



# ICAR-NAARM



# NEWSLETTER

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## Director's Message / निदेशक का संदेश

The year 2020 marks 45 years of continued efforts of ICAR-NAARM towards building the capacity of the Indian National Agricultural Research and Education System. The Academy celebrated its 45<sup>th</sup> Foundation Day which was graced by Padma Vibhushan Dr. RS Paroda, Former Secretary, DARE & DG, ICAR as the Chief Guest. The celebration was live streamed on various social media platforms. During the ceremony, the contribution of staff of the academy was appreciated through awards.

During this quarter, despite of pandemic situation, the Academy conducted several activities. Disaster Recovery Centre of ICAR with huge storage capacity and cloud computing facility, synchronized with the Data Centre at ICAR-IASRI, New Delhi was hosted. In addition to the mandated training activities, the Academy also conducted a tailor-made training programme for the IFS probationers. The Massive Open Online Courses on Designing E-Learning Content offered by the Academy got the highest number of registrations from all over the country. The classes for PGDM-ABM course also commenced online. The Academy signed MoUs with six State Agricultural Universities for establishment of Career Development Centres and Faculty Development Centres.

The Academy won four prestigious ICAR Awards including the coveted Rafi Ahmed Kidwai Award for Outstanding Research in Agricultural Sciences & Swami Sahajanand Saraswati Outstanding Extension Scientist Award along with Cash Awards in Administrative and Skilled Support Staff categories. The Academy has been striving to serve the farmers of the country which is recognized by winning the awards every year.

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वर्ष 2020 राष्ट्रीय कृषि अनुसंधान और शिक्षा प्रणाली की क्षमता के निर्माण के लिए आईसीएआर-नार्म के 45 वर्षों के निरंतर प्रयासों को चिह्नित करता है। अकादमी ने अपना 45वां स्थापना दिवस मनाया जो पद्म विभूषण डॉ आर एस परोदा द्वारा मुख्य अतिथि के रूप में मनाया गया। समारोह को विभिन्न सोशल मीडिया प्लेटफॉर्म पर लाइव स्ट्रीम (live stream) किया गया। समारोह के दौरान पुरस्कार के माध्यम से अकादमी के कर्मचारियों के योगदान की सराहना की गई।

इस तिमाही के दौरान, महामारी की स्थिति के बावजूद, अकादमी ने कई गतिविधियों का संचालन किया। अकादमी ने आईसीएआर के डिजास्टर रिकवरी सेंटर (Disaster Recovery Centre) जिसमें भारी स्टोरेज (Storage) क्षमता और क्लाउड कंप्यूटिंग (Cloud computing) सुविधा है, को होस्ट किया। यह आईसीएआर-आईएसआरआई (ICAR-IASRI), नई दिल्ली में डेटा सेंटर के साथ सिंक्रनाइज़ है। अनिवार्य प्रशिक्षण गतिविधियों के अलावा, अकादमी ने भारतीय वन सेवा से परिवीक्षाधीनों के लिए एक अनुकूलित प्रशिक्षण कार्यक्रम भी आयोजित किया। अकादमी द्वारा पेश किए गए डिजाइनिंग ई-लर्निंग सामग्री पर व्यापक ओपन ऑनलाइन पाठ्यक्रम (MOOC) को पूरे देश से सबसे अधिक पंजीकरण प्राप्त हुए। PGDMA 2020-22 बैच के लिए ऑनलाइन कक्षाएं भी शुरू की गईं। इस तिमाही के दौरान, अकादमी ने कैरियर विकास केंद्रों और संकाय विकास केंद्र की स्थापना के लिए 6 राज्य कृषि विश्वविद्यालयों के साथ समझौता ज्ञापनों पर हस्ताक्षर किए।

अकादमी ने चार प्रतिष्ठित आईसीएआर पुरस्कार जीते जिनमें कृषि विज्ञान में उत्कृष्ट अनुसंधान के लिए प्रतिष्ठित रफ़ी अहमद किदवई पुरस्कार और स्वामी सहजानंद सरस्वती आउटस्टैंडिंग एक्सटेंशन साइंटिस्ट अवार्ड के साथ-साथ प्रशासनिक और कुशल सहायता स्टाफ श्रेणियों में नकद पुरस्कार शामिल हैं। अकादमी देश के किसानों की सेवा करने के लिए प्रयासरत रही है, जिसे हर साल पुरस्कार जीतकर पहचाना जाता है।

  
(Ch. Srinivasa Rao)

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## ICAR-NAARM Celebrated its 45<sup>th</sup> Foundation Day

The Academy celebrated 45<sup>th</sup> Foundation Day on Sep 01, 2020. Padma Vibhushan Dr. R.S. Paroda, Former Secretary and DG, ICAR was the Chief Guest of the occasion. Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM welcomed all the guests and highlighted the salient achievements of the Academy in the areas of capacity building, research and academics during the preceding year. He acknowledged the guidance and motivation from QRT, RAC and IMC members to the Academy. He particularly recognized the special role played by the staff members of NAARM, who served as frontline warriors of Covid-19 during the pandemic. On this occasion, a publication titled 'ICAR-HRD Units at a glance' was released.



In his Foundation Day lecture, Dr. Paroda congratulated the award winners and overall achievements of the Academy. He highlighted that NAARM as a Think Tank, has to institutionalize a new paradigm in terms of organizational restructuring, developing a global view, instilling competencies for foresight and visioning, and also in prioritizing the research areas. He emphasized that NAARM should collaborate with other scientific Academies of the country, international research academic institutions and also with the industry. Dr. R.S. Paroda called for piloting disruptive innovation within the National Agricultural and Research and Education System (NARES) and suggested that the Academy should strive towards enhancing accountability of scientists and transparency in research management. He also declared the Annual Awards of NAARM for the best performing employees in scientific, technical, administrative and supporting staff categories. Eleven farmers representing different agro-climatic zones of the country were felicitated during the ceremony for their innovative farming practices.

The event was also live streamed in YouTube and other social media, in which over 600 dignitaries comprising eminent scientists from India and abroad; former and serving Directors and Vice Chancellors of ICAR/SAUs; scientists and students from various ICAR Institutes, apart from the regular and contractual staff of the Academy. Dr. SK Soam, Joint Director thanked all the dignitaries for honouring the invitation and gracing the occasion.

### NAARM Foundation Day Awards

#### Best Performer Awards for the year 2019-20

##### Under Scientist Category

Dr. Ranjit Kumar received Best Faculty Award

Dr. P. Krishnan received Best Trainer Award

Dr. S. Senthil Vinayagam received Best Scientist Award

##### Under Admin.inc. Finance Category

Officer: Zakir Hussain Khilji, CFAO

Non-Officer: R Chandra Babu, Assistant

##### Under Technical Category

T1- T5 Grade: ACPRN Nageswara Rao, Technical Officer

T6 and above: KV Kumar, Chief Technical Officer

##### Under SSS Category

Male: S. Venkatesham, Xerox Operator

Female: Smt I Bharathamma, Farm Section



**Under CLTS Category**

Male: **Shri N. Yadagiri**, Farm Section

Female: **Smt M. Lakshamma**, Farm Section

**Awards for Best Performer of the Decade**

**Admin.inc. Finance Category:** **Smt. T. Vanisri**, Private Secretary

**Under Technical Category:** **Dr. P. Vijender Reddy**, Chief Technical Officer

**Under SSS Category:** **Smt. B. Shanthamma**, Library Section

**Under CLTS Category:** **Sri. B. Raju**, Farm Section

**Special Category Awards**

**Special Recognition for Energy Conservation - Shri K. Shivaiah**, TO

**Special Award for Outstanding Contribution in Institution Building-**

**Dr M. Balakrishnan**, Principal Scientist, ICM Division

**COVID-19 Warriors - Recognition Awards**

Admin category- **Smt. Y Gayatri**, UDC, Finance Section

T1- T5 category- **Shri T. Laxman**, Technical Officer (Driver)

T5 and above category- **Shri M. Shekhar Reddy** Asst. Chief Technical Officer

SSS category- **Shri C. Venkatesham**, CFAO Office

Covid-19 Warriors – CLTS category- **Shri K. Shamulu**, Farm Section



**Launch of ICAR's Data Centre 'Krishi Megh' & Data Recovery Centre**



Hon'ble Union Minister of Agriculture & Farmers' Welfare **Shri Narendra Singh Tomar** virtually launched ICAR's data centre 'Krishi Megh', and 'Data Recovery Centre' (DRC) on Aug 11, 2020. For good governance and management, DRC as an important

component of 'Krishi Megh' has been set up under the National Agricultural Higher Education Project (NAHEP) jointly by ICAR-IASRI and ICAR-NAARM. DRC is mainly recovery system storage and 2940 RAM cloud



computing facility with resilient network architecture. **Shri Tomar** said that NAARM, Hyderabad has been chosen for this as it lies in a different seismic zone with regard to the Data Centre at ICAR-IASRI in New Delhi and the data recovery centre at NAARM is synchronised with the data centre at IASRI. Ministers of State for Agriculture **Shri Parshottam Rupala** and **Shri Kailash Choudhary**, ICAR Director General **Dr Trilochan Mohapatra** and ICAR Deputy Director General (Agricultural Education) **Dr RC Agrawal**, **Edward William Bresnayan**, Task Team Leader, World Bank and Senior Officials of ICAR and NAARM were present at the launch.

(Coordinators: **Drs. N Srinivasa Rao**, **VV Sumanth Kumar** & **D Thammi Raju**)



## Scientific Meetings

### Virtual Brainstorming on the Framework for Ease of Doing Research (EoDR)

The Academy is developing a framework for assessing the ease of doing research in order to gauge the perception of scientists at the institute level on various aspects influencing research and identify the 'pain points' or 'problem areas' that the research administrator can attempt to intervene and change either in the short or long term, through appropriate management decisions. A virtual brainstorming was held with eminent experts on Aug 12, 2020 in order to deliberate on the indicators that can be used for assessing the EoDR at the institute and national level. Dr. PK Joshi, Former Director, IFPRI-South

Asia, New Delhi; Dr. B Venkateswarlu, Former Vice Chancellor, VNMKV, Parbhani; Dr. AG Ponniah, Former Director, ICAR-CIBA, Chennai, Dr. RC Bhatta, Former Emeritus Scientist, ICAR attended the brainstorming session as experts and provided their critical inputs.

Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM chaired the session and Dr. SK Soam, Joint Director, NAARM provided the overall context of the brainstorming.

(Coordinator: Dr. P Krishnan)

### Digital Project Proposals Evaluation Committee Meeting under NAHEP Component

The project evaluation committee meeting was organized at the Academy on Aug 6, 2020 under NAHEP through funding of short term research projects. It was planned to develop linkages between Agricultural Universities and Private Industries mainly working as startups in the area of Artificial Intelligence and Digital Solutions. More than

70 research proposals were received, an inter-institutional committee was constituted to screen and evaluate 10 projects for total cost around Rs 1.20 Crore. The committee meeting was chaired by Dr RN Chatterjee, Director, ICAR- Directorate on Poultry Research, Hyderabad. The Members Dr Sudeep Marwaha, Principal Scientist and PI, NAHEP Component 2, ICAR-IASRI; Dr. Shaik N Meera, Principal Scientist, ICAR-IIRR; Dr. Atul Negi, Professor, University of Hyderabad; Dr. G Shyam Prasad, Principal Scientist, ICAR-IIMR; Dr D Thammi Raju, Principal Scientist & Co-PI NAHEP Component 2, ICAR-NAARM; Dr. GRK Murthy, Principal Scientist, ICAR-NAARM attended this meeting.

(Coordinators: Drs. M Balakrishnan & P. Krishnan)



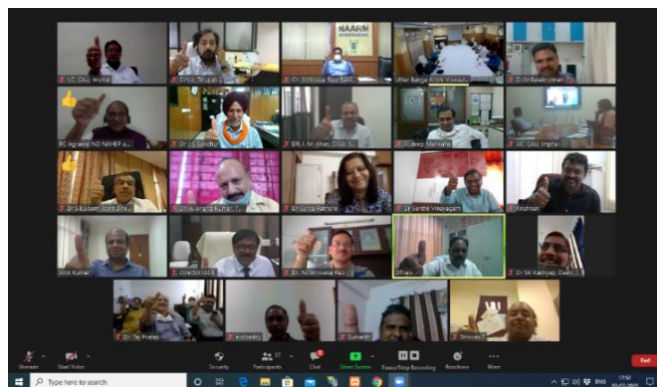
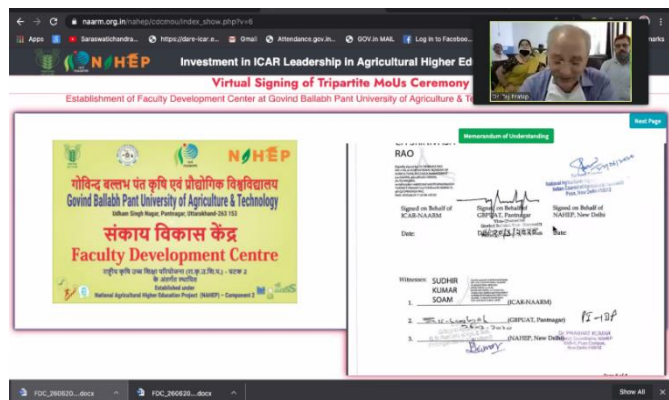
### Virtual Joint Advisory Committee Meeting of NAARM & UoH

The Academy organized a virtual Joint Advisory Committee Meeting of NAARM & UoH on Jul 13, 2020 on Post-Graduate Diploma in Technology Management in Agriculture (PGDTMA) & Post-Graduate Diploma in Education Technology Management (PGDETM) to review and approve the action plan proposed. The meeting was organized under the Chairmanship of Dr. Ch. Srinivasa Rao, Director, NAARM and the JAC members Prof. S Jeelani, Prof. E Haribabu, Prof. G Bhuvaneshwara Lakshmi and Prof. C Raghava Reddy from UoH. Besides, coordinators of both the courses, faculty from NAARM also attended.



## Establishment of CDCs and FDC under ICAR-NAHEP

The Academy organized a Virtual Signing Ceremony of Tripartite Memorandums of Understanding for establishment of Career Development Centres (CDCs) & Faculty Development Centre (FDC) under the Component-2 of the ICAR-National Agricultural Higher Education Project (NAHEP)" on Jul 02, 2020. Dr. RC Agrawal, DDG (Agricultural Education) & National Director, ICAR-NAHEP emphasized on the necessity for establishing of 5 CDCs in Central Agricultural University, Imphal; SKNAU, Jobner; UBKV, Cooch Behar; SVVU, Tirupati; and IGKV, Raipur. The main purpose of these CDCs is to provide a platform and mechanism for overall development of personality of the students and enhance the employability and entrepreneurship skills. FDC has been established at GBPUA&T, Pantnagar with the objectives of strengthening faculty members in SAUs to bring them at par with global standards.



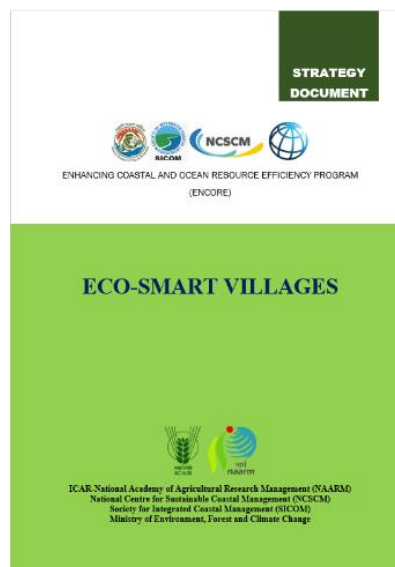
Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM stressed that the CDCs & FDC are need of the hour for bringing a dynamic National Education System to address the challenges in Indian Agriculture, such as, processing, value addition and employment. The Vice-Chancellors and Deans of the various Agricultural Universities accentuated that the centres would enhance the soft skills of the students and competency of the faculties. The tripartite MoUs have been signed between NAARM, NAHEP and concerned university. The Deans, Directors, Nodal Officers and other senior officials from the Agricultural Universities attended the ceremony through video conferencing.

(Coordinators: Drs. D Thammi Raju, N Srinivasa Rao and Alok Kumar)

## Research Projects

### Preparation of DPR and ToR for Development of Model Coastal Eco-Smart Villages

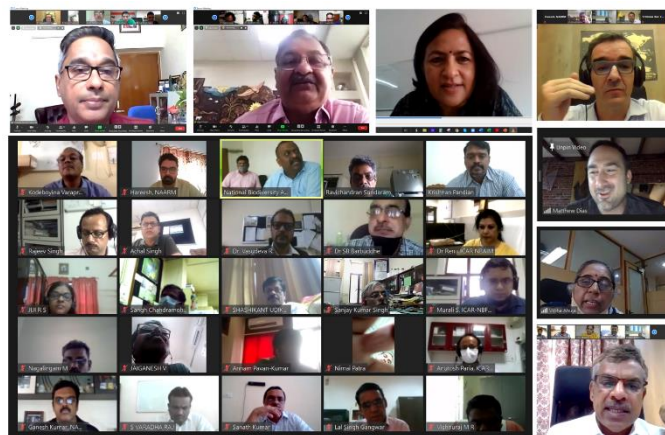
The Detailed Project Report (DPR) and Terms of Reference (ToR) for *Development of Model Coastal Eco-Smart Villages* was prepared based on extensive review, expert consultation and field visits. Under the project, a framework was developed for the interventions to be implemented with respect to plantation activities, soil and water conservation, energy conservation and few specific centralized solutions so as to develop the identified five villages *viz.*, Kantiyajal (Gujarat), Agonda (Goa), Apsara Konda (Karnataka), Akkampettai cluster (Puducherry) and Baghmunda (Odisha) for developing as model eco-smart coastal villages in collaboration with five different States/UT. The project was implemented by a team comprising of Dr. Ch. Srinivasa Rao (Project Leader), P Krishnan (PI), Dr. GRK Murthy, Dr. SK Soam and Dr. I Sekar.



## Training Programmes

### Online EDP for Master Trainers in Access and Benefit Sharing (ABS)

The Academy organized an online EDP on “ABS Regulations and Nagoya Protocol” during Jul 15-17, 2020 through video conferencing in collaboration with UNDP and Biotech Consortium India Limited (BCIL), New Delhi. Over 30 scientists representing various regions and crops from NARES were selected from among the participants of the earlier training on ABS implementation in India conducted by the Academy. Dr. VB Mathur, Chairman, National Biodiversity Authority (NBA), Chennai; Dr. Ruchi Pant, Head, NRM and Biodiversity, UNDP and Dr. Vibha Ahuja, Chief General Manager, BCIL, during their interaction with the participants, assured all support in their efforts to sensitize the concept among their peers in the region. Dr. Ch Srinivasa Rao, Director, ICAR-NAARM, during his inaugural address, informed that ABS concepts will be integrated in relevant capacity building programs of the Academy. He invited the participants to contact NAARM for any support for designing/organizing the ABS sensitization programs. Dr. Alejandro Lago, Project Manager, UNDP-GEF Global ABS Project provided an overview of ABS, CBD and Nagoya Protocol. The ABS Clearing House Mechanism under the Nagoya Protocol was explained by Dr. Matthew Daas, Programme Officer, CBD, Montreal.



Dr. Vibha Ahuja from BCIL highlighted the ABS potential of Indian Biotech research sector. The ABS regulations in the context of IPR, TRIPS and WTO were elucidated by Dr. SK Soam, Joint Director, NAARM. Dr. KS Varaprasad, Senior Consultant, UNDP anchored an interactive session with the participants along with the Course Directors. The participants were provided hands-on demonstration on using the NBA’s online application for ABS filing.

*(Programme Directors: Drs. K Kareemulla, P Krishnan & B Ganesh Kumar)*

### Design Thinking in Research Project Formulation and Implementation

An online training on “Design Thinking in Research Project Formulation and Implementation” was organized at the Academy during Aug 24-29, 2020. About 45 Agricultural Researchers, including 13 females, representing 24 agricultural research disciplines from 15 ICAR institutions and 12 Agricultural Universities, shortlisted from over 150 applicants from across India, participated in the program. The participants were introduced to the concept of Design Thinking (DT) and its use in various aspects related to research management,

with relevant illustrations and case studies. Innovative exercises were designed to instill DT perspectives among the participants in research problem identification, prioritization of research solutions and research concept development. The participants were provided DT practice for prototyping and visualization of project activities, output, outcome and impact. Interactive online breakout group sessions were conducted, wherein the participants had hands-on exercises on the use of various tailor-made online DT tools for research review, project proposal preparation, monitoring and evaluation. Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM during his valedictory address, complemented the Programme Directors for designing this novel training programme addressing a very contemporary aspect of research management, and delivering the same creatively, taking leverage of the technology.

*(Programme Directors: Drs. SK. Soam & P. Krishnan)*



## Dr. Trilochan Mohapatra, DG, ICAR interacts with Indian Forest Service (IFS) Probationers

The Academy organized a tailor-made virtual training Programme on “PRACom-2020: Participatory Rural Appraisal (PRA) and Communication Strategies” during 09-11 Sep 2020 for the IFS Probationers (2019-21 batch) from Indira Gandhi National Forest Academy (IGNFA), Dehradun. The participants comprised of 71 IFS probationers including two officers belonging to Royal Bhutan Forest Service. This training program, third in the series since 2018, was organized as a part of MoU signed between ICAR-NAARM and IGNFA. Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM in his opening remarks, provided an overview about the course and expressed satisfaction that both the Academies have been working closely building on mutual strengths. Shri. Bharat Jothi IFS, Director, IGNFA, presiding over the inaugural session, highlighted various areas where the partnership can be expanded beyond capacity building, particularly in establishing a national network of incubators to promote entrepreneurship in forestry sector. Dr. Trilochan Mohapatra, Secretary, DARE and DG, ICAR called upon all the IFS Probationers to make the best use of the network of agricultural researchers and extension functionaries spread across the country to further their conservation and sustainable development agenda, by forging functional partnership. During this training module, the IFS probationers were introduced to various tools of PRA techniques, basic etiquettes on



communication, digital tools for meeting various professional communication situations. The training included a hands-on exercise on using analytical hierarchy process (AHP) analyzer, an online application developed by NAARM, for prioritization of administrative decisions. The probationers were also sensitized on the need to work with researchers and citizens as partners, to harness the benefits of synergy, by presenting relevant case studies.

*(Programme Directors: Drs SK Soam, Bharat S. Sontakki & P. Krishnan)*

## Innovative Practices in Extension Research and Evaluation

A 21-days online training programme on “Innovative Practices in Extension Research and Evaluation” was held during Sep 08-28, 2020. This programme was conceptualized to develop the critical abilities of extension professionals to conduct quality research and evaluation. The training programme was conducted in two modules. In the starter module, topics on developing skills required for extension researchers like innovative methodology, use of software, sampling framework, etc. were provided with hands-on exercises to the participants. In the path-

finder module, innovative practices on advanced research methods, writing scientific articles, etc. were covered. The participants have demonstrated their learnings through group exercise of concept note writing in potential extension researchable areas. 59 participants from 19 states working at ICAR, SAUs, KVK and other institutions have participated. In his valedictory address, Dr. JP Sharma, Vice Chancellor of SKUAST-J has called for the paradigm shift needed in the extension system envisaging beyond production to diversification, commercialization and agripreneurship. Dr. Ch. Srinivasa Rao, Director, in his presidential remarks, gave greater emphasis on extension research to bring desired transformation in Indian agriculture. Dr. SK Soam, Joint Director in his remarks, expressed that this programme has been successful due to the innovative and participatory approaches adopted. The participants have rated the programme with a score of 4.6 out of 5.

*(Programme Directors: Drs. P Venkatesan, Bharat S Sontakki, N Sivaramane and Surya Rathore)*

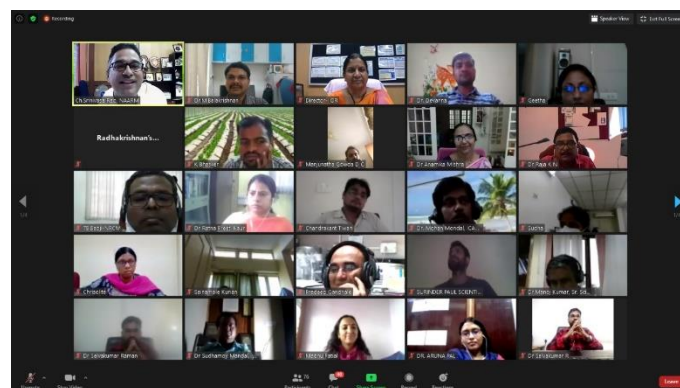


## Advanced Bioinformatics Tools and Their Applications in Agriculture

The virtual training programme on “Advanced Bioinformatics tools and its Applications in Agriculture” organized during Sep 14-19, 2020. Bioinformatics is an innovative developing field that helps in collecting, linking, and manipulating different types of biological information to discover new biological insights. This specific genetic knowledge could then be used to produce stronger, more drought resistant, disease resistant, insect resistant and more productive crops. The participants were provided the insight about the enormous potential and application of advanced Bioinformatics Tools in the domain of agriculture during the programme. They were also provided with the theory and hands-on-practical sessions on various Bioinformatics softwares and tools on the different topics related to the emerging requirements of Bioinformatics Tools in the agriculture and allied sectors. About 73 Agricultural Researchers, including 37

women, representing 19 Agricultural Research disciplines from 20 ICAR Institutions and 19 Agricultural Universities virtually participated in the programme.

(Programme Directors: Drs. M Balakrishnan & SK Soam)



## Massive Open Online Course (MOOC) on Designing E-Learning Content

The Academy organized 7<sup>th</sup> Massive Open Online Course (MOOC) on “Designing E-Learning Content” during Jul 01-31, 2020. The programme got highest number of 2737 registrations all over the entire country. A total of 1342 participants were successful in fulfilling the course requirements for getting certification. The learning resources were developed completely in-house by inviting various experts in the concerned topic. The course had introduced peer evaluation of student activities for the first time. The evaluation and certification were done totally online.

During online valedictory programme, Dr. RC Agrawal, National Director (NAHEP) and DDG (Education), Dr. Ch Srinivasa Rao, Director, NAARM and Dr SK Soam,



Joint Director, NAARM expressed that MOOCs have great opportunity in online learning especially after the Covid scenario.

(Programme Directors: Drs. GRK Murthy & S Senthil Vinayagam)

## Intellectual Property Valuation and Technology Management

A five-day virtual training programme on “Intellectual Property Valuation and Technology Management” was organized during Sep 1-5, 2020. The programme was aimed to provide an overview of the key concepts and valuation framework of the IP Management with respect to the agricultural technologies and develop a practical

understanding of application of technology management principles. The programme consisted of a blend of presentations, lectures and demonstration tools. Total no. of 31 participants (28 men & 3 women scientists) attended the Programme from various ICAR institutes and SAUs across the country. There were 19 technical sessions covered by nine external resource persons and 9 internal faculty. The sessions covered the aspects such as IP & Technology Management, Grassroot Innovations, Opportunities in Techno entrepreneurship, Case studies for IP Issues, technology licensing, IP valuation, Issues in Biodiversity, Risk Management and Incubation Ecosystem. A virtual demonstration on Patent Search in free databases was also conducted.

(Programme Directors: Drs. Manju Gerard & K Srinivas)





## Training Workshop for Vigilance Officers of ICAR Institutes

The Academy organized a three-days training workshop for 33 Vigilance Officers of various institutes of ICAR during Aug 05-07, 2020. The participants were exposed to different vigilance procedures to be followed and preventive vigilance. The participants were sensitized on various aspects of vigilance i.e., duties and responsibilities of vigilance officers, disciplinary procedures, recruitment procedures, RTI, handling of court cases, conduct rules,

purchase and work procedures etc. Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM and Shri. Shaleen Agrawal, Director (DARE) & CVO (DARE & ICAR) addressed the participants.

(Programme Directors: Drs. D Thammi Raju, VV Sumanth Kumar & S Senthil Vinayagam)

## E-Resources, E-learning and IoT

An online training Programme on E-Resources, E-learning and IoT was conducted during Aug 24-28, 2020 for 29 faculty of UAS, Raichur. The Programme had touched various contemporary aspects of education, technologies and digital resources that every faculty needs to be updated about. During the inaugural program, Dr RC Agrawal, National Director (NAHEP) and DDG (Education), Dr Ch. Srinivasa Rao, Director, NAARM, Dr KN Kattimani, Vice Chancellor, UAS Raichur, Dr SK Soam, Joint Director, NAARM, Dr. RB Sharma, National Coordinator, NAHEP-IG addressed the participants.



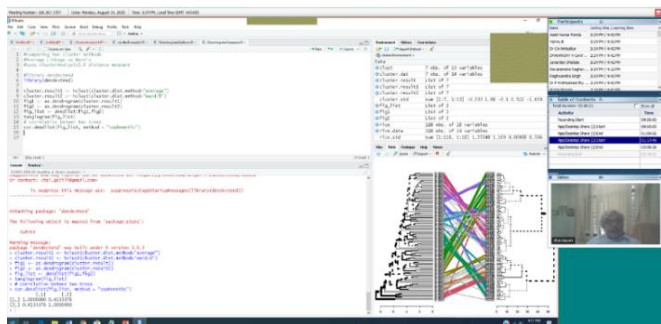
(Programme Directors: Drs. GRK Murthy, S Senthil Vinayagam & M Balakrishnan from ICAR-NAARM; Dr. DM Chandargi, Dean from UAS, Raichur)

## Analysis of Experimental Data using R

An online training programme on Analysis of Experimental Data using R was conducted during Aug 5-11, 2020. The training programme aimed at

improving data analytics skills of scientists of National Agricultural Research and Education System, attracted more than 200 participants, out of which, 168 have successfully completed the course. There were 106 participants from ICAR, 58 participants from SAUs and four from other Government/private industries. The course covered from basic experimentations in agricultural research to visualizing, analyzing data from experimental data using various statistical tools. Emphasis were given on interpretation of results using datasets related to agricultural experiments.

(Programme Directors: Dr. A Dhandapani & Dr. S Ravichandran)



## Online Training Programme on Stress Management

An online training programme on "Stress Management" was conducted during Jul 07-10, 2020 for 22 participants which includes 11 principal scientists and above cadre of ICAR and 11 professors and educational administrators of SAUs. The objectives of the programme included developing in-depth understanding of personal and psychological causes of stress/anxiety and its effects—physical, social and organizational behavior, to understand the mechanism of occurrence of various stress related disorders and to develop constructive means for coping up with distress and achieve productive and enriched life-style. The programme covered psychological and medical aspects of stress and its management,

interpersonal and time management strategies and the role of emotional and spiritual intelligence in understanding and managing stress in a holistic manner.

(Programme Directors: Drs. P Ramesh & RVS Rao)



## Education Management and Academic Leadership

An online training workshop on “Education Management and Academic Leadership” was organized during Sep 03-17, 2020 with an objective to enhance the efficiency of Indian Agricultural Education System under NAHEP – Component 2. Forty-five enthusiastic administrators and senior faculty of agricultural universities including 10 women participants from 18 states participated in the workshop. During the programme, the participants were provided with theory and practical sessions on topics related to education management and academic leadership by eminent personalities. The members of NAHEP External Advisory Panel Dr. Glenn C Shinn, Texas and A&M and Dr KV Raman, Cornell University also interacted with participants. Dr. Ch Srinivasa Rao, Director ICAR NAARM, the Chief Guest of the valedictory programme highlighted the importance and status of agriculture education system in India. He said



education is the miracle to change and bringing relevancy addresses many issues. Dr. Prabhat Kumar, National Coordinator of NAHEP Comp-2, the Guest of Honour stressed on the importance of leadership and management in education system.

*(Programme Directors: Drs. D Thammi Raju & S Senthil Vinayagam)*

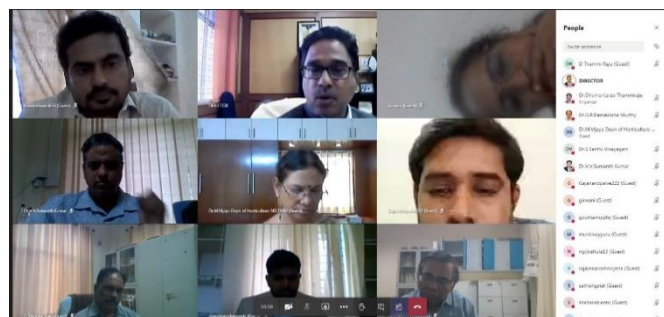
## Teaching Competency Enhancement for Young Faculty of SKLTSHU, Hyderabad

A three-days online training programme on Teaching Competency Enhancement for the young faculty of Sri Konda Laxman Telangana State Horticultural University was conducted during Jul 7-9, 2020. Sponsored under NAHEP of SKLTSHU, the programme catered capacity

building needs in the area of teaching management, teaching with technology, basic statistical applications in agricultural research, stress management apart from opportunities and challenges in agricultural education and developing winning research proposals.

In his inaugural address, Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM highlighted the importance of teaching competencies for improving the quality of agricultural education in the country. Dr S K Soam, Joint Director, NAARM, Chief Guest of Valedictory programme requested the faculty to reflect on the learnings and improve their teaching competencies.

*(Programme Directors: Drs. D Thammi Raju, VV Sumanth Kumar & S Senthil Vinayagam)*



## Collaborative Capability Building Programme for Young Agribusiness Professionals of Coromandel International Limited (NEAT Phase-1)

The first phase of Collaborative Capability Building Programme (NEAT) of five days was organized by the Academy for 44 professionals of CIL on Fridays & Saturdays during Sep 11-26, 2020. The objective of the Programme was to provide the basic understanding of contemporary issues related to agribusiness industry, crop production and crop protection practices and to upgrade the knowledge and skill in sales and marketing domain. The topics covered include Agriculture and Indian Economy, Agronomy aspects of major field crops, Soil health based nutrient marketing, Basics in plant health management and plant protection measures, etc. The behavioral aspects such as personality development,

positive thinking and emotional intelligence were also covered in this programme.



*(Programme Directors: Drs. KH Rao, Ranjit Kumar & N Sivaramane)*

## Intellectual Property Rights in Agricultural Research and Education in India

A virtual workshop-cum-training on “Intellectual property rights in Agricultural Research and Education in India” was conducted during Sep 12-28, 2020. The aim of the programme was imparting requisite knowledge on domain technologies and the regulatory issues associated for successful acquisition and commercialization of IPRs. The training would provide a complete overview and knowledge generation, protection and management of Intellectual Property Rights in Agriculture and support all

their endeavors in becoming a successful IPR enlightened individual. The workshop and training programme was organized by Education division and IP&TM Unit of ICAR under the umbrella of National Higher Agricultural Education Programme.

(Programme Directors: Drs. P Ramasundaram, NC, NAHEP; Shiv Datt, PS, IP&TM unit, ICAR; & K Srinivas, from ICAR-NAARM)

## Academic News

### PGDM - Agri-Business Management

The 11<sup>th</sup> batch of Post Graduate Diploma in Management-Agribusiness Management (PGDM-ABM) students completed their summer training with different organizations. Due to COVID-19, most of the students worked from home on the projects assigned by their respective organizations. There were total 19 agribusiness companies which offered summer training to 54 PGDM-ABM students of NAARM. Moreover, due to unprecedented situation, the classes for both 11<sup>th</sup> as well as 12<sup>th</sup> batches of the programme also started in online mode. The students have been attending their classes at home from different parts of the country. Similarly, corporate lectures are also being organized on continuous

basis to keep them abreast of the recent developments in different agribusiness sector.



List of Companies which offered Summer Training to PGDM-ABM Students

UPL	TechnoServe	Zahrat Al Dhaid Agriculture
WayCool Foods & Products Pvt Ltd	Tata Consultancy Services	Materials
Savannah Seeds Pvt. Ltd	Adama Agricultural Solutions	Ankur Seeds
Samunnati Financial Intermediation & Services Pvt. Ltd	ERC Group	Falca E-Solutions Pvt. Ltd
Rallis India Ltd	ITC Ltd	Good Earth Alliance
Corteva Agriscience	IFFCO Kisan	Grant Thornton
	TAFE	Delta Agrigenetics Pvt. Ltd

### Contact Programme for the Students of PGD-TMA 2020 Batch

The 1<sup>st</sup> term contact programme for the students of PGD-TMA 2020 batch was conducted at the Academy during Sep 24-26, 2020 through virtual mode. About 34 students attended the program, with most of them working professionals from various organizations such as Coromandal, Corteva, Amazon, CMFRI, NRC Meat, KVKs, etc. Officials from University of Hyderabad also participated.



## Major Events

### Distribution of Farm Implements / Equipment under SC-Sub Plan

As a part of implementation of SC-Sub Plan during 2019-20, the Academy implemented Sub-Plan in two villages namely Thurkapally village of Amrabad Mandal (Nagarkurnool District) and Kanakamamidi village of Moinabad Mandal (Ranaga Reddy District). Various farm implements such as Star Weeders, Wheel Hoe, Battery operated sprayers were distributed among the individual SC farmers and computer with printers and tractor drawn implements were also handed over to the village panchayats for common use of SC Farmers. Drs. M Balakrishnan, M Ramesh Naik, Umesh Hudedamani, P Vijender Reddy and Laxman M Ahire were present during the event. These farm implements

were distributed at Thurkapally village on Aug 12 and Kanakamamidi village on Sep 08, 2020.



### Pensioners Meet



Pensioners Meeting was held at the Academy on Sep 29, 2020. During the meeting, Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM told that during the testing times when our whole country is going through a calamity type of situations due to COVID-19, NAARM is continuing its tradition to solve and address the grievances of our senior citizens, our esteemed pensioners. Total 36 members participated and their grievances related to health cards, medical reimbursements, recognition of private hospitals, revision of pension etc. were addressed.

### Commercial Dairy Farming through MOOC Launched Jointly by ICAR-NDRI, Karnal and ICAR-NAARM, Hyderabad

ICAR-NDRI and ICAR-NAARM jointly initiated in developing digital content for offering MOOC on Commercial Dairy Farming, which was formally launched by Dr. B.N. Tripathi, DDG (Animal Science) and Dr. R.C. Agrawal, National Director, NAHEP and DDG (Education) on Aug 14, 2020 through virtual launch programme cohosted by NDRI and NAARM.



### MoUs signed by ICAR-NAARM

#### *Towards Establishment of Career Development Centre*

1. Central Agricultural University, Imphal, Manipur
2. Indira Gandhi Krishi Vishwavidyalaya, Raipur, Chhattisgarh
3. Sri Karan Narendra Agriculture University, Jobner, Rajasthan
4. Sri Venkateswara Veterinary University, Tirupati, Andhra Pradesh
5. Uttar Banga Krishi Viswavidyalay, Cooch Behar, West Bengal

#### *Towards Establishment of Faculty Development Centre*

G. B. Pant University of Agriculture and Technology, Pantnagar, Uttarakhand

#### *Creating awareness and implementation of Access and Benefit Sharing (ABS) guidelines in ICAR*

Biotech Consortia India Limited (BCIL), New Delhi



59<sup>th</sup> Institute Management Committee Meeting of NAARM held virtually on Sep 19, 2020



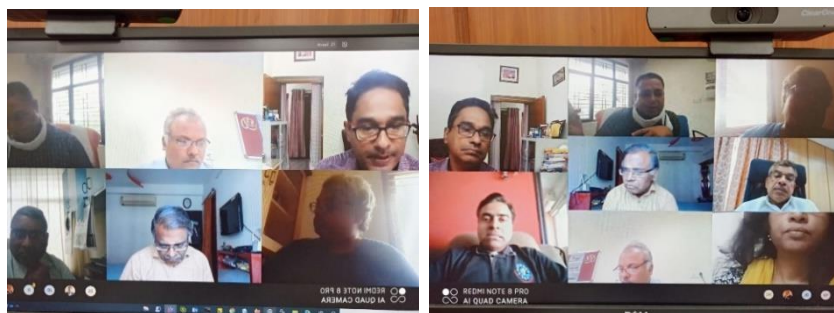
IJSC Meeting held on Aug 06, 2020



Academic Committee Meeting held on Sep 14, 2020



First meeting of 8<sup>th</sup> Research Advisory Committee under the Chairmanship of Prof. G. Padmanabhan, President, NASI and Former Director, IISc on July 24, 2020



Higher Education Committee Meeting in Virtual Mode held on July 3, 2020



हिंदी पखवाड़ा का समापन समारोह 29 सितम्बर, 2020 को आयोजित किया गया



74<sup>th</sup> Independence Day Celebrations at ICAR-NAARM and felicitation of Corona warriors



Amla crop in fruit bearing stage in the orchard plot



Karonda plants bearing fruits in the orchard plot

## a-IDEA News

### Orientation Workshop and Training Programme for ABI units

Orientation workshop and training programme for ABI units was held during Aug 17-19, 2020. Main objective of the programme was mainstreaming of newly created 25 ABIs into innovation and entrepreneurial ecosystem, and improving their skill to enhance efficiency and effectiveness of ABI. There were 58 registered participants of 25 ABI including PIs, Co-PIs and other contractual staff. The workshop was inaugurated by the Dr. T Mohapatra, Secretary-DARE and DG-ICAR and chaired by Dr. Ch Srinivasa Rao, Director-NAARM. It was attended by Mr. B Pradhan, Special Secretary-DARE & FA-ICAR,

Mr Sanjay Singh, Addl. Secretary-DARE and Secretary-ICAR. Besides, Dr. JK Jena, DDG(Fisheries), Dr. AK Singh DDG (Hort), Dr. Alagasundaram, DDG (Engg), Dr. SK Chaudharuy, DDG (NRM), Dr. AK Tripathi, DDG (AS) and Dr. RC Agrawal, DDG(Education) also graced the occasion.

*(Programme Directors: Drs. K Srinivas & Manju Gerard from ICAR-NAARM; Drs. Shiv Datt & Vikram Singh from IP&TM Unit ICAR)*

### NIDHI-PRAYAS

a-IDEA has partnered with SINE-IIT Mumbai TBI for PRAYAS call and first call for application was posted on 29<sup>th</sup> June 2020. The last date for receiving applications for NIDHI PRAYAS was July 18 2020. Total 111 applications

were received in which only 50 were found to be eligible. Online evaluation also completed and 20 companies are shortlisted.

### Inauguration Ceremony of a-IDEA's Scaling Up Operation by NABARD Chairman

a-IDEA felicitated Shri Govinda Rajulu Chintala, Chairman-NABARD on Aug 27, 2020 at the inauguration ceremony of a-IDEA's scaling up operation. a-IDEA has



served to unleash innovation and entrepreneurship in agriculture, leading it to become the country's foremost Agritech incubator with the support of ICAR, DST and BIRAC since 2014. Now, NABARD has joined the group of a-IDEA supporters for scaling up and continue its journey of excellence to achieve dynamic and sustainable agri-entrepreneurial development. This would lead to long term benefits for the farming ecosystem in general. Shri GR Chintala has blessed to initiate this partnership in presence of Shri YK Rao, CGM-TSRO, Shri Sudhir Kumar Jannawar, CGM-APRO, Dr. Ch. Srinivasa Rao, Director ICAR-NAARM and President a-IDEA, and all the prominent dignitaries, attendees, who were gathered physically and joined virtually.

### BIRAC BIG

Technical Evaluation Panel (TEP) meeting was conducted virtually in which a-IDEA are the partners for organizing TEP along with Venture Center. The TEP was conducted during Jul, 14-16, 2020. Dr SK Sopory was the chair for agriculture and allied sciences and there were 10 evaluators. After three days marathon presentations, the committee shortlisted 12 proposals for next round of considerations. In next round, chaired by Dr. Renu Swaroop, three companies which applied through ICAR NAARM were further shortlisted for grant. These companies are Ms Soniya H, Pesticide smart check:

Development of Aptamer based paper microfluidics device for rapid and cost-effective detection of major pesticides from food and agricultural commodities; Mr. Mallikarjun Sajjan, Surface enhanced Raman Spectroscopy Based Milk Quality Analyzer; Amvucube Pvt Ltd., Non Destructive testing instrument to detect the internal defects in paddy and pulses without dehusking. Meanwhile BIG 17<sup>th</sup> call was opened from Aug 1, 2020 for fresh applicants. The call closed on Sep 15, 2020. Total 84 applications were received through ICAR-NAARM a-IDEA.

## Series of Webinars organized by a-IDEA

Topic	Speaker: Dr. K. Srinivas, CEO, a-IDEA	Date
Understanding BIRAC BIG Scheme Guidelines & Eligibility in Agri and Agri-Biotech Sector		Aug 13, 2020
BIRAC BIG Grantee talk		Aug 20, 2020
BIRAC BIG for Agritech & Allied Sector Startups: Sky is the limit		Aug 24, 2020
BIRAC BIG AMA Session		Aug 31, 2020
Ask Me Anything Live Webinar Session with a-IDEA Team-1		Sep 1, 2020
Ask Me Anything Live Webinar Session with a-IDEA Team-2		Sep 3, 2020
Understanding BIRAC BIG Scheme Guidelines & Eligibility in Agri and Agri-Biotech Sector		Jun 3, 2020

## Faculty Achievements

### Honours, Awards and Recognitions

**Dr. Ch. Srinivasa Rao** is nominated as Member, ICT Steering Committee of ICAR (2020 onwards)

**Dr. Ch. Srinivasa Rao** is nominated as Member, NAAS Sectional Committee in Natural Resource Management (2020)

**Dr. S. Senthil Vinayagam** received Lifetime Achievement Award during International Scientist Awards on Engineering, Science and Medicine from VDGGOOD Professional Association, India during July 04-05, 2020.

### ICAR Awards during 91<sup>st</sup> ICAR Foundation Day on July 16, 2020

**Dr. Ch. Srinivasa Rao**, Director bagged 'Rafi Ahmed Kidwai Award for Outstanding Research in Agricultural Sciences-2019' (for Natural Resource Management & Agricultural Engineering)

**Dr. Bharat S. Sontakki**, Head, XSM Division bagged 'Swami Sahajanand Saraswati Outstanding Extension Scientist Award-2019'

**Mrs. N. Vijayalakshmi**, JAO bagged ICAR Cash Award under Administrative category

**Mr. S.N. Rasool** bagged ICAR Cash Award under Skilled Support Staff Category



Dr. Ch. Srinivasa Rao



Dr. Bharat S. Sontakki



Mrs. N Vijayalakshmi



Mr. SN Rasool

## Publications

### Research Articles

Ahire LM & Venkatesan P. (2020). Feedback Analysis of the Human Resource Training Programme, *International Journal of Agricultural Education and Extension*. 6(2): 330-338.

Ahire LM, Sontakki BS, Venkatesan P & Basith MA (2020). Students Attitude on Agricultural Educational and Perception towards Institutional Issues. *Multilogic in Science*. 10(34): 918-922

Ahire LM, Venkatesan P, Sontakki BS & Reddy PV. (2020). Training Utility and Training Effectiveness of Theme Specific Training Programmes. *International Journal of Current Research*. 12(6):12136-12141.



- Kumar AE, Sontakki BS, Faizullah MM & Vinay G. (2020) Impact of Soil Health Card Scheme on Improving Soil Health and Quality: Synthesis of Select Cases and Implications for Sustainable Agriculture. *International Journal of Ecology and Environmental Sciences*. 2 (2): 55-60.
- Balakrishnan M, Venkatesan P, Soam SK, and Srinivasarao Ch. (2020). Designing of Database for Indigenous Technical Knowledge in Agriculture. *International Journal of Current Research*. 12(07): 12181-12184.
- Kiruba-Sankar R, Lohith-Kumar K, Raymond-Jani-Angel J, Salim SS, Saravanan R, Krishnan P, Ravikumar T & Dam-Roy S. (2020). Impact evaluation of Marine Fisheries Interventions among Tribal Fisher Commune of Car Nicobar Island, India, *J. Mar. Biol. Ass. India*, 62 (1): 84-89.
- Ramesh P & Rao RVS. (2020). Role of Emotional Intelligence on Organizational Effectiveness: A Study Among Scientific Personnel in the National Agricultural Research and Education System (NARES) in India. *Journal of Organization and Human Behaviour*. 9(1 & 2): 10-20.
- Pandey R, Vinayagam SS, Krishnan M & Akhila K. (2020). Factors Influencing Buying Behaviour of the Hybrid Paddy Seeds among Farmers of Selected Districts of Bihar. *Asian Journal of Agricultural Extension, Economics and Sociology*. 38(8): 68-77.
- Ravi KN, Sontakki BS, Shimray PW, Mansuri SM, Verma S, Kirankumar TM, Gurjar B, Naik V & Tegelli R. (2020). Field Experience Training: Pragmatic Multidisciplinary Approach for Developing Comprehensive Village Development Action Plan. *Indian Research Journal of Extension Education*. 20 (1): 21-26.
- Ravichandran S & Yashavanth BS (2020) ARIMA Vs VARMA - Modelling and Forecasting of India's Cereal Production, *Journal of the Indian Society of Agricultural Statistics*. 74(2): 121-128.
- Sammireddy K, Srinivasarao Ch, Girijaveni V, Prasad JVNS, Sharma KL, Sumanta K, Chandrasekhar Ch, Jha RK, Choudhary SK, Deokaran, Mishra SK, Nityanand, Shobha Rani, Singh VK, Das LK, Arti Bin Ekka, Sanjay Kumar, Ranjaykumar S, Biswas S, Gangopadhyay PK, Nilendu JM, Ram N, Rahman FH, Kumar A, Singh SS & Singh AK (2020). Mitigation strategies to enhance carbon sink potential in climate vulnerable districts of Eastern India, *Climate and Development*. pp 1-14. DOI:10.1080/17565529.2020.1780190.
- Kujur Seema, Vinayagam SS, Awasthi HK & Murthy GRK (2020) Teacher-Learner Training Needs Assessment of Agricultural Universities - A Comparative Analysis. *Indian Journal of Extension Education*. 56 (1): 84-87.
- Vinayagam SS, Akhila K, Murthy GRK & Mahesh A. (2020). Challenges in Adoption of Technology in Agricultural Education- A Critical Analysis. *International Journal of Creative Research Thoughts*. 8(9): 1379-1384.
- Waheeda M & Vinayagam SS (2020). Factor Variation with Level of Education Among Women Groups in Natural Resource Management. *Indian Journal of Extension Education*. 56(1): 52-58.

## Books

- Kumar Alok, Rao RVS, Krishnan P, Soam SK, Vyas AK, Pandey PS & Srinivasarao Ch, (eds.) (2020). ICAR HRD Units- At a Glance, Indian Council of Agricultural Research, New Delhi, pp. 138. ISBN: 978-81-933781-3-7.
- Gerard Manju & Monika Gupta. (2020) Women led Agristartups: Courage to Innovate for Change, ICAR-NAARM, pp 29.
- Srinivasarao Ch, Srinivas T, Rao RVS, Rao NS, Vinayagam SS & Krishnan P. (2020). Climate Change and Indian Agriculture: Challenges and Adaptation Strategies, ICAR-National Academy of Agricultural Research Management, Hyderabad, Telangana, India. pp. 584. ISBN: 978-81-943090-7-9.



Hon'ble Union Minister for Agriculture and Farmers Welfare releasing the book on 92<sup>nd</sup> Foundation Day of ICAR Foundation Day on July 16, 2020.

## Policy Brief

- Srinivas Tavva & Srinivasarao Ch. (2020). Perspectives on Transforming Agriculture into an Export-Oriented Sector: Policy Recommendations. Accelerating India's Agriculture Exports - An MVIRDC Research Initiative, pp.49-61.

## Copyrights

Sreekanth PD, Soam SK & Srinivasarao Ch. were awarded copyright for 'Delineating surface water area using remote sensing imagery'

## Technical Reports/ Project Reports

Krishnan P, Murthy GRK, Soam SK, Sekar I, Srinivasarao Ch. (2020). Development of Model Coastal Eco-Smart Villages, Strategy Document with Detailed Project Report & Terms of Reference prepared under ENCORE Programme of MoEFCC, GoI, ICAR-NAARM and MoEFCC-National Centre for Sustainable Coastal Management (NCSCM), Chennai, p145.

Ranjit-Kumar, Sanjiv-Kumar, Meena PC, Ganeshkumar B & Sivaramane N. (2020). *Strengthening E-NAM in India: Way Forward*. ICAR-National Academy of Agricultural Research Management, Hyderabad, India. Pp 1-119. DOI: 10.13140/RG.2.2.17102.89927 2.

Ranjit-Kumar, Sanjiv-Kumar, Yashavanth BS, Meena PC, Indoria AK, Sumanta Kundu, Manjunath M. (2020). Adoption of Natural Farming and its Effect on Crop Yield and Farmers' Livelihood in India. ICAR-National Academy of Agricultural Research Management, Hyderabad, India.



## Book Chapters/ Chapters in Conference Proceedings

Aswathy C, Ana Raj, Shanthanu Rakshit, Priyojoy Kar, Khrienguno Mepfhuo, Ramya HR, Bharat S. Sontakki & Nagasree K. 2020. Institutional Linkages and Community Partnerships for Climate Resilient Agriculture. In: Ch. Srinivasarao et al., (Eds). *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Hyderabad, Telangana, India. pp-1-22.

Immanuel CH, Premalatha RP, Homeshwaridevi M, Jangir Chetan, Sunil BH, Kundu Sumanta, Surekha K & Srinivasarao Ch. (2020). Climate Change Adaptation and Mitigation through Soil Management. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 105-130

Jayalakshmi K, Bajar Bhasakar, Amrutha Lakshmi M, Chandan Maharana, Licon Kumar Acharya, Madhu GS, Saranya R, Madhavan S, Suseelendra Desai S & Srinivasarao Ch. (2020). Impact of Climate Change on Host-Pathogen Interactions and its Implications on Crop Disease Management. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 271-294.

Rajput Jitendra, Kushwaha NL, Blessy VA, Shreya Nivesh, Pradosh Kumar Paramaguru, Rao KV, Manoranjan Kumar & Srinivasarao Ch. (2020). Climate Smart Soil and Water Management Strategies for Sustainable Agriculture. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 157-182.

Kancheti Mrunalini, Lalit Kumar Rolaniya, Debarati Datta, Sandeep Kumar, Biswaranjan Behera, Govind Makarana, Arjun Singh, Prasad JVNS, Pratibha G, Ramesh Naik M, Narayana Swamy G & Srinivasarao Ch. (2020). Resource Conservation Technologies for Climate Change Adaptation and Mitigation. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 131-156.

Padala Vinod Kumar, Niranjana Kumar, Srinivasa Rao M, Rao RVS & Srinivasarao Ch. (2020). Impact of Climate Change on Pests and their Management Options with Emphasis on Identification of Adaptation Strategies. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 295-310.

- Rajesh U Modi, Manjunatha K, Prem Veer Gautam, Nageshkumar T, Sanodiya R, Chaudhary V, Murthy GRK, Srinivas I & Srinivasarao Ch. (2020). Climate-Smart Technology Based Farm Mechanization for Enhanced Input Use Efficiency. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 325-357.
- Ratna Prabha, Sarika Sahu, Sona Charles, Supriya P, Yuvaraj I, Balakrishnan M, Soam SK, Satendra K Mangrauthia, Manish K Pandey & Srinivasarao Ch. (2020). Role of Genomics in Agriculture in Age of Climate Change. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 539-560.
- Ratna Prabha, Sarika Sahu, Sona Charles, Supriya P, Yuvaraj I, Balakrishnan M, Soam SK, Satendra K Mangrauthia, Manish K Pandey & Srinivasarao Ch. (2020). Application of Bioinformatics in Climate Smart Agriculture. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 561-568.
- Rawat S, Garima, Vidhya V, Dayal-Devadas, Ibrahima SA, Bhutia RN, Krishnan P, Grinson-George, Soundararajan R, Ponniah AG. (2020). Hazards in the wake of climate change-induced extreme weather events and their impact on Indian fisheries. In: Ch. Srinivasarao *et al.*, (Eds). *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Hyderabad, Telangana, India. pp. 1-22.
- Seema Kujur, Vinayagam SS, Awasthi HK & Murthy GRK (2020). Enhancing the quality of Classroom Teaching by Using Educational Technology Tools. National Conference on Transformation of Agricultural Extension – Strategies for Effective Reformation – TAESERE 2020 (online), at College of Agriculture, Bapatla, Guntur on 20-21st August.
- Srinivasarao Ch. (2019). Synergy of research-technology-policy implementation for resilient rainfed-dryland production systems. In: *Proceedings of 13<sup>th</sup> International Conference on Development of Drylands: Converting Dryland Areas from Grey into Green*, February 11-14, 2019, organized by International Dryland Development Commission and Arid Zone Research Association of India, pp 90-102.
- Suresh Ramanan S, Soam SK & Srinivasarao Ch. (2020). Can Planting Trees Avert Climate Emergency? In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 183-197.
- Thongam Sunita Devi, Sanchita Biswas, Palmei Gaibimei, Anarase Dattatray Arjun, Ayon Tarafdar, Murthy GRK, Ravindra Naik & Srinivasarao Ch. (2020). Climate Smart Post-Harvest Agriculture and Food Systems. In: *Climate Change and Indian Agriculture: Challenges and Adaptation Strategies*, ICAR-National Academy of Agricultural Research Management, Pp. 359-383.
- Vinayagam SS & Murthy GRK. (2020). Open and Distance Learning Education in Agriculture NAARM Initiatives. National Conference on Transformation of Agricultural Extension-Strategies for Effective Reformation – TAESERE 2020 (online), at College of Agriculture, Bapatla, Guntur on 20-21 August.

### Popular article

- Kumar AE, Sontakki BS, Faizullah MM & Bhagwan PV. (2020). Impact of Soil Health Card Scheme: Lessons from selected success stories in southern India. *Indian Farmer*. 7 (04): 361-367

Radio/ TV talk/ Video talk/ Press Release

TV Talk- Topic/ Event	Channel and Program
News coverage about bagging four National awards by ICAR-NAARM during 92 <sup>nd</sup> ICAR Foundation Day and Award Ceremony of ICAR organized on 16th July, 2020 at New Delhi.	ETV Telugu on 25-07-2020 <a href="https://youtu.be/m3wjwmnJ3T0">https://youtu.be/m3wjwmnJ3T0</a>
News coverage about Inauguration of Disaster Recovery (DR) Centre by Hon'ble Union Minister of Agriculture & Farmers Welfare and Minister of Rural Development & Panchayati Raj, Shri Narendra Singh Tomar ji in the presence of Hon'ble Ministers of State, Agriculture and Farmers Welfare, Shri Parshottam Rupala ji, Shri Kailash Choudhary ji and Dr. Trilochan Mohapatra, Secretary, DARE and Director General, ICAR held on Aug 11, 2020.	ETV Telugu on 12.08.2020 <a href="https://youtu.be/3NXZCvpl0PU">https://youtu.be/3NXZCvpl0PU</a>
News coverage about NAARM-TBI, a-IDEA and NABARD partnership initiation for the scaling up of NAARM business incubator operation on Aug 27, 2020. NABARD will support the programme for next five years with a financial outlay of INR 6.5 Cr.	<a href="https://www.etvbharat.com/telugu/telangana/city/hyderabad/nabard-chairman-govindarajulu-speaks-on-farming-technics/ts20200827174143412">https://www.etvbharat.com/telugu/telangana/city/hyderabad/nabard-chairman-govindarajulu-speaks-on-farming-technics/ts20200827174143412</a>

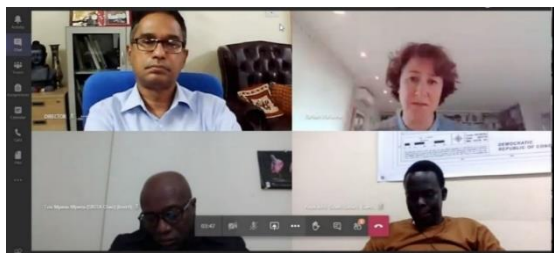
Media coverage



ఐసీఎఆర్ డేటా హైదరాబాద్ లో నిక్షిప్తం

ఈనాడు, హైదరాబాద్ : 'భారత వ్యవసాయ పరిశోధనా మండలి' (ఐసీఎఆర్)కి చెందిన సమాచారాధారితా రెండోకోట నిక్షిప్తం చేసేందుకు హైదరాబాద్ లోని జాతీయ వ్యవసాయ పరిశోధన, నిర్వహణ కేంద్రం (నార్మ)లో ఏర్పాటు చేసిన డేటా కేంద్రాన్ని కేంద్ర వ్యవసాయశాఖ మంత్రి సరేంద్రసింగ్ తోపాటే మంగళవారం ఆన్ లైన్ ద్వారా ప్రారంభించారు. మండలి ప్రధాన కార్యాలయం దిల్లీలో ఉంది. ఆశ్చర్య ఏమైనా వివరిస్తూ డేటా నాశనమైతే దాన్ని తిరిగి పొందడానికి హైదరాబాద్ లో నిక్షిప్తం చేసేందుకు ఏర్పాటు చేసినట్లు మంత్రి తెలిపారు. రాజేంద్రసింగ్ లోని నార్మలో రూ.5 కోట్ల వ్యయంతో ఈ కేంద్రాన్ని నిర్మించారు. నార్మలో గతంలో శిక్షణ పొందిన 5 వేల మంది విద్యార్థుల డేటాను మంత్రి ఈ సందర్భంగా ఆవిష్కరించారు.

Faculty / Staff Participation in Online Scientific Events



Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM, in UNFCCC Meeting of SB Chairs on agenda items related to Koronivia Joint Work on Agriculture with BASIC Group on Sep 23, 2020

Dr. Ch. Srinivasa Rao, Director, ICAR-NAARM participating in webinar with, Dr. Tamilisai Soundararajan, Hon'ble Governor of Telangana on "New Agriculture Acts – How will they benefit the farmers compared to earlier Acts?" on Sep 30, 2020

Programme Name	Organizer	Date	Scientist Name
Virtual Launch of 2020 Global Food Policy Report Building Inclusive Food System	IFPRI South Asia, ICAR and TAAS	Jul 6, 2020	Dr. Ch. Srinivasa Rao
Webinar on “Agriculture Startups - Opportunities and Challenges”	Agrovision Foundation	Jul 10, 2020	
Meeting to review the final version of Coffee Table Book and website of ICAR Journals under the Chairmanship of DG, ICAR and Co-chaired by AS, DARE and Secretary, ICAR	ICAR, Delhi	Jul 8, 2020	
Review meeting of all the conveners of NAAS Regional Chapters	NAAS, Delhi	Jul 17, 2020	
4 <sup>th</sup> Meeting of Executive Council of National Council for Cooperative Training via Video Conferencing.	NCCT	Jul 17, 2020	
Meeting of the 104 <sup>th</sup> Academic Council, ANGRAU, Lam, Guntur	ANGRAU, Guntur	Jul 17, 2020	
Felicitation ceremony of Dr Rattan Lal, World Food Laureate, Distinguished University Professor, Ohio State University, USA followed by Lecture on “Soil Science in Sustainable Food System beyond COVID-19” Chaired by Dr S.K. Chaudhari, DDG (NRM), ICAR	ICAR-IISS, Bhopal; NAAS Bhopal Chapter and Indian Society of Soil Science Bhopal Chapter	Jul 21, 2020	
Panel discussion on Technology backstopping and strengthening of KVKs to combat the challenges posed by COVID 19 pandemic during Inaugural session in virtual Annual Zonal Workshop of KVKs under Zone-10 (AP, Telangana, Tamil Nadu and Puducherry)	ICAR-ATARI, Hyderabad	Jul 23, 2020	
Meeting regarding engaging Retired Scientists for strengthening Agricultural Sector	ICAR, Delhi	Jul 23, 2020	
Presentation on Management of Websites and Social Media under the Chairmanship of DG, ICAR with all SOC Members	ICAR, Delhi	Jul 28, 2020	
Virtual Brainstorming Workshop to develop a framework for propelling ICAR-CIWA as a Global Institute for Women in Agriculture	ICAR-CIWA, Bhubaneswar	Jul 31, 2020	
Meeting Transfer Policy/Guidelines for Scientists of ICAR under the Chairmanship of DG, ICAR	ICAR, Delhi	Aug 1, 2020	
Boosting India's Agricultural Export: Action Plan of ICAR under the Chairmanship of Secretary, DARE & DG, ICAR to discuss the consolidated action plan	ICAR, Delhi	Aug 5, 2020	
Meeting with the Chairman of the Task Force on Agriculture Research Compendium on Impact of Agriculture Research	NAAS, Delhi	Aug 7 & 24, 2020	
113 <sup>th</sup> Meeting of the Executive Council of National Academy of Agricultural Sciences	NAAS, Delhi	Aug 10, 2020	
Board of Management Meeting of PJTSAU	PJTSAU, Hyderabad	Aug 13, 2020	
27 <sup>th</sup> General Body Meeting of NAAS	NAAS, Delhi	Aug 13, 2020	

Programme Name	Organizer	Date	Scientist Name
Launch of MOOCs on “Information Handling Skills for Teaching, Learning and Research” under NAHEP (IG) Subproject on National Knowledge Management Centre for Agricultural Education and Research as Guest of Honour	PJTSAU, Hyderabad	Aug 19, 2020	Dr. Ch. Srinivasa Rao
Brainstorming Session on Strategies for enhancing Soil Organic Carbon for Food Security and Climate Action (NAAS Hyderabad Regional Chapter activity)	NAAS, Hyderabad Chapter	Aug 21, 2020	
Fourth Convocation of PJTSAU held online at University Auditorium.(Participation as Board Member)	PJTSAU, Hyderabad	Aug 27, 2020	
NAAS Meeting under the Chairmanship of Dr Panjab Singh on Agriculture Res. Compendium	NAAS, Delhi	Sep 7, 2020	
Virtual Meeting of Regional Advisory Group (RAG) – First Meeting of Stakeholders for FY 2020-21 of National Bank for Agriculture & Rural Development (NABARD), Telangana Regional Office	NABARD	Sep 10, 2020	
NAAS Sectional Committee Meeting of NRM for election of Fellowship and selection of Associateship 2021	NAAS, Delhi	Sep 10, 2020	
NAAS Sectional Committee Meeting of NRM for election of Fellowship and selection of Associateship 2021	NAAS, Delhi	Sep 11, 2020	
First meeting with ISAP. ICAR has identified Society of Agribusiness Professionals ISAP as the agency for the third party evaluation for all the schemes which is mandated by Finance Ministry.	ICAR, Delhi	Sep 12, 2020	
294 <sup>th</sup> meeting of Board of Management of ANGRAU	ANGRAU	Sep 15, 2020	
Meeting regarding celebrations of 150th Birth Anniversary of Mahatma Gandhi on 2nd October 2020 through Video Conferencing under the Chairmanship of DG, ICAR	ICAR, Delhi	Sep 17, 2020	
Virtual Brainstorming Session on “One World-One Health”	NAAS, Delhi	Sep 19, 2020	
NAAS Sectional Committee Meeting - NRM	NAAS, Delhi	Sep 21, 28 & 30, 2020	
Steering Committee meeting to review the progress made and discuss the way forward for implementation of ICAR Research Data Repository for Knowledge Management (KRISHI) under the Chairmanship of DDG (NRM), ICAR	ICAR, Delhi	Sep 24, 2020	
Working Group Meeting on Draft National Agricultural Disaster Management Plan (NADMP) preparation with Member Secretary, National Disaster Management Authority (NDMA)	NDMA	June 11, 2020	Dr. Ch. Srinivasa Rao & Dr. P Krishnan
Online Review Meeting to review the progress of Zonal Technology Management Centre (ZTMC) activities in ICAR Crop Institutes in Southern Indian Zone (As chief Guest)	ICAR-IIMR	Sep 15, 2020	Dr. SK Soam

Programme Name	Organizer	Date	Scientist Name
Institute Technology Management Committee (ITMC) (as an IPR expert member)	Indian Institute of Oil Palm Research (IIOPR), Pedavegi	Sep 18, 2020	Dr. SK Soam
Meeting conducted by Marketing Department, Govt. of Telangana for 'Warangal Chapata as Geographical Indication'	Govt. of Telangana Marketing Dept. at Sri Konda Laxman Telangana State Horticultural University, Hyderabad	Jul 18, 2020	
Meeting of 'Third party evaluation of ICAR- Central Scheme' by ISAP organized by Education Division of ICAR, and Chaired by Dr RC Agrawal, DDG (Edn).	Education Division, ICAR	Sep 12, 2020	
Virtual Workshop on 'AgroEco2050 Foresight Study on Natural Farming: Andhra Pradesh'	RySS, CIRAD and FAO	Sep 15, 2020	Dr. Ranjit Kumar
TQIMC Meeting: Review of Training Programmes	NIRD	Jul 03, 2020	Dr. S. Senthil Vinayagam
Institute Research Council Meeting-2020 (Invited as Subject Matter Specialist-Agricultural Extension)	ICAR-IIMR	Aug 19,2020	
Session on "Innovation in Education Technology" during the National Conference on Transformation of Agricultural Extension – Strategies for Effective Reformation-2020 (as Chairperson)	ANGRAU, Bapatla	August 20-21, 2020	
Fourth Meeting of Extension Education Council of University of Agricultural Sciences, Raichur as Expert Member	UAS, Raichur	Aug 26, 2020	Dr. Bharat S Sontakki
Virtual Consultation on Fostering Freshwater Aquaculture Technology Dissemination through the Network of KVKs	ICAR-CIFA, Bhubaneswar	Aug 27, 2020	
Meeting of 'Third party evaluation of ICAR- Central Scheme' by ISAP organized by Education Division of ICAR, and Chaired by Dr RC Agrawal, DDG (Edn).	Education Division, ICAR	Sep 12, 2020	Dr. Tavva Srinivas

### Invited as Key Speaker in Virtual Scientific Meetings/ Webinars

Faculty	Topic	Event	Organiser	Date
Dr. Ch. Srinivasa Rao	Opportunities and Challenges in Ag. Education	Online Training Programme on "Teaching Competency Enhancements Programme for Faculty of SKLTSHU	SKLTSHU, Hyderabad	Jul 7, 2020
	Effect of Climate Change on Agriculture	Webinar on "Climate Resilience Agriculture – Opportunities and potential"	Directorate of Extension Services, RVSKVV, Gwalior.	Jul 27, 2020
	Resource Conservation Technologies for Sustainability of Agriculture and Environment	National Web Conference on Technological Approaches for Resource Conservation and Management for Environmental Sustainability (TARCMES)	The Academy of Natural Resource Conservation and Management (ANRCM), Lucknow	Aug 16, 2020

Faculty	Topic	Event	Organiser	Date
Dr. Ch. Srinivasa Rao	Sustainable Agriculture Practices for Food Security and Zero Hunger in India	Training Programme on Achieving Zero Hunger by 2030 : Critical role of agriculture and allied sectors	SKUAST-K Srinagar	Aug 18, 2020
	Overview of Agricultural Education	Online Training Programme on E-Resource, E-Learning and IoT for faculty of UAS, Raichur	UAS, Raichur	Aug 25, 2020
	Climate Change and mitigation measures	Webinar on "Oceans in the wake of climate change: challenges and solution"	Department of Aquatic Environment Management, FCRI, Thoothukudi	Aug 26, 2020
	India's Vulnerability to Climate Change - Adaptation strategies for Agriculture , Agroforestry	Forest and Climate Change Module for the Indian Forest Services (IFS) Probationers of IGNFA, Dehradun	IGNFA, Dehradun	Sep 7, 2020
	Government initiatives and strategies for Nutrisentive Agriculture	National Webinar on "Nutrisensitive Agriculture: A. way to empower India for a healthier future"	College of Community Science, CAU, Tura with CIWA, Bhubaneswar	Sep 29, 2020
Dr. SK Soam	Footprints of Ideal Research Methodology	National Workshop	Nanaji Deshmukh Veterinary Science University, Jabalpur, Madhya Pradesh	Aug 11, 2020
Dr. Ranjit Kumar	e-NAM and Recent Advances in Agricultural Marketing	Webinar under NAHEP-CAAST	KAU, Thrissur	Jul 6, 2020
	Essentials of Agripreneurship: Elements, scouting business ideas and identifying customers	Webinar under IDP-NAHEP	CAU, Imphal	Jul 7, 2020
	Introduction to Business Plan and Goal Setting	Webinar under NAHEP	Dr. PDKV, Akola	Aug 6, 2020
	Essentials of Marketing: STP and 4 Ps	Webinar under IDP-NAHEP	CAU, Imphal	Aug 11, 2020
	Developing Entrepreneurial Skill among Agri-Graduates	Webinar Series: Education for Agriculture- Making a Difference	NMIMS-School of Agricultural Sciences & Technology	Aug 21, 2020
	Seed Entrepreneurship Development: Small Scale Business Modeling	Webinar under CAAST on Nutritional Crops	CSAUA&T, Kanpur	Aug 26, 2020
	Developing Business Plan for Women FPO	National Webinar on Women FPOs	MPUAT, Udaipur	Sep 10, 2020
	e-NAM- Potential for Better Price Discovery for Smallholders	International Online Training on "Agriculture Value Chain Analysis for Strengthening Smallholders"	IIM, Jammu	Sep 15, 2020



Faculty	Topic	Event	Organiser	Date
Dr. Ranjit Kumar	Agri-Tech Startups for Empowering Smallholders	-as above-	IIM, Jammu	Sep 16, 2020
	Changing Paradigm of Agricultural Marketing under New Market Reform	National Webinar on Role of Agricultural Sector in Resilience of Indian Economy	BAU, Sabour	Sep 25, 2020
Dr. Bharat S Sontakki	Capacity Development of Extension Professionals: Competency-based Approach	International Webinar on Core Competencies for Extension Professionals	MANAGE, Hyderabad in collaboration with USAID, India	Jul 17, 2020
	Concluding Remarks on the Role of KVKs in Dissemination of Freshwater Aquaculture Technologies	Virtual Consultation on Fostering Freshwater Aquaculture Technology Dissemination through the Network of KVKs	ICAR-CIFA, Bhubaneswar	Aug 27, 2020
Dr. RVS Rao	Stress management	Webinar	ICAR-DGR, Junagadh	Sep 07, 2020
Dr. S. Senthil Vinayagam	Digital Initiative in Agricultural Education and Extension: Prospectus and challenges	Online Lecture for SKUAST faculty	SKUAST, Jammu	Jul 23, 2020
	Orientation to Govt. of India Agriculture and Allied Sectors Schemes and Programs	Virtual training programme on Farm Journalism for Effective Transfer of Technology	EEL, Rajendranagar	Aug 18, 2020
	“Extension Strategies for enhancing market access”	Online Training Programme on ‘Market Led Extension for Linking Farmers to Market’	MANAGE, Hyderabad	Aug 20, 2020
	Sustainable Issues in Agriculture and Food Security	21 days National Training Programme (NTP 2020)	ICAR – IGFR and National Agriculture Development Cooperative Ltd	Aug 25, 2020
	Application of ICTs in Agriculture and Agricultural Extension	Training Programme on “New Dimensions in ICTs and Knowledge Management in Agriculture”	MANAGE, Hyderabad	Aug 31, 2020
	Faculty Development Programme on “Teaching Learning Strategies of Online Education”	Online programme on Teaching & Learning Strategies for Online Education (TLSE-2020)	Nalla Narasimha Reddy Education Society’s Group of Institutions, Hyderabad	Sep 29, 2020
	Positive Thinking and Motivation	Webinar	ICAR-DGR, Junagadh	Sep 07, 2020
Dr. M Balakrishnan	Scope of Artificial Intelligence Research in Agriculture Sector	Online HRD training programme for the faculty members of Kerala Agricultural University	Central Training Institute (CTI), Kerala Agricultural University	Sep 24, 2020

Faculty	Topic	Event	Organiser	Date
Dr. P Krishnan	Science Communication Tips for Social Scientists <i>Plagiarism – An Overview</i>	NAHEP Sponsored Virtual Soft Skill Development Programme on Scientific Writing in Social Sciences	University of agricultural Sciences (UAS), Dharwad	Jul 06, 2020
	Evidence-based Conservation of Coastal Bio-resources: <i>Recent Trends</i>	Webinar on Conservation and management of marine fisheries resources	TNJFU, Nagapattinam	Jul 28, 2020
	Implementation of Nagoya Protocol on ABS in the context of Agricultural Sector	Virtual Training Programme on Access and Benefit Sharing (ABS) in the context of Agriculture and Allied Sectors for the State Biodiversity Boards	National Biodiversity Authority (NBA), Chennai	Aug 21, 2020
	Writing Research Papers Breaking Myths & Building Right Perspectives	Online Training Programme on Data Analytics in Fisheries	TNJFU, Nagapattinam	Sep 02, 2020
Dr. GRK Murthy	Cutting edge technologies for fisheries sector	online lecture	TNJFU, Nagapattinam	Sep 2, 2020
	Blog creation using Blogger	online lecture	College of Fisheries, Tripura	Sep 2, 2020
Dr. Manju Gerard	Advances in Agrochemicals and Possible Green Solutions	Virtual International Conference on “Role of Environment and Natural Science in COVID-19 Time”	Lucknow Christian College, Lucknow	Jul 29-31, 2020
	Identification of New Dimensions for Preparing National/Global Level Database on Women in Agriculture	Virtual Brainstorming Workshop	ICAR-CIWA, Bhubaneswar	Aug 28, 2020
Dr. K Srinivas	Agri and Food Startup Ecosystem in India	National Webinar on Hi-Tech interventions for agriculture development & catalyzing agri-startup	Bangalore Biotechnology Center, Bangalore	Aug 17, 2020
	Perspectives of Private Sector Stakeholders & Developmental Agencies in Accelerating Freshwater Aquaculture Development	Webinar	IDP-NAHEP-RVSKVV, Gwalior, College of Agriculture, Indore & Krishi Vigyan Kendra, Dhar (M.P.)	Aug 26, 2020
	BIG Awareness Session	Webinar	i-Hub, Gujarat Govt.	Sep 10, 2020
	Grant opportunities for Agripreneurs at various stages	Webinar	ICAR-CIFA, Bhubaneswar in association with NFDB, Hyderabad	Sep 11, 2020
	Innovation and Incubation to connect modern science with farmers	Webinar	IGKV R-ABI, Raipur	Sep 29, 2020

Faculty	Topic	Event	Organiser	Date
Dr. Alok Kumar	Human Resource Management for Agricultural Transformation	Webinar	BAU, Sabour	Sep 25, 2020
Dr. Sanjiv Kumar	ICT enabled marketing in Animal Husbandry Sector	Virtual training programme on Market Led Extension in Animal Husbandry Sector	EEL, PJTSAU, Hyderabad	Aug 05, 2020
	Financial and Marketing Management aspects of Entrepreneurship Development	National e-Training on Indian Agricultural Education System and Entrepreneurship Scope in 21 <sup>st</sup> Century	PDKV, Akola	Aug 07, 2020
	Principles and Strategies of Agribusiness Management	MOOC Training on Innovative Ideas for Entrepreneurship Development in Livestock Sector	MANAGE, Hyderabad	Sep 21, 2020

### Trainings Attended by the Faculty/Staff

**Dr. GRK Murthy** attended Online Workshop on Evidence based Teaching and Learning Strategies at by IISER, Bhopal during Aug 20-22, 2020.

**Dr. Umesh Hudedamani** attended training programme on Immersion Programme for managers of new incubation centers by Venture Center, Pune (Online) during July 22-23,2020.

**Dr. Umesh Hudedamani** attended Professional patent landscaping workshop by Turnip Innovations, Mumbai (Online) on Sep 25, 2020

**Dr. Umesh Hudedamani** attended training programme on IP rights in agricultural research and education in India by NAHEP and IP&TM, New Delhi (Online) Sep 12-28, 2020.

**Dr. Laxman Ahire** attended Innovative Practices in Extension Research and Evaluation: Online Training Programme at ICAR-NAAM, Hyderabad during Sep 08-28, 2020.

**Dr. KR Ghanshyam** attended five-days International Faculty Development Programme-IFDP on “Enhancing Digital Proficiency– A Platform for Refining the Research and Teaching Skills” organized by AKNU, Rajamahendravaram during Aug 12-16, 2020.

### Staff News

#### Appointments/ Joinings

- Shri B. D. Pansal, joined the Academy as Joint Director (Admn.) & Registrar w.e.f. 01.07.2020 (F.N.)
- Shri Mukul Raj Singh, joined the Academy as Administrative Officer w.e.f. 31.08.2020 (F.N.)

#### Promotions

- Mrs. Y. Gayathri, UDC has been promoted under DPC to the grade of Assistant w.e.f. 05.09.2020
- Shri. P. Swamy, LDC has been promoted under DPC to the grade of UDC w.e.f. 05.09.2020.
- Shri. M. Narsing Rao, LDC has been promoted under DPC to the grade of UDC w.e.f. 05.09.2020.

#### Retirement/ Superannuation

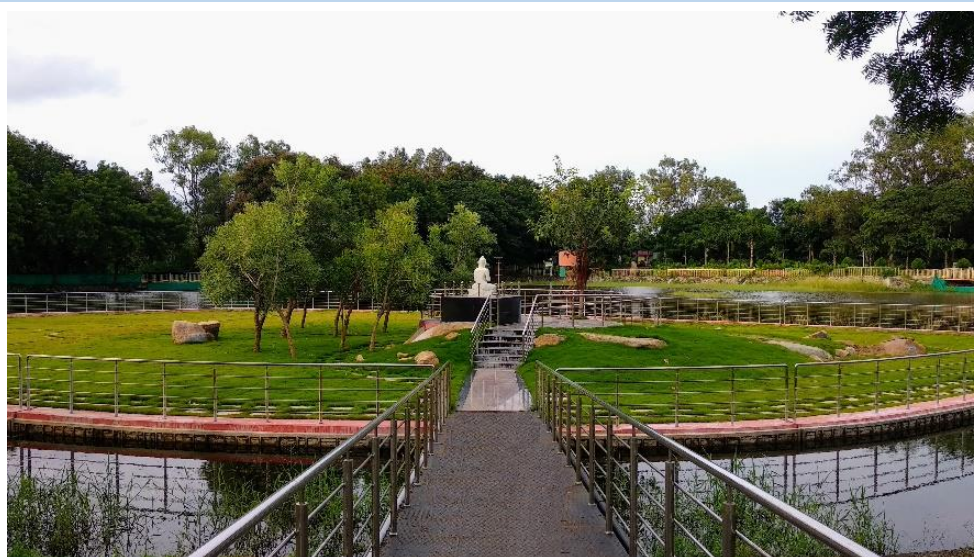
- Dr. Sandhya Shenoy, Principal Scientist retired on superannuation w.e.f. 31.07.2020.
- Mrs. Mariyamma K, Skilled Support Staff retired on superannuation w.e.f. 31.07.2020.
- Shri K. Veeranasiah, Sr. Technical Assistant retired on superannuation w.e.f. 31.08.2020.
- Mrs. B. Shantamma, Skilled Support Staff retired on superannuation w.e.f. 30.09.2020.

#### Obituary (while in service)

- Mrs. Noorjahan, CLTS Worker has expired on 04.08.2020.

## Upcoming Events

Event	Date
Training Programme on Sustainable Management of Small Scale Seed Enterprises (Online Mode)	Oct 05-09, 2020
Training Programme for Administrative and Finance officers of ICAR (Online Mode)	Oct 12-21, 2020
MDP on PME in Agricultural Research Projects (Online)	Oct 13-17, 2020
Training Programme on Recent Innovations in Educational Technology	Nov 05-10, 2020
Training Programme on Analysis of Experimental Data Using SAS (Online)	Nov 09-14, 2020
MDP on Market Research & Value Chain Management of Agricultural Commodities (Online)	Nov 17-21, 2020
MDP on Leadership Development (a pre-RMP programme) (Online)	Dec 08-19, 2020
National Seminar on Big Data Analytics in Agriculture (Online)	Dec 10-11, 2020
MDP on Business Plan Development and Accelerating FPOs/FPCs (Online)	Dec 14-19, 2020
Training Programme on Motivation, Positive Thinking and Communication Skills for Technical Officers of ICAR (T-5 & above)(Online)	Dec 17-22, 2020
112th Foundation Course for Agricultural Research Service (FOCARS)	Jan 01-31, 2021
Training Programme on Time Series Data Analysis	Jan 04-09, 2021
Training Programme on Applications of Artificial Intelligence and Cloud Computing in Agriculture	Jan 18-23, 2021
MDP on Administrative and Financial Management for SAO/US/SFAO	Jan 18-23, 2021
Training Programme on Geospatial Analysis using QGIS & R	Feb 01-06, 2021
Training Programme on KOHA for Library Staff of ICAR	Feb 18-23, 2021
23rd Annual Conference of Society of Statistics, Computers Applications (SSCA)	Feb 25-27, 2021



**Editors: Dr. Sanjiv Kumar, Dr. BS Yashavanth, Dr. Tavva Srinivas and Dr. Ranjit Kumar**

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