



IAUA – 14th National Symposium

Creating Enabling Ecosystem in Agricultural Universities for Agri tech innovations : *Challenges and Opportunities*

9th-10th June 2022

University Auditorium, PJTSAU



The Indian Agricultural System is looking at a paradox, where most granaries are full but the wastage of agricultural produce and levels of malnourishment especially in the BPL sectors continues to rise. The self-sufficiency in food production achieved by the country post Green Revolution needs to be reflected in the farm incomes and usher higher level of economic prosperity across this sector. Opportunities emerging in value addition of food produce through technologies are growing and seek to build a new sub-sector targeted to deliver healthy, nutritious, wellness driven food products to the neo-generation clients who have better paying capacities, and higher income. Post pandemic, changing lifestyles haven raised consumer demands for more transparent process of food production systems with adherence to new standard operating practices along with statutory regulatory systems in the agri food sector. The constant demand-supply disparity due to crop failure, lower price realization despite good production, lack of dependable supply chain, unprecedented major vulnerabilities in demand-supply chain of agri-value chains and explore the possibilities of infusion of technology-driven tools across the Agricultural Value Chains (AVC).

Realising this shift in stakeholders needs, agricultural scientists and policymakers at the Centre and State level are pushing for a shift in production oriented farming practices to market demand driven production practices that culminate in price realization for the farmer while sustaining the environment and offering quality produce to the consumer. High value cropping, diversification and integrated farming for optimization of land and water use for enhancing productivity and reducing production costs are some of the interventions suggested. Introduction of digital agriculture, industrialization and mechanization of production processes, connectivity and data management are now set to cater both the demand side and value chain / supply side of the food scarcity equation. All these measures indicate a transformation trend towards ushering on the Fourth Agricultural Revolution that is based on Emerging technologies including Big Data Analytics.

Embracing these emerging technologies would facilitate the agri-food sector to transform from a rural based survival platform to a rural livelihood generating modern business enterprise. This dynamic and continuing transformative landscape also needs to build neo-generation human resources and to that the agri-education sector needs to build some major path-breaking innovative approaches to cater to a new set of client farmers whose technology usage and literacy may be on par with the agri professional. Therefore, the onus to build appropriate skill sets in human resources streaming out of higher education institutions engaged in agri-food sector will be on education administrators and their institutions under the umbrella of NAREES. In tune with new National Educational Policy (NEP) of the Government of India, a formalized convergence platform of technology driven courses with social sciences and business would be an ideal proposition. Such competently trained human resources with basic, technical and managerial skills can create a positive impact at societal level. This responsibility also entails to develop necessary infrastructure, linkages and training opportunities for teaching faculty and policy makers for a seamless deployment and integration of the developed convergence platforms into existing agricultural education structure in the country.

The 14th IAUA Symposium seeks answers from the entire stakeholder community to develop a policy for implementation, that the NAREES institutions can rapidly assimilate into the agri education system.



QUESTIONS TO BE ANSWERED

- i. What are the set of new technologies which can bring in higher levels of predictability, production, profitability and products in the Agri Value Chain?
- ii. What is the new and emerging stakeholder canvas in data-driven agricultural technologies?
- iii. What are major constraints for deployment of data-driven technologies and how can they be reduced?
- iv. What is model for data development and sharing with all stakeholders?
- v. What are legal, ethical and regulatory concerns though adoption of data-driven technologies in AVC? What kind of physical infrastructure and manpower demand is envisioned for building the new ecosystem?

PARTICIPANTS PROFILE

Hon'ble Vice Chancellors,
Deans & Directors of IAUA
member Universities, Senior
Officers of ICAR, Industry
Experts, Policy makers

PROGRAMME

DAY 1 – 9 th June, 2022 (Thursday)		
Inaugural Session		
1000 – 1005 hrs	University Song & Lighting of the lamp	
1005–1015 hrs	Welcome and Introductory Remarks	Dr. V. Praveen Rao, Vice Chancellor, PJTSAU, Hyderabad
1015–1025 hrs	Address by the Guest of Honor	Dr.R.K.Mittal, President , IAUA & Vice Chancellor, SardarVallabh Bhai Patel University of Agriculture Modipuram, Uttar Pradesh
1025–1035 hrs	Address by the Guest of Honor	Sri.S.Siva Kumar Group Head of Agri& IT Businesses, ITC Ltd, Hyderabad
1035 – 1045 hrs	Address by Guest of Honour	Sri.M. Raghunandan Rao, IAS Agriculture Production Commissioner & Secretary to Government, Agriculture & Co-operation Department, Secretariat, Government of Telangana
1045 – 1120 hrs	Address by Chief Guest	Sri. SingireddyNiranjan Reddy Hon'ble Minister for Agriculture, Cooperation, Marketing, Government of Telangana
1120 – 1125 hrs	Vote of Thanks	Dr.Dinesh Kumar Executive Secretary, IAUA, New Delhi
1125 – 1130 hrs	National Anthem	
Rapporteurs	Dr.M.Sreedhar, Director, P&M Cell, PJTSAU Dr.M.Jagan Mohan Reddy, Director, EEI, PJTSAU	
1130–1200 hrs	Networking Break & Group Photo	

PROGRAMME

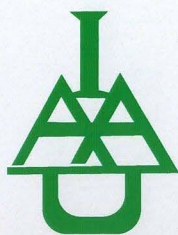
1200-1500hrs	Session I : Potential for Emerging Technologies in the Agri-food Value Chain and Allied Sectors		
Co-Chairs	Dr. V. Praveen Rao, VC, PJTSAU, Hyderabad Dr. S. K. Rao, VC, Rajmata Vijayaraje Scindia Krishi Vishwa Vidhyalaya, Gwalior		
Rapporteurs	1. Dr. G. Sreedevi, P.S & Head, AICRP on Pesticide Residue, PJTSAU 2. Dr. A.V. Ramanjaneyulu, Sr. Scientist & Head, AICRP on Agro Forestry, PJTSAU		
Speaker 1	1200-1215 hrs	Redefining agriculture through agritech innovations	Sri.Hemendra Mathur, Venture Partner, Bharat Innovation Fund IIM, Ahmedabad & Co-Founder, Think Ag & Chairman of Taskforce Agri Startups, FICCI, New Delhi
Speaker 2	1215-1230 hrs	4 th Industrial Revolution technologies to help small and marginal farmers in India	Sri.Purushottam Kaushik, Center for the 4IR India, The World Economic Forum, India
Speaker 3	1230-1245 hrs	Genome Editing Technologies in accelerating food and nutritional security	Dr. Viswanathan Chinnusamy, Head of Department of Plant Physiology, IARI, New Delhi
Food for Thought Lunch 1300 – 1400 hrs			
Panel Discussion : 1400 – 1500 hrs			
Moderator	Mr. S. Siva Kumar, Group Head of Agri & IT Businesses, ITC Ltd.		
Panelist 1	Dr. G.V. Subba Reddy, Vice-President, Coromandel International Ltd, Hyderabad		
Panelist 2	Dr. Rama Devi Lanka, Director, Emerging Technologies, OSD, ITE&C, Department, Government of Telangana		
Panelist 3	Dr. T. Janakiram, VC, Dr. Y.S.R Horticultural University, Andhra Pradesh		
Panelist 4	Dr. V. Ravinder Reddy, VC, P.V.N.R. Telangana Veterinary University, Hyderabad		
1500 – 1625hrs	Session II: Agriculture 4.0 (Smart Farming) Ready Manpower: Stakeholder Perspective		
Co-Chairs	Dr. Ch. Srinivasa Rao, Director, ICAR – NAARM, Hyderabad Dr. Z.P. Patel, Vice Chancellor, Navsari Agricultural University, Gujarat		
Rapporteurs	1. Dr. T. Ramesh, Prof. & Univ. Head (Crop Physiology), PJTSAU 2. Dr. N. Ramagopal Varma, PS (Ento.) Rice Res. Centre, PJTSAU		
Speaker 1	1500-1515hrs	Expectations of Industry for Agri 4.0 Ready Man Power	Sri. Sameer Goel, Managing Director, Coromandel International Ltd, Hyderabad
Speaker 2	1515-1530hrs	Shaping rural youth for food based enterprises under PM-FME Scheme	Sri. Gopinath Koneti, Executive Director, KPMG, Hyderabad
Speaker 3	1530-1545hrs	Digital transformation in Agro-Food Value Chain – Eco system needs	Sri. Deepak Pareek, CEO & Co-Founder, Agri Watch 2.0, New Delhi

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Panel Discussion : 1545 – 1625hrs			
Moderator	Mr.RamKaundinya, Director General, FSII, New Delhi		
Panelist 1	Dr. K.M. Indires, VC, University of Horticultural Sciences, Bagalkote		
Panelist 2	Dr. K. B. Kathiria, VC, Anand Agricultural University, Anand, Gujarat		
Panelist 3	Dr. Kelawala, VC, Kamdhenu University, Gandhinagar, Gujarat		
Tea Break 1625 – 1645hrs			
1645 – 1835 hrs	Session III: Gearing Up for the Emerging Technologies Driven Ecosystem – Challenges and Opportunities for Agricultural Universities		
Co-Chairs	Dr.B.V.Patil, Former Vice Chancellor & Director of Education, UAS, Raichur Dr. Kelawala, VC, Kamdhenu University, Gandhinagar, Gujarat		
Rapporteurs	1. Dr. R.Vijaya Kumari, DDR, O/o Director of Research, Admn. Office 2. Dr. K.N.Yamini, Technical Officer to Dean PG Studies		
Speaker 1	1645–1700hrs	Infrastructure needs – Physical and technical readiness of agricultural universities	Dr.V.Praveen Rao, VC, PJTSAU
Speaker 2	1700–1715hrs	Traditional Tech Universities Vs Agri& food universities – Need for linkages for optimization of resources	Sri. Avik Sarkar, ISB, Mohali, Chandigarh
Speaker 3	1715–1730hrs	Applications of robotics and drone in agriculture	Dr. Narendra Kumar Gontia VC, Junagadh Agricultural University, Gujarat
Speaker 4	1730–1745hrs	ICAR’s vision for developing emerging technologies eco system in IAU member universities	Dr.P.S.Pandey, ADG (EP& HS), Agricultural Education Division, ICAR, New Delhi
Panel Discussion : 1745– 1835hrs			
Moderator	Dr.D.Rama Rao, Former Director, NAARM		
Panelist 1	Dr.B.V.Patil, Former Vice Chancellor & Director of Education, UAS, Raichur		
Panelist 2	Dr. K.C. Veeranna, VC, Karnataka Veterinary Animal & Fisheries Sciences University, Bidar		
Panelist 3	Dr. A. Kiran Kumar, Dean of Horticulture, SKLTSHU, Siddipet, Telangana		
Panelist 4	Mr. P.Laxminarayana, Managing Director, A G Biosystems Bio Ltd., Hyderabad		
Panelist 5	Dr. Raihana Habib Kanth, Dean Agriculture, SKUAST Kashmir		
Wrap Up Dinner hosted by Honourable Vice Chancellor, PJTSAU 1835 hrs onwards at Golkonda Hotel, Masab Tank, Hyderabad			

PROGRAMME

DAY 2 – 10 th June, 2022 (Friday)			
0930 – 1040hrs	Session IV: Converging Partnerships – Academia – Industry Incubators and Startup Journeys		
Co-Chairs	Dr.Arvind Kumar, VC, Rani Lakshmi Bai CAU, Jhansi Dr. K.N. Kattimani, VC, University of Agricultural Sciences, Raichur		
Rapporteurs	1. Dr. G. Uma Devi, Univ. Head (Pathology), PJTSAU 2. Dr. A. Madhavi, PS (Soil Science), Radio Tracer Lab, PJTSAU		
Speaker 1	0930–0915hrs	NDRI's experiences with emerging technologies driven startups and incubators	Dr. M.S.Chauhan, Director, ICAR – NDRI, Haryana
Speaker 2	0915–0930hrs	NABARD's role in establishing incubation center and nurturing startups In agriculture"	Sri.Y.K. Rao, Chief General Manager, NABARD, Telangana
Speaker 3	0930–0945hrs	Academia Industry synergy - Cornell - Indian Agri Universities engagement model	Sri. Vijayaraghavan Kannan, Chairman, Sathguru Management Consultants
Panel Discussion : 0945– 1045hrs			
Moderator	Dr.R.Kalpna Sastry, MD, Aghub, PJTSAU		
Panelist 1	Dr. Girish Chandel, VC, Indira Gandhi Krishi Vishwavidyalaya, Raipur		
Panelist 2	Dr.A.J.Peter, Vice President, BIPA & Chairman Cum Managing Director Varsha Bioscience and Technology India Pvt Ltd, Hyderabad		
Panelist 3	Dr. Jyoti Kachroo, Director Planning & Monitoring, SKUAST, Jammu		
Panelist 4	Ms. Deepti Dutt, Head Strategic Initiatives, Public Sector, AWS, India		
Panelist 5	Dr. Basavaraj Girenavar, Chairman & Managing Director, Criyagen Agri & Biotech Pvt.Ltd, Bangalore		
Tea Break : 1045 - 1100 hrs			
Plenary / Wrap Up Session 1100 – 1200 hrs			
Co-Chairs	Dr. R.K. Mittal, VC, SVPUAT, Meerut Dr. R.M. Chauhan, VC, SDAU, Sardarkrushinagar, Gujarat		
Rapporteurs	1. Dr.K.MadhuBabu, Professor & Head (Agric. Extension), CA, Rajendranagar 2. Dr.T.Supraja, Professor (F&N), College of Community Science, Hyderabad		
Sessions Recommendations	Dr.Seema, Dean of Agriculture, PJTSAU		
Address by Chief Guest	Sri. Jayesh Ranjan, Principal Secretary, Department of Industries & Commerce (I&C) and Information Technology, Electronics & Communications (ITE&C), Government of Telangana		
	Vote of Thanks		
	National Anthem		
Farewell Lunch 1215 hrs onwards			



Indian Agricultural Universities Association (IAUA):

Indian Agricultural Universities Association (IAUA) was established on 10th November, 1967. The main objective of the Association is to promote agricultural research, education and extension in the universities and the states, and thereby rural development in the country. It also acts as a bureau of information to facilitate communication, co-ordination and mutual consultation among agricultural universities. Presently, IAUA has 71 member universities, which include 63 State Agricultural Universities; 4 Deemed to be Universities (IARI, New Delhi; IVRI, Izatnagar; NDRI, Karnal and CIFE, Mumbai), 3 Central Agricultural Universities (CAU, Imphal; Dr. RPCAU, Pusa and RLBCAU, Jhansi) and one Central University with Agriculture Faculty (BHU, Varanasi). Considering the specialization, there are 44 Agricultural, 7 Horticultural, 17 Veterinary and Animal Sciences and 3 Fishery Science Universities in IAUA. All the SAUs and institutions (deemed-to-be universities) and (Central Agricultural Universities) in India, which provide an integrated programme of teaching, research and extension education in agricultural sciences are qualified to become regular members of the Association. The IAUA facilitates conferences, seminars, workshops, lectures and research projects in agricultural and allied programs.



www.pjtsau.edu.in

The Professor Jayashankar Telangana State Agricultural University (PJTSAU)

The Youngest Agricultural University located in Telangana State, instituted on the 3rd of September 2014, Professor Jayashankar Telangana State Agricultural University (PJTSAU) strives to produce globally competitive human capital, generate cutting edge technologies to address contemporary challenges of Agriculture and allied sectors and evolve responsive and dynamic farmer outreach mechanism through dedicated faculty. More than 3500 students are mentored by a 486 strong well qualified young and committed faculty in the 9 constituent colleges, 6 in Agriculture, 1 each in Agricultural Engineering, Food Science & Technology and Community Science, offering 4 undergraduate degree programmes, 20 post graduate and 12 doctoral programmes in various faculties. In addition, there are 12 polytechnics (11 in Agriculture & one in Agricultural Engineering) offering two year Diploma in Agriculture and three year Diploma in Agricultural engineering. The 15 research stations across the state focus on developing climate resilient crop varieties, sustainable natural resource management, community science, farm mechanization, post-harvest and precision agriculture technologies. The 9 DAATCs and 8 KVKs serve as PJTSAU's ambassadors for the research technologies to take root in the farmer's fields.

SPONSORS



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