani</b> <span style="background-color: #ADD8E6; padding: 2px;">Invited Oral</span>  <i>Weed Management in Organic Farming – A Review</i></p> <p><b>Dr Shailendra Pratap Singh</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Weed management under organic production system of rice-vegetable pea-sweet corn cropping system</i></p> <p><b>Dr Bhimireddy Padmaja</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Mulch based weed management strategies in organic baby Corn-Cabbage cropping system</i></p> <p><b>Dr Asha Chavan</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Weed management in soybean-gram sequence in organic production under irrigated condition</i></p> <p><b>Mr Kiran Emmiganur</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>Evaluation of phyto-extracts for weed management in sweet corn under organic production</i></p> <p><b>Dr Writuparna Dutta</b> <span style="background-color: #90EE90; padding: 2px;">Oral</span>  <i>The mycobiota associated with the weed water hyacinth Pontederia crassipes in Kolkata, India, with prominence on biological control of the macrophyte</i></p> <p>Discussion and concluding remarks by Chair</p>
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**Venue: Hall 2 | 21<sup>st</sup> December**

11:15 -13:15	<p><b>TECHNICAL SESSION 6: Weed management in pulses</b></p> <p>Chair: <b>Dr LS Brar</b>          Rapporteur: <b>Dr Simerjeet Kaur &amp; Dr Sheela Barla</b></p> <p><b>Dr Narendra Kumar</b> <span style="background-color: #8B0000; color: white; padding: 2px;">Lead</span>  <i>Weed management in pulse crops: challenges and opportunities</i></p> <p><b>Dr Dinesh Sah</b> <span style="background-color: #ADD8E6; padding: 2px;">Invited Oral</span>  <i>Weed dynamics, weed control efficiency, yield attributes and yields of chickpea in response to pre- and post-</i></p>
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	<p><i>emergence application of herbicides</i></p> <p><b>Dr Tej Pratap</b> <span>Invited Oral</span></p> <p><i>Post-emergence herbicides for weed management in greengram</i></p> <p><b>Dr ML Mehriya</b> <span>Oral</span>  <i>Response of weed dynamics, growth and yield of mungbean to different post-emergence herbicides</i></p> <p><b>Dr Lanunola Tzudir</b> <span>Oral</span>  <i>Effect of integrated weed management on weed dynamics in blackgram</i></p> <p><b>Dr Indubhushan Pandey</b> <span>Oral</span>  <i>Effect of integrated weed management practices on weed dynamics and productivity of long duration pigeonpea</i></p> <p><b>Dr Ananda N</b> <span>Oral</span>  <i>Weed management in pigeonpea + greengram cropping system</i></p> <p><b>Dr BS Gohil</b> <span>Oral</span>  <i>Weed Management for major rabi crops (Wheat, chickpea and coriander) of Saurashtra Region-Gujarat</i></p> <p><b>Dr. Md. Omar Ali</b> <span>Oral</span>  <i>Selection of herbicides on weed control in greengram cultivation in Bangladesh</i></p> <p>Discussion and concluding remarks by Chair</p>
13:15- 14:00	<b>Lunch/Posters</b>
<b>Venue: Main Hall   21<sup>st</sup> December</b>	
14:00-15:30	<p>Chair: <b>Dr RK Malik</b></p> <p>Co-Chair: <b>Dr RK Ghosh</b></p> <p>Rapporteur: <b>Dr Mukesh Kumar &amp; Dr P Saravanane</b></p> <p><b>Dr RM Kathiresan</b> <span>Plenary</span>  <i>Increasing problems of alien invasive weeds in the world: Management challenges and future perspectives</i></p> <p><b>Dr BS Chauhan</b> <span>Plenary</span>  <i>Weed biology and ecology: an important science to make strategies for weed management</i></p>
15:30-15:45	<b>POSTERS/Tea</b>
<b>TECHNICAL SESSIONS (Concurrent Sessions in MH, Hall 1 and 2)</b>	
<b>Venue: Main Hall   21<sup>st</sup> December</b>	
15:45 -18:00	<p><b>TECHNICAL SESSION 7: Weed management in rice-based cropping system</b></p> <p>Chair: <b>Dr AN Rao</b></p> <p>Rapporteur: <b>Dr Bhimoreddy Padmaja &amp; Dr Kaberi Mahanta</b></p> <p><b>Dr Virender Kumar</b> <span>Lead</span>  <i>Weed Management in smallholder rice production in Asia: Challenges and Opportunities</i></p> <p><b>Dr Pardeep Kumar</b> <span>Lead</span>  <i>Sustainability in rice ecosystem with Direct-Seeded Rice and emerging opportunity of carbon farming</i></p> <p><b>Dr Atluri S Rao</b> <span>Invited Oral</span>  <i>Herbicide mixtures in rice</i></p> <p><b>Dr Manoj Kumar Singh</b> <span>Invited Oral</span>  <i>Crop diversification and residue mulching for weed management in rice-wheat cropping system</i></p> <p><b>Dr MT Sanjay</b> <span>Oral</span>  <i>Weed management in direct seeded rice</i></p> <p><b>Dr Iswar Chandra Barua</b> <span>Oral</span>  <i>Managing weeds with competitive varieties in upland direct seeded autumn rice in Assam</i></p> <p><b>Dr Ramprakash Tata</b> <span>Oral</span>  <i>Impact of tillage and weed management options on soil quality in rice-maize-Sesbania cropping system under conservation agriculture</i></p> <p><b>Dr Malay K Bhowmick</b> <span>Oral</span>  <i>Harnessing potentials of weed-competitive rice cultivars under direct-seeded conditions</i></p> <p><b>Dr Rakesh Kumar</b> <span>Oral</span>  <i>Weed competitive ability and crop productivity of rice cultivars as influenced by weed management practices under transplanted condition</i></p> <p><b>Dr Rishi Raj</b> <span>Oral</span>  <i>Tillage, residue and herbicides effects on weed and nematode dynamics, herbicide residue and productivity in a long-term CA-based direct-seeded rice</i></p>

	<p><b>Dr Debika Nongmaithem</b> <span style="background-color: #90EE90;">Oral</span>  <i>Response of black rice to date of transplanting and integrated weed management under SRI</i></p> <p><b>Dr Thumu Venkateswara Reddy</b> <span style="background-color: #90EE90;">Oral</span>  <i>Bio-efficacy of tank mixed herbicides with urea in wet seeded rice</i></p> <p><b>Dr Y Sreeja</b> <span style="background-color: #90EE90;">Oral</span>  <i>Evaluation of suitable weed management practices for semi-dry rice</i></p> <p><b>Dr Kesipeddy Naganjali</b> <span style="background-color: #90EE90;">Oral</span>  <i>Influence of integrated nutrient and weed management on yield and weed dynamics of semi dry rice</i></p> <p><b>Mr Deepak Kumar Jaiswal</b> <span style="background-color: #90EE90;">Oral</span>  <i>Management of complex weed flora of dry direct-seeded rice with sequential use of herbicides under different tillage practices in eastern India</i></p> <p>Discussion and concluding remarks by Chair</p>
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**Venue: Hall 1 | 21<sup>st</sup> December**

15:45 -18:00 **TECHNICAL SESSION 8: Herbicide resistance in weeds, herbicide tolerant crops and Weed utilization**

Chair: **Dr RM Kathiresan**  
 Rapporteur: **Dr Dasari Srekanth & Dr Sonaka Ghosh**

**Dr Amit J Jhala** Lead  
*Pollen-mediated gene flow and transfer of herbicide-resistant alleles from herbicide-resistant to susceptible weeds*

**Dr C Chinnusamy** Lead  
*Pros and Cons of Herbicide Tolerant Crops in Indian Agriculture*

**Dr G Nagendra Prabhu** Lead  
*People Participatory Model for Value Addition & Utilization of Invasive Aquatic Weeds, with special reference to Water Hyacinth*

**Dr PJ Khankhane** Invited Oral  
*Performance of weedy plants in decentralized constructed wetland systems and their potential of post-harvest biomass utilization for bio-energy production*

**Dr Dharam Bir Yadav** Invited Oral  
*Performance of imazethapyr doses and sequences against weeds in imidazolinone-tolerant dry direct seeded rice*

**Dr Deepak Pawar** Oral  
*Studies on the molecular basis of Imazethapyr resistance in Commelina spp. and Echinochloa colona*

**Dr Todar Mal Poonia** Oral  
*Management of resistant Phalaris minor in wheat in north-western Indo-Gangetic Plains of India*

**Dr P Anandan** Oral  
*Impact of various Depth of planting and Salvinia molesta compost on rice*

**Mr Kommireddy Poojitha** Oral  
*Investigations on herbicide resistance in Echinochloa colona and their management strategies under direct seeded rice*

**Mr Akil Prasath RV** Oral  
*Decontamination of heavy metal polluted environment utilizing a wide spread invasive taxa Prosopis juliflora in Southern India*

Discussion and concluding remarks by Chair

**Venue: Hall 2 | 21<sup>st</sup> December**

15:45 -18:00 **TECHNICAL SESSION 9: An industry perspective on weed management strategies for sustainable agriculture**

Chair: **Dr JS Mishra, Director, ICAR-DWR**  
 Rapporteur: **Partha Baruah & Sunil Kumar**

**Dr Mayank Yadav**, Convenor, *Introduction to the session (verbal)*

**Mr Rajvir Rathi**, (Director, Public Affairs, Science and Sustainability, Bayer CropScience Ltd.)  
*Drone Application Technology: A new paradigm and opportunities for Weed Management*

*Remarks from the experts on Drone Application Technology and its scope in Weed Management (verbal input only- no presentations)*

**Dr Anil Kakkar (Sumitomo); Dr Pardeep Kulkarni (ADAMA) Dr N Muthukumar Dr NT Yaduraju**

	<p><b>Mr Rahul Dhanuka</b> (COO, Dhanuka Agritech Ltd)  <i>Emerging challenges with Herbicide usage in India: Current status and future prospects</i></p> <p><i>Remarks from the experts on current status of herbicide usage in India and future prospects</i>                  (Verbal input only- no presentations)</p> <p><b>Dr Ajit Kumar</b> (UPL); <b>Dr Chakradhar Pal</b> (PI Industries); <b>Dr RK Malik</b>; <b>Dr Sushilkumar</b>; <b>Dr Shobha Sondhia</b></p> <p><i>Brainstorming interaction and Conclusion</i></p> <p><b>All participants/ Coordinated by Convener</b></p> <p><b>Remarks from the Chair:</b> Dr JS Mishra</p>
18:00-18:15	POSTERS/Tea
18:15-19:30	<b>Cultural programme organized by AAU</b>
19:30-21:00	<b>Dinner</b>
<b>Thursday, December 22, 2022</b>	
<b>Venue: Main Hall   22<sup>nd</sup> December</b>	
9:30-11:00	<p>Chair: <b>Dr Prashant Bhowmick</b>                  CO-Chair: <b>Dr Muthu Bagavathiannan</b>                  Rapporteur: <b>Dr Doddaga Subramanyam &amp; Dr Manoj Kumar Singh</b></p> <p><b>Dr NT Yaduraju</b> <span style="background-color: #f4a460; padding: 2px;">Plenary</span>  <i>GM and non-GM herbicide tolerant crops: current status, challenges and perspectives</i></p> <p><b>Dr Samunder Singh</b> <span style="background-color: #f4a460; padding: 2px;">Plenary</span>  <i>Do we see the end of chemical weed control soon?</i></p>
<b>TEC HNICAL SESSIONS (Concurrent Sessions in MH, Hall 1 and 2)</b>	
<b>Venue: Main Hall   22<sup>nd</sup> December</b>	
11:15 -15:00	<p><b>TECHNICAL SESSION 10: Weed biology, ecology and climate change</b></p> <p>Chair: <b>Dr C Chinnusamy</b>                  Rapporteur: <b>Dr BR Bazaya &amp; Dr Sheeja K Raj</b></p> <p><b>Dr Gulshan Mahajan</b> <span style="background-color: #f4a460; padding: 2px;">Lead</span>  <i>Ecology and management of wild oats under Australian conditions</i></p> <p><b>Dr Mirza Hasanuzzaman</b> <span style="background-color: #f4a460; padding: 2px;">Lead</span>  <i>Stealing the secrets of weeds: The stress tolerance mechanism and implication for climate resilient agriculture</i></p> <p><b>Dr Jayanta Deka</b> <span style="background-color: #4a90e2; padding: 2px;">Invited Oral</span>  <i>Biology, Invasiveness and Management of Panicum repens Linn. (Family: Poaceae)</i></p> <p><b>Dr Pijush Kanti Mukherjee</b> <span style="background-color: #4a90e2; padding: 2px;">Invited Oral</span>  <i>Study on emergence pattern of Physalis minima L. under different tillage systems</i></p>
<b>13:00-14:00 Lunch/Posters</b>	
<p><b>Dr Veenapani Dubey</b> <span style="background-color: #90ee90; padding: 2px;">Oral</span>  <i>Ecology of weeds in rice fields: A prerequisite for weed management</i></p> <p><b>Dr Tushar Patel</b> <span style="background-color: #90ee90; padding: 2px;">Oral</span>  <i>Ecology and biology of nutsedge</i></p> <p><b>Dr Fayaz Ahmed Bahar</b> <span style="background-color: #90ee90; padding: 2px;">Oral</span>  <i>Comparative study of soil weed seed bank under different cropping systems of northwestern India</i></p> <p><b>Dr Sanjeev Kumar</b> <span style="background-color: #90ee90; padding: 2px;">Oral</span>  <i>Weed dynamics as affected by different cropping systems in the irrigated midlands of Eastern Region</i></p> <p><b>Dr Ramphool Puniya</b> <span style="background-color: #90ee90; padding: 2px;">Oral</span>  <i>Effect of irrigation methods and herbicides on weed flora dynamics in direct- seeded rice</i></p> <p><b>Dr GN Motaka</b> <span style="background-color: #90ee90; padding: 2px;">Oral</span>  <i>Correlation and regression analysis of rabi maize - weed ecosystem</i></p> <p><b>Dr Gaurang Patel</b> <span style="background-color: #90ee90; padding: 2px;">Oral</span>  <i>Restriction of Cyperus rotundus population in turf (Cynodon dactylon)</i></p>	

**Mrs Teresa Alex** Oral

*Germination ecology and influence of length and orientation of stolon fragments on invasiveness of *Alternanthera bettzickiana**

**Miss Sonali Singh** Oral

*Study on biology of *Echinochloa colona* (L.) Link under direct-seeded rice*

**Mrs Pooja Pandey** Oral

*Allelopathic effect of aqueous root leachates of *Echinochloa colonum* (L.) Link on seed germination and seedling growth of paddy*

**Mrs Shanti Devi Bamboriya** Oral

*Weed flora shift and wheat competitiveness under nitrogen levels*

Discussion and concluding remarks by Chair

**Venue: Hall 1 | 22<sup>nd</sup> December**

11:00 -15:00

**TECHNICAL SESSION 11: Weed management in cash crops and minor crops**

Chair: **Dr AS Rao**

Rapporteur: **Dr Amit Kuamr Jha & Dr Veeresh Hatti**

**Dr RP Dubey** Lead

*Weed management in millets: Challenges and perspectives*

**Dr SB Yogananda** Invited Oral

*Weed control efficacy of herbicide mixtures on major weed flora of cotton in Cauvery Command Area of Karnataka*

**13:00-14:00 Lunch/Posters**

**Dr Vrajdas Usadadia** Oral

*Integrated Weed Management in Bt Cotton*

**Dr Kamala Bai** Oral

*Evaluation of post-emergence herbicide in foxtail millet*

**Dr Manoj Kumar Singh** Oral

*Influence of herbicides and agri-horti systems on growth and yield of finger millet under semi-arid condition of eastern Uttar Pradesh*

**Dr Rajendra Hasure** Oral

*Evaluation of bio-efficacy of herbicide, Atrazine 50% WP against major weed species in sugarcane with its phytotoxicity effect on sugarcane and residual effect on the succeeding Cowpea crop*

**Dr P Thimmegowda** Oral

*Tank mix application of Halosulfuron-methyl and Metribuzin against major weed flora of Sugarcane in Cauvery Command Area of Karnataka*

**Dr Roshan Choudhary** Oral

*Non- chemical weed management in fenugreek*

**Dr Sheela Barla** Oral

*Effect of herbicides on weed dynamics and yield of finger millet*

**Dr Sunilkumar Nooli**

*Weed management in sugarcane through ready-mix post-emergence herbicides*

**Dr Suresh Kumar J** Oral

*Integrated Weed Management in Taro*

**Dr Shaileshbhai Mulchandbhai Patel** Oral

*Integrated weed management in coriander and residual effect of herbicides on succeeding greengram crop*

**Dr K Nalini** Oral

*Weed flora of cotton – A review*

**Miss Gurleen Kaur** Oral

*Effect of various weed control treatments on different weed species of Mentha under Punjab Conditions*

**Miss Ruchika Choudhary** Oral

*Efficacy of different weed management practices on weed density and seed yield of dill*

**Mrs Pokala Sravani** Oral

*Weed management in foxtail millet with pre-and post-emergence herbicides*

Discussion and concluding remarks by Chair

**Venue: Hall 2 | 22<sup>nd</sup> December**

11:00 -15:00

**TECHNICAL SESSION 12: Weed threat to biodiversity in forest, wasteland and aquatic**



ecosystem and socio-economic implications	
	<p>Chair: <b>Dr CT Abraham</b>            Rapporteur: <b>Dr Tej Pratap &amp; Mr Navjot Brar</b></p> <p><b>Dr Bharat B Shrestha</b> <span style="background-color: #c00000; color: white; padding: 2px;">Lead</span>  <i>Need of South Asia Regional Network for Invasive Alien Species (SARNIAS)</i></p> <p><b>Dr Kishore Kumar Krishnani</b> <span style="background-color: #0070c0; color: white; padding: 2px;">Invited Oral</span>  <i>Weed mediated bioremediation of contaminants of environmental concern using a circular bioeconomy</i></p> <p><b>Dr P Prameela</b> <span style="background-color: #0070c0; color: white; padding: 2px;">Invited Oral</span>  <i>Management of salvinia (Salvinia molesta Mitch.) in rice ecosystem</i></p>
<b>13:00-14:00 Lunch/Posters</b>	
	<p><b>Dr Nimmy Jose</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Florpyrauxifen-benzyl for the Management of Aquatic Weeds in Wetland Rice</i></p> <p><b>Dr Mini Abraham</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Dragon scale fern (Pyrrossia sp.), a problematic epiphyte fern in plantations of Periyar river basin in Kerala</i></p> <p><b>Dr P Saravanane</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Does change in carbon dioxide level influence salinity tolerance to Parthenium?</i></p> <p><b>Dr Yogita Gharde</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Predicting the potential risk of littleseed canarygrass (Phalaris minor) in India under future climatic scenarios</i></p> <p><b>Mr Ajin Sekhar</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Evaluating the impact of Lantana camara removal on native biodiversity, regeneration status and soil quality in agro-climatic zones of Chhattisgarh, India</i> <span style="float: right;">three</span></p> <p><b>Dr Archana Sharma</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Approaches for Integrated Weed Management System</i></p> <p><b>Dr Himanshu Mahawar</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Impact of invasive shrub, Lantana camara, removal on biological properties of soil in Chhattisgarh Forest</i></p> <p><b>Mr A Jamaludheen</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Trend analysis of production and consumption of key herbicides in India</i></p> <p><b>Mr Navdeep Godara</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Weed Management Aspects of the United States Turfgrass Industry: Current Scenario and Future Outlook</i></p> <p><b>P. Gayathri Karthikeyan</b> <span style="background-color: #92d050; color: black; padding: 2px;">Oral</span>  <i>Mapping and habitat affinity of greater club rush in wetland rice fields of Vellayani lake watershed</i></p>
	Discussion and concluding remarks by Chair
15:00-15:15	Tea
<b>Venue: Main Hall   22<sup>nd</sup> December</b>	
15:15-16:00	<p>Chair: <b>Dr Yoshiharu FUJII</b>            Co-Chair: <b>Dr Pratap Singh</b>            Rapporteur: <b>Dr MT Sanjay &amp; Dr Amit Jhala</b></p> <p><b>Dr Martin P Hill</b> <span style="background-color: #c00000; color: white; padding: 2px;">Plenary</span> <b>(Mahesh K Upadhya Award Lecture)</b>  <i>Current status of biological control of weeds and future perspectives</i></p>
16:00-17:00	<p><b>Closing ceremony (in MH)</b>            Presentation of Technical session Reports: Rapporteurs            Award Certificate to Student Travel Grant by <b>Dr VK Choudhary</b>            Declaration of poster session Awards: <b>Dr JS Mishra</b>, Organizing Secretary 3<sup>rd</sup> IWC            Remarks: by <b>Dr Sushilkumar</b>, Convenor, 3<sup>rd</sup> IWC            Chief Guest Address            Vote of thanks: <b>Dr JS Mishra</b>, Organizing Secretary 3<sup>rd</sup> IWC</p>
17:00-17:30	<b>High Tea</b>
<b>Friday, December 23, 2022</b>	
8:30-9:30	Breakfast
9:30-19:00	<b>Field and 'Statue of Unity' visits</b>

**Lead** - Presentations: (timing 20 minutes)

**Invited Oral** - Presentations: (timing 15 minutes)

**Oral** - Presentations: (timing 8 minutes)