

TECHNICAL PROGRAMME

OF

XXI Biennial National Symposium

on

**Doubling Farmers' Income Through Agronomic
Interventions Under Changing Scenario**

24–26 October, 2018

MPUAT, Udaipur, Rajasthan



MPUAT, Udaipur



Organizers

Indian Society of Agronomy, New Delhi

Indian Council of Agricultural Research, New Delhi

Maharana Pratap University of Agriculture & Technology,
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**TECHNICAL PROGRAMME
NATIONAL SYMPOSIUM ON**

**Doubling Farmers' Income Through Agronomic Interventions
Under Changing Scenario**

24–26 October, 2018

Venue: Rajasthan College of Agriculture (RCA), MPUAT, Udaipur

Registration **Venue: Outside New Auditorium, RCA**
October 23, 2018 **Time : 14.00 PM TO 19.00 PM**
October 24, 2018 **Time : 8.00 AM TO 18.00 PM**

DAY 1 : OCTOBER 24, 2018

10.00–12.00 **Inaugural Function and Award Ceremony**
Venue: New Auditorium, RCA
Chief Guest : Prof. Ramesh Chand, Member, NITI Aayog, Govt. of India
Chairperson : Prof. U.S. Sharma, Vice Chancellor, MPUAT, Udaipur
Guest of Honour : Dr N.S. Rathore, DDG (Education), ICAR, New Delhi

12.00–12.30 **High Tea**

12.30–14.00 **Dr P.S. Lamba Memorial Lecture and Farmers' Experience**
Venue: New Auditorium, RCA
Chair : Dr NS Rathore, DDG (Ag. Education), ICAR, New Delhi
Co-Chair: Dr S. Pasupalak, Vice Chancellor, OUAT, Bhubaneswar
Dr G.L. Keshwa, Vice Chancellor, Agricultural University, Kota
Convener : Dr N.K. Jain, Principal Scientist, HRM Unit, ICAR
Rapporteur : Dr Shiva Dhar, Principal Scientist, IARI, New Delhi
Farmers' Experience : 1. Shri Nand Lal Dhakar, Udaipur, Rajasthan
2. Shri Rajesh Kheri, Kaithal, Haryana
3. Shri Ravinder Thakur, Indore, M.P.
4. Sh. Vadibhai Ravjibhai Patel,
Banaskantha, Gujarat

Dr P.S. Lamba Memorial Lecture : Prof. Ramesh Chand, Member
NITI Aayog, Govt. of India

India's Agricultural Challenges: Opportunities and Development Policies

Lecture : Dr T.C. Jain, Former Senior Agriculturist, World Bank
Outlining the Role of Agronomists in Doubling Farmers' Income in Changing Scenario

14.00–14.45 Lunch

14.45–17.00 CONCURRENT TECHNICAL SESSIONS

Session IA: Efficient Management of Low-or no-cost Inputs and Bio-resource Utilization

Venue: New Auditorium, RCA

Chair: Dr Arvind Kumar, VC, RLB CAU, Jhansi, Uttar Pradesh

Co-chair: Dr D.K. Sharma, Former-Director, CSSRI, Karnal, Haryana

Dr R.K. Rai, Former Professor and Head, Agronomy, IARI, New Delhi

Convener: Dr J.S. Mishra, Head, Crop Research, ICAR-Res. Complex for Eastern Region, Patna, Bihar

Rapporteurs: Dr Janardan Singh, Professor, Agronomy, CSKHPKV, Palampur, Himachal Pradesh

Dr Farooq Ahmad Aga, Professor, Dte. of Ext., SKUAST (K), Shalimar, Srinagar, J&K

Keynote Dr R.L. Yadav, Former Director, IISR, Lucknow, Uttar Pradesh

Speakers ***Innovation in input management for enhancing farmer's income***

Dr V.K. Singh, Head, Division of Agronomy, IARI, New Delhi

Precision input management for higher resource-use efficiency and profits

Lead Speakers Mr. Neeraj Kumar Awasthi, Regional Agronomist, International Business Development, Sirius within India

Poly 4 – A new dimension in improving farmers income and sustaining soil fertility with minimal carbon footprint

Dr H.B. Babalad, Professor and Head, Organic Farming Research Centre, UAS, Dharwad, Karnataka

Organic agriculture- A scientific approach towards sustaining production and doubling farm income

Dr J.S. Mishra, Head, Crop Research, ICAR Research Complex for Eastern Region, Patna, Bihar

Low cost technologies for rice fallow management

Dr J.P. Saini, Head, Department of Organic Farming, CSKHPKV, Palampur, H.P.

Organic farming- A tool for doubling the farmer's income

Rapid Fire Dr B.G. Shivakumar, Officer-in-charge, IGFRI- Southern RRS, Dharwad Karnataka,

Presentations ***Enhancing monetary returns through improved agro- techniques in congo-signal grass (Brachiaria ruziziensis) in sub-tropical conditions of northern plains of Karnataka***

Dr V.S. Khawale, Professor of Agronomy, College of Agriculture, Nagpur, Maharashtra

Response of cotton to different fertilizer grades fortified with humic acid

Dr V.P. Singh, Head, Crop Production, IISR, Dilkusha, Lucknow, Uttar Pradesh

Impact of trash mulching as an active component of integrated weed management technique for season-long weed control in sugarcane

Dr B. Sreedevi, Principal Scientist, IIRR, Hyderabad, Telangana

Impact of nitrogen dosage and weed interaction on the performance of aerobic rice

Session-IB: Efficient Rain and Irrigation Water Management

Venue: Seminar Hall, Directorate of Research, RCA Campus

Chair: Dr A.S. Faroda, Former Chairman, ASRB, ICAR, New Delhi

Co-chair: Dr A.K. Gupta, Dean, College of Agri-Business, SKNAU, Jobner, Rajasthan

Dr M.K. Arvadia, Principal, NM College, Navsari, Gujarat

Convener: Dr G. Ravindra Chary, PC AICRPDA, CRIDA, Hyderabad, Telangana

Rapporteurs: Dr P.S. Bodake, Chief Scientist, AICRP on Water Management, MPKV, Rahuri, Maharashtra

Dr A. Velayutham, Professor of Agronomy, Water Technology Centre, TNAU, Coimbatore, Tamil Nadu

Keynote Speakers: Dr D.P. Singh, Former Vice Chancellor, JNKVV, Jabalpur, M.P.

Genetic and management options for improving productivity and economic efficiency of water in irrigated and rainfed environments

Dr V. Praveen Rao, Vice Chancellor, PJTSAU, Hyderabad, Telangana

Doubling farmers income: Microirrigation – An efficient tool to achieve the goal

Lead Speakers: Dr G. Ravindra Chary, PC AICRPDA, CRIDA, Hyderabad, Telangana

Rainwater management in semiarid and subhumid regions: Key challenges and strategies

Dr B.J. Pandian, Director, Water Technology Centre, TNAU, Coimbatore, Tamil Nadu

Micro irrigation intervention - New approach to increase, farmers income

Dr N.D. Yadava, Head, Regional Research Station, CAZRI, Bikaner, Rajasthan

Efficient rainwater harvesting and management for crop production in Arid Western Rajasthan

Rapid Fire Presentations: Dr B.K. Kandpal, Joint Director, Tripura Centre, ICAR-RC-NEH Region, Tripura

Agronomic interventions for higher productivity and profitability in North-East Hill Region

Dr Rakesh Sammauria, Professor, RARI, Durgapura, Jaipur, Rajasthan

An approach to sustainable livelihood by suitable integrated farming system model for small farm unit under semi-arid irrigated plains of Rajasthan

Dr S.P.S. Tanwar, Principal Scientist (Agronomy), CAZRI, Jodhpur, Rajasthan

Rainfed farming systems for Arid Zone of India

Dr Chandra Gupta, Principal Scientist (Agronomy), IISR, Lucknow, Uttar Pradesh.

Enhancing sugarcane productivity through different planting methods and irrigation scheduling

17.00–17.30 Tea

17.30 –18.30 Special lecture

Venue: New Auditorium, RCA

Speaker: Prof. Janat Shah, Director, IIM, Udaipur, Rajasthan

Management perspective of doubling farmers' income

Chair: Dr T.C. Jain, Former Senior Agriculturist, World Bank

Co-chair: Dr U.S. Sharma, Vice Chancellor, MPUAT, Udaipur, Rajasthan

Convener: Dr V.K. Singh, Head, Agronomy, IARI, New Delhi

Rapporteur: Dr S.K Sharma, ZDR, MPUAT, Udaipur, Rajasthan

19.00–20.30 Cultural Programme

Venue: Bhartiya Lok Kala Mandal, Udaipur

20.30–22.00 Dinner

Venue: Bajaj Rotary Club, Infront of Sanjay Park, Fathesagar Road

DAY 2: OCTOBER 25, 2018

9.00–11. 00 CONCURRENT TECHNICAL SESSIONS

Session- IIA : Diversification for Sustainable Resource Use and Farm Income Under Changing Scenario

Venue: New Auditorium, RCA

Chair: Dr G.B. Singh, Former DDG (NRM), ICAR, New Delhi

Co-chair: Dr A.K. Singh, Vice Chancellor, BAU, Sabour, Bihar

Dr S. Bhaskar, ADG (Agronomy, Agroforestry & Climate Change), ICAR, New Delhi

- Convener: Dr B. Gangaiah, Head, CIARI, Port Blair, Andaman & Nicobar
- Rapporteurs Dr M.D. Vyas, Professor, COA, Sehore, Madhya Pradesh
Dr V.P. Singh, Head, Crop Production, IISR, Lucknow, Uttar Pradesh
- Keynote Dr P.K. Ghosh, National Coordinator, NAHEP, ICAR, New Delhi
- Speakers ***Soil carbon management through crop diversification and sustainable intensification***
Dr S.V. Angadi, Professor, New Mexico State University, USA
Crop diversification for sustainable soil and water resources use in Semi-Arid Regions of USA
- Lead speakers Dr N.C. Jain, APCCF, WP&FS, Rajasthan, Jaipur, Rajasthan
Forestry interventions for enhancing farmers income
Dr D.S. Rana, ICAR-Emeritus Scientist, IARI, New Delhi
Agricultural diversification: An option for managing human-wild life conflict
Dr H.P. Maheswarappa, Project Coordinator (Palms), CPCRI, Kasaragod, Kerala
Doubling farmers' income through Palm based cropping/ farming systems under different agro-climatic regions of India
- Rapid Fire Presentations Dr C.S. Praharaj, Head, Crop Production Division, IIPR, Kanpur, Uttar Pradesh
Enhancing pulses production in constrained rice fallows of India
Dr V. Chandrika, Professor, S.V. Agricultural College, Tirupati, Andhra Pradesh
Evaluation of remunerative foxtail millet (*Setaria italica* L.) based intercropping systems under late sown conditions
Dr B. Gangaiah, Head, NRM, CIARI, Port Blair, Andaman & Nicobar Islands
Farming diversification trends, opportunities and challenges in Islands regions of India
Dr S.C. Negi, Chief Scientist, Agronomy, CSKHPKV, Palampur, Himachal Pradesh
Evaluation of alternative cropping systems for mid hill condition of Himachal Pradesh
- Session IIB : IFS and ICM for Different Agro-ecosystems and Resourcefulness**
Venue: Seminar Hall, Directorate of Research, RCA Campus
- Chair: Dr A.K. Dahama, Former Vice Chancellor, SKRAU, Bikaner, Rajasthan

- Co-chair: Dr N.P. Singh, Director, NIASM, Malegaon, Baramati, Maharashtra.
Dr A.S. Panwar, Director, IIFSR, Modipuram, Uttar Pradesh
- Convener: Dr U.V. Mahadakar, Associate Dean, COA, Dapoli, Maharashtra
- Rapporteurs: Dr. W.N. Narkhade, Professor, Agronomy, VNMKV, Parbhani, Maharashtra
Dr Rajiv Kumar Singh, Principal Scientist, Agronomy, IARI, New Delhi
- Keynote Speaker Dr B. Gangawar, Former Director, IIFSR, Modipuram, Uttar Pradesh
Integrated Farming Systems Approach for doubling farm income under changing climate
- Lead speakers Dr A.S. Panwar, Director, IIFSR, Modipuram, Uttar Pradesh
Opportunities and challenges of doubling farmers income in Indo-Gangetic Plains (IGP) through Integrated Farming Systems
Dr S.D. Singh, APCCF, Uttarakhand
Topic: Agro-forestry options for enhancing farm income
Dr C. Jayanthi, Director, TNAU, Coimbatore
Integrated cropping and farming systems management strategies for efficient resource use and enhanced profitability
Dr J.S. Borha, Head, Department of Agronomy, IAS, BHU, Varanasi, Uttar Pradesh
Integrated farming system for enhanced productivity and income of small and marginal farm households of Eastern Plain and Vindhyan Region
- Rapid Fire Presentations Dr A.M. Patel, Chief Agronomist, S.D. Agricultural University, Sardarkrushinagar, Gujarat
Sustainability of farm and farmers through Eco-friendly Integrated Farming System approach under North Gujarat Agro-climatic situations
Dr M.S. Yadava, Chairman, Department of Agronomy, BAU, Kanke, Ranchi, Jharkhand
Improving farmer's income by integrated farming systems
Dr R.P. Sharma, Professor, Agronomy, BAU, Bhagalpur, Sabour, Bihar
Integrated farming system options for augmenting income of small and marginal farm holdings of Bihar
Dr Sanjeev Kumar, Principal Scientist, Agronomy, ICAR-RCER, Patna, Bihar
Productivity and income sustainability through integrated farming systems for small and marginal farmers of Bihar

11.00-11.30 Tea

11.30–13.30 CONCURRENT TECHNICAL SESSIONS

Session –IIIA: Conservation Agriculture and Climate Resilient Agronomy

Venue: New Auditorium, RCA

Chair: Dr V. Praveen Rao, VC, P.J. Telangana State Agriculture University, Hyderabad, Telengana

Co-chair: Dr M.S. Shaktawat, Former Director Extension, MPUAT, Udaipur, Rajasthan

Dr A.R. Sharma, Director Research, RLB CAU, Jhansi, Uttar Pradesh

Convener: Dr T.K. Das, Principal Scientist, Agronomy, IARI, New Delhi

Rapporteurs: Dr S.P.S. Tanwar, Principal Scientist (Agronomy), CAZRI, Jodhpur, Rajasthan

Dr L.R. Yadav, Professor, Agronomy, SKNAU, Jobner, Rajasthan

Keynote Dr S. Pasupalak, Vice Chancellor, OUAT, Bhubaneswar, Odisha

Speakers ***Crafting physical science for Climate Resilient Agriculture***

Dr S. Bhaskar, ADG (Agronomy, Agro-forestry and Climate Change), ICAR, New Delhi

Addressing climatic variability through Climate Resilient Agronomy

Lead speakers Dr A.R. Sharma, Director (Res), RLB CAU, Jhansi, Uttar Pradesh

Myths and realities of conservation agriculture systems

Dr Sammunder Singh, Professor & Head, Agronomy, COA, CCS HAU, Hisar, Haryana

Doubling farmers' income through efficient weed management – role of agronomic interventions and climate change

Dr M.L. Jat, Senior Cropping Systems Agronomist, CIMMYT, New Delhi

The new edge agronomy for conservation agriculture based sustainable intensification in India

Dr T.K. Das, Principal Scientist, Division of Agronomy, IARI, New Delhi

Cereal system conservation agriculture-Lesson learnt and way ahead

Rapid Fire Presentations Dr N.K. Sharma, Head, Soil Science and Agronomy, IISWC, Dehradun, Uttarakhand

Conservation agronomic practices for sustainable production in North Western Himalaya Region

Dr Sunil Kumar, Head, Crop Production Division, IGFRI, Jhansi, Uttar Pradesh

Innovations for climate resilience in semiarid-tropics of central India through resource conservation on perennial fodder-food based systems

Dr Narendra Kumar, Principal Scientist (Agronomy), IIPR, Kanpur, Uttar Pradesh

Long-term CA practices effect on system productivity, soil health and sustainability of rice–wheat cropping system in IGP

Dr D.R. Palsaniya, Senior Scientist, IGFRI, Jhansi, Uttar Pradesh

Resource conserving technologies (RCTs) for improving productivity, income and soil health in fodder sorghum based cropping systems

Session- IIIB: Organic, Precision and Contractual Farming

Venue: Seminar Hall, Directorate of Research, RCA Campus

Chair: Dr P.S. Rathore, Vice Chancellor, SKNAU, Jobner, Rajasthan

Co-chair: Dr M.A. Shankar, Former, DOR, UAS, Bangaluru, Karnataka
Dr P.K. Ghosh, National Coordinator, NAHEP, ICAR, New Delhi

Convener: Dr Dilip Singh, Professor and Head, MPUAT, Udaipur, Rajasthan

Rapporteurs: Dr Dinesh Kumar, Principal Scientist, Division of Agronomy, IARI, New Delhi

Dr J.K. Bisht, Principal Scientist, VPKAS, Almora, Uttarakhand

Keynote Speakers Prof. Arun K. Pujari, Vice Chancellor, Central University, Bandar Sindri, Ajmer, Rajasthan

Scope and prospects of contractual farming for enhancing farmers' income

Dr N. Ravisankar, Project Coordinator, IIFSR, Modipuram, Uttar Pradesh

Organic farming: Research experience, challenges and way forward for India

Lead speakers Dr R.K. Avasthe, Director, NOFRI, Gangtok, Sikkim

Cluster-based organic farming for doubling income of small and marginal land holders of North-East India

Dr S.K. Sharma, ZDR and Director CAFT on Organic Farming, MPUAT, Udaipur, Rajasthan

Strategies for achieving sustainable food systems through organic agriculture

Dr D.K. Singh, Professor, Agronomy, GBPUAT, Pantnagar, Uttarakhand

Organic farming: Opening avenues for ecological and economic sustainability

Rapid Fire Presentations Dr P. Parasuraman, Head, Centre of Excellence in Millets, TNAU, Tiruvannamalai, Tamil Nadu

Effect of organic foliar spray on growth and yield of ragi (Eleusine coracana) in Tiruvannamalai District

Dr Dinesh Kumar, Principal Scientists, Agronomy, IARI, New Delhi

Long-term influence of nutrient management practices on productivity and profitability of organic rice-based cropping systems

Dr Aditya Kumar Singh, Principal Scientist, IIMR, Ludhiana, Punjab

Precision nutrient management and conservation agriculture practices for enhancing productivity, profitability and water-use efficiencies of maize-wheat-mungbean cropping system

Dr Hari Ram, Senior Agronomist (Wheat), PAU, Ludhiana, Punjab

Site specific nitrogen management through Leaf Colour Chart and Green Seeker in different wheat varieties in North-Western Plains

Session III-C Rapid Fire Presentations

Venue: IPM Theatre, RCA

Chair: Dr D.P. Singh, Former Vice Chancellor, JNKVV, Jabalpur, M.P.

Co-chair: Dr R.L. Yadav, Former Director, IISR, Lucknow, Uttar Pradesh

Dr J.P. Sharma, Joint Director AE & Research, IARI, New Delhi

Convener: Dr Raj Singh, Principal Scientist, Division of Agronomy, IARI, New Delhi

Rapporteur: Dr Kapila Shekhawat, Senior Scientist, Division of Agronomy, IARI, New Delhi

Speakers Dr S.S. Walia, Senior Agronomist, PAU, Ludhiana, Punjab

Organic farming maize-potato-onion cropping system

Dr S.S. Rao, Principal Scientist, Agronomy, NBSS&LUP, RC, Udaipur, Rajasthan

Land resource utilization by different crops in India: Need for effective land use planning

Dr P.S. Bodake, Chief Scientist, AICRP on Water Management, MPKV, Rahuri, M.S.

Potential irrigation management options for climate resilience under scarcity zone of Maharashtra

Dr G. Pratibha, Principal Scientist, CRIDA, Hyderabad, A.P.

Conservation agriculture for sustainable intensification of rainfed regions

Dr Ummed Singh, Dean, Agriculture University, Mandor, Jodhpur, Rajasthan

Multi-nutrient supplements enhances chickpea (Cicer arietinum L.) yield under on farm trials

Dr Ravindra Singh, Principal Scientist, NRCSS, Tabiji Ajmer, Rajasthan

Off season production of leafy coriander under shade net covered walk in tunnels for doubling farmers income

Dr S.K. Sarangi, Principal Scientist, Agronomy, CSSRI, RRS, Canning Town, W.B.

Zero tillage potato cultivation with paddy straw mulching increase yield, water productivity and income in the coastal saline soils

Dr Raj Singh, Principal Scientist, Division of Agronomy, IARI, New Delhi

Crop diversification and intensification strategies: A key to doubling small and marginal farmer's income

Dr P.K. Nayak, Principal Scientist, NRRI, Cuttack, Odisha

Rice- Fish- Live Stock based integrated farming system: A viable option for farm sustainability and doubling of farm income in Eastern India

Dr R.K. Agrawal, Principal Scientist & P I (AICRPFUCU–Agronomy), IGFRI, Jhansi

Real-time contingency plan to cope with midseason drought in rainfed sorghum under semi arid rainfed conditions of Bundelkhand

Dr V. Maruthi, Principal Scientist, CRIDA, Hyderabad, Telangana

Small farm cropping systems for progressive establishment of IFS module for climate variability in semi-arid tropics

Dr S.S. Rathore, Principal Scientist, Agronomy, IARI, New Delhi

Agri-horti system for enhancing farm productivity and doubling profitability under limited irrigation conditions

Dr M.R. Umesh, Agronomy, UAS, Raichur, Karnataka

Need based nitrogen fertilizers application by use of leaf colour chart thresholds and its effect on productivity of maize (Zea mays L.) in Vertisols

Dr Anil K. Choudhary, Sr. Scientist (Agronomy), IARI, New Delhi

Integrated crop management modules for enhancing system productivity and profitability in soybean–wheat and pigeonpea–wheat cropping systems in Indo-Gangetic plains region

Dr R.R. Hasure, Agronomist, RS and JRS, MPKV, Rahuri Kolhapur Maharashtra

Response of tomato crop to micrometeorological parameters with different foliar sprays under drip irrigation in inceptisol

Dr Latheef Pasha, Senior Scientist (Agronomy), PJTSAU, Hyderabad, Telangana

Crop and livestock diversification for lucrative farming under marginal households

Dr B.S. Raskar, Agricultural Research Station, Niphad, Nashik, Maharashtra

Development of integrated farming system model for marginal and small farmers of Western Maharashtra

Dr K.J. Kubde, Associate Professor, Agronomy, Dr PDKV, Akola, Maharashtra

Climate resilient blackgram production technique through high density planting and fertilizer management

Dr Magan Singh, I/C Agronomy Section, NDRI, Karnal, Haryana

Yield and Quality performance of forage sorghum cultivars under different nutrient management

Dr Ram Avtar Jat, Senior Scientist (Agronomy), DGR, Junagadh, Gujarat

Productivity, profitability, and soil health under conservation agriculture in groundnut-based intercropping systems in black calcareous soils of Saurashtra in Gujarat

Dr Teekam Singh, Senior Scientist (Agronomy) IARI, New Delhi

Weed competitiveness of boro rice varieties under different establishment techniques

Dr Kapila Shekhawat, Senior Scientist, Division of Agronomy, IARI, New Delhi

Nitrogen and weed management in conservation agriculture based maize-wheat cropping system

Dr Deepak Kumar, Rajasthan College of Agriculture, MPUAT, Udaipur, Rajasthan

Zero budget natural farming

Dr Amit Jha, Assistant Professor, Agronomy, JNKVV, Jabalpur, Madhya Pradesh

Raised bed planting system to mitigate the climatic effect on soybean-wheat cropping system Madhya Pradesh

Dr Kailash Prajapat Scientist (Agronomy), CSSRI, Karnal, Haryana

Prospects of Quinoa for assured production and enhancing income under saline soils of India

Dr B.A. Gudade, Scientist, Agronomy, RRS, Spices Board, Tadong, Gangtok, Sikkim

Effect of in-situ soil water conservation practices on growth and yield of large cardamom at North Sikkim

Dr R.S. Bana, Scientist (Senior Scale), Agronomy, IARI, New Delhi

Sustainable intensification of pearl millet-mustard systems

through conservation agriculture for enhancing productivity and resource use efficiency under semi-arid ecologies

Dr C.M. Parihar, Scientist, IARI, New Delhi

Impact of long-term conservation agriculture practices on crop productivity and soil and environmental health

Dr S.L. Jat, Scientist, IARI, New Delhi

Nitrogen and residue management in conservation agriculture for enhancing productivity and profitability of maize systems

Dr M.A. Ansari, Scientist, ICAR Research Complex for NEH Region, Imphal, Manipur

Doubling the farmers income, livelihood and nutritional security through sustainable intensification of integrated farming in hill ecosystem

Dr R.L. Choudhary, Scientist, Agronomy, DRMR, Bharatpur, Rajasthan

Conservation agriculture for enhancing resource-use efficiency, cane productivity and soil health in sugarcane cropping system

Dr Pravin Kumar Upadhyay, Scientist, Agronomy, IARI, New Delhi

Residual effect of time and rate of panchagavya application in combination with different NPK doses on yield of lentil

Dr G.A. Rajanna, Scientist, Agronomy, IARI, New Delhi

Water and nutrient interactions in soybean genotypes under different land configurations

Dr Raghavendra Madar, Scientist (Agronomy), ICAR-IISR, Khandwa Road, Indore, M.P.

Residue and potassium management practices under conservation agriculture based maize-wheat cropping system in indo-gangatic plains India

Dr A.G. Shitu, ICAR International Research Fellow & Ph.D. Scholar, ICAR-IARI, Pusa, New Delhi

Rethinking conservation agriculture through modelling seven year agricultural cycle for doubling farmers' income and improved welfare

13.30-14.30 Lunch

14.30-16.30 CONCURRENT TECHNICAL SESSIONS

Session – IVA: Farm Mechanization, Post-harvest Management, Processing, Value Addition and Marketing

Venue: New Auditorium, RCA

Chair: Dr N.S. Rathore, DDG (Education), ICAR, New Delhi

Co-chair: Dr R.P. Singh, Former Head, Agronomy IARI and Executive Secretary, IAUA, New Delhi

- Dr A.M. Patel, Director of Res. & Dean, PGS, SKDAU, SK Nagar, Gujarat
- Convener: Dr L.M. Garnayak, Dean, COA, OUAT, Bhubaneswar, Odisha
- Rapporteurs: Dr Ramamurthy V. Principal Scientist, NBSSLUP, Bengaluru, Karnataka
Dr Arun Kumar Barik, Professor, Agronomy, Visha Bharti University, Sriniketan, West Bengal
- Keynote Speaker Dr N.S. Rathore, DDG (Education), ICAR, New Delhi
Mechanization and secondary agriculture
- Lead speakers Dr A.K. Mehta, Director Research, MPUAT, Udaipur, Rajasthan
Post harvest management and value addition – A step ahead in Food Security
Dr S.S. Burark, Former Director of Research & Emeritus Scientist, MPUAT, Udaipur, Rajasthan
Opportunities for agri-business in India
Dr P.S. Tiwari, Head, Agricultural Mechanization Division, CIAE, Bhopal
Farm mechanization, post harvest management, processing, and value addition
Dr A.K. Singh, Head, Farm Mechanization, IISR, Lukhnow, Uttar Pradesh
Enhancing income of farmers through mechanization in sugarcane based cropping systems
- Rapid Fire Presentations Dr Anchal Dass, Principal Scientist, Agronomy, IARI, New Delhi
Machine-planted system of wheat intensification improves wheat productivity
Dr S.J. Sindhi, Assistant Professor, Agronomy, COA, JAU, Khapat, Porbandar, Gujarat
Potential and challenges of Gujarat state in doubling farmers' income
Dr Amit Bhatnagar, JRO, Agronomy, College of Agriculture, GBPUA&T, Pantnagar, Uttarakhand
Effects of mechanized simultaneous earthing up and urea application on maize
- Session - IVB: Agronomy Education, Training, Technology and Enabling Policies to Support Income Generating Activities**
Venue: Seminar Hall, Directorate of Research, RCA Campus
- Chair: Dr V.M. Bhale, VC, Dr Panjabrao Deshmukh Krishi Vidyapeeth Krishi Nagar, Akola, Maharashtra
- Co-chair: Dr Kalyan Singh, Former Dean, IAS, BHU, Varanasi, Uttar Pradesh
- Presentations Dr S.D. Singh, APCCF, Uttarakhand

- Convener: Dr Anil Dixit, Principal Scientist, Agronomy, NIBSM, Raipur, Chhattisgarh
- Rapporteurs: Dr B. Sreedevi, Scientist (Agronomy), IIRR, Rajendranagar, Hyderabad, Telangana
 Dr Rakesh Sammauria, Professor, Agronomy, RARI, Durgapura, Jaipur, Rajasthan
- Keynote Speaker: Dr Arvind Kumar, Vice Chancellor, RLB CAU, Jhansi, Uttar Pradesh
Innovative agronomic approaches for enhanced crop productivity and income under climate change scenerio
- Lead speakers: Dr B.S. Mahapatra, Professor, Agronomy, GBPUA&T, Pantnagar, Uttarakhand
Agronomic education, training, technology and enabling policies for income generating activities
 Dr R.K. Pannu, Former Dean and ICAR-Emeritus Scientist, HAU, Hisar, Haryana
Dynamics of agronomy education for doubling the income of farmers
 Dr N.P. Singh, Principal Scientist, NIAP, New Delhi
Mainstreaming climate change adaptation into Indian rural development landscape
 Dr Joska Gerendas, K+S Fertilizers (India) Pvt. Ltd., Pune, Maharashtra
Building Capacities of Women Farmers through Better Farming Practices for Rural Prosperity
- Rapid Fire Presentations: Dr Jayant Deka, Dean, Faculty of Agriculture, AAU, Jorhat, Assam
Reorientation of Agronomy Education for Entrepreneurship Development
 Dr R.K. Paikaray, Professor, Agronomy, OUAT, Bhubaneswar
Future of agronomy education–A way forward to meet the trends and challeges of agriculture
 Dr M.L. Kewat, Professor, Agronomy, JNKVV, Jabalpur, Madhya Pradesh
Agronomy education in India: Time for a change
- 16.30–17.00 Tea
- 17.00–20.00 General Body Meeting of the Indian Society of Agronomy
 Venue: New Auditorium, RCA
- 20.00–22.00 Dinner

DAY 3 : OCTOBER 26, 2018

9.00-11.00 Technical Session-V : General Session

Venue: New Auditorium, RCA

Chair: Dr T.C. Jain, Former Senior Agriculturist, World Bank

Co-chair: Dr N.T. Yaduraju, Former Director, DWSR, Jabalpur, M.P.

Dr R.M. Kummur, Former CGM, NABARD, Mumbai

Convener: Dr S.P.S. Tanwar, Principal Scientist, CAZRI, Jodhpur, Rajasthan

Rapporteurs: Dr Rakesh Kumar, Principal Scientist, NDRI, Karnal

Dr Subhash Babu, Scientist, ICAR Research Complex NEH, Region, Shillong, Meghalaya

Speakers Dr T.C. Jain, Former Senior Agriculturist, World Bank

Overview of job opportunities for agronomists

Dr S.K. Soam, Joint Director, NAARM, Hyderabad

Developing winning research proposals

Mr. Yogendra Kumar, Marketing Director, IFFCO

Industry expectation from research institutions

Dr P.K. Jain, Former Professor, MLS University, Udaipur, Rajasthan

Enhancing interpersonal and communication skills

Dr Kalpana Jain, Head Department of Psychology, MLS University, Udaipur, Rajasthan

Psycho-social issues in farmer's entrepreneurship

11.00-11.30 Tea

11.30- 13.00 Valedictory Function

Venue: New Auditorium, RCA

Chief Guest Dr S.L. Mehta, Former VC, MPUAT, Former DDG (Edu.), ICAR

Chairperson Dr A.K. Singh, DDG (AE) ICAR and Director (A), IARI, New Delhi

President ISA Dr A.K. Vyas, ADG (HRM) , ICAR, New Delhi

Presentation of recommendations of each technical session by respective Rapporteur/Convener

Emerging Recommendation Dr T.C. Jain, Former Senior Agriculturist, World Bank

13.00–14.00 Lunch

14.00–17.00 Field Visit

Schedule of Poster Presentation

Venue: Lawn of RCA, Udaipur

Technical Session	Sub-Theme	Date	Time	S.No. of Poster*
IA	Efficient Management of Low-or no-cost Inputs and Bio-resources Utilization	24-10-2018	14:45-17:00	1-137
IB	Efficient Rain and Irrigation Water Management	24-10-2018	14:45-17:00	138-196
IIA	Diversification for Sustainable Resource Use & Farm Income Under Changing Scenario	25-10-2018	9:00-13:30	197-238
IIB	IFS and ICM for Different Agro-ecosystems and Resourcefulness	25-10-2018	9:00-13:30	239-280
IIIA	Conservation Agriculture and Climate Resilient Agronomy	25-10-2018	9.00–13.30	281-345
IIIB	Organic, Precision and Contractual Farming	25-10-2018	14.00–17.00	346-395
IVA	Farm Mechanization, Post-harvest Management, Processing, Value Addition and Marketing	25-10-2018	14.00–17.00	396-425
IVB	Agronomy Education, Training, Technology and Enabling Policies to Support Income generating Activities	25-10-2018	14.00–17.00	426-466

* For serial number see Annexure of Extended Summaries and ISA Website.

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