



# NEWSLETTER

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## a-IDEA, NAARM Bags National Award

a-IDEA, Technology Business Incubator of NAARM has won “National Award for Emerging Technology Business Incubator 2017” from Department of Science & Technology, Govt. of India. Dr. Ch. Srinivasa Rao, Director, NAARM & President, a-IDEA along with Mr. Vijay Nadiminti, COO, a-IDEA received the award from Dr. Harsh Vardhan, Hon’ble Union Minister for Science & Technology, Earth Sciences, Environment, Forests and Climate Change at a function held on Technology Day at Vigyan Bhawan, New Delhi on May 11, 2018. The event was graced by Shri Ram Nath Kovind, Hon’ble President of India.



## Scientific Meetings

### SAARC Regional Consultation on ‘Climate Smart Agricultural Policies, Strategies and Agricultural Development Programs towards Climate Change Adaptation and Mitigation’

NAARM hosted the regional consultation on ‘Climate Smart Agricultural Policies, Strategies and Agricultural Development Programs Towards Climate Change Adaptation and Mitigation’, organized jointly with



SAARC Agriculture Centre (SAC), Bangladesh; Asia-Pacific Network for Global Change Research (APN), Japan; Ministry of Environment, Forest and Climate Change (MoEFCC), India during April 17-19, 2018. The consultation was inaugurated by Shri. Shailendra Kumar Joshi, Chief Secretary of Telangana, who called for sharing mutual experiences towards effective adaptation to climate change, based on the common characteristics in agricultural practices and food systems among these countries. Dr. P. Appa Rao, Vice Chancellor, University of Hyderabad and Dr. K.J. Ramesh, Director General, Indian Meteorology Department spoke on the occasion. Dr. Kirit Parikh, Former Member, Planning Commission,

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GoI, in his key note address, emphasized the need to undertake district level analysis to develop climate resilient agrarian solutions. Dr. Ch. Srinivasa Rao, Director illustrated the cross-sectoral impacts of the changing climate and highlighted the need for developing collaborative regional adaptation strategies.

During the consultation, the delegates from the SAARC countries presented the state of knowledge, adaptation strategies, scope for knowledge and experience sharing with special reference to building climate resilient agrarian systems in the region. The roadmap prepared as a fallout of this regional consultation through active involvement of all member countries is envisaged to take forward the decisions on “Koronivia Joint Work on Agriculture”, by the 23<sup>rd</sup> Conference of Parties (CoP) to the United Nations Framework Convention on Climate Change (UNFCCC). The workshop was attended by senior officers and agricultural experts from Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan and

Sri Lanka. Scientists and senior officials from ICAR, NRSA, MoES, MoEFCC and NABARD also participated in the meeting.

(Programme Coordinators: Drs. Ch. Srinivasa Rao, S.K. Soam and P. Krishnan)



### Expert Committee Meeting (Agriculture & Allied Sciences) of DST under Women Scientist Scheme-B (WOS-B)

NAARM hosted the Expert Committee Meeting (Agriculture & Allied Sciences) of DST under Women Scientist Scheme-B (WOS-B) on May 8-9, 2018. Using S&T interventions for the social benefit was the focus area for evaluating the projects. About 40 women participants attended the meeting chaired by Dr. Sudha Nair, CEO of Golden Jubilee Bio-Tech Park for Women, Chennai. Dr. Vandana Singh from DST was also present during the meeting.

(Programme Directors: Drs. Manju Gerard and Alok Kumar)



### National Dialogue on 'AI and IoT Applications in Agriculture'

The Academy organized a special programme on 'National Dialogue on Artificial Intelligence (AI) and the Internet of Things (IoT) Applications in Agriculture' on June 1-2, 2018. The purpose was to sensitize the participants about the enormous potential of data/knowledge management, AI and IoT in the area of agriculture and allied sectors and prepare a base paper for the next higher-level policy workshop. About 30 participants from 20 ICAR institutes situated all over India participated in the dialogue. The programme was designed to cope with the challenges faced by the agriculture sector due to the involvement of a variety of stakeholders such as scientists, farmers, extension functionaries, inputs suppliers, etc. The participants deliberated on the topics like AI in agriculture, agricultural robots; Crop, soil monitoring and predictive analytics; and IoT includes methods like precision

farming, application of drones, livestock monitoring and smart greenhouses. Other areas of group discussions were AI and IoT applications in crops, natural resource management and animal science & fisheries.

(Programme Coordinators: Drs S.K. Soam, M. Balakrishnan & V.V. Sumanth Kumar)



## Research Projects

### Study on 'Adoption of Insect Resistance Management Practices in Bt- Cotton Cultivation in India'

The Academy has initiated a sponsored research project on 'Adoption of Insect Resistance Management Practices in Bt-Cotton Cultivation in India'. Under this, a field survey was conducted in three major cotton growing states i.e., Gujarat, Maharashtra and Karnataka. In these states, 612 cotton growers across 8 districts and 40 villages were personally interviewed to understand the perception and adoption pattern of different insect resistance management practices in Bt-cotton. Other stakeholders like researchers, cotton ginning millers and traders were



also interviewed. In these regions, farmers are growing long duration Bt-cotton hybrids which remain in the field even up to March-April month, leaving the stalks standing in the field. Lack of awareness about the management practices, reluctance to use refuge cotton seeds, constraint in growing other crops in place of cotton due to agro-climatic conditions is considered to be the major reasons for developing insect resistance in Bt-cotton badly affecting the cotton yield.

## Training Programmes

### 6<sup>th</sup> Foundation Course for the Faculty of ANGRAU

The 6<sup>th</sup> Foundation Training for 49 faculty members & scientists of Acharya N.G. Ranga Agricultural University (ANGRAU) was organized during March 12 - April 10, 2018. The course was primarily intended at intensive capacity building of the faculty with focus on hands-on learning with conceptual and practical orientation. The programme stressed on areas like National Agricultural Research, Education and Extension Systems; Teaching - Learning Management; Research Project Management; IP Informatics; Human Resource Management; Extension and Training Management; Administration and Finance Management; Personality including Health Management, and communication skills. There were 63 interactive sessions, 10 hands-on sessions, eight participant activities along with four institutional visits. The innovative efforts introduced in the programme were: webinars, skype interactions, video conferencing with the national and

international agriculture experts. Sri V.V. Lakshminarayana, Addl. DGP, Govt of Maharashtra was the chief guest for the valedictory ceremony.

(Programme Directors: Drs. P. Krishnan, P.D. Sreekanth & V.V. Sumanth Kumar)



## NAARM-Coromandel Collaborative Capability Building Programme for Young Agri-Business Professionals

In collaboration with Coromandel Sales Force Learning Academy, ICAR-NAARM organized two training programmes of five-day duration each for their sales and marketing professionals. The participants were made aware of the present agricultural scenario, prospects, and challenges to meet the increasing food demand and fundamentals of crop production and protection practices. These programmes aimed at improving the knowledge and skills in the technical aspects of fertilizer and specialty nutrients and organic inputs. The programme also covered behavioral aspects such as personality development, time management and emotional intelligence. Thirty-two participants joined first training programme whereas 28 participants in the second

programme from different states. The programmes were organized during May 14-18, 2018 and May 21-25, 2018. (Programme coordinators: Drs. K.H. Rao and Ranjit Kumar)



## Spatial Data Analysis and Mapping using GIS Tools

A sponsored training programme on 'Spatial Data Analysis and Mapping using GIS Tools' was held during June 27-29, 2018 for the faculty members of PJTSAU. The main objective of this training programme was to enhance the competency levels of the participants in understanding GIS and GPS with open source software and applying them in agricultural sciences. The programme consisted of a blend of lectures, self-exploration instruments, case analysis and hands-on exercises. The course broadly covered topics on overview

and design of Relational Database Management System (RDBMS), Introduction to Geospatial concepts and technologies, GIS data models, file types, map projection, scale and map digitization, exploring relations between maps and data, preparation of thematic maps, spatial database design and implementation and introduction to GPS. Fourteen participants from different centers of PJTSAU attended this programme.

(Programme Director: Dr. P.D. Sreekanth)

## MDP on Leadership Development

A Management Development Programme on 'Leadership Development (a pre-RMP Programme)' was organized for the senior managers of NARS. The major issues deliberated during the programme were framework for transition from scientist to research manager, emotional intelligence, vigilance management, personality profiling for leadership development, Priority Setting, Monitoring and Evaluation (PME), role perception, positive thinking, FMS/IMS for managerial decision making, leadership challenges, motivational skills for leadership, leadership excellence, communication for leadership, personal planning and effectiveness, stress management. The other issues covered include research programme prioritization – AHP, public procurement and contract administration, ICAR Data Management Policy, new vistas in technology enhanced learning – A case of NAARM, issues of governance and technology management in NARS. Participants got insight into their leadership attributes through psychometric tests and debriefing of the results.

The participants visited Centre for Agri-Innovation and TELaGE Lab of NAARM, Technology Business Incubation Centre of ICRISAT Apart from classroom teaching, all the trainees also got exposure to regular Yoga practice. Seventeen participants from 14 different ICAR institutions participated in the programme. The programme was held during June 04-15, 2018.

(Programme Directors: Drs. K.H. Rao and P. Ramesh)



## Agricultural Research and Education Management

A training programme on 'Agricultural Research and Education Management' for newly recruited assistant professors of PJTSAU was held in two batches during April 19-28 and June 6-15, 2018. The programme encompassed several topics including agricultural research management process & tools, developing successful research project proposals, the importance of IP in research, agriculture-nutrition linkages, agri-entrepreneurship, etc. Each batch had 69 participants including 35 women participants in first batch whereas 37 in the second batch.

(Programme Director: Dr. S.K. Soam. Programme Coordinators: Batch-I: Drs. N. Sandhya Shenoy & P.D. Sreekanth; Batch-II: Drs. Manju Gerard and Sanjiv Kumar)



## Scientific Communication and Developing Winning Research Proposals

A tailor-made off-campus programme was organized during June 21 – 23, 2018 at the behest of Tamilnadu J. Jayalalitha Fisheries University (TNJFU), Nagapattinam for 25 newly recruited faculty members, representing three different colleges. The core content of the programme included elements of scientific writing and oral communication; tools and tips for communicating research ideas; research concept writing; preparation of project log frames and making winning research proposals. The participants were introduced to the online applications developed by NAARM viz., AHP Analyser, Research Concept Writer and Project Log frame Writer. The participants were also sensitized on the issues confronted by the young researchers and tips for self-

motivation and positive thinking. The programme comprised of a blend of lectures, discussions, group activity, hand-on exercises and presentation. Dr. S. Felix, Vice Chancellor, TNJFU, in his valedictory address complemented the inputs of NAARM and looked forward to stronger collaborations between both organizations. NAARM signed an MoU with TNJFU to build on the mutual strengths of the organizations towards meeting respective institutional goals. The training programme was organized by the Academy at the University Campus at Madavaram, Chennai.

(Programme Coordinators: Drs. P. Krishnan, Bharath S. Sontakki and S.K. Soam)

## Events

### 4<sup>th</sup> International Day of Yoga

NAARM celebrated the 4<sup>th</sup> edition of International Day of Yoga on June 21, 2018. About 250 participants including faculty & staffs of NAARM, PGDMA students & trainees of the Academy, employees of other ICAR institutes located at Hyderabad, and students from nearby local schools took part in the celebration. The revised Common Yoga Protocol (CYP) as circulated by Govt of India was performed from 6 - 7am at the lake view lawn of the Academy. Dr. Ratnakar Rao, a renowned orthopedic surgeon, Continental Hospital was the Chief Guest on the occasion. He talked about the benefits of yoga, Vitamin D deficiency among school children and ways to manage it. Dr. Ch. Srinivasa Rao, Director, NAARM also addressed



the participants. Two yoga instructors, Mrs. Haseena and Mrs. Padma demonstrated different asanas. At the end of the event, healthy refreshments were distributed to all the

participants. Dr. A. Debnath, Medical Officer coordinated the programme.

### SPICMACAY – Kathak Performance

The Academy hosted Kathak dance by Sangeetha Natak Academy Award Winner Pandit Rajendra Gangani in association with the Society for the Promotion of Indian Classical Music and Culture Amongst Youth (SPIC-MACAY) on June 30, 2018. The programme was organized by Drs. M. Krishnan, S. Ravichandran and D. Thammi Raju along with the PGDMA Sanskriti club.



## Academic News

### Post Graduate Diploma in Education Technology Management

The Academy has received approval from ICAR and University of Hyderabad to launch one-year Post-Graduate Diploma in Educational Technology and Management (PGD-ETM) through distance learning mode. The aim of the course is to develop capable and

competent/potential teachers of Universities and academic institutions. The course is structured to provide application of systematic knowledge about learning and instruction to teaching and training with aim of improving their quality and efficiency.

### 10<sup>th</sup> Batch of PGDMA Commenced

Twenty-nine students were admitted for the 10th batch (2018-20) of Post Graduate Diploma in Management - Agriculture (PGDMA) at the Academy. For the admission, the applicants were screened on the basis of CAT/CMAT scores and short-listed candidates were called for Precis writing, Group discussion and Personal interview at the Academy. The new academic session started on June 20, 2018. Before that, the newly admitted students were warmly welcomed by Dr. Ch. Srinivasa Rao, Director, NAARM during the inaugural session on June 18, 2018. The orientation programme was organized on June 19, 2018. Dr. D Thammi Raju and Dr. M. B. Dastagiri are the Academic Coordinators for the batch.

Further, the students of 9th Batch of PGDMA completed their 8-week long Summer Internship and joined back the Academy on June 25, 2018.



### New Resources Added

In line with the sustained efforts of the Academy to instill research integrity and promote high quality, original research among the members of National Agricultural Research and Education System (NARES) through its various initiatives, the Project Prioritization, Monitoring and Evaluation (PME) Cell of NAARM has taken efforts

to subscribe for the following software / applications that aid in promoting quality research. These resources have been integrated into the capacity building programs (CBP) of the Academy and are accessible to all the participants, during their stay in the Academy.

**iThenticate:** One of the most authentic and widely used plagiarism check software, which aids to detect and prevent plagiarism, test citation sufficiency and assess originality.

**Sci-Val:** (to represent, Science Value), A product of Elsevier, which provides interactive visual interfaces on

research performance of institutions based on the SCOPUS database.

**Web of Science:** An online scientific citation indexing service offered by Clarivate Analytics (erstwhile Intellectual Property and Science business of Thomson Reuters), which provides access to multiple databases that reference cross-disciplinary research.

## MoUs Signed

The Academy signed Memorandum of Understanding (MoU) with 5 different public and private organizations during this period.



April 10, 2018



May 05, 2018



May 16, 2018



Jun 12, 2018



Jun 23, 2018

## Foreign Visits

Dr. Ch. Srinivasa Rao, Director and Dr. S.K. Soam visited **Singapore, Australia and New Zealand** during May 19-29, 2018 as a part of 'Senior Executive Development Programme on Developing Effective Organizational Leadership for Senior Officers of ICAR' conducted by Administrative Staff College of India (ASCI), Hyderabad. During the visit, they were exposed to various applications/technologies being adopted in Australian Centre for Field Robotics at University of Sydney, Hawkesbury Institute for the Environment, Western Sydney University, Australian Meat Industry Council, Department of Agriculture and Water Resources, Grain Research and Development Corporation and Australian Centre for International Agricultural Research. In Wellington, New Zealand, they visited Ministry of

Primary Industries (MPI) Office, The Global Research Alliance (GRA), T&G Fresh Produce Market, Horticulture, New Zealand and attended a talk by Mr. Mike Chapman, CEO, Cooperative Bank House.



Drs. Bharat S. Sontakki, D. Thammi Raju, S. Senthil Vinayagam and P. Venkatesan visited **Kandy, Sri Lanka** to attend International Conference on 'Transforming Agricultural Extension Systems: Towards Achieving the Relevant Sustainable Development Goals (SDGs) for Global Impact' during May 10-12, 2018. Drs. D. Thammi Raju and S. Senthil Vinayagam acted as panelists and presented lead papers in the conference. The conference was attended by more than 200 researchers from ten Asian and other countries.



Dr. K. Srinivas visited Krishi Gobeshona Foundation, **Dhaka, Bangladesh** as resource person for training programmes on 'IP and Technology Management' for personnel of National Agricultural Research System (NARS), Bangladesh at BRAC, Savor, Dhaka during June

24-29, 2018. He dealt sessions on technology valuations, deal making, entrepreneurship and business incubation. There were about 43 participants from different organizations viz. Bangladesh Agricultural University, line departments and private industries.

## Distinguished Visitors

**Dr. Mangala Rai**, Former DG, ICAR & Chairman, 7<sup>th</sup> QRT – NAARM visited the Academy on April 2, 2018 and delivered a lecture for the participants of 107<sup>th</sup> FOCARS and 7<sup>th</sup> FOCFAU in a combined session.

**Dr. R.S. Paroda**, Former DG, ICAR & Founder Chairman, TAAS visited the Academy on April 3, 2018 to address to the participants of 107<sup>th</sup> FOCARS.

**Dr. S.P.S. Khanuja**, Advisor to Environmental sustainability (Springer Nature), New Delhi delivered a lecture for the participants of the ten-day Induction Programme for newly recruited Assistant Professors of PJTSAU on April 21, 2018.

**Dr. Arvind Kumar**, Former DDG (Edn.), ICAR & Vice-Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi visited the Academy and delivered a lecture for the participants of ten-day Induction Programme for newly recruited Assistant Professors of PJTSAU on April 23, 2018.

**Mrs. Krishna Tyagi**, Chief Controller of Accounts, Department of Agricultural Research & Education, Ministry of Agriculture & Farmers Welfare, GoI visited the Academy on May 22, 2018, and held a discussion with the senior officers of NAARM.

**Shri Jaideep Govind**, Special Secretary (DARE) & FA, ICAR visited the Academy on June 5, 2018 and held a discussion with Senior Officers. He also visited the facilities present in the Academy (TelAgE lab and TBI).

## Faculty Achievements

### Honors, Awards and Recognitions

**Dr. Ch. Srinivasa Rao** is elected as Fellow of Telangana Academy of Sciences (TAS), 2018. He also became Life Member, Administrative Staff College of India Association.

**Dr. S. K. Soam** is recognized as an IPR expert member of Institute Technology Management Committees (ITMC) of ICAR-National Research Center on Meat, Hyderabad and ICAR-Directorate of Poultry Research, Hyderabad.

**Dr. S. K. Soam** is recognized as a Member, Consultative Group constituted by Registrar of Geographical Indications, Govt. of India.

**Dr. P. Krishnan** is nominated by National Fisheries Development Board, Hyderabad to serve as a Member in the National Mariculture Policy Drafting.

**Shri B. Ashok**, skilled support staff bagged ICAR Cash Award under "Cash Awards Scheme 2017 Supporting Category".



## Publications

### Research Articles

- Anu SS, Azhar A, Subhas P, Kaechele H, Ranjit-Kumar and Muller K (2018) Linking food security with household's adaptive capacity and drought risk: Implications for sustainable development. *Springer- Social Indicators Research*. Published online: 15 May 2018. DOI 10.1007/s11205-018-1925-0.
- Krishnan P, Ananthan PS, Purvaja R, Jeevamani JJJ, Infantina JA, Srinivasarao Ch, Anand A, Mahendra RS, Sekar I, Kareemulla K, Biswas A, Sastry RK, Ramesh R (2018) Framework for mapping the driver of coastal vulnerability and spatial decision making for climate-change adaptation: A case study from Maharashtra, India. *Ambio* (Royal Swedish Academy of Sciences 2018). <https://doi.org/10.1007/s13280-018-1061-8>, pp 1-21.
- Raju BMK, Rama Rao CA, Rao KV, Srinivasarao Ch, Samuel J, Subba Rao AVM, Osman M, Srinivasarao M, Ravi Kumar N, Nagarjuna Kumar R, Sumanth Kumar VV, Gopinath KA, Swapna N (2018) Assessing unrealized yield potential of maize producing districts in India. *Current Science*, Vol. 114(9):1885-1893.
- Ranjit-Kumar and Raju KV (2018) Leveraging policies for self sufficiency in pulses in India. *SAGE-Journal of Development Policy and Practice*, Vol 3(2): 155-178. DOI: 10.1177/2455133318772408.
- Ranjit-Kumar, Surjit V and Khan PE (2018) Complexity in technology choices and market access for pigeon pea growers in semi-arid tropics of India. *Springer-Agricultural Research*, Published online: 11 May 2018. DOI 10.1007/s40003-018-0321-y.
- Sanjiv-Kumar, Kalamkar SS and Parihar TB (2018). Constraints facing livestock feed and fodder traders: evidence from Gujarat in India. *International Journal of Pure & Applied Bioscience*, 6(3): 208-213. DOI: <http://dx.doi.org/10.18782/2320-7051.6160>
- Sharma KL, Srinivasarao Ch, Chandrika DS, Lal M, Indoria AK, Reddy SK, Ravindrachary G, Vijay A, Kathmale DK, More NB, Srinivas K, Gopinath KA and Srinivas DK (2018) Effect of predominant integrated nutrient management practices on soil quality indicators and soil quality indices under post monsoon (rabi) sorghum (sorghum bicolor) in rainfed black soil (vertisols) of western India. *Communications in Soil Science and Plant Analysis*. 1-9. <https://doi.org/10.1080/00103624.2018.1474901>.
- Srinivasarao Ch, Kareemulla K, Krishnan P, Murthy GRK, Ramesh P, Ananthan PS and Joshi PK (2018) Agro-ecosystem based sustainability indicators for climate resilient agriculture in India: A conceptual framework. *Ecological Indicators*. <https://doi.org/10.1016/j.ecolind.2018.06.038>.
- Srinivasarao Ch, Kundu S, Grover M, Manjunath M, Sudhakar KS, Patel JJ, Singh SR, Singh RP, Patel MM, Arunachalam A and Soam SK (2018) Effect of long term application of organic and inorganic fertilizers on soil microbial activities in semi-arid and sub-humid rainfed agricultural systems. *Tropical Ecology*. 59(1): 99-108, 2018.
- Srinivasarao Ch, Kundu S, Sharma KL, Thakur PB, Amrutsagar VM, Deshpande AN, Pharande AL, Balloli SS, Arunachalam A and Soam SK (2018) Effect of 22-year-long conjunctive use of organic and chemical sources of nutrients on crop yield, soil properties, and nutrient balance in post-monsoon sorghum (sorghum bicolor l.) in peninsular vertisols of India. *Communications in Soil Science and Plant Analysis*. 1-16, 2018.
- Yashavanth BS, Laha AK (2018) Disparity in the wages of agricultural labourers in India: An interval-valued data analysis. *Indian Journal of Agricultural Sciences*, 88(6): 916-923.

### Conference Proceedings/ Policy Briefs/ Poster Presentation

- Ananthan PS, Ramasubramanian V, Krishnan M, Josephine M, Nissar U, Fernandez H (2018) Are fisheries graduates of India employable: results from a cross-country study on career choices and employability. In: Rajendran et al., (eds.) *3rd International Symposium on Aquaculture and Fisheries Education: Fisheries Education for Sustainable Blue Economy (ISAFE3)*, 16-18 May, 2018, CIFE, Mumbai, India.
- Krishnan M, Vinayagam SS, Murthy GRK, Thammi-Raju D and Sumanth-Kumar VV (2018) Open & distance learning systems, MOOCs and digital education in fisheries for reaching the unreached. In: Rajendran et al., (eds.) *3rd International Symposium on Aquaculture and Fisheries Education: Fisheries Education for Sustainable Blue Economy (ISAFE3)*, 16-18 May, 2018, CIFE, Mumbai, India.
- Krishnan P, Vanitha M, Ananthan PS, Soam SK, Venkateshwarlu G, Srinivasarao Ch (2018) Re-positioning fisheries education in the era of disruptive digital innovations. In: Rajendran et al., (eds.) *3rd International Symposium on Aquaculture and Fisheries Education: Fisheries Education for Sustainable Blue Economy (ISAFE3)*, 16-18 May, 2018, CIFE, Mumbai, India, p139-147.
- Munawer W, Vinayagam SS and Reddy DR (2018). Participatory management process in NRM by women groups. In: Chandana et al., (eds.) *International Conference on Transforming Agricultural Extension Systems: Towards Achieving the Relevant Sustainable Development Goals (SDGs) for Global Impact*, 10-12 May, 2018, Kandy, Sri Lanka.
- Qureshi NW and Krishnan M (2018) Forewarned is forearmed: The case of information prognostics for restoration of schizothorax fisheries in the Dal, Kashmir, India. In: Rajendran et al., (eds.) *3rd International Symposium on Aquaculture and Fisheries Education: Fisheries Education for Sustainable Blue Economy (ISAFE3)*, 16-18 May, 2018, CIFE, Mumbai, India.
- Ranjit-Kumar, Sanjiv-Kumar and Meena PC (2018) Smart micro-mandi: For better price realization and reduced market risks for the smallholders. *Policy Brief*, April 2018, No. 1. ICAR-NAARM, Hyderabad. DOI 10.13140/RG.2.2.32106.00969
- Reddy SM, Thammi-Raju D and Kanthisri BS (2018) Livelihood opportunities among dairy farmers for their economic empowerment. In: Chandana et al., (eds.) *International Conference on Transforming Agricultural Extension Systems: Towards Achieving the Relevant Sustainable Development Goals (SDGs) for Global Impact*, 10-12 May, 2018, Kandy, Sri Lanka.
- Thammi-Raju D (2018) Re-vamping extension for quality education and learning of farmers. In: Chandana et al., (eds.) *International Conference on Transforming Agricultural Extension Systems: Towards Achieving the Relevant Sustainable Development Goals (SDGs) for Global Impact*, 10-12 May, 2018, Kandy, Sri Lanka.
- Thammi-Raju D, Vinayagam SS and Srinivasarao Ch (2018) Curriculum development in higher education: Creating quality human resource for tomorrow. In: Rajendran et al., (eds.) *3rd International Symposium on Aquaculture and Fisheries Education: Fisheries Education for Sustainable Blue Economy (ISAFE3)*, 16-18 May, 2018, CIFE, Mumbai, India.

### Faculty / Staff Participation in Scientific Events

- Dr. M. Krishnan attended and participated in a panel discussion during the National Conference on Marine Debris, 2018 at Central Marine Fisheries Research Institute, Kochi on April 11-12, 2018.
- Dr. S.K. Soam, participated as an IPR expert member in the Institute Technology Management Committee (ITMC) meetings of ICAR-National Research Center on Meat, Hyderabad on June 11, 2018 and ICAR-Directorate of Poultry Research, Hyderabad on April 23, 2018.

Drs. Ch. Srinivasa Rao, K. Kreemulla, S. Ravichandran, P. Krishnan and B. S. Yashavanth participated in the Workshop on Environment Impact Assessment of Tobacco Cultivation in Andhra Pradesh and Karnataka held at Tobacco Board, Guntur on May 2, 2018.

Dr. P. Krishnan participated in the First meeting of the Drafting Committee of National Mariculture Policy at National Fisheries Development Board, Hyderabad on May 14, 2018.

Dr. S.K. Soam participated as member, Consultative Group in the meetings at IP Office, New Delhi on April 25, 2018 and at IP Office, Mumbai on May 17, 2018.

Dr. A. Debnath attended International Workshop on Hypertension and interacted with Prof. Keith Fox of England and Prof. Roberto Ferrari of Italy at Chennai on June 2, 2018.

Dr. P. Krishnan participated in the Inception Meeting with the Senior Officials of DST and TERI at TERI, New Delhi in connection with the joint research project on collecting national S&T data from agricultural research agencies in India on June 6, 2018.

Dr. D. Thammi Raju participated in a Training Need Assessment Workshop to prepare modules and materials for the foundation course to newly elected sarpanches at Telangana State Institute of Rural Development (TSIRD), Rajendranagar, Hyderabad on June 8, 2018.

Dr. Ranjit Kumar participated in First Round Table on 'The Role of Public-Private Partnerships- Agricultural Research, Technology & innovation' at ICRISAT, Patancheru on June 11, 2018.

Dr. Ranjit Kumar was invited as a Lead Speaker in the 2-day Agri-entrepreneurship conclave 'AgriVikas 2018' at Bhubaneswar, Odisha organized during June 29-30, 2018.

Drs. B. Ganesh Kumar, Surya Rathore and P.C. Meena participated in 'AgriVikas 2018' at Bhubaneswar organised during June 29-30, 2018.

Drew DiPrinzio, USIEF- Fulbright Scholar at ICAR-NAARM presented a paper on 'ICT in agriculture in India' in the AgriVikas 2018 Conclave at Bhubaneswar on June 30, 2018.

### Lectures Delivered/Invited as Key Speaker in Scientific Meetings

Faculty	Topic	Event	Venue	Date
Dr. Ch. Srinivasa Rao	Climate Change Mitigation and Adaptation Tools in Agriculture Sector	Training Programme on Climate Change and Management of Water Resources	ESCI, Hyderabad	June 8, 2018
Dr. S. Senthil Vinayagam	Project Appraisal for Planning	Training programme on DPR Preparation and Project Appraisal related to Cooperate Sector	MANAGE, Hyderabad	Apr 11, 2018 & May 30, 2018
Dr. M. Krishnan	Essentials of monitoring and evaluation: Indicators and outcomes monitoring	Training programme on Monitoring & Evaluation of Fisheries Project	MANAGE, Hyderabad	May 9, 2018 & May 21, 2018
	Importance of monitoring and evaluation of fisheries projects			May 14, 2018 & May 21, 2018
	ICT innovations in agricultural educational technology			May 8, 2018
Dr. P. Krishnan	Re-positioning fisheries education in the era of disruptive digital innovations	3rd International Symposium on Aquaculture and Fisheries Education: Fisheries Education for Sustainable Blue Economy	CIFE, Mumbai	May 16, 2018

## Field Workshops & Survey Conducted

Drs. Ranjit Kumar, P.C. Meena and Sanjiv Kumar conducted a workshop for field investigators for studying the adoption of IRM practices by cotton growers and visited farmers' fields in Bhavnagar, Amreli, Junagadh and Surendranagar districts of Gujarat during April 05-13, 2018.

Drs. Sivaramane and Sanjiv Kumar conducted a workshop for field investigators for the above study and conducted a field survey in the districts of Raichur and Gadag in Karnataka during April 24-27, 2018.

Drs. P.C. Meena and Sivaramane conducted a workshop for field investigators for the above study and conducted a field survey in the districts of Yavatmal and Jalna in Maharashtra during May 15-17, 2018.

## Staff News

### Joining

- Shri Danam Murahari was appointed as T-3 Technical Assistant (Audio Visual Operator) w.e.f. June 21, 2018.
- Smt. K. Mariyamma, CLTS was regularized against the post of Skilled Support Staff w.e.f. May 18, 2018.
- Shri Jaiprakash Bisen, Scientist (Agricultural Economics, 107<sup>th</sup> FOCARS joined for three months' professional attachment training on April 16, 2018.

### Promotion

- Dr. N. Sivaramane, Sr. Scientist (Agribusiness & Marketing Management) was promoted under revised CAS to the grade of RGP 9000 w.e.f. March 28, 2015.
- Dr. V.V. Sumanth Kumar, Scientist (Computer Application in Agriculture) was promoted under revised CAS to the grade of RGP 7000 w.e.f. April 16, 2009.
- Smt. T. Vanisri, PA was promoted to the post of Private Secretary w.e.f. June 14, 2018.
- The following staff of the Academy received upgradation under Modified Assurance Progression Scheme (MACP).

3 <sup>rd</sup> MACP	2 <sup>nd</sup> MACP
P. Swamy, LDC (w.e.f. Aug 08, 2015)	K. Pentaiah, SSS (w.e.f. Sep 27, 2015)
N. Sukunamma, SSS (w.e.f. Aug 26, 2017)	P. Yadaiah, SSS (w.e.f. Sep 27, 2015)
M. Yadamma, SSS (w.e.f. Aug 29, 2017)	C. Narsubai, SSS (w.e.f. Jan 01, 2016)

### Retirement/Superannuation

- Shri M. Venkatesh, Personal Assistant retired voluntarily w.e.f. May 05, 2018.
- Shri Zameer Ahmed, T-9 Chief Technical Officer (Manager, Hostel Services) retired on superannuation w.e.f. May 31, 2018.
- Shri S. Sunder Raj, T-5 Technical Officer (Media Operator) retired on superannuation w.e.f. May 31, 2018.
- Shri P. Bal Raj, Skilled Support Staff retired on superannuation w.e.f. May 31, 2018.

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