

# Programme

## ISWS Golden Jubilee International Conference

*"Weeds and Society: Challenges and Opportunities"*

21-24 November, 2018, Jabalpur, India

Registration: Venue – Reception, ICAR-Directorate of Weed Research Jabalpur

Tuesday, November 20, 2018; Time: 14:00-19:00

Wednesday, November 21, 2018; Time: 8:00-9:00

Wednesday, November 21, 2018

### Venue: Main Hall

9.00-11:00	<p><b>Inaugural session</b></p> <p>Presidential address: <b>Dr V.P. Singh</b></p> <p>Address by <b>Director</b> ICAR-DWR</p> <p>Address by <b>Chief Guests</b></p> <p>ISWS Award announcement by Dr <b>Sushilkumar</b>, Secretary ISWS</p> <p>Vote of thanks : <b>Secretary</b> ISWS</p>
11:00-11:30	<b>High Tea and Poster Sessions</b>
11:31-13:00	<p>Chair: <b>Dr R.K. Malik</b></p> <p>Rapporteur: <b>Dr J.S. Mishra</b></p> <p><b>Dr Jonathan Gressel</b> <b>Keynote Lecture</b></p> <p><i>Intractable weed problems need innovative solutions – using all available technologies</i></p> <p><b>Dr Jonathan Storkey</b> <b>Plenary</b></p> <p><i>Ecological principles can help with weed management decisions</i></p> <p>Discussion and concluding remarks by Chair</p>
13:01- 13:45	<b>Lunch/Posters</b>
<b>Venue: Main Hall</b>	
13:46-15.15	<p>Chair: <b>Dr N.T. Yaduraju</b></p> <p>Rapporteur: <b>Dr Parmeet Singh</b></p> <p><b>Dr R.K. Malik</b> <b>Plenary</b></p> <p><i>Sustainable intensifications of cropping systems: Role of weed science</i></p> <p><b>Dr A.N. Rao</b> <b>Plenary</b></p> <p><i>Fifty years of weed science research in India - challenges and opportunities</i></p> <p><b>Dr Mayank Yadav</b> <b>Plenary</b></p> <p><i>A new paradigm in agricultural sustainability</i></p> <p>Discussion and concluding remarks by Chair</p>
15:16-15:30	<b>POSTERS/Tea</b>
<b>TECHNICAL SESSIONS (Concurrent Sessions in MH, Hall 1 and 2)</b>	
<b>Venue: Main Hall</b>	
15:31 -17:30	<p><b>TECHNICAL SESSION 1: Weed biology, ecology and climate change</b></p> <p>Chair: <b>Dr Jonathan Storkey</b></p> <p>Rapporteur: <b>Dr M.S. Bhullar</b></p> <p><i>Sustainable option for managing weeds under changing climate</i></p> <p><b>Dr R.M. Kathiresan</b> <b>Lead</b></p> <p><i>The dormancy breaker plus herbicides: A new approach for weed management</i></p> <p><b>Dr T.K. Das</b> <b>Lead</b></p> <p><i>Role of remote sensing in weed delineation/ management</i></p> <p><b>Dr K.V. Ramana</b> <b>Lead</b></p>

*A taxonomic assessment of Asteracean weed Acmeilla in India*

**Dr I.C. Barua** Oral

*Effect of shading on growth, development and reproductive biology of some major weed species of winter season*

**Dr S.K. Guru** Oral

*Determining economic threshold of Phalaris minor in wheat across nitrogen levels using regression model*

**Dr Rishi Raj** Oral

*Abiotic stress tolerant plant growth promoting rhizobacteria from semi-arid tropical grassy weeds*

**Dr C. Sarathambal** Oral

*Long-term effect of diversified cropping systems and nutrient management practices on weed seed-bank dynamics*

**Dr C.P. Nath** Oral

*Performance of aquatic plant species for contaminants removal from waste water treatment in artificial wetland*

**Dr P.J. Khankhane** Oral

*Identification of wheat cultivar with better competitive ability against weeds in subtropical India*

**Dr Jayesh Singh** Oral

Discussion and concluding remarks by Chair

### Venue: Hall 1

15:31 -17:30

#### TECHNICAL SESSION 2: Weed management in fruits, vegetable, and other high-priced crops

Chair: **Dr S.V.R. Shetty**

Rapporteur: **Dr P. Saravanane**

*Novel and innovative technologies in mechanical weed management*

**Dr V.K. Tewari** Lead

*Long-term effect of organic manures and weed management practices on weeds, yield and soil microbial properties in fennel*

**Dr Bharat D. Patel** Oral

*Effect of pre- and post-emergence herbicide on weed control and pod yield of vegetable cowpea*

**Dr Raghwendra Singh** Oral

*Integrated weed management in garlic using mulch and herbicides*

**Dr Simerjeet Kaur** Oral

*Effect of mulching and weed management practices on weed flora and yield of garlic*

**Dr Dashrath Chaudhari** Oral

*Weeds an emerging problem in high density apple orchards of Shopian district of Jammu & Kashmir*

**Dr Parmeet Singh** Oral

*Management of broomrape (Orobanche cernua L.) in solanaceous crops – eggplant (Solanum melongena L.)*

**Dr Sireesha Sudharani** Oral

*Studies on weed seed bank, growth pattern and management of Trianthema portulacastrum*

**Dr T. Ramesh** Oral

*Weed management with new generation herbicides in elephant foot yam*

**Dr Suresh Kumar J.** Oral

*Weed management in marigold*

**Dr J. Deka** Oral

Discussion and concluding remarks by Chair

### Venue: Hall 2

15:31 -17:30

#### TECHNICAL SESSION 3: Weed threat to biodiversity in forest, wasteland and aquatic ecosystem and socio-economic implications

Chair: **Dr G.R. Rao, Director, TFRI**

Rapporteur: **Dr Ajay Kumar Singh**

*Aquatic weed management through improved technology interventions in culture based fisheries*

**Dr K.K. Krishnani** Lead

*Risk associated with the weed seeds in imported grain*

	<p><b>Dr Moolchand Singh</b> <b>Lead</b></p> <p><i>Studies on allelopathic Effect of Lantana camara (L.) and Parthenium hysterophorus (L.) weeds on germination and growth behaviour of Thespesia populnea (L.)</i></p> <p><b>Dr Senthivelu Muniyandi</b> <b>Oral</b></p> <p><i>Managing weeds and improving profitability of farmer's via conservation agriculture technology</i></p> <p><b>Dr Shrishti Bilaiya</b> <b>Oral</b></p> <p><i>Development and evaluation of tractor operated weeding cum earthing-up machine for effective post-emergence weed management in maize</i></p> <p><b>Dr Hemant Dadhich</b> <b>Oral</b></p> <p><i>Estimation of economic loss caused by weeds in India</i></p> <p><b>Dr Yogita Gharde</b> <b>Oral</b></p> <p><i>Enzyme and microbial dynamics of litter decomposition in water hyacinth</i></p> <p><b>Dr Uma Singh</b> <b>Oral</b></p> <p><i>Weeds in Andaman &amp; Nicobar Islands – A threat to crop and grassland (livestock) productivity and ecosystem</i></p> <p><b>Dr Bandla Gangaiah</b> <b>Oral</b></p> <p><i>Weed dynamics and its management strategies under short rotation forestry</i></p> <p><b>Dr Navneet Kaur</b> <b>Oral</b></p> <p><i>Phytosociological analysis of Parthenium hysterophorus L. and its management through competitive weeds</i></p> <p><b>Dr Jai Knox</b> <b>Oral</b></p> <p>Discussion and concluding remarks by Chair</p>
17:41-18.00	<b>POSTERS/Tea</b>
18:01 -19:30	<b>General Body Meeting of ISWS</b>
19:30 -21:00	<b>Dinner</b>
<b>Thursday, November 22, 2018</b>	
<b>Venue: Main Hall</b>	
9:30-11.00	<p>Chair: <b>Dr Prasanta C. Bhowmik</b></p> <p>Rapporteurs: <b>Dr Simarjeet Kaur</b></p> <p><b>Dr N.T. Yaduraju</b> <b>Plenary</b></p> <p><i>Why systems approach in weed management?</i></p> <p><b>Dr Yoshiharu Fujii</b> <b>Plenary</b></p> <p><i>Utilization of allelopathy for weed control</i></p>
11:00-11:30	<b>POSTERS/Tea</b>
<b>Venue: Main Hall</b>	
11:31-13:30	<p><b>TECHNICAL SESSION 4: Herbicide resistance in weeds and herbicide tolerant crops</b></p> <p>Chair: <b>Dr A.N. Rao</b></p> <p>Rapporteurs: <b>Dr V.K. Choudhary</b></p> <p><i>Herbicide-resistant crop technology in the USA 24 years after commercialization: Current status and future outlook</i></p> <p><b>Dr Krishna Reddy</b> <b>Lead</b></p> <p><i>Novel mechanisms of herbicide resistance in weeds: Opportunities for crop improvement</i></p> <p><b>Dr Mithila Jugulam</b> <b>Lead</b></p> <p><i>Current challenges and sustainable weed management into the future: Call for a trans-disciplinary approach</i></p> <p><b>Dr Prashant Jha</b> <b>Lead</b></p> <p><i>Management of cross resistance in Phalaris minor against recommended herbicides in wheat</i></p> <p><b>Dr Satbir Punia</b> <b>Oral</b></p> <p><i>Strategic development of herbicide to combat the massive problem of Phalaris minor weed, through computational approach</i></p> <p><b>Dr Priyanka Rani</b> <b>Oral</b></p> <p><i>Exploiting herbicide resistance related fitness costs for managing herbicide resistant weeds</i></p> <p><b>Dr Manpreet Singh</b> <b>Oral</b></p> <p><i>Current status of herbicide resistance in Phalaris minor Retz. in Haryana</i></p> <p><b>Dr Raghuvver Singh</b> <b>Oral</b></p>

	<p><i>Agronomic evaluation of herbicide tolerance in chickpea genotypes</i>  <b>Dr Ummed Singh</b> Oral</p> <p><i>Resistance to imazethapyr in Commelina biotypes in soybean growing central India</i>  <b>Dr Subhash Chander</b> Oral</p> <p>Discussion and concluding remarks by Chairman</p>
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**Venue: Hall 1**

11:31-13:30	<p><b>Panel discussion</b> – Innovations in weed management for improving farmers income: Are we on right path? (Interaction with industry rep/scientists/innovators/students/farmers)</p> <p>Chair: <b>Dr Megh Singh</b>  Rapporteurs: <b>Dr Tej Pratap</b></p> <p>Convener: <b>Dr C. Chinnusamy</b></p> <p><i>Role of industry in sustainable weed management solutions</i>  <b>Dr Sunil Kumar</b> Lead, South Asia, Corteva Agriscience</p> <p><i>Herbicides in Agricultural Industry-Future Prospects and Scope</i>  <b>Dr Praharaju Laxminarayana</b> Lead</p> <p>Panelists' views (5 min each):</p> <ol style="list-style-type: none"> <li>1. Dr P.K. Singh</li> <li>2. Dr J.S. Mishra</li> <li>3. Dr V.P. Singh (ICAR-IISR, Lucknow)</li> <li>4. Dr Mayank Yadav</li> <li>5. Dr Shobha Sondhia</li> <li>6. Dr. P.J. Suresh</li> <li>7. Dr Bhumesh Kumar</li> </ol> <p>Open house discussion and feedback from house</p> <p>Concluding remarks by Chairman</p>
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**Venue: Hall 2**

11:31-13:30	<p><b>TECHNICAL SESSION 5: Non-chemical weed management including biological control</b></p> <p>Chair: <b>Dr Jagdish Kumar</b>  Rapporteurs: <b>Dr C. Sarathambal</b></p> <p><i>Importance of allelopathy in agriculture: Bioavailability and functions of allelochemicals in soil environment</i>  <b>Dr Prasanta Bhowmik</b> Lead</p> <p><i>Application of advanced sensing technologies for precision weed diagnosis and management</i>  <b>Dr Muthu Bagavathiannan</b> Lead</p> <p><i>Weed management in organic agriculture</i>  <b>Dr R.P. Dubey</b> Oral</p> <p><i>Exploring allelochemical producing cover crops for weed management in cotton</i>  <b>Dr D. Blaise</b> Oral</p> <p><i>Preliminary characterization of primary and secondary metabolites of Alternaria raphani J.W. Groves &amp; Skolko as bioherbicide against Alternanthera philoxeroides (Mart.) Griseb</i>  <b>Dr Puja Ray</b> Oral</p> <p><i>Smicronyx lutulentus, the seed-feeding weevil, for control Parthenium hysterophorus in India: protocols for its import, quarantine and pre-release studies</i>  <b>Dr M. Sampath Kumar</b> Oral</p> <p><i>Recent advances and new innovative approaches in Parthenium hysterophorus management using mycoherbicide</i>  <b>Dr Ajay Kumar Singh</b> Oral</p> <p><i>Effect of mulches and weed management on unpuddled transplanted hybrid rice</i>  <b>Dr Manoj Kumar Singh</b> Oral</p> <p><i>Impact of biocontrol agents on biochemical changes of aquatic weed water hyacinth, Eichhornia crassipes (Mart.) Solms-Laubach</i>  <b>Miss Writuparna Dutta</b> Oral</p>
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	Discussion and concluding remarks by Chair
13:31- 14:30	<b>Lunch/Posters</b>
<b>TECHNICAL SESSIONS (Concurrent Sessions in MH, Hall 1 and 2)</b>	
<b>Venue: Main Hall</b>	
14:31 -17:30	<p><b>TECHNICAL SESSION 6: Weed management in rainfed and irrigated rice-based cropping system</b></p> <p>Chair: <b>Dr C.T. Abraham</b></p> <p>Rapporteurs: <b>Dr B.D. Patel</b></p> <p><i>Weed management in conservation agriculture systems in India: Myths, realities and way forward</i>  <b>Dr A.R. Sharma</b> <b>Lead</b></p> <p><i>Long-term herbicidal weed management on weed control, yield and soil environment in transplanted low land rice-rice cropping system</i>  <b>Dr C. Chinnusamy</b> <b>Lead</b></p> <p><i>Long-term effect of conservation agriculture on weed dynamics and productivity of rice-based cropping systems</i>  <b>Dr J.S. Mishra</b> <b>Oral</b></p> <p><i>Studies on bio-efficacy and phytotoxicity effect of Quinclorac 35% SC in DSR under eastern region of U.P.</i>  <b>Dr R.K. Singh</b> <b>Oral</b></p> <p><i>Weed management in rice-based cropping systems of Andhra Pradesh</i>  <b>Dr Atluri S. Rao</b> <b>Oral</b></p> <p><i>Management of chocolate weed – an emerging weed in rice system</i>  <b>Dr Meera Menon</b> <b>Oral</b></p> <p><i>Synergism and antagonism in herbicide mixtures involving cyhalofop-p-butyl in rice</i>  <b>Dr P. Prameela</b> <b>Oral</b></p> <p><i>Direct seeded rice in North-Western India: Weed dynamics and management strategies</i>  <b>Dr Dharam Bir Yadav</b> <b>Oral</b></p> <p><i>Weed dynamics and management options under different rice establishment methods in dry season</i>  <b>Dr Malay K. Bhowmick</b> <b>Oral</b></p> <p><i>Nutrient uptake by upland rice and associated weeds as influenced by stale seedbed and weed management methods</i>  <b>Dr Elizabeth K. Syriac</b> <b>Oral</b></p> <p><i>Efficacy of various herbicides combinations to control weeds in dry direct seeded rice</i>  <b>Dr Dhanapal G. Nanjappa</b> <b>Oral</b></p> <p><i>Integrated weed management through tank mix herbicides in transplanted rice under sub-montane zone of Maharashtra</i>  <b>Dr Prashant Bodake</b> <b>Oral</b></p> <p><i>Evaluation of resource conserving weed management techniques in system of rice intensification</i>  <b>Dr Sant K. Singh</b> <b>Oral</b></p> <p><i>Impact of methods of rice establishment and weed management options on productivity, profitability and environment</i>  <b>Dr M. Madhavi</b> <b>Oral</b></p> <p><i>Weed dynamics and crop productivity in rice-wheat-greengram cropping system under conservation agriculture in vertisol</i>  <b>Dr V.K. Choudhary</b> <b>Oral</b></p> <p>Discussion and concluding remarks by Chair</p>
17:31-18:00	<b>POSTERS/Tea</b>
<b>Venue: Hall 1</b>	
14:31 -17:30	<p><b>TECHNICAL SESSION 7: Weed management in cereals-based cropping system</b></p> <p>Chair: <b>Dr Krishna Reddy</b></p> <p>Rapporteurs: <b>Dr Manoj Kumar Singh</b></p> <p><i>History of chemical weed control: The good, the bad, and the ugly</i>  <b>Dr Vijay Nandula</b> <b>Lead</b></p> <p><i>Long-term effects of tillage systems and weed control on weed dynamics, crops productivity and soil health in a maize-wheat production system</i>  <b>Dr M.S. Bhullar</b> <b>Oral</b></p>

*Post emergent herbicidal weed management in maize*

**Dr Anil Kumar** Oral

*Management of herbicide resistant grassy weeds in wheat*

**Dr R.S. Chhokar** Oral

*Day time effect on efficacy of mesosulfuron-methyl against weeds in irrigated late sown wheat*

**Dr M.L. Kewat** Oral

*Conservation agricultural practices: a weed management tool to enhance the productivity of irrigated maize-sunflower cropping system*

**Dr Murali A. Palanisamy** Oral

*Effect of herbicides combination for control of complex weed flora in wheat*

**Dr Gurusharan Panwar** Oral

*Effect of different wheat establishment methods and weed management practices on the major weeds and wheat*

**Dr Sirazuddin Siddiqui** Oral

*Effect of herbigation on weed dry matter and yield of Kharif maize*

**Dr Avil K. Kodary** Oral

*Weed abundance and soil weed seed bank responses to varied tillage practices in green manure-maize-pulse cropping system–*

**Dr R. Thirumalaikumar**

*Conservation agriculture practices for efficient weed management*

**Dr Udai Pratap Singh** Oral

*Weeds of maize + rajmash crop system under real farm conditions of semi-temperate zone of Rajouri (Jammu & Kashmir)*

**Dr Vikas Sharma** Oral

*Effect of integrated weed and nutrient management practices on growth, nutrient uptake and soil health of hybrid maize production system at alluvial soil of India*

**Dr Dibakar Ghosh** Oral

*Bio-efficacy of ready-mix herbicides on weed dynamics and crop productivity in late sown wheat (*Triticum aestivum* L.) under sub-tropical conditions*

**Dr Vasudev Meena** Oral

*Effect of sowing dates and weed management on productivity and profitability of wheat in irrigated plains of Jammu & Kashmir*

**Dr Neetu Sharma** Oral

Discussion and concluding remarks by Chair

17:31-18:00 POSTERS/Tea

Venue: Hall 2

14:31 -17:30

**TECHNICAL SESSION 8:** Weed management in pulses and oilseeds crops

Chair: **Dr Jay G. Varshney**

Rapporteurs: **Dr Mukesh Kumar**

*Critical crop-weed competition period – Critical factor for annual planning of weed pest management to increase sustainable crop productivity*

**Dr Ratikanta Ghosh** Lead

*Weed Management in pulses*

**Dr Narendra Kumar** Lead

*Weed management in groundnut based (groundnut- wheat) cropping system*

**Dr Rajendra Hasure** Oral

*Evaluation of economically feasible weed management option for sunflower under modified spacing*

**Dr Selvakumar Thambiyannan** Oral

*A study of dynamics of weed seedbank and its management in groundnut*

**Dr Bhagirathsinh Gohil** Oral

*Evaluation of post emergence herbicides for weed control in castor*

**Dr Srinivasulu Katragadda** Oral

*Assessment on tank mix application of early post-emergence Herbicides for efficient Weed control and its Economics in irrigated Groundnut*

**Dr Ravi Sugumaran** Oral

	<p><i>Weed management in Groundnut</i>  <b>Dr Babulal Meena</b> Oral</p> <p><i>Effect of weed management practices on growth and yield of rainfed greengram</i>  <b>Dr Sultani S. Rao</b> Oral</p> <p><i>Effect of integrated weed management in pigeon pea</i>  <b>Dr Niteen J. Danawale</b> Oral</p> <p><i>Effect of different pre- and post-emergent herbicides on growth and yield of blackgram under acidic soils of Manipur</i>  <b>Dr K.S. Shashidhar</b> Oral</p> <p><i>Influence of pre- and post-emergence herbicides on growth, yield and quality of blackgram</i>  <b>Dr Rajiv Sathe</b> Oral</p> <p><i>Screening of blackgram varieties for their weed competitiveness and tolerance to pre- and post-emergence herbicidal application during Rabi season</i>  <b>Dr Bodi Pramila Rani</b> Oral</p> <p><i>Growth and yield of black gram as influenced by weed management with different doses of phosphorus and potassium</i>  <b>Dr Debika Nongmaithem</b> Oral</p> <p><i>Bio-efficacy of fomesafen + fluzifop-p-butyl mixture against weeds in soybean</i>  <b>Dr Jitendra Patidar</b></p> <p>Discussion and concluding remarks by Chair</p>
17:31-18:00	<b>POSTERS/Tea</b>
18:01-19:30	<b>Cultural Programme</b>
19:31-21:00	<b>Dinner</b>
<b>Friday, November 23, 2018</b>	
<b>Venue: Main Hall</b>	
9:30-11:00	<p>Chair: <b>Dr Narendra Pratap Singh</b>  Rapporteurs: <b>Dr T. Ramprakash</b></p> <p><b>Dr B.S. Chauhan</b> Plenary  <i>Emerging challenges and opportunities for education and research in weed science in India</i></p> <p><b>Dr Jay G. Varshney</b> Plenary  <i>Invasive weeds: A threat to biodiversity and productivity</i></p> <p>Contd. after tea</p>
11:00 -11:30	<b>POSTERS/Tea</b>
11:31 -12:00	<p><b>Mahesh K. Upadhaya Award Lecture</b></p> <p><i>Biological control of Parthenium: Ecological and social indicators of success, challenges and way forward</i>  <b>Dr R.K. Gupta</b></p> <p>Discussion and concluding remarks by Chair</p>
12:01 -13:00	<p><b>Special interaction session:</b> Writing of Research Publications of International standard  Convener: <b>Dr B.S. Chauhan</b>  Rapporteur: <b>C.R. Chethan</b></p>
13:00- 14:00	<b>Lunch/Posters</b>
<b>TEC HNICAL SESSIONS (Concurrent Sessions in MH, Hall 1 and 2)</b>	
<b>Venue: Main Hall</b>	
14:01 -16:30	<p><b>TECHNICAL SESSION 9:</b> Weed management in cash crops and minor crops</p> <p>Chair: <b>Dr Anupam Mishra</b>  Rapporteurs: <b>Dr Puja Ray</b></p> <p><i>Weed dynamics and its management in spring planted sugarcane</i>  <b>Dr Ramesh K. Singh</b> Lead</p> <p><i>Weed management in hill ecology of North-east India</i>  <b>Dr D.J. Rajkhowa</b> Lead</p>

*Major weeds and their management in fodder crops*

**Dr Pijush K. Mukherjee** Oral

*Challenges and opportunities of weed management in sugarcane*

**Dr V.P. Singh** Oral

*Screening of herbicides for selectivity in irrigated flue cured tobacco grown in alfisols of Andhra Pradesh*

**Uma Mahesh Mnva** Oral

*Effect of seed rate, row spacing and herbicide on weeds and yield of flax fibre (*Linum usitatissimum* L.)*

**Dr Mukesh Kumar** Oral

*Weed management in bidi tobacco (*Nicotiana tabacum* L.) nursery*

**Sonaka Ghosh** Oral

*Effect of chemical herbicides on weed management and performance of spring planted sugarcane in Gangetic alluvium of eastern India*

**Dr Bikas Mandal** Oral

*Field evaluation of interculture-cum-fertilizer applicator in cotton crop*

**Dr Deepak Thorat** Oral

*Integrated weed management in cotton*

**Dr Kamala Bai** Oral

*Influence of different herbicides on forage yield and quality of oats*

**Dr Maninder Kaur** Oral

*Studies on bioefficacy of imidazolinone herbicides in black gram and their residual effect on succeeding pearl millet and sorghum crops*

**Kartik** Oral

Discussion and concluding remarks by Chair

### Venue: Hall 1

14:01 -16:30

**TECHNICAL SESSION 10:** Herbicide residues, monitoring, mitigation and effect on non-target organisms in weed management

Chair: **Dr Shashi Bala Singh**

Rapporteurs: **Dr Rabiratna Dash**

*Toxicological significance of MRLs with special reference to glyphosate: let's talk about*

**Dr Shobha Sondhia** Lead

*Leaching potential of pyriithiobac-sodium in red and black soils*

**Dr T. Ramprakash** Oral

*Dissipation kinetics and residues of pendimethalin in soil, straw and grain of rainy season mungbean*

**Dr Lalit Kumar** Oral

*Mitigation of herbicide residues through efficient bacterial consortia*

**Dr Kaberi Mahanta** Oral

*Soil microbial population in response to applied herbicides in greengram*

**Manisha Rout** Oral

*Mitigation measures for atrazine in soil under maize*

**Dr Bharathi Chandrasekaran** Oral

*Residual phytotoxicity effects of different integrated herbicides management in soils from field-treated plots and post-harvest field*

**Dr Sunil K. Chhodavadia** Oral

*Fate of metsulfuron methyl and clodinafop propargyl in wheat*

**Dr Irani Mukherjee** Oral

*Simultaneous determination of 146 multiclass pesticides in soil by LC-MS/MS*

**Dr Tirthankar Banerjee** Oral

*Impact of herbicide mixtures on enzyme activity in puddled rice soil*

**Dr Sheeja K. Raj** Oral

*Evaluation of different post-emergence herbicides as alternative to imazethapyr for weed control in Kharif pulses and their residual effect on succeeding wheat and mustard*

**Dr N.K. Jat** Oral



	<p><i>Dissipation studies of bispyribac sodium in rice cropped soil and its terminal residues in rice grain</i>  <b>Dr Neelam Sharma</b> Oral</p> <p>Discussion and concluding remarks by Chair</p>
<b>Venue: Hall 2</b>	
14:01 -16:30	<p><b>TECHNICAL SESSION 11: New herbicides molecules/formulations and low dose herbicides including nano-herbicides</b></p> <p>Chair: <b>Dr A.R. Sharma</b></p> <p>Rapporteurs:</p> <p><i>Glyphosate: Myths, Reality, Claims and Apprehensions</i>  <b>Monsanto representative</b> Lead</p> <p><i>Effect of nanoparticles on the absorption and translocation of glyphosate in Cyperus rotundus L. and its management</i>  <b>Dr C.R. Chinnamuthu</b> Lead</p> <p><i>Evaluation of PriorityTM Plus 31.95 WG with ArylexTM active for post emergence weed control in wheat in India</i>  <b>Dr Vinod Mehra</b> Oral</p> <p><i>Evaluation of new herbicide molecules in transplanted rice as influenced by seedling number</i>  <b>Dr Raihana Habib Kanth</b> Oral</p> <p><i>Response of diquat on garden pea and associated weeds</i>  <b>Dr Vipin Dhyani</b> Oral</p> <p><i>Efficacy of Halauxifen methyl + Pyroxsulam on broad Spectrum Weeds Control in Wheat</i>  <b>Dr S.P. Singh</b> Oral</p> <p><i>Efficacy of XR-848 Benzyl ester + Penoxsulam for weed control in transplanted rice</i>  <b>Dr Tej Pratap</b> Oral</p> <p><i>Halauxifen+ florasulam+ carfentrazone- A new herbicide mixture to manage broad leaf weeds in wheat</i>  <b>Anubha Singh</b> Oral</p> <p><i>Evaluation of NovlectTM 120 EC (a premix combination of RinskorTM active and Cyhalofop) for grass, sedge and broadleaf weed control in puddled direct seeded rice in India</i>  <b>Dr Sunil Kumar</b> Oral</p> <p><i>Evaluation of suitable encapsulation and loading materials for engineering slow release herbicide formulations for season-long weed management</i>  <b>Dr N. Bommayasamy</b> Oral</p> <p><i>Bioefficacy of various herbicides in green gram and their residual effect on succeeding mustard crop</i>  <b>Dr P. Kumaresan</b> Oral</p> <p><i>Effect of pre-and post-emergence herbicides on weed growth and yield of maize and their residual effect on succeeding greengram</i>  <b>Dr Subramanyam Doddaga</b> Oral</p> <p>Discussion and concluding remarks by Chair</p>
16:31-17:30	<p><b>Closing ceremony (in MH)</b>  <b>Vote of Thanks</b></p>
17:31-18:00	<b>High Tea</b>
	<b>Saturday, November 24, 2018</b>
	<b>Field visits and Excursion</b>