



IAUA



NEWS

QUARTERLY NEWSLETTER OF INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION

Volume 20 No.3

July-September, 2020

CONTENTS

FOCUS ON UNIVERSITIES EVENTS AND ACHIEVEMENTS

UNIVERSITIES

AAU, Anand
AU, Kota
BASU, Patna
CCSHAU, Hisar
GBPAUT, Pantnagar
JAU, Junagadh
KU, Gandhinagar
KVASU, Kerala
OUAT, Bhubaneswar
PAU, Ludhiana
SVPUAT, Meerut
TNAU, Coimbatore
UAHS, Shivamogga
UAS, Dharwad
VNMKV, Parbhani

AWARDS

AAU, Anand
GBPAUT, Pantnagar
TNAU, Coimbatore
UAS, Dharwad

ADVISORY BOARD

Dr B.S. Dhillon, President
Dr S.K. Patil, Vice-President
Dr R.K. Singh, Secretary-General
Dr M. Premjit Singh, Treasurer
Dr Nazeer Ahmed, Member
Dr K.P. Vishwanatha, Member
Dr Ajoy Kumar Singh, Member

EDITORIAL BOARD

Dr Kirti Singh
Ex-Chairman, ASRB
Dr R. P. Singh
Executive-Secretary, IAUA
Dr C. S. Chakrabarti
Ex-VC, WBIAFS, Kolkata
Dr Ramendra Singh
Ex-Chief Agronomist, FAI
Dr Aruna T. Kumar
Ex-Editor (English), ICAR

Focus on Universities: Events and Achievements

University

ANAND AGRICULTURAL UNIVERSITY, ANAND (GUJARAT)

Bio NPK liquid biofertilizer consortium technology licensing

AAU developed Anubhav Bio NPK Liquid Biofertilizer - an eco-friendly, low input microbial consortium which can help saving 25% NPK chemical fertilizers with 8-10% yield increase while preserving soil fertility in a sustainable way. The technology is



Dignitaries with MoU

in accordance to the motive of Prime Minister, Government of India, Shri Narendra Modi, to reduce fertilizer entering into the soil causing pollution besides supporting Indian economy through *Aatmanirbhar Bharat Abhiyaan*. To assure easy availability of biofertilizers to farming community, an MoU for Bio NPK Liquid Biofertilizers Technology licensing was signed between Dr R. V. Vyas, Director of Research and Dean PG Studies, Anand Agricultural University, Anand, and Mr. Dinesh Patel, Chairman and Managing Director, M/s Narmada Bio-chem Ltd., Ahmedabad in esteemed presence of Minister of Agriculture, Government of Gujarat, Shri R. C. Faldu and Secretary, Department of Agriculture Shri Manish Bhardwaj, at Gandhinagar on 18 August 2020, for the benefit of farmers.

MoU between GEDA, Gandhinagar and AAU, Anand

A Strategic Partnership Agreement was signed between Gujarat Energy Development Agency (GEDA), Gandhinagar and Anand Agricultural University, Anand on developing biogas product from cow dung, agricultural and biological waste as an alternative source of energy and to adopt a new international technology during e-release of Climate Change Compendium and virtual signing of MoUs in august presence of Shri Vijaybhai Rupani, Chief Minister, Gujarat on 17.09.2020.

Agreement between Gujarat Organic Agricultural University, and AAU

A Strategic Partnership Agreement was signed between Gujarat Organic Agricultural University, Halol and Anand Agricultural University, Anand on 28/09/2020 for collaborative activities viz. education (PG), research and faculty exchange in the area of organic farming and its allied sciences

in presence of Shri Manish Bhardwaj (IAS), Secretary (Agri.), Dept of Agriculture, Cooperation and Farmers Welfare, GoG, Gandhinagar.



Dignitaries with MoU

AAU ranked 4th at Atal Ranking

Anand Agricultural University (AAU) has grabbed a spot among top five institutes in the Atal



Certificate of Achievement - 4th Ranked in ARIIA

Ranking of Institutions on Innovation Achievements (ARIIA)-2020. The agricultural university secured the fourth position in the category of Government and Government aided universities in ARIIA-2020. A total of 674 institutes/ universities across the country participated in six different categories for this ranking. The ranking was announced through an e-award ceremony organised by Union Ministry of Education in presence of Vice President of India Shri M Venkaiah Naidu, Union Education Minister Shri Ramesh Pokhriyal, “Nishank” and MoS for Education, Shri Sanjay Dhotre, and other dignitaries.

AAU is the only university from Gujarat and the second agricultural university the country to find a place in top five in the category of Government and Government-aided universities. ARIIA is an initiative through which all major higher educational institutions and universities are ranked based on indicators related to promotion and support of innovation and entrepreneurship development among students and faculties.

THE BACA ALUMNI ASSOCIATION

The BACA Alumni Association, AAU, Anand successfully organized the twelfth Late Dr Diwaker R. Patel memorial lecture on 10.09.2020.



Webinar on the way

The Emeritus Professor Dr P. K. Gupta, Department of Genetics and Plant Breeding, Ch. Charan Singh University, Meerut, U. P. delivered a talk in webinar on “Biotechnological approaches for crop improvement”. Dr Gupta covered recent and advanced approaches of biotechnology particularly for crop improvement. Altogether, approximately 850 participants registered and during the Webinar approximately 1,300 participants used YouTube online platform. Dr R. V. Vyas, Vice-Chancellor, AAU, Anand conveyed his good wishes for the grand success of the function. The Webinar was organized under the guidance of Dr P. R. Vaishnav, Principal and President of the association. Dr K. P. Patel, Ex-President of BACAAA gave introductory remarks. Dr G. B. Patil recalled the memories of Late Dr Diwaker whose gave immense contribution in the field of Biotechnology, Genetics and Plant Breeding.

Webinar on Transboundary Animal Diseases

A national webinar on “Transboundary Animal Diseases (TDAs) and Their Control” was organized on 10 September 2020 by Department of Veterinary Medicine, College of Veterinary Science and Animal Husbandry, AAU, Anand with collaborations Veterinary Internal and Preventive Medicine (VIPM) society and knowledge partner INTAS Animal Health, Ahmedabad.

Dr Devendra Swarup, Former Director, ICAR-CIRG and Former Head, Veterinary Medicine and Centre for Wildlife, ICAR-CIRG, Izatnagar was the chief guest of this Webinar and Dr Vivek Kumar Gupta, Joint Director, Centre for

Animal Disease Research and Diagnosis, ICAR-IVRI, Izatnagar was a speaker in this Webinar.

Dr S.K. Raval (Organising Secretary) welcomed all the delegates of Webinar, executive committee members of VIPM society and all the participants of webinar.

Dr M.N. Brahmbhatt, Dean and Chairman of the webinar delivered his speech with welcome. He also spoke on causes of transboundary animal diseases for public health importance and achievement of Anand Veterinary College. He also congratulated the VIPM society for organization of this webinar.

Dr Vivek Kumar Gupta delivered his lecture on “Transboundary Animal Diseases (TADs) and their Control” in animal populations. He gave excellent information about different TADs like Foot and mouth disease, Rinderpest, Lumpy skin disease, Contagious bovine pleuropneumonia, *Peste des petits ruminants*, Rift valley fever, African swine fever, Classical swine fever and Avian influenza. He also gave information on economic impact of TADs and management of TADs.

Integrated Farming System

A model unit of Integrated Farming System was started at KVK, AAU, Dahod in September, 2020. This model



IIFS model at KVK, Dahod

consists of various units viz. animal husbandry units of dairy, poultry, goaterly and bio-gas; Horticulture units of net house, poly house and fruit orchards; Crop Production units of various composting units, azolla unit, crop cafeteria, solar photovoltaic unit, etc.

KHEDUT SHIBIRS BY ARS, AAU, Sansoli (Kheda)

Seven Khedut Shibirs on “Soil Health Card Awareness” were organized by Agricultural Research Station, AAU, Sansoli (Kheda) in

collaboration with office of District Agriculture Officer, Kheda district panchayat during 21.09.2020 to 30.09.2020. Total, 314 farmers of Mahemdavad taluka of Kheda district were remained present.

During the programme, lectures were delivered on different aspects



A group of farmers in training programme

pertaining to soil Health card (SHC) viz., fertilizer recommendation in various crops and package of practice of various *Rabi* crops, by Dr J K. Patel, Associate Research Scientist; importance and benefits of soil health card in farming delivered by Dr M. B. Zala, Assistant Research Scientist; procedure of taking soil sample delivered by Dr B. N. Thakkar, Assistant Extension Educationist and use of water soluble biofertilizers in various crops delivered by Dr T. R. Patel, Research Associate. In addition to these, video film on soil health card scheme was also shown to the farmers.

Poshan Maah 2020

KVK, AAU, Anand Organized various programmes under *Poshan Maah 2020* as suggested by Ministry of Women and Child



Awareness programme on Poshan Maah

Development, Government of India. Awareness Rally was organized on 14.09.2020 at village Gada, Anand District. On 17.09.2020 awareness programme on Kitchen Gardening to get nutritive vegetables and fruits was organized at farmers' house. Total 80 participants participated including *Anganwadi* women. Taluka Development Officer of Sojitra, Mr Kamlesh Nanda advised to give more emphasis on nutrition of children so that they are not malnourished. Dr G. G. Patel, Senior Scientist and Head, KVK, AAU, Devataj

informed about the kitchen gardening. Competition on nutritious products (recipes) prepared by farm women and *Anganwadi* women was also organized. Seed was distributed for kitchen gardening to all the participants. This programme was organized in collaboration with IFFCO, Anand. On 23.09.2020 an awareness programme on bio-fortified crops and its varieties was organized. Food pyramid was made by *Anganwadi* women at Sojitra on 24.09.2020. Awareness programme on use of locally available nutritive foods under *Poshan Maah* was organized on 28.09.2020 at KVK, Anand. Two programmes (19.09.2020 and 30.09.2020) on importance of kitchen garden and balance diet for pregnant women and children, were also organized in online mode.

Registration of Desi Cotton variety GADC 2 under PPV&FRA

The Desi Cotton variety, viz. Gujarat Anand Desi Cotton 2 (GADC 2) was released by Regional Cotton Research Station,



Cotton variety GADC 2

AAU, Viramgam. The proposal for registration of this variety was accepted by PPV&FRA, New Delhi and its registration number is 4/2019 dtd: 16/09/2020. This variety is a Semi Open Oblong Boll type of *Gossypium herbaceum* with good span length and fibre fineness. This variety gives average yield of 1,640 kg/ha. It is released for *kharif* season under rainfed condition of North- West Agro- Climatic Zone (Wagad area) and Bhal and Coastal Agro- Climatic Zone –VIII region of Gujarat state.

AGRICULTURE UNIVERSITY, KOTA

Package of practices for Zone V of Rajasthan

The university recommended six new varieties (soybean- NRC 127; lentil- Kota Masoor-3; field pea- Kota Matar-1; chickpea- Kota Desi Chana-1, Kota Kabuli Chana-1; and linseed- Kota Barani Alsi-5) for the Zone V of the state.

Crop	Name of variety	Photograph	
Chickpea	Kota Desi Chana-1		
	Kota Kabuli Chana-1		
Field pea	Kota Matar 1		
Lentil	Kota Masoor 3		
Linseed	Kota Barani Alsi 5		

Meeting of Annual Zonal Workshop of KVKs

One day review meeting for preparation Annual Zonal Workshop of



View of the workshop

KVKs was organized on 10 July 2020 at DEE AU, Kota. The Chief Guest of the programme Vice-Chancellor Prof. D.C. Joshi, emphasized on execution of various

extension programmes in an effective way so that the adoption rate of the technologies may result into the entrepreneurship development. During the programme Senior Scientists of all the six KVKs presented the details of activities of their centres.

Webinar on Agricultural Extension and Advisory Services

One day national webinar on "Agricultural Extension and Advisory Services amid Covid-19



View of the webinar

Pandemic" was organised by AU, Kota on 24 July, 2020. In the webinar 450 participants registered from various parts of the country and other countries. Dr Mamta Tiwari, Director (PM&E), Dr M.C. Jain, Dean and Dr Niraj Kumar, Professor shared their experiences.

Climate Resilient Agriculture: Adaptations and Strategies

One day national webinar on "Climate Resilient Agriculture: Adaptations and Strategies for Sustainable Production" was



View of the Webinar

organized by AU, Kota on 11.08.2020 in which 875 participants registered from all over the country. Vice-Chancellor Prof. D. C. Joshi inaugurated the webinar, and emphasized on the importance of climate resilient agriculture and various strategies for sustainable production.

Foundation day of Agricultural University

The VIII- Foundation day of Agricultural University, Kota was celebrated on 14 Sep 2020 under the chairmanship of



Foundation day celebration

Vice-Chancellor Prof. D.C. Joshi. The Chief guest of the ceremony Prof. A.K. Gehlot, Member, Governor advisory board, Rajasthan and former founder Vice-Chancellor of RAJUVAS, Bikaner, congratulated the university for the achievements at national and state level and emphasized on the adoption of the schemes and new dimensions in the field of agriculture such as NAHEP, agriculture trade and marketing, new education policy, resource enhancement and integrated farming system. Key note speaker Prof. N.C. Patel, Former president of Indian Agricultural Universities Association (IAUA) and former Vice-Chancellor of JAU, Junagarh and AAU Anand, Gujarat emphasized specially on the adoption of new techniques of food processing, value addition and post-harvest in agriculture. He also expressed the need to promote skill development in value addition and animal husbandry activities.

Vice-Chancellor and Chairman of the ceremony, Prof. D.C. Joshi advised all the staff and students to work with more dedication. He also emphasized on four basic mantras – courage, caring and sharing, faith in technology and talent, and heart to heart relationship.

Prof. Joshi highlighted the major achievements for the year 2019-20 related to Education, Research and Extension education. He also emphasized on the ranking of AU Kota, which was 23rd at national level during last year, that should be improved. He also expressed the need to work on reaching to all the dimensions starting from seed to market chain. Furthermore Prof. Joshi advised the scientists

to work hard on research projects. During the ceremony four publications namely- Souvenir, AUK Newsletter, University telephone directory and Potato production technology were also released.

BIHAR ANIMAL SCIENCES UNIVERSITY, PATNA

Birth anniversary of Dr Rajendra Prasad celebrated

Third of December is marked as the birth anniversary of the first President of India, Dr Rajendra Prasad. In honor of his magnanimous personality and his contribution to the Indian agricultural sector, this very auspicious day was celebrated as the "Agricultural Education Day" at Bihar Animal Sciences University.

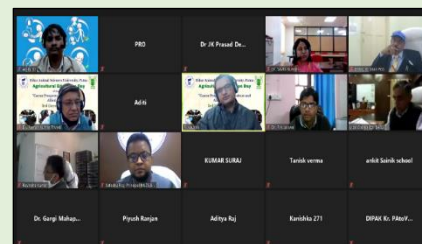
On behest of the Director Student Welfare Dr Raman Kumar Trivedi a webinar was organized for school students focusing on career prospects in agriculture and allied sectors. The chief guest for this programme was Vice-Chancellor Dr Rameshwar Singh, and in attendance were a hundred students from Kendriya Vidyalaya, Bailey Road, Patna Pataliputra Central School, Patna, Mount Litera Zee School, Bhagalpur and Vidya Bharati School, Rajgir. The entire programme was conducted on zoom platform.

The key feature of this seminar was to inform the students about the employment opportunities in agriculture and allied sectors. They were introduced to the various branches of agricultural sciences viz. horticulture, agricultural marketing and processing, agricultural engineering, fisheries, veterinary science, dairy and food technology. A combined effort was made by Dr Purushottam Kaushik, Dr Anjay and Dr Savita who collaborated to explain and explore each sector. Students were informed about the positions they can work on and the salary structures associated with these jobs.

Vice-Chancellor, Dr Rameshwar Singh, instituted the students with the fact that agriculture is the biggest sector of India and

more than 58% of the people are directly dependent on agriculture which encompasses animal husbandry, horticulture, food production, dairy industry, fisheries etc. as food is the primary requirement for all of us and for our animals. He further mentioned that during the post-independence period our country was not self-sufficient in food production. As a nation we faced food shortages. Many policy decisions were taken for self-sufficiency, and today, it is the result of agricultural research that with new research and methodology India has been able to strengthen itself in this field. At present there is no shortage of food and India also exports its produce to the world. He further stressed that there is no shortage of possibilities in this field, one can join this field and contribute immensely.

Their research will benefit the whole world.



View of webinar

This occasion

was also graced by DRI-cum-Dean PGS Dr Veer Singh, Dean Bihar Veterinary College Dr J.K. Prasad, and Director Student Welfare Dr Raman Kumar Trivedi. They too threw light on the possibilities in agriculture and allied sectors.

CHAUDHARY CHARAN SINGH HARYANA AGRICULTURAL UNIVERSITY, HISAR

Two-month programme

The CCS HAU, Hisar announced its two-month Agripreneurship Orientation Programme 'Pahal 2020' and Agribusiness Incubation Programme 'Safal 2020' under the Rashtriya Krishi Vikas Yojana (RKVY). Dr R.K. Jhorar, Principal Investigator, RKVY, stated that "Pahal 2020" was a two-month Agripreneurship Orientation Programme with a stipend of Rs 10,000 per month and it was a unique opportunity for

students/farmers and stakeholders aspiring to convert their innovative idea into a product/prototype in agriculture and allied sector.

Vice-Chancellor planted sapling

CCS HAU

Vice-

Chancellor

Prof. Samar

Singh planted

the sapling on

17 Sep, 2020

to

commemorate

the birthday of Prime Minister Narendra Modi. Plantation was done in the premises of the University's Regional Research Center, Uchani (Karnal). On this occasion, Prof. Samar Singh said that every person after planting saplings on his birthday should take a pledge to take its care also so that environmental pollution can be reduced. It should be the social responsibility of every person that during his life time, he should plant more and more trees and take care of them.



**Prof. Samar Singh VC and others
planting saplings**

Top Agricultural University

CCS HAU,

Hisar has

topped among

agricultural

universities in

the country in

Atal Ranking of

Institutions

of Agriculture University main gate



Innovation Achievements. Vice-Chancellor

Prof. Samar Singh stated that it was a big boost

to the University. Dr Seema Rani, Nodal Officer,

said the CCS HAU got the ranking based on six

main parameters. "The CCS HAU had

contributed significantly to the Green

Revolution and White Revolution during the

1960s and 1970s," she said.

Fruit borer machine got patent

Scientists of CCS HAU, Hisar have named the achievement on the one hand. The fruit borer machine, invented in the year 2009 by university scientists, has now got a patent from the Patent Office of the Indian Government. Dr R.K. Jhorar, Dean, College of Agricultural Engineering and Technology said that the machine was invented under the leadership of Prof. Mukesh Garg and student Dinesh Malik of the Department of Processing and Food Engineering of the college. He said that a patent was applied for this machine in the year 2009, for which it has now got a certificate from the Government of India. Research Director Dr S.K. Sahrawat said that Aonla is a very nutritious fruit with high vitamin C. It contains protein and many mineral mixtures such as calcium, phosphorus and iron ore. Before making gooseberry jam, it is very important to make holes in it. The machine, which has been patented, invented by university scientists, has the ability to pierce fruits up to 80 kg per hour. This machine has received a patent for a period of twenty years.

The Vice-Chancellor, Prof. Samar Singh congratulated the scientists for granting a patent to this invention by the Government of India. He said that it is a matter of great pride for the University. He has appealed to the University Scientists to continue to strive in the future in the same way so that the name of the University continues to be illuminated.

Diploma in Agrochemicals and Fertilisers

CCS HAU, Hisar will soon introduce a one-year diploma in Agrochemicals and Fertilisers for the first time. A total of 30 seats had been earmarked for this one-year diploma at each execution centre i.e. College of Agriculture Hisar, College of Agriculture, Kaul (Kaithal) and College of Agriculture, Bawal (Rewari), out of which 20 per cent will be reserved for candidates belonging to Scheduled Caste, 27 per cent for Backward Caste and 10 per cent for Economically Weaker Sections. He said that

the eligibility criteria for the candidate is Class XII pass from any stream and the age should be between 18 and 55 years. The diploma is of two-semesters and the admission will be done on the basis of marks obtained in Class XII and experience in the relevant field in the ratio of 80:20. The experience in the relevant field should be a minimum of six months and maximum two years.

Sol grant approved for start-up of ABIC Center

An amount of Rs 1 crore 2 lakh was sanctioned by the Department of Agriculture and Farmers



Welfare, Government of India, for Agri Startups of Agri Business Incubation Center (ABIC) at CCS HAU, Hisar. Giving this information, the Vice-Chancellor of the University, Prof. Samar Singh said that this center was established in the University with the help of NABARD and National Agricultural Development Plan-Gati last year. This center is the first center in North India whose main objective is to promote new startups in agriculture and allied sector. This incubation center has so far identified more than 40 agricultural startups, and is helping them grow their business. He informed that an amount of Rs 1 crore 2 lakh, sanctioned for 11 startups of ABIC Center, will soon be allocated to the startups according to the terms and conditions.

Student Simran, became a flying officer

Ms Simran, B.Sc. (Hons) Agri. student, CCS HAU, Hisar has been selected as a flying officer in the Indian Air Force. Simran graduated in May 2020, and also



Prof. Samar Singh with Simran

had completed her schooling at Campus School, Hisar. Simran on her experience in the university said, "I really feel blessed to be a part of this university where I have been helped in the development of my personality and I have established myself in various fields like sports, mountaineering and especially NCC. My inclination towards the Indian Air Force started when I joined the NCC Air Wing."

CCS HAU Vice-Chancellor Prof. Samar Singh congratulated Simran on this achievement and called upon other students of the University to adopt hard work and discipline-based lifestyle in their lives. He said that the greatest achievement can be achieved by following high life values.

Disease Resistant Variety of Mungbean

Agricultural scientists of CCS HAU have developed a new disease resistant variety of mungbean MH



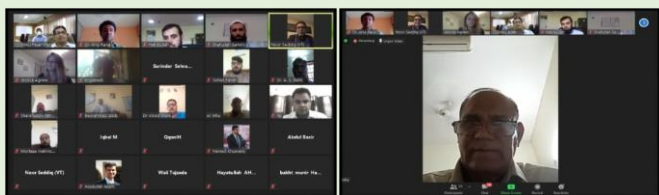
Prof. Samar Singh, with scientists

1142. This moongbean variety was developed by pulses section of Department of Genetics and Plant Breeding. The variety developed by the University was notified and released by the 'Crop Standards, Notification and Approval Central Sub-Committee' of the Department of Agriculture and Cooperation, Ministry of Agriculture and Farmers Welfare, Government of India, in the 84th meeting held in New Delhi, chaired by Dr T.R. Sharma, DDG (Crop Science), ICAR. Dr S. K. Sehrawat, Director of Research said that the MH 1142 variety of moongbean, which is sown during *kharif*, was approved for cultivation in the plains of North-West and North-East of India. These regions include the states of Uttar Pradesh, Punjab, Haryana, Delhi, Rajasthan, Uttarakhand, Bihar, Jharkhand, West Bengal and Assam. The special feature of this variety is that it is resistant to fungal diseases. Apart from this, the effect of white fly and thrips such as rasam

suckers and other pod borer pests, will also be much less in this variety of moongbean than that of the earlier varieties. CCS HAU Vice-Chancellor Prof. Samar Singh congratulated all the scientists for this achievement.

Technology to manage pests and disease

CCS HAU Vice-Chancellor Prof. Samar Singh while addressing the participants through online on the event of International training on Indo-US-Afghanistan integrated pest and disease management, called upon the



Participants on the event of International Training

scientists to develop modern techniques for the proper management of harmful pests and diseases that can harm various crops. He also told that they should work in the field of research keeping in mind the interests of the farmers so that farmers can be benefited as much as possible. The training was conducted under the Catalyzing Afghan Agriculture Innovation Project in collaboration with the United States Agency for International Development. Dr S.K. Sehrawat, Director of Research said that in this training, 35 participants including Noor Siddakki, Jessica Agnew and Dr Muni Muniyappan from the University of Virginia Tech, USA, and scientists from Afghanistan and India participated online.

Varieties for farmers of state and country

Agricultural scientists should develop new varieties of crops keeping in mind the geographical conditions of not only the entire state but the whole of India. This will also increase the crop yield and income of the farmers. At the same time, farmers will be satisfied, for which the state government is already trying. The said idea was laid by Agriculture, Farmers Welfare and Animal

Husbandry Minister, Government of Haryana, Shri J.P. Dalal. He was addressing at the inauguration of the newly constructed gate at Regional Research Station, Uchani (Karnal) of CCS HAU. The gate has been constructed on the Karnal-Delhi highway. The program was presided over by the Vice-Chancellor of the University, Prof. Samar Singh, while the MLA of Indri, Shri Ram Kumar Kashyap was the special guest. After the inauguration of the gate, the Chief Guest also planted a



Shri J.P. Dalal, and, Prof. Samar Singh, with dignitaries on the Inauguration of RRS Gate

tree in front of the gate and gave a message of safe environment. He called upon the scientists to develop the same technology for the South Haryana region of the state as the farmers of Karnal and its surrounding area are getting better production through the varieties developed from here, so that the farmers of that area also get good yield.

Students District Horticulture Officers

Twenty-three students of CCS HAU, together have been selected to the post of District



Students met Prof. Samar Singh

Horticulture

Officer (DHO). This is a huge achievement for the university. On this achievement of the students, the Vice-Chancellor of the University, Prof. Samar Singh, congratulated them and wished them a bright future. He said that it is a matter of great pride for the university that simultaneously so many students have been selected for the post of Gazetted Officer.

Copyright for online statistics analysis module

University scientists received the Copyright for modules of online statistical



Scientists who prepared the module

analysis. Dr Rajbir Singh, Dean, College of Basic Sciences and Humanities told that Prof. O. P. Sheoran, Dr. Manju Singh Tonk, Dr. Ramnivas, Dr. Manoj Goyal and Dr. Hemant Punia of Department of Mathematics and Statistics prepared these modules. Prof. O.P. Sheoran stated that these modules are based on the client server architecture method using the Active Server Pages (ASP) language. Through these modules, the researcher would be able to find out the effective amount of a chemical in entomology, chemical science, and crop science. Also, it would be helpful to convert a set of very large data sets (without damaging important information) into smaller data sets. University Vice-Chancellor Prof. Samar Singh congratulated the entire team who prepared the module. He said that university scientists are also proud that they are constantly striving to do something better and the name of the university is getting good name by this.

Agricultural Diversification to Improve the Economic Condition

Diversification in agriculture is necessary to improve the economic condition of the Annadata (farmer) of the country. When



Shri J.P. Dalal, Prof. Samar Singh, and others on online webinar

the farmer of the country is happy, self-reliant and prosperous, then only the country will move on the path of progress. This was stated by the Agriculture and Farmers Welfare

Minister Shri J.P. Dalal. He was addressing the online webinar organized by CCS HAU on diversification and new technologies in agriculture. The webinar was organized by the Department of Forestry of the College of Agriculture, with the theme 'Diversity in Agriculture: Innovative Program to Improve Livelihood of Farmers'. The coordinator of the program, Dr Virendra Dalal informed that 1,517 farmers and agricultural scientists registered in the program.

First batch of Afghan Students Completed their Degree

The First batch of Afghan students studying at CCS HAU, Hisar has completed their Masters' Programme.

On completion of the master's degree, University Vice-Chancellor Prof. Samar Singh congratulated the students and wished them a bright future. He called upon the students to use the knowledge acquired from the university during their degree, more and more for the good of the farmers in their country and also share their experiences with the students of their country. Dr Asha Quatra, Dean PGS of the university and controlling officer of the Grain Project, said that this project started in 2018 at Chaudhary Charan Singh Haryana Agricultural University, Hisar in collaboration with Michigan State University of America. A total of 14 Afghan students have been registered in the postgraduate and PhD programs so far. She said that the scholarships and funding etc. of the students of this batch have been arranged under the Catalyzing Afghan Agriculture Innovation Project with the financial support of United State Agency for International Development.



Some Afghan students with Prof Samar Singh, VC, Dean PGS, and Coordinator (international)

Statistics New Methods and Techniques



Prof. Samar Singh, addressing the participants

Prof. Samar Singh, Vice-Chancellor, CCS HAU, Hisar said, “Statistics is not just limited to data collection but is an influential science of new methods and techniques which is being used effectively in our social, economic and political fields to make systematic conclusions.” . He was addressing the participants online at the conclusion of a 21-day online refresher course on the subject 'Statistical Tools and Techniques for Analysis of Agricultural Data' at the university. He said that statistics can play an important role in collecting information about research subjects of the university. The refresher course was organized under the joint aegis of the Human Resources Directorate and the Department of Mathematics and Statistics. Director of Human Resource Management, Dr M.S. Sidhpuria called upon the participants to make the most of this refresher course. He said that 165 scientists and researchers from more than 18 regions of the country have taken training in this refresher course.

Virtual Farmer Fair on 'Crop Residue Management'

A two-day Virtual *Kisan Mela* was organized by CCS HAU on October 13 and 14, 2020. The main theme of the *mela* was 'Crop Residue Management'. This decision was taken as per direction of the Worthy Vice-Chancellor CCS HAU, Prof Samar Singh. According to the Director of Extension Education, the Virtual *Kisan Mela* is being organized for the first time due to the corona epidemic will be the different form of the fair to be physically organized.

CHANDRA SHEKHAR AZAD UNIVERSITY OF AGRICULTURE and TECHNOLOGY, KANPUR

Agricultural Technology Extension

The University organized agricultural technology extension programme on “Atmanirbhar



Dr D. R. Singh inaugurating

Gaun, Swavlambi Kheti, Swarojgar Srajan aur Poshan Suraksha” theme from 03-17 October 2020. In the programme 579 farmers, 28 FPO and 11 Input Dealers participated. The programme was inaugurated by Vice Chancellor Dr D.R. Singh on 03 October 2020. Dr D.R. Singh, Dean Agriculture, Dr H.G. Prakash, Director Research, Dr R.A. Yadav, Director, Seed and Farm and Dr Dhoom Singh, Director Extension were also present on this occasion. While addressing as the chief guest Vice Chancellor said that the farmers should come forward to adopt recent technologies to have good quality produce. He also suggested the farmers to form FPO so as to avail the government facilities and obtain better market prices. In this programme, 30-40 farmers participated every day from Kannauj, Kanpur Nagar, Mainpuri, Etawah, Kanpur Dehat, Firozabad, Faurrukhabad, Raebareli, Fatehpur, Hardoi and Unnao districts under university jurisdiction area, 600 farmers were trained on Vegetables Production including potato; Food Grain Production Technology; Natural Resource Conservation and Crop Production; Doubling Farmer’s Income; Women SHO; Soil and Water Management; Organic and Natural Farming; Seed Production and Agri-entrepreneurship development; Oil Seed Production; Crop Production in Usar Soil and Animal Husbandry and Dairying etc.

The University provided small packets of seeds of new varieties of *rabi* crops to farmers at ATIC. For kitchen gardening, minikits of different

vegetable crops are also managed at ATIC for farmers and farm women. Visit of Labs, Research Farms, Dairy and Museum were arranged for interested farmers.

Every day after concluding the programme evaluation and impact studies compiled by scientists, which was very effective because the participants gave their views on the programme as per districts agriculture ecological situations and as per their needs.

G.B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR

Faculty members of College of Home Science trained

Training on Microsoft Team was organized for the faculty members of College of Home Science on 1 July



A view of training on Microsoft Team at College of Home Science.

2020. The training was provided by Dr S.K. Kashyap, Principal Investigator, IDP-NAHEP. Project staff of NAHEP imparted detailed training on ways and means of joining as well as organizing Microsoft meetings, imparting online lectures, providing assignments, conducting examination, evaluating exam papers, taking students attendance in classes, helping students in joining meetings with subject matter specialists etc.

University granted with AMS by ICAR under NAHEP component-2

The university has been granted with Academic Management System (AMS) by ICAR under NAHEP component 2. IDP NAHEP Pantnagar team and several other faculty members attended the online joint sensitisation AMS implementation workshop and understood the working and functionalities of AMS to facilitate

revisions and implementation conducted by IASRI, New Delhi on 4 August 2020.

Indo-European Chamber team visited

A three-member team of the Indo-European Chamber of Small and Medium Enterprises (IECSME) visited the various research centers of the University on 26 August 2020. The purpose of the visit was to strengthen the relationship with IECSME and the University to ensure the participation of PhD scholars in various research projects. In a meeting with the Vice Chancellor, Dr Tej Pratap, the team members described their visit as successful.

Entrepreneurship development programme in virtual mode

A 21-day Entrepreneurship development programme

was organized from 14 September 2020 especially for Scheduled Caste students with the



Vice-Chancellor, Dr Tej Pratap addressing participants.

financial support of Pantnagar University's Directorate of Placement and Counselling and Indian Council of Agricultural Research (ICAR), which was inaugurated by Vice-Chancellor, Dr Tej Partap. On this occasion, Director, B.K. Capital Advisor, Mr Bishan Kumar, told the students about the ethics, values and goals of the business as well as the proper legal structure for starting a start-up. In this program Mr Pankaj Navani, Computer Engineer of District Pauri and Mr Aneesh Shah, an agricultural entrepreneur, benefited everyone with their experiences.

Golden Jubilee Year Celebration Series

- Department of Clothing and Textiles, College of Home Science organized National Webinar on 'The Future is Handmade: Going Vocal for Local with Indian Crafts' on 19 September 2020, which was attended by nearly 100 participants from Rajasthan,

Gujarat, Kerala and Uttar Pradesh. Ms Himani Thapa, Textile Designer and Craft Expert, alumni of College of Home Science, Pantvarsity was the resource person of the seminar. She expressed that Uttarakhand had a treasure of local art and craft which needs to be relished, preserved and recognized globally. Dr Alka Goel, Dean College of Home Science remarked that there are ample opportunities in the craft sector and as an academican, researcher, textile expert we all should work towards its promotion by utilizing present day technology for innovative and sustainable products.

- Department of Foods and Nutrition, College of Home Science along with Delhi Diabetic Forum organized national webinar on 'Diabetes Mellitus: Current Perspective and Management' on 22 September 2020 under the aegis of Prime Minister's overreaching scheme for holistic nutrition 'Poshan Abhiyan'. Dr Anupam Prakash, President, Delhi Diabetic Forum and Professor of Medicine, Lady Harding Medical College, New Delhi; Dr Pikki Saxena, Professor, Deptt. of Obstetric and Gynocolgy, Lady Harding Medical College, New Delhi; Dr Ashok Kumar, Head, Deptt. of Medicine, Santosh Medical College, Ghaziabad; Dr Rajiv Gupta, Former President, Delhi Diabetic Forum and Dr S.P. Kalara, Former President, Delhi Diabetic Forum; Dr Alka Goel, Dean Home Science; Dr Sarita Srivastava, Head, Department of Foods and Nutrition and Dr Pratima Awasthi, Professor, Department of Foods and Nutrition, College of Home Science expressed their views and information on diabetes- its causes, symptoms and its management through modification in diet, daily routine, exercise and life style.

Webinar on acute malnutrition in children

Director, Extension Education organized webinar on 18 September 2020 under the

National Nutrition Month (September 2020). This webinar aimed at nutrition and dissemination experts, Anganwadi and volunteers of Uttarakhand, the workers of the institutions were to provide a platform to discuss the national problem of acute malnutrition in children and to solve it.

In this programme, the Chief Guest, Dr Rita Singh Raghuvanshi, gave detailed information on severe acute malnutrition found in children and also explained the importance of local food items. Director, Extension Education, Dr Anil Kumar Sharma, told that we should also look at the harmful substances found in food and he also told about the balanced nutrition plate. About 80 participants participated in this event. Questions of the participants were also answered by the scientists at the end of the program.

Prospective technologies given to farmers

Website for the sale of seeds inaugurated

The website was inaugurated on 25 September 2020 on the virtual mode (online) by the Vice-Chancellor,



Vice-Chancellor, Dr. Tej Partap, inaugurating of sale of seeds

Dr Tej Partap, for the sale of seeds under the 108th All India Farmers' Fair organized by the university. Dr Tej Partap said that farmers can purchase more than 200 agricultural products by registering online for purchase of advanced seeds, plants and other products. Dr Tej Partap asked all the incharge of KVK's to provide information and training to the farmers regarding operation of the website for sale of seeds and other products. Vice-Chancellor, Dr Tej Partap inaugurated the website by sending SMS to farmers through website of Director Extension Education and established the virtual link with KVKs.

Prophylactic measures for locust attack

Entomologists of Pantvarsity have suggested prophylactic measures to farmers in the event of locust attack on their fields. The chairman of Locust Monitoring Committee, constituted in the Pantvarsity, has warned the farmers of all districts of Uttarakhand and the officers and staff of Agriculture Department of Uttarakhand of the likely attack of locust swarm keeping in view its attack in nearby state of Uttar Pradesh. He suggested to make high velocity sound and create smoke to stop the locusts swarm from getting down to the field to save devastation of the crop. He also suggested various chemical measures to kill the locust swarm at its place.

JUNAGADH UNIVERSITY, (GUJARAT)

AGRICULTURAL JUNAGADH

Diploma Certificate Award Distribution programme

Junagadh Agricultural University organized the 9th Diploma Certificate Distribution programme on

10 August 2020, through online mode in august presence of Shri R. C. Faldu, Minister of Agriculture, Rural



Dr. V. P. Chovatia



Shri R. C. Faldu

Development, and Transport, Government of Gujarat as Guest of Honour and under the chairmanship of Dr V P Chovatia, Vice Chancellor of JAU. A total of 140 students of various polytechnics were awarded their diploma certificates including 27 students of Polytechnic in Agriculture, 26 students of Polytechnic of Horticulture, 14 students of Polytechnic in Agro-processing, 22 of the polytechnic in Agri. Engineering, 24 of Polytechnic in Animal Husbandry and 27

students of Polytechnic in Home Science were awarded their diploma certificate. On this occasion, Shri R. C. Faldu, Minister of Agriculture, Rural Development, and Transport, Government of Gujarat appreciated achievements of the students and asked them to use their broad knowledge of agriculture for the benefit of farmers of Gujarat state and contribute in the development of the state and country especially in the COVID-19 pandemic situation. He also advised the diploma holders to apply knowledge into action and bring more accuracy and perfection in a given task which ultimately brings joy and happiness in Indian farming community. Dr V. P. Chovatia, Vice Chancellor of JAU highlighted the achievements made by Junagadh Agricultural University, Junagadh during the year and also congratulated the students.

Training on Emerging Dimensions in Agribusiness Development and Trade

Junagadh Agricultural University, Junagadh organized an Entrepreneurship Development Training Programme on

“Emerging Dimensions in



Dr V. P. Chovatia addressing

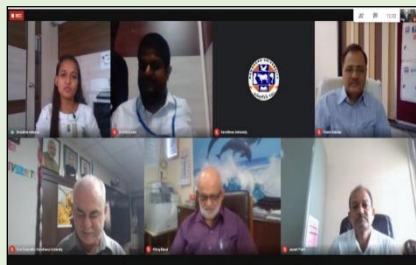
Agribusiness Development and Trade” during 28 September to 02 October 2020 under IDP. Altogether, twelve technical sessions were conducted with eminent experts from across the country benefitting 100 selected undergraduate students of the University besides 180 participants from other SAUs. Some of the key topics included in the training were; blockchain technology, New Farm Bill 2020, zero budget agro-marketing techniques, commodity trading, NABARD based start-up support system and recession free export strategies. The valedictory session of the programme was organized on 2 October 2020. The session was presided by Dr V. P. Chovatia, Vice-Chancellor of the University and recorded his congratulations for the 51st event organized

by the College under IDP. Besides, Dr P. Ramasundaram, National Coordinator, NAHEP-IDP, ICAR, New Delhi; Mr Satish Salivati, Co-Founder and CEO, IntelliTix Solutions Pvt. Ltd., and Blockchain practitioner, Chennai; and Mr Jatin Kataria, Founder & CEO, We Shape Up, Screening Committee Member, Start-up India, Rajkot served as Guest of Honors and delivered their valuable addresses.

KAMDHENU UNIVERSITY, GUJARAT

Celebration of National Fish Farmers Day at Kamdhenu University, Gandhinagar, Gujarat

Every year, India celebrates 10 July as the "National Fish Farmers' Day" to honor fishermen,



VC and Participants

aquapreneurs and fishermen in appreciation of their achievements in the field and their contribution to the growth of the country's fisheries sector. It was 63rd National Fish Farmer's Day this year and Directorate of Extension Education; Kamdhenu University hosted a webinar on "Expanding Horizons of Fisheries Sector" through Google Meet platform as a part of celebration of National Fish Farmers Day on 10 July 2020. Dr N. H. Kelawala, Vice-Chancellor, Kamdhenu University, Dr P. H. Vataliya, Director of Extension Education, Kamdhenu University and Dr A. Y. Desai, Principal and Dean, College of Fisheries, Junagadh Agricultural University graced the occasion.

Interacting with fishermen, officials, scientists, entrepreneurs at various locations across the state, Vice- Chancellor, Kamdhenu University, Dr N. H. Kelawala, assured continued hand holding to the farming community for

sustainable development of fisheries, animal husbandry and dairy sectors of the state, through innovative technological interventions. Congratulating the fish farmers on the occasion, Dr P. H. Vataliya addressed farmers and apprised them of innovative interventions for sustainable development of aquaculture sector and role of academia – farmer linkages in technology transfer and capacity building. Dr A. Y. Desai said that providing 'Quality Seed' of fish is very important in enhancing production and productivity in the country. He also discussed about Blue Revolution.

Dr Smit Lende and Dr Vivek Shrivastav, Assistant Professor, Kamdhenu University delivered an expert talk on "Aquaponics" and "Modern Techniques in Fish Farming" respectively, followed by interactions. The webinar is also available on Kamdhenu University Facebook page.

KERALA VETERINARY AND ANIMAL SCIENCES UNIVERSITY, POOKODE, LAKKIDI (P.O.), WAYANAD

Multiple Facilities Inaugurated

Adv. K Raju, Minister of Forests, Wild Life, Animal Husbandry and Zoos, Kerala, inaugurated multiple



Inauguration of Farm Advisory Centre

programmes at KVASU, Mannuthy campus on 24 February 2020.

- Hostel building of College of Dairy Science and Technology, Kolahalamedu
- Multi facilitation centre for the benefit of farmers, scientists, students and entrepreneurs in conducting interaction and trainings with residential facility.

- Farm Advisory Centre at the Directorate of Farms for the advice to the farmers within the state and outside the issues.
- Centre for rehabilitation of Stray Puppies under END (Early Neutering in Dogs) for providing training to the



Inauguration of hostel building at CDST, Kolahalamedu

- veterinarians, animal welfare organizations and creation of awareness among public regarding the handling of dog population in a humane manner.
- Release of Meat and Egg products of Centre for Excellence in Meat Science and Technology of KVASU.
- Release of Complete feed block developed by department of Animal Nutrition - a readymade balanced mixture for cattle especially in lean seasons during natural calamities.
- Distribution of cattle and goat as livelihood support to victims of flood and its disasters



Livelihood support to flood victims

Minister inaugurated the Academic Staff College building, Human Resource Development Centre –Meat Technology Unit and Vaccine technology Transfer by KVASU on 18 September 2020.

ICAR- NAHEP Innovation Grant Sanctioned

The Innovation grant of ICAR National Agricultural Higher Education Project (NAHEP) has been sanctioned to College of Avian Sciences and Management of KVASU for developing various infrastructure facilities for the advancement of knowledge and skills of the faculty and students to improve their potential

and to ensure better service to the society. The project also envisages setting up of research laboratories in disease diagnosis, feed analysis and meat products quality control. Minister Adv. K. Raju inaugurated the project in presence of Vice-Chancellor, Dr M.R. Saseendranath, and Dean Dr G. Girish Varma, College of Avian Sciences and Management, Thiruvazhamkunnu on 28 July 2020.

New Vaccine for Riemerellosis Released

Inactivated vaccine against riemerellosis developed by Department of Veterinary Microbiology, College of Veterinary and Animal Sciences, Mannuthy under the leadership of Dr Priya P.M, Associate Professor was released by Minister K. Raju on 18/09/2020.

Riemerellosis, earlier known as new duck disease was reported from Wayanad district of Kerala in 2008, from different parts of the state thereafter. The infected ducks show clinical signs of huddling, squatted down, incoordination of neck, paralysis and death. Post mortem examination reveals mainly pericarditis, perihepatitis and air sacculitis. Due to the similarity of organism and its illness, most often, riemerellosis is misdiagnosed as pasteurellosis, a well-known bacterial disease of ducks against which routine vaccination is practised in the state. The causative agent, *Riemerella anatipestifer* was isolated and after extensive research works and series of trials carried out since 2010, inactivated vaccine against riemerellosis was developed with the financial aid of State plan funded projects during 2015- 16 and 2016-17. The vaccine technology developed at KVASU will be transferred to IAH&VB, Palode, Thiruvananthapuram of Department of Animal Husbandry, Kerala for benefit of the farming community.

Open-Thorax Surgery by Teleguidance



Dr Sooryadas teleguiding the surgery

A milestone achievement during the COVID-19 lockdown period, the team of surgeons from KVASU's College of Veterinary and Animal Sciences Pookode, successfully guided an open-thorax surgery which lasted for five hours, on an eight-week-old Miniature Pinscher puppy in Malaysia, with the help of live streaming tele-guidance. The puppy, 'Max', weighing mere 800 g presented on 28 April 2020 to Windsor Animal Hospital in Penang, Malaysia, with regurgitation was diagnosed with vascular ring anomaly. The surgical procedure was performed with the team of surgeons in Malaysia under tele-guidance of surgeons at KVASU.

Meat Technology Unit Released

The Centre for Excellence in Meat Science and Technology of KVASU released pristine meat products on 25 October 2019. Adv. K. Raju, Minister for Forests, Wildlife Protection, Animal Husbandry, Dairy Development, Milk- Co-operatives and Zoos visited the Centre and released new ready to eat products Egg bhurji, Breakfast Omelet and Beef Omelet, during the occasion.



Minister interacting with students

Collaborative project with DTRA, USA

A collaborative project on avian respiratory viruses funded by the Defense Threat Reduction Agency (DTRA), USA, is being implemented in KVASU. The University of Minnesota, USA is the lead centre and Pennsylvania State University, USA; Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS), Hisar and Orissa University of Agriculture and Technology (OUAT),

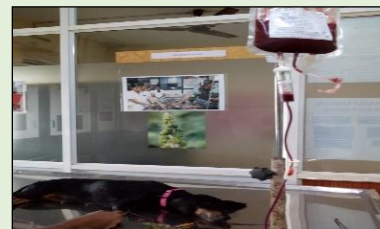


DRDA team with Vice Chancellor Dr M. R. Saseendranath

Bhubaneswar; along with Kerala Veterinary and Animal Sciences University are the collaborating centres. The team members had discussions with Dr M.R. Saseendranath, Vice Chancellor, KVASU and officers of the University. The project led by Dr Chintu Ravishankar, is continuing with collection of samples from migratory and resident waterfowl in several districts of Kerala assisted by Forest Department, Kerala and Bombay Natural History Society (BNHS). The project aims to detect the presence of Newcastle disease virus, avian influenza and other respiratory viruses in commercial, backyard and migratory waterfowl.

Blood Transfusion Facility Established

The Department of Clinical Medicine, College of Veterinary and Animal Sciences, Mannuthy, established a fully functional blood transfusion facility for animals.



Blood transfusion facility

Observatory Established

The meteorological observatory in collaboration with India Meteorological Department (IMD) was established in the year 2019 under CAADECCS,



Meteorological observatory

KVASU for recording the weather variables. It is first of its kind among the state Veterinary Universities of the country. Data on primary weather variables became necessary in meteorology and its implications in the field of agriculture including animal agriculture. This observatory will function as a nodal observatory for the KVASU, and the data collected will be useful for various academic, research and extension purposes

Recognition for NCC Cadet

The NCC unit 1(K) R&V Sqn. of College of Veterinary and Animal Sciences, Mannuthy participated in Republic Day Camp 2020 held at New Delhi. Student Cadet, Sgt. Sneha K.S. won bronze medal in hacks competition.



Sgt. Sneha K.S

ORRISHA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, BHUBANESWAR

Celebration of Foundation Day

Orrisha University of Agriculture and Technology (OUAT), Bhubaneswar celebrated its 59th Foundation Day on 24



View of the Celebration

August 2020 at its headquarters in virtual mode. Dr Arun Ku. Sahoo, Minister of Agriculture and Farmers' Empowerment, Fisheries and Animal Resource Development and Higher Education, Govt. of Odisha graced the meeting as the Chief Guest. He impressed upon the scientists to develop suitable technologies for enhancing agricultural production. Prof. Chittaranjan Ray, Director and Professor, Nebraska Water Centre, University of Nebraska-Lincoln, USA addressed through online. The Foundation Day Lecture was offered by Prof. P. Stephen Baenziger, Professor and Chair, Nebraska Wheat Growers, University of Nebraska-Lincoln, USA. He made a presentation on the role of agriculture in addressing food security of the world. Dr P.K. Agrawal, Vice-Chancellor highlighted the steps initiated by the University to enhance the quality of teaching, research and extension

activities. There was felicitation of progressive farmers, agri entrepreneurs, woman scientist, best researcher, best extension scientist, best KVK and best graduates (boy and girl). Various books, newsletter and other publications were released by the guests. The meeting was attended by farmers, scientists and other officials through online mode.

PUNJAB AGRICULTURAL UNIVERSITY, LUDHIANA

Soil-centric Green Revolution: A Paradigm Shift

Webinar on 'Soil- Centric Green Revolution: A Paradigm Shift', sponsored by World Food Prize Laureate and



legendary scientist, Dr Webinar by Dr Rattan Lal, World Food Prize Laureate

Rattan Lal, was organized by the Punjab Agricultural University (PAU), Ludhiana on 19.8.2020. Dr B.S. Dhillon, Vice-Chancellor, Padam Shri Awardee and Chairman of the webinar, gave introductory remarks and urged to take inspiration from the dedication of Dr Rattan Lal. Dr R.C. Aggrwal, DDG Education, was the Chief Guest of the event and he summed it as one of the best webinars ever. Dr Prabhat Kumar, Guest of Honour, shared Dr Lal's insight of change of behaviour among people with regard to soil. Dr O.P. Chaudhary, Head, Department of Soil Science, PAU, coordinated the session and discussed concrete steps taken by the University scientists towards research in soil conservation. More than 270 scientists across the country participated and joined this webinar through zoom app.

Virtual Kisan Mela

The Punjab Agricultural University organised first Virtual *Kisan Mela* on 18 and 19 September 2020 in COVID-19 times. The Chief Minister of Punjab Captain Amarinder Singh inaugurated the *mela*, in which a total of 265,740



Online Panel Discussion on National Educational Policy-2020

farmers and farm women participated. In his address, Captain Amarinder Singh said, “Farmers of Punjab, with their toil and sweat, and men of genius at PAU did their best to make the country food secure. Their outstanding contributions during the last 55 years (since Green Revolution) remain unsurpassed. Mr Sunil Jakhar, President of Punjab Pradesh Congress Committee, remarked, “PAU is a big gift to the farming community.” “Punjabi farmers and research institutes like PAU removed the ‘*kalank*’ (blur) of being dependent on foreign nations for food grains and transformed the country from food-deficit to food-surplus”, he said. Dr Baldev Singh Dhillon, Vice-Chancellor, PAU, Urged the farmers to shun paddy straw burning and adopt straw management practices. Dr Dhillon also advised the farmers to make judicious use of pesticides; adopt subsidiary occupations like mushroom cultivation, beekeeping, poultry and dairy farming, etc. He thanked the farmers and the farm women for their massive participation in the Virtual *Kisan Mela*. Dr Inderjeet Singh, Vice-Chancellor, Guru Angad Dev Veterinary and Animal Sciences University, observed, “Animal husbandry is intensive. Farmers should form farmer-producer organizations to reduce cost of production and get good returns for their produce.” On the second day, three panel discussions were held.

Education and Research was held on 16 September 2020 under the aegis of National Academy of Agricultural Sciences (Ludhiana Chapter). Dr Jai Rup Singh, Founder Vice-Chancellor of Central University of Punjab and former Vice-Chancellor, Guru Nanak Dev University, Amritsar; Dr Arvind Kumar, Vice-Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi; Dr Arun Kumar Grover, Former Vice-Chancellor, Punjab University; and Dr P.S Pandey, ADG (Education Planning and Home Science), ICAR were the expert panel members, and Dr Baldev Singh Dhillon, Padma Shri, Vice-Chancellor, PAU was the Chairman of the Event. Dr (Mrs) G.K. Sangha, Dean Postgraduate Studies, PAU, Ludhiana was the moderator of the discussion. The panel members deliberated on the key features of the National Education Policy 2020 with respect to agricultural education and research mainly concerning multidisciplinary education with flexible, innovative curricula (Academic Bank of Credits, Choice based Credits) and multiple entry and exit points at various stages, digital education and open distance learning internationalization of higher education skill enhancement of graduated along with the regulatory mechanisms of Higher Education.

Technology extended to farmers

Crop Improvement

PBG 8 (desi gram): It is a desi chickpea variety recommended for cultivation in Central and Southern districts of Punjab under both irrigated and rainfed



PBG 8

conditions. Its average yield under irrigated conditions is 8.4 q/acre and under rainfed conditions is 6.7 q/acre. It matures in 158 days and is moderately resistant to *Botrytis* grey mold and *Fusarium* wilt diseases.

→ Online Panel Discussion on National Educational Policy-2020 and Agricultural

PGSH 1707 (gobhi sarson hybrid): It is a Canola quality ('00') gobhi sarson hybrid. It is recommended for general cultivation in Punjab under timely sown irrigated conditions. Its average seed yield is 8.8 q/acre. It matures in 162 days as compared to 156 days of GSC 7.



PGSH1707

LL 1373 (lentil): It is a bold seeded lentil variety recommended for cultivation in Punjab. This variety has large attractive seeds with good culinary properties and is resistant to rust disease. Its average yield is 5.0 q/acre.



LL 1373

OL 13 (oats): It is a single-cut variety of fodder oats. Its plants are tall, having long and broad leaves with more leafiness and tillering ability. Its average green fodder yield is 305 q/acre and dry fodder yield is 75 q/acre.



OL 13

OL 14 (oats): This is a multi-cut variety of fodder oats. Its plants are tall, having long and broad leaves with more leafiness and tillering ability. Its average green fodder yield is 307 q/acre and dry fodder yield is 65 q/acre.



OL 14

Prospective Technology Given to the Farmers.

- Management of gram caterpillar, *Helicoverpa armigera* with bacterial biopesticide, *Bacillus thuringiensis kurstaki* (Strain DOR Bt-1) @ 800 g/acre in chickpea.
- Foliar spray of PAU homemade neem extract @ 5 litre/ha against aphids on wheat.
- Integrated application of mustard cake @ 1 t/ha + neem cake @ 1t/ha + FYM @ 2.5 t/ha 10 days before sowing of cucumber followed by light irrigation in root knot nematode infested polyhouses was recommended.
- Management of yellow rust of wheat with Custodia 320SC (azoxystrobin 11% + tebuconazole 18.3 %) @ 200 ml /acre was recommended.
- Incubational facilities were provided to Mr. Hardeep Singh, Chief Director from M/s Punjab Organic Veg. & Fruit Producer Co. Ltd., Ghagga (Patiala) for processing of apple into juice and nectar at Food Industry Business Incubation Centre.
- Irrigation through sub-surface drip system in cotton at 80% Etc with 112 kg N/ ha in 10 equal splits at 10 days interval starting from 30-35 days after sowing. Irrigation through sub-surface drip system in wheat at 80% Etc with fertigation of 100% RDF of drip (80% of conventional dose) applied 1/5th of fertilizer at sowing and remaining amount in equal splits of seven days interval starting from crown root initiation.
- Reduce the N dose by 10 kg/acre to wheat, where rice straw alone or both rice and wheat straw have been incorporated, or retained using Happy Seeder before sowing of wheat, continuously for three years.

- Management of jassid in okra with *neem* based formulation Ecotin (*azadirachtin* 5%) @ 80 ml/acre.
- Management of whitefly with PAU Homemade neem extract @ 1,200 ml/acre in brinjal.
- The powdery mildew in mango can be successfully controlled by application of Contaf 5 EC fungicide @ 1.0 per litre during February before flowering, mid-March and end March.

Super Seeder can be used for Sowing of Wheat

Super Seeder is a tractor mounted type machine for direct sowing of wheat in combines harvested paddy fields. It incorporates straw and directly drills the seed.



Tractor on field

Individual Scientist's Contribution

Dr G.S. Dheri, Soil Chemist, Department of Soil Science acquired an international training from 16 March to 13 September 2020 at Carbon Management and Sequestration Centre (C-MASC), Ohio State University, Columbus, USA under the supervision of Dr Rattan Lal, Distinguished University Professor of Soil Science. The objectives of this training programme were to get acquainted with the advance technologies to study soil organic carbon sequestration and greenhouse gas emissions in the agricultural sector. During this training, Dr Dheri evaluated the long-term effects of annual and perennial biofuel crops on soil physical properties, carbon stocks and greenhouse gas emissions.

SARDAR VALLABHBHAI PATEL UNIVERSITY OF AGRICULTURE & TECHNOLOGY, MEERUT

International e-Conference on “Immunology for Improvising One-Health”

Department of Immunology and Defense Mechanism, College of Biotechnology, SVPUAT, Meerut-250110 hosted an International e-Conference of Society of Immunology and Immuno-pathology on “Immunology in 21st Century for Improvising One-Health” during 7-8 August 2020 in collaboration with Department of Animal Husbandry and Dairying (DAHD), Government of India, New Delhi. The conference received generous response from the members of Society as well as from eminent scientists, faculty members, researchers, industry and student community with 754 participations from India, USA, Israel, Japan, Germany, Australia, West Indies, Pakistan, Nepal and Nigeria. Key note speakers, faculty members, researchers and students who attended from different parts of the world made the conference one of the most successful and productive events in 2020. Conference was inaugurated by Chief Guest of the conference, Minister of State, Department of Animal Husbandry and Dairying, Dr Sanjeev Balyan. Dr Praveen Malik, Animal Husbandry Commissioner, Government of India, New Delhi was the Guest of Honour. The session was chaired by Vice-Chancellor, SVPUAT, Meerut, Dr R.K. Mittal. Dr R. S. Chauhan, Former Director ICAR-IVRI, General Secretary, SIIP introduced the theme of the conference to the Chief Guest, Guest of Honour, Chairman of the session and all the participants. During the conference an e-book comprising all lead/invited papers, abstracts of oral and posters was released besides a book “COVID-19- An insight of disease”.

World Rabies Day Celebrated

World Rabies Day was celebrated at V.C.C., COVAS on 28 September 2020 by providing free anti-rabies vaccine to companion animals in collaboration with Canine Rabies control Unit, Meerut.



World Rabies Day 2020 celebration

Published first whole genome draft of *Brucella abortus* 2308 from India



Brucella abortus

The Department of Immunology & Defense Mechanism of SVPUAT, Meerut reported first complete whole genome draft of *Brucella abortus* 2308 from the country. *Brucella abortus* 2308 strain is the most pathogenic strain to cause human brucellosis, and it was isolated from the clinical cases of bovine abortion. The WGS based epitope mapping and analysis revealed more than 30% divergence of clinical 2308 strain from vaccine strain 19 strain. It provides a window to develop antigen antibody-based DIVA for brucellosis and the development of future vaccine against bovine brucellosis in India.

Stone Laying Administrative Building of New KVKs

On 25.09.2020, administrative building of new KVK Hapur was inaugurated, and the foundation stone of the administrative building of



Inauguration of administrative building and laying stone ceremony of new KVKs

new KVKs Sambhal, Bulandshahr and Moradabad was laid by Chief Minister Yogi Adityanathji through video conferencing in the gracious presence of Agriculture Minister of Uttar Pradesh, Additional Chief Secretary of Uttar Pradesh, Dr R.K. Mittal, Vice-Chancellor of the University, BoM members and other concerned MPs, MLAs of Uttar Pradesh.

Celebrating Birthday of Prime Minister

Peepal plants were planted in the University campus,

Dantal farm and KVKs under the jurisdiction

area of University by the Vice-

Chancellor, BOM members and other senior officers of the University.



Participants

TAMIL NADU AGRICULTURAL UNIVERSITY, COIMBATORE

International Webinar on Public Health Epidemiology

Community Science College and Research Institute (CSC&RI), Madurai, a Constituent College of TNAU, organized an International Webinar on Public Health Epidemiology-Strategies for Health and Nutrition



International Webinar View on Epidemiology organized

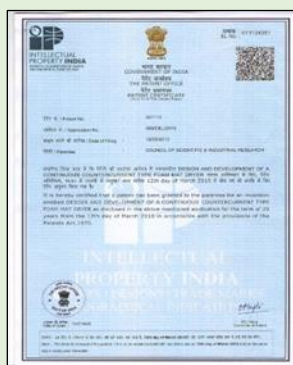
Security on 21.07.2020. Dr N.Kumar, Vice-Chancellor, TNAU, Coimbatore presided over the webinar and delivered the presidential address. The Guest speaker Dr Kalpana Ramiah, Vice-President of Innovation, America's Essential Hospitals addressed the epidemiology of COVID 19 and its impact in different countries and highlighted the coping

mechanisms. Dr Sugasini Dhavamani, Assistant Professor, University of Illinois, Chicago spoke on Neutraceuticals – an immunity booster. Dr B. Selvaraj, Senior Professor (Psychology) Government Arts College, Coimbatore spoke on the Strategies to cope up with psychological disturbances during pandemic situation. More than 400 students, researchers, academicians and scientists from India and other countries participated and benefitted through this webinar.

Patent Obtained in Food Process Engineering

Dr P. Rajkumar, Professor and Head, Department of Food Process Engineering, Agricultural Engineering College and Research Institute, TNAU, Coimbatore, received the Patent on 'Design and Development of Continuous Counter

Current Type Foam Mat Dryer' along with Dr R.Kailappan, Professor (Retd.) for the work of the former Doctoral student Mr S. Ananda Kumar on 10.07.2020. The concept of foam mat drying is to enhance the drying rate of food materials through the addition of food foaming and stabilizing agents. The dried material has the honey comb structure with high rate of rehydration.



Patent in food process

Students' accomplishment in UPSC 2019



Ms S. Bharani



Ms S. Sangeetha



Ms S. Abinaya



Ms. S. Malliga



Mr N. Venkatesa Prabhu

In the recently announced Union Public Service Commission (UPSC) 2019 results, five students of TNAU exhibited their outstanding performance in the examinations. Ms S. Bharani, an alumnus of TNAU passed the UPSC exam 2019 attaining 58th rank. Ms S. Sangeetha, who completed her B.Sc., (Agriculture) at AC&RI, Madurai in 2014 scored the 499th rank. Ms S. Abinaya, secured 559th rank in the UPSC examination, Ms S. Malliga, secured 621st place and Mr. N. Venkatesa Prabhu, an Indian Forest Service (IFS) Probationary officer presently undergoing training at Dehradun cleared in the second attempt with 751st rank. On this momentous occasion, Dr N. Kumar, Vice-Chancellor, the staff and students of TNAU whole heartedly appreciate their hard work and wished a bright and promising career.

Endowment Webinar

A Webinar entitled 'Long-term Experiments for Assessing Soil Carbon Sequestration' was organized by the Department of Soil Science and Agricultural Chemistry (SS&AC), Directorate of Natural Resource Management (DNRM), TNAU, Coimbatore on 14.08.2020 jointly with School of Post Graduate Studies, TNAU, Coimbatore under Endowment webinar series. A thought provoking lecture was presented by Dr Rattan Lal, Director, Carbon Management and Sequestration Center, Ohio State University, Columbus, USA. He is a laureate of the World Food Prize, 2020; Glinka World Soil Prize, 2019; Japan Prize, 2019; U.S.Awasthi IFFCO Award 2019; and GCHERA World Agriculture Prize, 2018.

In his lecture, he narrated the global classical long term experiments and described the soil and nutrient management strategies for enhancing the soil carbon stocks. Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore in his Presidential Address deliberated about the Long term experiments that are in operation at DNRM, TNAU, Coimbatore. Dr M. Velayutham, Former Director of NBSS & LUP, Nagpur and Dr Pradip Dey, Project Coordinator (AICRP-STCR), ICAR-IISS, Bhopal and about 250 participants participated in the webinar through online and offline.

Online Exams for the Final Year Students

TNAU conducted the special examination for final year outgoing students to help them duly earn their degrees for pursuing their career on



Exams conducted for the Final Year students: View

higher studies in time after attending their final semester online exams and evaluation. The examinations were conducted under online supervision by proper monitoring by the professors through proctor mechanism. The final year undergraduate students of TNAU, had the unique experience of writing their final semester exams right at the comforts of their homes under this COVID-19 pandemic period. In accordance with the advisories of Government of Tamil Nadu and Government of India a special online, off campus mode of examinations for the final year students were conducted from 02.09.2020 to 14.09.2020. A total of 2,365 students from 10 undergraduate programmes belonging to 14 constituent and 29 affiliated colleges of TNAU took part in this exam. In this unique digital exam, an examination application named, Exam from Home (EFH), was specially outsourced to facilitate the students write the exam from their

homes using either mobiles or laptops with Android or Microsoft windows platform.

Mass Multiplication of Elite Coconut Varieties through Tissue Culture

To meet the demand for quality coconut seedlings as well as to reduce the number of



Planting Tissue cultured coconut on World Coconut Day

nuts going for seed purposes TNAU made an innovative attempt to mass multiply elite coconut genotypes through tissue culture. This attempt was supported by Tamil Nadu Innovation Initiative of State Planning Commission.

As a first step towards the milestone, TNAU's Centre for Plant Molecular Biology and Biotechnology has optimized *in vitro* culturing of dissected embryo and regenerating them into whole plants. In commemoration with World Coconut Day on 02.09.2020, TNAU brought its tissue culture baby to the field. Dr P. Rethinam, Former Director, IOPR (Indian Institute of Oil Palm Research) and Former ADG, Horticulture, ICAR graced the occasion and planted the first tissue culture derived coconut at TNAU Coconut Garden. Dr N. Kumar, Vice-Chancellor, TNAU opined that, TNAU is channelizing its efforts towards increasing the multiplication ratio to 1:2, 1:4 and 1:8 so as to meet the demands of the Tamil Nadu farmers.

MoU Signed between TNAU and Dalhousie University, Canada



MoU with Dalhousie University, Canada for dual degree programme

TNAU signed an MoU with Dalhousie University, Canada for dual degree programme on 20.08.2020. Dr N. Kumar, Vice-Chancellor, TNAU and Dr Deep Saini, President and Vice-Chancellor, Dalhousie University, Canada signed the agreement in a virtual ceremony. The dual degree will promote Indian students to undergo B.Sc. (Agri.) Plant Science in Dalhousie University on completing three years course at TNAU enabling to get two degrees in a quinquennial year. In addition, an MoU for Joint TNAU- Dalhousie Program (Ph. D) was also signed. The ceremony was held in the presence of Dr Prachi Kaul, Director, Shastri Indo- Canada Institute, New Delhi, Registrar, TNAU, faculty Deans in TNAU and Dalhousie University.

MoU for Education and Advance Research in Renewable Energy



MoU signed virtually between TNAU, and NULES

A Memorandum of Understanding (MoU) was signed virtually between Tamil Nadu Agricultural University (TNAU), Coimbatore and National University of Life and Environmental Sciences (NULES), Ukraine on 18.09.2020. Details about the Partnership background and MoU were presented by Prof. V. Tkachuk, Vice Rector, NULES, Ukraine and Dr B. Shridar, Dean, Agricultural Engineering College and Research Institute, TNAU, Coimbatore. Prof. Stanislav M. Nikolaienko, Rector, NULES and Dr N. Kumar, Vice-Chancellor, TNAU shared their remarks and future aspects regarding the MoU. Presently, joint Indo-Ukraine research project is being carried out at the Department of Renewable Energy Engineering, TNAU, with the objective

of producing maximum energy from various biomass materials. In this project, NULES-Ukraine is involved in electrical pretreatment of biomass. Through this MoU, staff and students from both the universities could be exchanged for education and research activities. Further, the ideas and technologies could be shared with the aim to increase farm productivity and sustainable energy production. On a closing note, Prof. A. Zhylytsov, Head of Department of Electrical Engineering, Electromechanics and Electrotechnology, NULES presented his remarks.

Vice-Chancellor Governors' Conference

attended

Vice-Chancellor attending Conference
Dr N. Kumar, Vice-Chancellor, TNAU, Coimbatore participated in



Vice-Chancellor attending Conference

the Governors' Conference which was addressed by the President and Prime Minister of India through Video Conferencing on the Role of National Education Policy-2020 in Transforming Higher Education scheduled on 07.09.2020. It was graced by the Union Minister for Agriculture and Farmer's Welfare and Minister of State for Agriculture, Ministry of Education (MoE) and Governors of various States.

UNIVERSITY OF AGRICULTURAL AND HORTICULTURAL SCIENCES, SHIVAMOGGA, KARNATAKA

8th Foundation Day

The eighth Foundation Day of the University was celebrated On-line on 21 September 2020 at UAHS Main Campus, Shivamogga. Padmashree, Dr A. S. Kiran Kumar, Former Secretary, Department of Space and Chairman,

ISRO delivered the Foundation Day speech on “India in space with special reference to agriculture”.

During his speech, he highlighted important applications of Space Technology for National programmes of Agriculture Assessment in India i.e. FASAL, CHAMAN, NADAMS, Crop Insurance, Crop Intensification. He also spoke about few important aspects of applications of space research in agriculture viz., SUFALAM, MNCFC's, VEDAS, MOSDAC, BHUVAN services. Dr Bhaskar S., Assistant Director General, ICAR-New-Delhi and Member of Board of Management (BoM) highlighted the utilization of space research in agriculture, conservation of rich biodiversity, development of quality human resource and utilization of unique research opportunities under the University. Dr M. K. Naik, Vice-Chancellor, in his presidential remarks, greeted the efforts of the founders, former Vice-Chancellors, present and previous Board of Management, Officers and faculty members, scientists students, employees and work force for the growth of the University. He also emphasized use of space research in agriculture in particular reference to food security and diversification of crops and changing cropping pattern from food crops to cash crops, depletion of natural resources, reduction in percapita land availability, labour problem and impact of climate change on agriculture. Dr M. Dinesh Kumar, Registrar extended warm welcome to the guests and participants highlighting the profile of UAHS. Dr K. C. Shashidhar, Director of Extension extended vote of thanks. More than 250 Youtube viewers and 50 participants each from 20 different centres participated in this programme.



Eighth foundation day speech by Padmashree, Dr A. S. Kiran Kumar

Management of fall armyworm in maize

State level webinar on Management of fall armyworm in maize was organised by the University in



Webinar on Management of armyworm in maize

collaboration with South Asia Biotechnology Centre, New Delhi on 10-09-2020 for the benefit of the farmers, pesticide dealers, students and faculty members. The programme was inaugurated by Dr C. D. Mayee, Former Chairman, ASRB, New Delhi. The chief guests were Dr Sain Das, Former Director, IIMR, Ludhiana and Dr Bhagirath Choudhary, Director of SABC, New Delhi. Dr M. Hanumanthappa, Director of Research and Dr K. C. Shashidhar, Director of Extension were present in the webinar. The programme was chaired by Dr M. K. Naik, Vice-Chancellor, UAHS, Shivamogga.

Resource persons were Dr C. P. Mallapura, Professor and Head, Department of Agricultural Entomology, UAS, Dharwad, Dr Arunakumar C. Hosmani, Professor, Department of Agricultural Entomology, UAS, Raichur and Dr H. K. Veeranna, Professor of Agronomy, Dr Sharanabasappa Deshmukh and Dr Kalleshwaraswamy C. M., Assistant Professors of Agricultural Entomology, CoA, Shivamogga. Dr Sharanabasappa Deshmukh was the organiser and Dr Kalleshwaraswamy C. M. and Dr Hanumanthaswamy B. C., Senior Scientist and Head, ICAR, KVK, Shivamogga were the co-organizers. Totally 160 members participated in this webinar.

Use of Mobile App for Crop Survey by Farmers

ICAR-Krishi Vigyan Kendra, Shivamogga organized awareness programme on Use of Mobile App for Crop Survey by Farmers on 18-08-2020 at Kommanalu village of Shivamogga taluk in collaboration with the Department of Agriculture. Dr M. K. Naik, Vice-Chancellor

highlighted the importance of use of the Mobile App for crop survey by farmers and mentioned the benefits of uploading the crop photos for crop survey. During the programme farmers were advised to download the Mobile App, which was released by the State Government to record the crop details in their farm. Officers of the UAHS, State Department and staff of KVK, Shivamogga



Awareness on Use of Mobile App for Crop survey

were present. More than 40 farmers participated and got benefitted during the programme.

Product Launching of Microbial Consortium

Product launching of Sahyadri Thrishool, a Microbial Consortium, was held at ICAR, KVK, Brahmavar



Product launching of Sahyadri thrishool, a Microbial Consortium by Dr M. K. Naik

on 11-09-2020. Dr M. K. Naik, Vice-Chancellor launched this product for the benefit of farmers, and opined that India's food production is stable because of the farmers' hard work, coupled with political will, farmers' till and scientific skill. He also highlighted the importance of Sahyadri Thrishool in improving crop and soil health, plant growth and disease suppression.

Dr K. C. Shashidhar, Director of Extension addressed the farmers to make use of Sahyadri Thrishool to improve yield of horticulture crops. Dr S.U. Patil, Associate Director of Extension explained about the role of Sahyadri Thrishool in improving soil health. Dr Lakshman, Associate Director of Research, ZAHRS, Brahmavar, Dr Sudheer Kamath, Principal, Diploma College of

Agriculture, Brahmavar and Smt Bhuvaneshwari, DDH, Udipi, Dr B. Dhananjaya, Mr Chaitanya H. S. and Dr N. E. Naveen were present.

Poshan Abhiyan at KVK, Chitradurga

A programme on Poshan Abhiyan was celebrated at ICAR-KVK, Chitradurga in collaboration with IFFCO on 16 September 2020.



ICAR-KVK, Chitradurga organized Poshan Maah programme

The programme was inaugurated by Dr M. Hanumanthappa, Director of Research along with the other officers. Dr M. Hanumanthappa suggested that take healthy and balanced diet to maintain good health. Dr Narayanaswamy, Dean, CoH, Hiriyur presented about different food habits available at different places depending upon the climatic conditions. Hence, one needs to take the food according to the environmental conditions. Dr K. C. Shashidhar, Director of Extension explained about nutrithali concept. Dr Sharanappa Jangandi, ADR, Hiriyur explained about the balanced diet. Dr S. U. Patil, ADE briefed about the situation before green revolution and after green revolution to till date and suggested the audience to adopt safe agricultural practices and help maintaining community health. Smt Navaneetha, PDO briefed to adopt nutri garden at anganavadi premises and suggested to be part of beneficiaries of government facilities. Mr Laksmeeasha, IFFCO told about the facilities available at IFFCO Company and suggested to avail the benefits. Mr Thimmaiah, CDPO explained to adopt healthy food habits especially for pregnant women and children and also briefed the facilities implemented by state and central governments. Dr Raghavendra, Ayurveda Hospital and Dr Shankar, Ayush Department were the resource persons, and they gave technical information on the advantages and disadvantages of

various food stuffs, which people are using in their daily routines. They suggested to maintain good health by changing the life style and food habits and also gave some health tips to the beneficiaries. Dr Prakash Kerure, Senior Scientist and Head (IC) co-ordinated the programme; 58 Anganavadi workers were present.

Zonal Research and Extension Programme Workshop: Kharif 2020

ZREP

workshop of Kharif 2020 of the University was

organised from 8 to 10



Online Workshop

June 2020 at the Navile campus through Video Conference using ZOOM app. Dr M.K. Naik, the Vice-Chancellor inaugurated the workshop. He emphasised the importance of NARP concept and highlighted the research achievements of the University. Dr M.A. Shankar, Former Director of Research, UAS, Bengaluru and Dr K. G. Parameshwarappa, Former Dean, COH, Mudigere served as resource persons. The New Technical Programme and the Farm Trials for the year 2020-21 were finalized during the workshop. Various development departments of Agriculture, Horticulture and Forestry participated.

During this ZREP meeting, the University released a paddy variety, Sahyadri Kaveri, a white Kernel paddy suitable for midland of Hill Zone; moderately resistant to leaf and neck blast; yield potential of 55 q/ha. A groundnut variety DH-256 was endorsed, which is suitable for central Dry Zone; higher mature Kernel (98%) with 47 - 48 % oil content and tolerant to leaf spot and rust diseases. Besides, 16 technologies were included in the package of practices. Dr H. D. Mohan Kumar, Associate Director of Research (HQ), ZAHRS, Shivamogga co-ordinated the ZREP workshop.

UAHS Tackles the COVID Situation by Creating 'Agri War Room'

Advisories, Transportation and Marketing facilities for farmers through 'Agri War Room'



Agri War Room

During the COVID-19 pandemic, University has started the 'Agri War Room' at our ICAR-KVK, Shivamogga on 23-04-2020 to address the problems of farming community. Consultancies were provided to the farmers over phone by the University scientists. During the lockdown period, transportation facility was provided to the farmers by University for marketing of the fruits and vegetables through FPOs of Shivamogga district. University also provided seeds, seedlings and bio-fertilizers to the farmers to their door steps. Dr M. K. Naik, Vice-Chancellor inaugurated this programme. Key officers of UAHS, Shivamogga were present.

During Lockdown period till June 30, all KVKs, in total, have given 4,887 crop advisory services, attended 288 field visits, created linkage of Marketing channel for vegetables and fruits to the tune of 974 tonnes worth of Rs 43,035,459 and attended 3,131 problems of farmers.

A Smile on the face of Mrs Vasantha Kumari brought by the intervention of ICAR-KVK, Chitradurga and Udupi

Chief Minister of Karnataka Shri B.S. Yadiyurappa informed the Deputy Commissioner of Chitradurga for the purchase of onion grown by farm women, Mrs Vasantha Kumari, Katanayakanahalli Gollarahatti, Hiriyur taluk after watching video sent by the

farm woman during the lock down period. In this regard, Dr S. Onkarappa, Senior Scientist and Head, ICAR-Krishi Vigyan Kendra, Chitradurga along with the scientists of KVK visited the plot and interacted



Purchase of farmers onion by KVK

with Mrs Vasantha Kumari on 28-04-2020. They suggested her for the removal of rotten bulbs and proper sun drying to improve the keeping quality of onion. Immediately after visit, discussions were made with Mr Chaitanya H. S., Senior Scientist and Head (I/C), ICAR-KVK, Udupi for the arrangements for marketing of onion. KVK, Udupi motivated Mr Suresh Nayak, Hiriyadka village of Udupi, and he purchased the whole lot of onion. KVK, Udupi helped in the transportation of the onion from Katanayakanahalli, Hiriyur to Hiriyadka, Udupi. The whole lot of onion of Mrs Vasantha Kumari was sold due to the intervention of KVK, Chitradurga and Udupi, inducing a smile on the face of farm woman.

ICAR-KVK, Udupi facilitated "Ryot Super Bazar" (Farmers Bazar)

During the COVID-19 lockdown period, ICAR-KVK, Udupi assisted the farmers

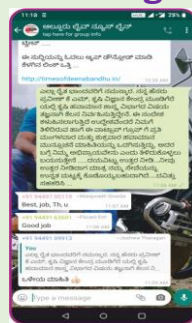


Assisting farmers

of Udupi district by linking their farm produce to various markets through social media mainly by WhatsApp group. Information about the quantity of watermelon harvested by Shri Suresh Nayak was shared in the WhatsApp group with the contact information of farmer and location by KVK, Udupi. Through various net workgroup, the news reached to nearly 3,850 members who were the wholesale traders

and individual buyers. On an average daily, 250 to 300 direct consumers purchased watermelons which accounted for 90%, and remaining 10 per cent were sold to the wholesale buyers. The article on the sale of watermelon at the farmer's place highlighted in local and state newspapers attracted many more customers. Shri Suresh Nayak continued the flow of consumers to his farm till the lockdown period, and started to procure pineapple, ash gourd, cucumber and pumpkin from the farmers who faced difficulty in marketing due to lockdown. As a result, his farm became "Ryot Super Bazar" with a transaction on an average of 12-15 tonnes of fruits and vegetables every day, a clear message to go for direct marketing by farming community to benefit them.

DAMU through ICT by ICAR-KVK, Chikkamagaluru



Farmers meet

ICAR-KVK, Chikkamagaluru organised Farmers' Awareness Programmes on District Agro-Meteorological Unit (DAMU) to create awareness among the farming community about climate change and agriculture. WhatsApp groups (31) of farmers were created to disseminate the weather forecast information to the farmers through ICT during COVID-19 lock down period. The DAMU unit also offers telephonic consultancy to the farmers of the district.

UNIVERSITY OF AGRICULTURAL SCIENCES, DHARWAD

Dr B. R. Ambedkar Jayanthi Celebrated

129th Birth Anniversary of Dr B. R. Ambedkar was celebrated at UAS, Dharwad in a simple manner due to COVID-19



129th Birth Anniversary of Dr. B. R. Ambedkar was celebrated

pandemic. The Vice-Chancellor Dr Mahadev B. Chetti, Director of Education Dr S. B. Hosamani, Registrar Dr V. R. Kiresur, Director of Extension Dr Ramesh Babu, Director of Research, Dr P. L. Patil, Comptroller Shri S. M. Honnalli, Administrative Officer Shri. S. C. Mirajakar and staff members participated in the programme.

Distribution of Masks, Hand Sanitizers and Food Packets



Food packets, Masks and Hand Sanitizers to the Police and Municipal Corporation workers by Dr. Mahadev B. Chetti

During the period of Corona pandemic, the University of Agricultural Sciences, Dharwad launched several programmes like awareness on Corona virus, distribution of food packets, masks and hand sanitizers. Food distribution programme was organized to the Police Department and Municipal Corporation workers dedicating their services during the Corona Pandemic period. Dr Mahadev B. Chetti, Vice-Chancellor of UAS, Dharwad distributed masks and food to these workers on 12-04-2020. Shri Shashimouli Kulkarni, Member Board of management, Dr Ramesh Babu, Director of Extension, Dr B. D. Biradar,

Dean (Agri.) and Sri S. M. Honnalli, Comptroller, and staff of UAS, Dharwad were present on the occasion.

Agri War Room: Responding to the farming community during COVID-19 pandemic

A toll-free No. 1800-425-1150 was started at UAS, Dharwad since 16. 04. 2020 at Agri War Room, which has been popularised through Doordarshan, Akashvani, Newspapers, WhatsApp groups and other media. The Agri War Room is being kept open from



Agri War Room in working

8 AM to 8 PM every day, including holidays. Two Scientists are available at Agri War Room to respond to the calls of farming community. In addition to this the calls recorded at the Agri War Room are being compiled and sent to government of Karnataka every day. On an average 25 calls are being received every day. In the beginning calls related to sale of agricultural produce were more but later on more calls were received regarding availability of agricultural inputs. In addition to the districts under the jurisdiction of UAS, Dharwad, calls from Shivamogga, Tumkur, Bengaluru, Chitradurg, Mandya, Chikkamangaluru, Dakshina Kannada, Mysore, Davangere, Kolar, Hassan, Chamrajanagar, Udupi, Bidar, Yadgir, Kalaburgi were also received. Even calls from Kolhapur, Gujarat, Delhi, Mumbai and Tamil Nadu were also received. Farmers are getting solutions to their problems through a single

toll-free call from their place of residence and at the right time. Dr Ramesh Babu, Director of Extension is the Nodal Officer (COVID-19) and is managing the working of Agri War Room. Vice-chancellor, Dr M. B. Chetti, Member BoM Shri Shashimouli Kulkarni and former member BoM, Shri Ishwarchandra Hosamani visited the Agri War Room on 20.04.2020 and appreciated the efforts and gave suggestions for further improvement.

Food Packets to Municipal Corporation employees by UAS, Dharwad

University of Agricultural Sciences, Dharwad launched several programmes like

Awareness on Corona virus distribution of

food, masks and hand



Food packets to Municipal Corporation employees

sanitizers. As a part of this programme, food/grocery packets were distributed to Municipal Corporation employees of Zone 3 (Sadhankeri and Surrounding areas of Dharwad) who have been dedicating their services during this Corona Pandemic period, by the Vice-Chancellor Dr Mahadev B. Chetti on 20-04-2020. He further encouraged the COVID -19 warriors by applauding their yeoman services to the society. He also suggested to take care of their personal health by maintaining social distance and other precautionary measures. Dr J. H. Kulkarni, Former Vice-Chancellor, Officers and staff of UAS, Dharwad were present on the occasion.

COVID-19 Pandemic Lockdown Situation: Training Programmes

Dr Mahesh Desai, Director, Dharwad Institute of Mental Health and Neuro Sciences (DIMHANS), delivered a talk on “Minding our minds during COVID-19” in the training programme on coping with COVID-19 pandemic lockdown organized under NAHEP-

IDP, on 22 May 2020 at UAS, Dharwad

campus. He opined that anxiety and fear about COVID-19 is common among general public but it needs to be managed with physical,



Training programme

mental and spiritual care, which leads to healthy and happy life. He expressed that changes observed due to lockdown restrictions in routine activities resulted in redistribution of home activities, work from home, financial stress, interpersonal strain, boredom, anger and frustration. He further said that increased risk of stress, sleep, disturbances, anxiety, depression, substance abuse and their complications are mental illness caused due to COVID-19 pandemic lockdown, which may lead to physical, emotional, behavioural and cognitive disorders. Inaugurating the programme Vice-Chancellor, Dr M. B. Chetti, opined that new problems being faced due to COVID -19 need to be addressed jointly by different departments, and said that the University is addressing students and farmers to overcome the stress and anxiety.

Dr (Smt) R. Sreevani, faculty of DIMHANS gave a talk on “Overcoming lockdown anxiety holistic measures”, wherein she stressed on physical, psychological and spiritual ways of handling anxiety and opined that adequate air, water, balanced diet, regular exercise, sound sleep are the major measures to get rid of any kind of stress. Shri Mahesh Mashal, Director, CONNECT, Dharwad spoke on “It is never too late”, wherein he emphasized on the role of teachers and scientists of UAS, Dharwad during COVID-19 lockdown period. Dr K. V. Ashalatha coordinated the programme.

Mental Preparedness to Cope with COVID-19

One day training on "Mental preparedness to cope with COVID-19" was organized for administrative staff of UAS, Dharwad on 28 May 2020 at UAS, Dharwad Campus under NAHEP-IDP. Dr M. B. Chetti, Vice-Chancellor, inaugurated the training programme by watering a plant, and opined that administrative staff must manage stress as they are important for effective administration and providing timely services. He further said that during COVID-19 lockdown period, UAS, Dharwad is serving the farming community by providing necessary information and awareness about COVID-19 through Agri-War room. Chief guest Dr Sunanda G. T., Assistant Professor, Dharwad Institute of Mental Health and Neuro Sciences (DIMHANS), gave tips to protect from COVID-19 by self-isolation, social distancing and washing hands repeatedly. Dr R. Shreevani, Professor and Head, Department of Psychiatric Nursing, DIMHANS emphasized on recognizing the problem, accepting and managing the stress under COVID-19 situation and advised to maintain good physical and mental health through balanced diet and meditation. The programme was organized by Dr K.V. Ashalatha. Dr P. U. Krishnaraj, Principal Investigator, NAHEP-IDP, Mr S. C. Mirajkar, Administrative Officer, and other officers of the University also participated.

Coordination Committee Meet of State Farm Universities

The fifth Coordination Committee (Subcommittee - Education) Meet of Karnataka State Farm Universities was organized at UAS, Dharwad on 2 June 2020 under the Chairmanship of Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad. The issues on working out commonality on education policies, finalization of seat matrix for PG entrance examination, digitalization of evaluation system, introduction of agriculture subject as a chapter in higher primary education, linking of farm universities with

industries to provide entrepreneurship skills to farm science students and finalization of score card for appointment of teachers in farm



universities were **Coordination Committee Meet** deliberated in the meeting. Vice-Chancellors, Dr S. Rajendra Prasad, UAS, Bengaluru; Dr K. N. Kattimani, UAS, Raichur; Dr M. K. Naik, UAHS, Shivamogga; and Dr K. M. Indires, UHS, Bagalakot; the Directors of Education, Registrars and other officers of state farm universities participated in the meeting. Dr S. B. Hosamani, Director of Education, UAS, Dharwad organized the meeting. Dr V. R. Kiresur, Registrar, UAS, Dharwad delivered vote of thanks.

Organic Certification: Online Training

Online training programme on "Organic Certification" to the undergraduate students and staff of UAS, Dharwad was organized



during 2-4 June 2020 under **Organic Certification: Online Training** NAHEP-IDP. Inaugurating the programme Dr A. S. Anand, Chairman, Organic Farming Mission, Government of Karnataka, briefed on the history of organic agriculture, importance of organic certification in present days and suggested to adopt organic farming. Dr M. B. Chetti, Vice-Chancellor, in his presidential remarks emphasized on the benefits of organic certification and highlighted about opportunities to the students for self-employment with organic certification. Special guest speakers. Dr C. L. Laxmipatigouda, Former DG, ICRISAT, Hyderabad, spoke on the importance and benefits of organic farming in present day conditions and briefed about the

health benefits of organic products. Further, they also spoke on the on-going research activities of organic farming across the globe and convinced the participants about recent developments in organic certification. Dr Vinaykumar Choudhari and Shri Manojkumar, Central Union Certification Agency, Mumbai, briefed about the national and international organic certification aspects of agricultural products including animal and textile industry products. Dr Dhanjaya Naik, Subject Matter Specialist spoke on the effects of organic farming on biodiversity. Shri Mahesh Mashal encouraging the students called upon students to explore the possibilities of self-employment in organic farming and opined that this is the best opportunity as there will be reduction in jobs due to COVID-19 pandemic. Dr V. R. Kiresur, Registrar, UAS, Dharwad highlighted on national and international market facilities for organic products and standards of organic certification. Dr P. U. Krishnaraj, Principal investigator, NAHEP-IDP, participated in the programme, Dr Jyoti Vastrad and Dr D. N. Kambrekar organized the programme.

e-Governance: Online Training

Two-day online training programme on e-Governance

was organised at UAS, Dharwad, during 5-6 June 2020 under NAHEP-IDP.

Shri G. K. Sutar, Project Director, SDC, introduced on working structure of

the centre for e-governance. Dr M. B. Chetti, Vice-Chancellor addressing the participants opined that, during COVID-19 lockdown critical situation, the scientists were unable to reach the farmers personally but it was made

possible through online interaction, and COVID -19 has created an opportunity to take up e-governance. He further stated that the farmer's interests were safeguarded by transferring technology knowledge through information and communication technology tools. He also emphasized the importance of e-governance in administration and shared glimpses of his past experiences on e-governance. Resource persons from the Centre for e-governance delivered talks on various aspects of e-governance. Mrs K. Annapurna, deliberated on "ICT Implementation in e-Governance-Issues and Challenges", wherein she explained the need of e-governance and different operating models of the system in the state government and emphasized the social, economic and technical issues besides the major challenges such as security, privacy, implementation of ICT solutions in the administration. Mr Varaprasad Reddy, explained the need of ICT in administration to increase the transparency, accountability and responsiveness of the system by demonstrating the popular citizen-friendly ICT applications such as SAKALA, Janasevak and Sevasindu. Smt Rashmi G. narrated the importance of application of ICT tools in education and training to overcome the limitations of conventional teaching methods. ICT tools like flipped classroom, google classroom, glisser, boditree were also demonstrated with their features. Shri Shakeel Ahmed explained usefulness of HRMS in the management of employees' service registers. With the concern of saving the environment with paperless scheme, Mr H. L. Prabhakar explained the need of e-governance in enhancing the work speed in the institutes. Dr P. U. Krishnaraj, Coordinator, NAHEP-IDP welcomed all resource persons and participants. Officers and administrative faculty of the university participated in the training programme which was moderated by Dr K. V. Ashalatha. Dr B. K. Naik delivered vote of thanks.



e-Governance: Online Training

World Environment Day Celebration

World environment day was celebrated on 6 June 2020 with tree planting programme at Stadium premises of UAS,



World Environment Day Celebration

It was jointly organised by Go Green initiative of NAHEP-IDP, UAS, Dharwad and the Department of Forest. Dr M. B. Chetti, Vice-Chancellor, expressed that the world environment day provides an opportunity to broaden our opinion and responsibilities in conserving and sustaining the environment. Further, he opined that the current environmental crisis is an alarming situation, which requires rethinking of our relationship with the living beings, eco systems and biodiversity. About 50 *Cordia myxa* trees were planted in the university premises in the first phase of green initiatives during the year 2020. Mr Manjunath Chauhan, Conservator of Forest, highlighted the theme of World Environment Day 2020 'Conserving Biodiversity' and called upon to conserve the ecosystem and biodiversity. Mr Yeshpal K., Deputy Conservator of Forest, Officers of the university, Principal Investigator, Nodal Officers of NAHEP – IDP and Head of the Department of Physical Education were present.

e-Academic: Video Conference

Video Conference on e-Academic management system (AMS) was held during 11-12 June 2020 for the faculty of University of Agricultural Sciences,



Video Conference on e-Academic

Dharwad under NAHEP-IDP. Dr R. C. Agarwal, National Director, NAHEP, expressed that the

academic management system as a part of e-Governance is essential to encourage the academic faculty and manage their performance in all farm universities. ICAR has taken initiatives to establish digital classroom and provide all softwares for academic management system, he added and appreciated the initiatives of UAS, Dharwad to conduct online programmes to improve the e-Academics. Welcoming the guests and faculty, Dr M. B. Chetti, Vice-Chancellor indicated that the university has adopted the academic management system and planning to adopt e-examination system and stressed on importance of e-governance during COVID-19 lockdown situation. Dr R. C. Goyal, briefed on AMS. On Second day of the training Dr Pandey, ADG, ICAR, opined that e-academic management system provides updated academic activities of the university, and improves total efficiency of an academic system. Dr Sudheep presented on different initiatives and digital platform for e-academic management. Dr Vibhoure Tyagi presented details on AMS for faculty and students indicating its importance and opined that AMS allows maintaining data base of courses, exams and also students' performance. The programme benefitted 100 registered faculty members apart from common viewing facility made available at all teaching campuses of UAS, Dharwad. The programme was organized by Dr Balachandra Naik.

Video Conference of Minister Agriculture with VCs and Scientists of Farm Universities

Shri B. C. Patil, Minister for Agriculture, Government of Karnataka while addressing the Vice-Chancellors of all farm universities of Karnataka state,



Video Conference of Agriculture Minister with VCs and Scientists

officers and the scientists through video conference on 13 June 2020, urged to work towards doubling of farmers' income and thereby fulfil the dream of Prime Minister Shri Narendra Modi. Further, he said that the Government of Karnataka has introduced suitable amendments to APMC Acts for higher profit to farmers by selling their agricultural produce anywhere in the country. He opined that modern ICT tools like mobile apps and webinars help to reach large number of farmers within no time across the country and called upon the scientists to use such tools for transfer of innovative agricultural technologies to farmers so that their income will be doubled in a short period of time. Although many industries were closed during COVID-19 lockdown period, agriculture did not stop, which shows its importance, he added. Appreciating the efforts of the Agricultural Universities in responding to the problems of the farming community during COVID-19 lockdown period through Agri War Room, he suggested to continue the services of Agri War Room. Finally, he urged the scientists and all staff of agriculture department to receive phone calls with "Jai Kisan" instead of "Hello" to express their solidarity and tribute towards the farming community. Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad, appraised the minister about the previous five year's achievements of UAS, Dharwad and briefed about the activities of Krishi Vigyan Kendras in transferring suitable technologies to the farmers even under COVID-19 lockdown period, and its economic benefits to the farmers. Further, he also appraised about the planting of 3,000 red sandal wood and other seedlings in the campus under Green Initiatives of NAHEP-IDP. This video conference was organized by Dr M. J. Chandregoud, Director, ICAR- Agricultural Technology Application Research Institute, Bengaluru.

Agri-preneurship, skill development and start-ups: Brainstorming session

A brainstorming online session was organized on agri-preneurship, skill development and start-ups at the University of Agricultural, Sciences,



Agri-preneurship, skill development and startups : session

Dharwad on 23 June 2020 under NAHEP, Institutional Development Plan (IDP), to get the expert-opinion and suggestions on the planned activities. Inaugurating the programme Dr. N. S. Rathore, Vice-Chancellor, MPUAT, Udaipur expressed that farm graduates should act as job providers rather than job seekers, and opined that COVID-19 has posed new challenges and opportunities. The eminent personalities like Dr N. M. Krishna Kumar, Former DDG (Horticulture), Dr P. G. Chengappa Former Vice-Chancellor, UAS, Bengaluru, Dr Bangali Baboo, Former National Director (NATP), and Dr G. K. Vasant Kumar, Former Additional Secretary expressed their opinion and gave suggestions. Dr M. B. Chetti, Vice-Chancellor, in his welcome address opined that Agri - preneurship and skill development tends to support start-ups and highlighted about several initiatives undertaken by the university in this direction. All experts strongly recommended that skill development in various areas of farming and allied areas is most essential, which promotes students to think of entrepreneurship and also opined that start-ups in agriculture have greater scope in providing quality inputs and services to the farming community. The webinar was organized by Dr K. V. Ashalatha and Dr B. N. Aravind Kumar. Dr P. U. Krishnaraj delivered vote of thanks. All nodal officers of IDP were present.

Committee Meeting to Popularise New Varieties, Hybrids and Technologies

Dr M. B. Chetti, Vice-Chancellor, while addressing a meeting with officers of the state department of agriculture and scientists of UAS, Dharwad, opined that popularisation of new varieties, hybrids and production



Meeting to Popularise New Varieties, Hybrids and Technologies.

technologies among the farming community play an important role in enhancing the crop productivity, which helps in doubling of the farmers' income. He further expressed his concern that the productivity in field crops is lower than horticultural crops and hence, he stressed for frequent interaction between officers of state department of agriculture and scientists for timely dissemination of technologies, input supply etc., to the farmers to increase the productivity of field crops. He also stated that the university has already formulated scientists' teams to different districts for effective popularization of the technologies. Stressing the importance of the quality seeds in enhancing the productivity, he appraised the Joint Directors of Agriculture that the university will supply the required quantity of seeds of improved varieties for popularisation among the farmers in their jurisdiction, if the requirement is intimated to the university in advance. Dr P. L. Patil, Director of Research outlined the details and importance of this meeting. Dr Ramesh Babu, Director of Extension, the Joint Directors of Agriculture, Dy. Directors of Agriculture, Assistant Directors of Agriculture and officers of Karnataka State Seeds Corporation and Certification Agency of different districts under the jurisdiction of UAS, Dharwad participated in the meeting. Dr M. C. Wali, Associate Director of Research proposed vote of thanks.

English Remedial Course

Two months duration remedial course on English language for the students from Afghanistan was conducted at UAS, Dharwad from 5 May 2020 to 5 July 2020 under the National Agricultural Higher Education project



Dr M. B. Chetti, chief guest for the Concluding Programme

Institutional Development Plan (NAHEP-IDP) to improve the English language of the international students. Concluding programme of this course was organized on 9 July 2020. Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad, speaking as chief guest, opined that the knowledge of English is important for higher education especially for the international students coming from Afghanistan and other Asian countries. Further, he said that the Government of India is assisting Afghanistan in education and other sectors, wherein nearly 10 to 15 students take admission every year for under-graduation and post-graduation studies in Agriculture at UAS, Dharwad. He expressed that as students lack skills in speaking and writing English, which makes it difficult to them to understand the subjects affecting their performance in academics. In view of it, he called upon the students to make use of the course and put their efforts to learn English. He also stressed to learn Kannada language as they will be studying for 2 to 3 years in the campus. Releasing a training handbook on English language on this occasion for the distribution to the trainees, he told that such training courses on English language are also being conducted in all campuses of UAS, Dharwad to equip students in English speaking and writing skills and also said that English language laboratory will be established at UAS, Dharwad and online flip classes will be conducted for the benefit of all the students. The programme was organized by Dr S. S. Dolli,

Professor (Agril. Extn), Dr P. U. Krishnaraj, Coordinator and Dr K. V. Ashalatha.

Scientific Writing in Social Sciences

Writing of quality research papers in social sciences for acceptance in journals with high NAAS rating and impact factor is important for the growth of science, opined

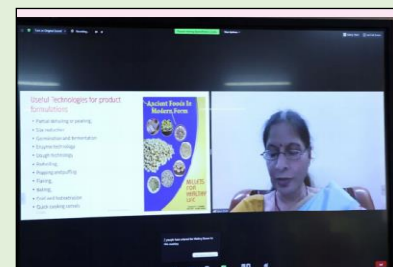


Dr Rajendra Prasad, speaking in the Virtual Training Programme

Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad. He was speaking after inaugurating a virtual training programme on Scientific Writing in Social Sciences organized at the University of Agricultural Sciences, Dharwad under the National Agricultural Higher Education Project- Institutional Development Programme (NAHEPIDP) on 6 July 2020. Dr Rajendra Prasad, Principal Scientist, Indian Agricultural Statistical Research Institute, New Delhi, spoke about 'how and why' of data management, Dr Yateendra Joshi, a freelance writer-editor of international repute, elaborated on effective writing of a research paper for acceptance in journals of high repute. Dr Richa Sharma, Asst. Prof. (Biotechnology), Sharada University, Noida and Dr Ram Saran Chaurasiya, Research Assistant, String Bio Pvt. Limited, Bengaluru dealt with the management of citations and references and demonstrated the use of the software 'End note' for citation management. Dr P. Krishnan, Principal Scientist, ICAR, NAARM, Hyderabad explained and convinced the participants about the plagiarism with examples. A total 350 participants across the country participated in the training programme. Dr Shobha Nagnur, Professor and Head, Department of Extension and Communication Management, College of Community Science, UAS, Dharwad, the organizer of the training programme introduced and welcomed the resource persons and also proposed the vote of thanks.

Entrepreneurship in Food Processing

Two days National Webinar on "Entrepreneurship in Food Processing" was organized on 7-8 July 2020 for third and final year students of Community Sciences, Food Technology, Agriculture and Faculty of UAS,



Entrepreneurship in Food Processing: Webinar

Dharwad and other Agricultural Universities under NAHEP-IDP. In his Inaugural address Dr M. B. Chetti, Vice-Chancellor highlighted the importance of food processing in present scenario and the scope for the budding entrepreneurs. Dr T. V. Hymavathi, Professor and University Head (FN), PJTSAU, Hyderabad, Dr Savitri, Consultant for regulatory, foods and nutrition, Dr Mani Singh, Founder, Eska Food Safety Solutions, Jaipur, Rajasthan, Dr Shashikanth, Senior Consultant for Confederation of Indian Industry (CII), Dr Dayakar Rao B., Principal Scientist and CEO, Nutrihub, IIMR, Hyderabad and Dr Sangappa, Scientist, Agricultural Extension, IIMR, Hyderabad, spoke and discussed on various topics and highlighted the scope and challenges involved in fruit and vegetable processing sectors in India, Schemes of Ministry of Food Processing Industries (MoFPI), GoI, strategies to address health and food safety in the context of changing world. They also discussed on the scope for entrepreneurship and innovative marketing strategies in food products, malting, brewing, functional foods and nutraceuticals, ready to eat foods, fortified millet products. Elaborated on packaging and labelling of food products, millet processing technologies, bakery product technologies and role of FPOs in value addition to foods and market promotion. A total of 141 participants from all over India participated. The National Webinar was organised by Dr Sarojani Karakannavar and Dr Jyoti V. Vastrad, Professors of the College of

Community
Dharwad.

Science, UAS,

Commercialization of Technologies and IPR



Dr M. B. Chetti, inaugurated the webinar

A national webinar on Commercialization of UASD technologies and IPR was organized on 13 July 2020 by Dr P. L. Patil, Director of Research to sensitize on opportunities to make use of UASD technologies by entrepreneurs and start-ups. Dr M. B. Chetti, Vice-Chancellor, inaugurated the webinar and expressed that UASD technologies are not reaching the farming community at the expected pace. He emphasized the urgent need for implementation of effective system for commercialization of economically feasible technologies. Dr Sanjeev Saxena, ADG (IPTM & PME), ICAR, New Delhi, discussed on the protecting IPR technologies and their commercialization in academic institutions. Dr S. D. Shivakumar, Director, ABD, TNAU, Coimbatore shared on the guidelines for commercialization of technologies and TNAU-experience. Dr H. C. Prasanna, Nodal Officer, ITMU, IIHR Hesaraghatta, Bangaluru, spoke on commercialization of technologies-IIHR experience. Commercialization of technologies, University Industry Interface was discussed at length by Dr Sharan Angadi. The webinar was attended by 136 participants online and 35 offline.

e-Procurement and e-Office Implementation

A training programme on “Implementation of e-procurement and e-office at UAS, Dharwad” was organized for nodal officers and other faculty of UAS, Dharwad on 14 July 2020

under NAHEP - IDP to discuss on the procedures involved for floating the tenders for work, goods, services and pre-



qualification and maintenance of e-Procurement and e-Office Implementation: Training files through online mode. Dr M. B. Chetti, Vice-Chancellor in his presidential remarks highlighted the importance of the implementation e-office and also expressed the progress made so far with regards to e-office implementation at UAS, Dharwad. The resource persons, Mr Veeresh Gangammanavar, trainer and supporting engineer, e-procurement, Dharwad, elaborated on different steps involved in registration of e-tender, floating tenders for works, goods and services. Mr Manjunath Ronad, Master trainer e-office, Center of e-Governance spoke on pre-qualification for e-tenders with demonstrations, the need and importance of implementation of e-Office for the productive and efficient work management. A total of 47 members participated. Dr K. V. Ashalatha, the organiser of the training programme moderated the programme.

Renewable Energy Sources –Prospects

A National webinar on ‘Renewable Energy Sources – Future Prospects’ was organised under NAHEP – IDP



Environment Sustainability Plan on 17 July

A National Webinar on Renewable Energy Sources

2020. During the inaugural address, Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad expressed that the innovative technologies harnessing renewable power can bring down the costs with clean energy. Dr B. Shridhar,

Dean (Agril. Engg.) AECR & I, TNAU, Coimbatore, discussed on overall view of renewable energy sources and its status. Various biomass conversion technologies like thermal gasification, hydrothermal process etc. were explained by Dr P. Subramaniam, Prof and Head, Department of Renewable Energy Engineering, AECR & I, TNAU, Coimbatore. Dr A. G. Mohod, Prof and Head, Department of Electrical Engineering and other energy sources, Dr Balasaheb Sawant, Krishi Vidyapeeta, Dapoli, explained various avenues to use solar and wind energy technologies. In total, 374 individuals participated. The national webinar was organized by Dr Satish R. Desai and Dr Jyoti V. Vastrad.

Impact of Construction and Demolition Waste

A national webinar on “Impact of construction and demolition waste on environment” was organised on 18 July 2020 under NAHEP – IDP. Dr M. B. Chetti, Vice-Chancellor, UAS,



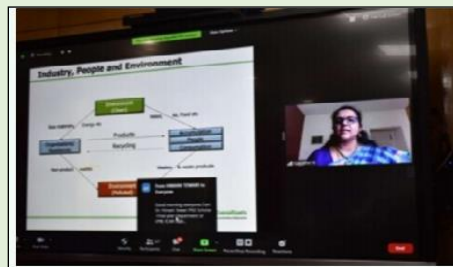
Webinar is on Impact of Construction and Demolition Waste

Dharwad, in his inaugural address, expressed his concern about the impact of the construction and demolition wastes on animal and human health apart from its impact on ecosystem. He urged the reuse and recycling of waste products in proper way so that the gap in the demand–supply sectors can be minimised. Guest speaker Mr Sreeshail V. Yakkundimath, expressed that management of solid waste is most important factor to save our environment and briefed about the guidelines of GoI, in Construction and Demolition Waste Management-2016, and highlighted necessary tips to overcome the poor management of solid wastes in India. The webinar was organised by Mr S. C. Mirajkar, and Dr Jyoti Vastrad, Nodal officers, NAHEP-IDP, UAS, Dharwad. A total of 30 members

including faculty and students attended the webinar.

Bio-Waste Management

This national webinar on ‘Bio-Waste Management’ was organized on 27 July 2020 under NAHEP – IDP at UAS,



Dharwad to National Webinar on Bio-Waste sensitise students and faculty of Agricultural and Veterinary Universities about the importance of bio-waste management, segregation of waste and methods for disposal as well as entrepreneurial opportunities in livestock waste management. In his inaugural address, Dr M. B. Chetti, Vice-Chancellor, University of Agricultural Sciences, Dharwad emphasised on the responsibility of everyone to reduce the waste for creating better environment and emphasized that ‘Swachha Bharath’ is important for ‘Swastha Bharath’. Mrs Gayatri, R., Vice President of EHS Consultants, spoke on different types of bio-waste, their segregation and different methods of disposal.

Dr Upendra, Professor, Department of Veterinary Medicine, Veterinary College, Bengaluru, Dr Md. Nadeem Fairoze, Professor (Retired) and Dean [(Post Graduate Studies (FMR)] elaborated on the entrepreneurial opportunities in livestock waste management. A total of 574 faculty and students from more than 40 Universities from 21 states of India participated in the webinar, which was organized by Dr Anil Kumar G. K., Dr A.S. Patil and Dr Bhageerathi from the Department of Animal Sciences, UAS, Dharwad.

Training on e-Waste Management

A virtual training programme on e-waste management was organized under NAHEP-IDP at UAS, Dharwad on 28 July 2020, which was attended by 278 participants. Inaugurating the programme Dr M. B. Chetti, Vice-Chancellor,



Training Programme on e-Waste Management

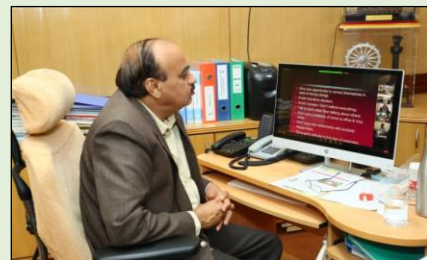
UAS, Dharwad expressed his concern about the production of large quantity of e-waste in India without proper disposal causing environmental hazards, and highlighted that as high as 18.5 lakh tons of e-waste is generated in India annually, which ranks 5th in the world. In view of it, he called upon the scientists and students to understand and adopt the scientific methods of disposal and recycling of e-waste. Dr D. R. Kumaraswamy Director, Institute for Environmental Studies, Bengaluru, an invited resource speaker, presented in detail about the stringent regulations of e-Waste Management Act-2016 of Central Environment and Forest Department, governing e-waste management in India and advised proper usage, recycling, repair of electronic equipment and suitable disposal of e-waste to reduce its accumulation on day today basis. Shri M. Krishna, Managing Director and CEO, CORAL Communications and Networks Pvt. Ltd., speaking on the ill effects of e-waste on environment, biodiversity, air, soil and water, discussed upon proper methods of e-waste recycling and the initiatives of the government. Further, he stressed for scientific disposal and proper recycling of e-waste to safeguard the valuable natural resources like air, water and soil. Dr P. U. Krishnaraj, Coordinator NAHEP-IDP project, welcomed the guest speakers and members and the programme was moderated by Dr K. V. Ashalatha, Associate Coordinator and Dr Jyoti V. Vastrad proposed vote of thanks.

Workplace Wellness - Impact on Life Style

A national webinar on Workplace Wellness and its Impact on Life Style was organized on 5

August 2020 under the National Agricultural Higher Education Project- Institutional Development Plan (NAHEP-IDP) at UAS, Dharwad.

Padma Shri Dr Cholenahally Nanjappa Manjunath, a renowned cardiologist, recipient of Shri C. V. Raman Young Scientist Award,



National Webinar on Workplace Wellness

Karnataka Rajyotsava Award and presently the Director of Sri Jayadeva Institute of Cardiovascular Sciences and Research, Bengaluru, was the esteemed chief guest and an invited speaker for the webinar. Speaking on the occasion Dr Manjunath suggested maintaining cordial and lively atmosphere in the office set up for better performance of the employees and opined that equal opportunities have to be provided to all the employees to excel in their field, which is more significant during COVID-19 pandemic situation. Further, he told that officers have to listen to their employees positively and motivate them towards building their self-confidence and simultaneously towards the development of the institution. He also discussed 12 workplace wellness commandments and workplace rules for happy life, and nine commandments for career building. Elaborating on the global pandemic of COVID-19, he opined that, this condition has created more stress and anxiety, loneliness, fear of job loss along with financial uncertainty but suggested not to be panicked and should not lose the confidence, and told to adopt suitable positive changes in the life style with healthy activities. Dr Manjunath also appraised about many cardiac issues, precautions to avoid heart attacks and finally suggested to

adopt SMS principle i.e. Social distancing, Mask wearing and Sanitization to protect from COVID-19 and not to panic leading to increase stress and anxiety.

Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad, in his welcome address, briefly introduced Dr C. N. Manjunath, highlighting his achievements in the field of cardiology and awards/recognition received by him. Further, in his introductory remarks, he opined that positive thinking coupled with committed work will help in achieving higher goals in any profession and in any institution and urged officers, teachers, scientists, students and staff members of the University to have social concern and tireless efforts to achieve their goals. The webinar was organized by Dr P. U. Krishnaraj, Coordinator and Dr K. V. Ashalatha, Associate Coordinator, NAHEP-IDP. More than 245 participants across the country were benefitted by the national webinar.

Seed Quality Maintenance for Entrepreneurship

A national webinar on Innovative approaches in seed quality maintenance for successful



A National Webinar on Innovative Approaches in Seed Quality

entrepreneurship was organized on 7 August, 2020 by Dr J. S. Hilli, Special Officer (Seeds), under NAHEP-IDP at UAS, Dharwad. Shri B. C. Patil, Minister for Agriculture, GoK, was to inaugurate the webinar, but could not attend the webinar due to unavoidable conditions, he sent the message for the webinar which was read by the Vice-Chancellor. Dr A. B. Patil, Officer on Special Duty to Minister for Agriculture, GoK, and Former, Registrar, UAS, Bangaluru, participating in the webinar, conveyed the message of the minister and appreciated the organizers for organizing webinar on relevant topic at right time. Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad

while inaugurating the webinar welcomed the guest speakers, participants, and delivered his opening remarks. He opined that the quality seed material is an important input in crop production for realizing higher yields, which can increase the farmers' income. Further, expressed that the agricultural universities are ready to support the start-ups in the fast-growing seed industry in this direction and opined that Haveri, Chikkaballapur and Kolar are the major seed producing districts in Karnataka. The Vice-Chancellor read the message of the minister, wherein he conveyed that 60-70% of the farmers in India are using the home-grown seeds for sowing wherein the yield levels are low and hence, stressed for the quality seed production and supply to the farmers by the agriculture universities and seed industry at right time for increasing the food production. Wishing the webinar all the success, he hoped that the deliberations of the webinar will address the challenges of Indian seed industry in general and Karnataka in particular.

Many renowned national and international scientists discussed the various dimensions of seed industry, its problems and prospects in India. Dr K. Keshavalu, Director, TSSCA, Hyderabad, and Vice President ISTA, Zurich, Switzerland, elaborated on Entrepreneur development through seed supply system, highlighting the wider scope for entrepreneurship in the seed industry. Dr S. Rajendra Prasad, Vice-Chancellor, UAS, Bengaluru, presented details on Comprehensive advances in seed quality enhancement, covering the major recent advances and developments in the seed industry for quality improvement. Dr D. K. Yadav, ADG (Seeds), ICAR, New Delhi, highlighted the whole gamete of Quality Seed Distribution in India -A Possible Way Forward to Enhance the Productivity of Major Crops. Dr Vilas Tonapi, Director IIMR, Hyderabad, spoke on the Challenges in ownership of varieties in research and development organizations, wherein he highlighted about modalities of

sharing the technologies and varieties of public institutions with private organizations for popularization and adoption amongst the growers. Dr Shreeshail Navi, Scientist, IOWA State University, USA, and more than 300 teachers, scientists and students participated in the webinar. Dr N. K. Biradar Patil, Prof and Head, Department of Seed Science and Technology, UAS, Dharwad wrapped up the webinar by summarizing the lectures of all the speakers. Dr J. S. Hilli, Professor (SST) and Special Officer (Seeds), UAS, Dharwad proposed vote of thanks and Dr A. G. Vijay Kumar, Seed Production Officer, Seed Unit, UAS, Dharwad moderated the programme.

Skills for Content Writing to Press and Media

One day workshop on Enhancing skills for content writing to press and media was organised on 12 August, 2020 at UAS, Dharwad



Workshop on Enhancing Skills for Content Writing

under NAHEP-IDP for the selected scientists, department heads and extension personnel of UAS, Dharwad. Inaugurating the programme, Shri Gururaj Jamakhandi, Senior Journalist, Times of India, expressed that writing to media may be difficult for the beginners, but suggested that the practice of writing will improve the skill and opined that brief, accurate and crisp writing of press note are the basic foundation for media writing. Further, he advised the scientists to keep in mind the time and space available for the press note in the newspaper with an attractive title and brief specific information in simple language to reach larger public. Speaking on the occasion Shri Sudheendra Prasad, Senior Staff Correspondent, Prajavani daily newspaper, said that each day is a learning process while writing to media and opined that head line of the press note grabs the attention of the

readers, further stressed for timely sending of the news for publication immediately after the event with relevant photographs without using any abbreviations. Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad in his presidential address highlighted the objectives of NAHEP-Institutional Development Plan (IDP) to bring reforms in agricultural education and promote entrepreneurship among students and further opined that press and media play a vital role in disseminating the innovative technologies amongst the farmers and act as a bridge between technocrats and common people in creating awareness. He advised the scientists that the press note should convey more information effectively with fewer words and it should reach the public at right time. Mr Basavaraj Hongal, Mr Srinidhi R., Mr Basavaraj Hiremath and Mr Raveesh Pawar, the reporters of different press and media of Hubli-Dharwad participated in the workshop as invitees. The workshop was organized by Dr S. S. Dolli and Dr S. V. Halkatti. Dr Dolli welcomed the gathering and Dr Ashalata proposed vote of thanks. All nodal officers of IDP, Director of Extension, selected heads of departments and faculty participated in the programme.

Grants from RKVY-RAFTAAR, GoI, for Start-ups

A total of Rs 218 lakh has been sanctioned as grant-in-aid to 17 agri start-ups incubated at KRISHIK Agri Business Incubator, UAS, Dharwad under Innovation and Agri-Entrepreneurship program of RKVYRAFTAAR, DAC & FW, GoI. Out of these, 10 are seed stage start-ups with a funding of Rs 185 lakh and seven are pre-seed stage start-ups with a funding of Rs 32.5 lakh. Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad congratulated the beneficiaries of this project. UAS, Dharwad is also the Knowledge Partner to DAC & FW and is instrumental in getting grant-in-support to its partner RABIs namely viz., NaaVic ABI, National Institute for Veterinary Epidemiology and Disease Informatics (NIVEDI), Bengaluru, Utkarsh R-ABI, Dr Panjab Rao Deshmukh

Krishi Vidyapeeth (PDKV), Akola, R-ABI, Central Institute for Research on Cotton Technology (CIRCOT), Mumbai and R-ABI, Anand Agricultural University (AAU), Anand to the tune of Rs 373 lakh for 39 start-ups. Innovative business ideas related to agriculture and allied sectors are supported under the scheme.

Solid Waste Management

A webinar on “Solid Waste Management” was organized on 1 September 2020 by Dr Renuka Salunke and Dr Veena Jadhav,



Webinar going on Solid Waste Management

Department of FRM, College of Community Science, UAS, Dharwad under NAHEP-IDP. Dr Ravi Guttal, Director of Innovation and Product Development Centre, KLE, Hubali, in his key note address opined that “Waste is a Goldmine” in India, which provides business opportunities for youth as the waste contains organic material to an extent of 65 %, whereas in USA it is 45 %, from which it is making a business of 14 billion dollars every year, indicating that suitable management of waste gives new opportunity for business and also helps in maintaining clean environment. Dr M. B. Chetti, Vice-Chancellor, in his presidential remarks expressed that agricultural graduates and other youths should come forward to start enterprise on converting waste into fuel, energy and nutrients that benefits the society by reducing health and environment hazards. Dr Indira Prakash, Consultant (ES), ICAR, NAHEP, New Delhi and Dr S. Kamaraj, Former Professor of Tamil Nadu Agricultural University, and Director International Institute of Renewable Energy, Coimbatore, briefed on innovative methods of recycling waste and government schemes available for youth to start small units with public private

partnership respectively. More than 150 members participated.

Framework and Protocols for Seed Quality Assurance

A webinar on “Framework and Protocols for Seed Quality Assurance” was convened by Dr J. S. Hilli, Special Officer (Seeds) on 9 September 2020, under NAHEP-



Institutional Development Plan. The webinar was to be inaugurated by Shri B. C. Patil, Minister for



Webinar on Framework and Protocols for Seed Quality Assurance

Agriculture, Government of Karnataka, but he could not participate due to unavoidable circumstances, and the webinar was inaugurated by Dr M. B. Chetti, Vice-Chancellor, UAS, Dharwad and he read the inaugural address sent by Minister, stressed to follow various protocols scientifically to ensure the seed quality, and efforts to be made to develop the frame work of various agencies involved in seed production. Dr Ashok Dalwai, CEO, National Rainfed Area Authority and Chairman, Empowered Body of Doubling Farmers Income, New Delhi, highlighted on the importance of quality of seed to enhance the farmers’ income and protocols to ensure the quality. Dr M. Bhaskaran, former Vice-Chancellor, TNAU and former Director, NSRTC, Varanasi, stressed upon strict implementation of regulations governing seed quality parameters and on the importance of certification in high value low volume crops. Dr S. K. Rao, Vice-Chancellor, Rajmata Vijayaraje Scindia, Krishi Vishwavidyalaya, Gwalior, shared on possible challenges in quality seed production and the way forward to address this

at national and global Level. Dr Arvind Kapoor, CEO, Rasi Seeds Pvt. Ltd., New Delhi, gave detailed information on process and protocols followed in private seed sector in production of quality seed. Dr N. K. Biradar Patil, Professor and Head (SST), summarized the webinar. Dr A. G. Vijaykumar, Seed production officer, moderated the event and Dr J. S. Hilli, Special officer (Seeds), delivered vote of thanks. More than 200 scientists and students across the country participated in the webinar.

Visit of Shri Iranna Kadadi, Rajya Sabha Member

Shri Iranna Kadadi, Rajya Sabha Member, GoI, visited UAS, Dharwad on 10 September 2020 and had discussion with



Visit of Shri Iranna Kadadi, Rajya Sabha Member

officers and Scientists. Addressing the scientists, he opined that the Farm University should come still closer to farmers in disseminating the technologies to double the income of farmers, which is the dream of Prime Minister Modiji. Dr M. B. Chetti, Vice-Chancellor, welcomed and briefed about the University activities, which made UAS, Dharwad very unique and distinct among 75 Farm Universities in the country. Officers and scientists briefed about the activities in research, extension, soil health, organic farming, seed production under Beeja Grama and activities of Community Science College. Appreciating the involvement and service of UAS, Dharwad, in socio-economic upliftment of the farming community, he called upon the officers to strengthen the University activities to further upliftment of the farming community in the state. The Members of Board of Management, Shri Shashimouli Kulkarni and Shri Y. N. Patil, all Officers and Scientists were present. Shri Shivaprasad, Shri Gurulingegowda and Shri Lokeshgowda, the

office bearers of Kisan Morcha were present. Dr V. R. Kiresur, Registrar, proposed vote of thanks.

Agri-horti Produces to be a Leader in Processing and Value Addition

A national webinar on “Innovations in Agri-horti produces to be a leader in processing



and value addition” was

Innovations in Agri-Horti produces to be a Leader in Processing and Value Addition organized by Institutional Development Plan under National Agricultural Higher Education Programme at UAS, Dharwad on 23 September 2020. Dr Alagusunaram, DDG, ICAR, New Delhi, inaugurating the webinar told that value addition to agri-horti commodities is low in India, and farmers can get higher price by value addition. Further, suggested to create a “Smart Agri Ecosystem” by investment in agricultural research and initiate a collaborative approach with agri-tech start-ups and corporate sector. Dr Mahadev B. Chetti, Vice Chancellor expressed that vacuum packing of chilli was first introduced to the world by UAS, Dharwad using good post-harvest technology and opined that there is a need for infrastructure for a value addition to make India, leader in Agri-Horti processing. Dr Dattatreya M. Kadam, Principal Scientist, ICAR, CIRCOT, Mumbai, highlighted on the current status and innovations of processing and value addition of Agri-Horti commodities. Mr Raghuveer Nayak, HR Manager ITC, Mysuru, spoke on entrepreneurship opportunities. Dr M. V. Manjunatha, Dr Balachandra Naik, Dr Satish R. Desai, organized the webinar.

Importance of Vitamins and Minerals

Dr Mahadev B. Chetti, Vice-Chancellor, UAS, Dharwad inaugurated a webinar entitled “Importance of Vitamins and Minerals”, which was jointly organized by Department of Food

Science and Nutrition, College of Community Science, UAS, Dharwad, and Nutrition Society of India



Webinar on importance of Vitamins and Minerals

(Dharwad chapter) on the eve of National “Nutrition Month” celebration on 24 September 2020. Speaking on the occasion, he stressed on the importance of fresh and good quality food during COVID-19 period about immunity and opined that food habits are developed in childhood and emphasized for good quality food during childhood avoiding junk foods.

Dr Usha Malagi, Dean (CSc), Dharwad, welcomed and introduced the guest speakers. In the technical session Dr Sarojani Karakannavar, detailed about importance of vitamins, food sources and their role in nutrition. Dr Hemalatha S., Professor and Head, Food Processing and Technology explained about the importance of minerals in human health. Totally 149 participants including *Anganwadi* workers, *Anganwadi* supervisors, Child development project officers and rural women participated in the webinar. Dr Puspa Bharati, monitored the programme and proposed vote of thanks. A wide range of programmes viz. webinar, online quiz for school children and women, online poster making competition for students are organized on the eve of National Nutrition Month-September-2020. Dr Sarojani Karakannavar and Dr Pushpa Bharati, Convener, Nutrition Society of India (Dharwad chapter) organized the webinar.

Entrepreneurship in “Early Childhood Care and Education”

A national webinar on Entrepreneurship in “Early Childhood Care and Education” was organized under NAHEP-IDP project on 5 October 2020 at UAS, Dharwad. Dr S. K. Srivastava, Director, ICAR-CIWA, Bhubaneswar, Odisha, in his inaugural

address opined that early childhood, defined as the period from birth to eight years, is the time of



National webinar on Entrepreneurship i of Early Childhood Care and Education

remarkable growth with brain development at its peak, wherein during this stage, children are highly influenced by the environment and hence maximum care should be exercised in bringing up and for their education and many enterprises are to be established. Dr Mahadev B. Chetti, Vice-Chancellor, during his presidential address expressed that nutrition of the children will influence the early childhood in making good and strong society, further he emphasized the role of parents-teachers entrepreneurs in the holistic development of young children, and told that a lot of scope is there under IDP for entrepreneurship in Early Childhood Care and Education (ECCE) as a start-up or enterprise. Dr Vishala Patnam, Rtd, Professor, said Children are the supreme assets of the nation and Early Childhood Care and Education are the pillars of Atma Nirbhar Bharat. Dr Sujata Gupta Kedar, Faculty of the department of Human development, Mount Carmel College, Bengaluru, briefed on the major issues of Early Childhood Education. Dr M. S. Rajalakshmi of Department of ECEA, Central Institute of HSc, Bengaluru, explained about different entrepreneurial opportunities for students in early childhood. The programme was organized by Dr Lata Pujar and Dr Vinutha U. Mukthamath,

Start-up Opportunities in Hi-Tech Vegetable Production

One day workshop on “Start-up opportunities in HI-Tech vegetable production” was organized on 13 October 2020 at UAS, Dharwad under Institutional Development Plan. Speaking on the occasion Dr M. B. Chetti, Vice-Chancellor,

UAS, Dharwad, opined that Hi-Tech horticulture has potential to boost Indian economy



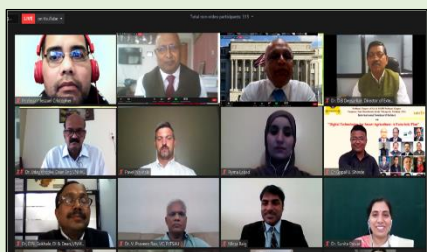
Webinar on Start-up Opportunities in Hi-Tech Vegetable Production

especially during COVID-19 situation that affected national income. Horticultural crops contribute about 30% to GDP from merely 13% of total cultivable area and have a high potential for value addition and foreign exchange earnings, he added. Dr Praveen Bhat, CEO, I & B, Bengaluru, expressed that students can start the industry in small scale and make steady progress. He further told that there are ample opportunities for start-ups in horticulture and stressed for Hi-Tech production of horticultural crops under cover as well as in open condition adopting modern technologies in horticulture. The programme was organized by Dr M. S. Biradar and Dr D. N. Kambrekar, under the guidance of IDP Coordinators.

VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI

Digital Technologies for Smart Agriculture

Online International Seminar on 'Digital Technologies for Smart Agriculture : A Futuristic Plan' was organized during 10 to 13 August 2020 by Centre for Advanced



Seminar on Digital Technology

Agricultural Science and Technology (CAAST) on Digital Farming Solutions for Enhancing Productivity by Robots, Drones and AGVs project sponsored by World Bank under National Agricultural Higher Education Project (NAHEP) of ICAR, New Delhi, in collaboration with Parbhani Chapter of ISA and ISGPB, Parbhani Chapter of VNMKV, Parbhani. Prof.

Dr Parag Chitnis, Director, USDA, NIFA, USA was the chief guest of the inaugural function while Dr A. S. Dhawan, VC, VNMKV, Parbhani presided over the function. Dr R.C. Agrawal, National Director, NAHEP, ICAR, New Delhi, Dr V. Pravin Rao, VC, PJTSAU, Rajendra Nagar, Hyderabad, Prof. Dr Pavel Navitski, Associate Professor, Department of Oral Roberts, University Tulsa, Oklahoma, USA; Prof. Jeszael Cristopher, Agricultural Science Faculty, National University of Rosario, Argentina were present as Guest of Honours. Convener of the seminar was Dr Prabhat Kumar, National Coordinator (CAAST), NAHEP, ICAR, Delhi, and Dr D. N. Gokhale, DI & Dean, VNMKV, Parbhani, Dr D B Deosaarkar, Director of Extension, VNMKV, Parbhani; Dr Gopal Shinde, PI, NAHEP VNMKV, Parbhani also attended the function.

In the inaugural address, Dr Parag Chitnis emphasized that there will be a great revolution in the global agriculture based on data science and artificial intelligence. The growing global population, changing climate, changes in people's income and diet, changing consumer needs are all affecting the agricultural sector. Under this background, there is a need for adequate, sustainable, safe, nutritious, economical, food production technologies compatible with our society and culture. In his presidential remarks VC Dr A. S. Dhawan emphasized that in order to survive global competition the Indian farmers will have to adopt smart farming and precision farming based on digital technology.

In this seminar, distinguish lectures from international and national institutes viz., Prof. Dr Parag Chitnis, Director, USDA, NIFA, USA; Prof. Dr Mostafa Al Kurdi, Director of Tyre Campus, American University of Technology, Lebanon; Dr Pavel Navitski, Associate Professor, Department of Oral Roberts, University Tulsa, Oklahoma, USA; Dr Mikhail Tatur, Byelorussian State University of Informatics and Radio Electronics, Minsk, Belarus; Prof. Jeszael Cristopher, Agricultural Science Faculty, National University of Rosario, Argentina; Dr Lav R Khot, Agricultural

Automation Engineering, Department of Biological Systems Engineering, Washington State University, WSU, USA; Dr Labad Ryma, Department of Agronomy, Ferhat Abbas University – Setif – Algeria; Dr. V Pravin Rao, VC, PJTSAU, Hyderabad; and Dr P.K. Ghosh, VC, NIBSM, Raipur, Chhattisgarh shared their knowledge and experience on various topics related to digital technologies for smart agriculture such as Internet of things (IoT) and integrated farming, online natural resource management, digital tools and equipment's in plant protection, digital agricultural marketing, advanced post harvesting, digital tools in plant genetics resource management etc. National and International PG and Ph.D. scholars, faculties, scientists of various SAUs, and Staff of Government Department participated in the webinar.

‘Entrepreneurs’ success stories of Agro-Processing Industry’

Online Webinar on ‘Agro-processing industry through digital technology:

Entrepreneurs' success stories' was organized during 27 July to 31 July 2020 by Centre



Webinar on Entrepreneurs

for Advanced Agricultural Science and Technology (CAAST) on Digital Farming Solutions for Enhancing Productivity by Robots, Drones and AGVs project sponsored by World Bank under National Agricultural Higher Education Project (NAHEP) of ICAR, New Delhi in collaboration with All India Food Processing Entrepreneurs Association, New Delhi and Farm to Fork Solution, Mumbai.

Shri Subhash Desai, Minister for Industries and Mining, Government of Maharashtra inaugurated the webinar, and Dr A. S. Dhawan, VC, VNMKV, Parbhani presided over the function. Shri Satish Soni, Director, Directorate of Agricultural Marketing, Pune, Shri Vilas Shinde, Director, Sayadri Farms,

Nashik and Dr R.C. Agrawal, National Director, NAHEP, ICAR were present as a Guest of Honours. Dr Prabhat Kumar, National Coordinator, NAHEP, ICAR, New Delhi; Dr D. N. Gokhale, DI & Dean, VNMKV, Parbhani, Dr A.R. Sawate, Associate Dean, CFT, VNMKV, Parbhani and Organizing Secretary Dr Rajesh Kshirsagar attended the function.

In the webinar, heads and directors of leading industries in the field of agro-processing guided participants, and the successful entrepreneurs shared their experiences in this industry. On the basis of webinar discussions, recommendations and policy issues to boost the agriculture and food processing industry in the state were submitted to the state government.

AWARDS

ANAND AGRICULTURAL UNIVERSITY, ANAND (GUJARAT)

BEST PAPER AWARD

Under Covid-19-time frame, above vital global conference

incorporated as high as 300 plus papers, out of which 47 were oral (key note/lead/oral)

presentations. It included high

number of participants from more than 15 countries including (1) World Food Prize Laureate 2020: Dr Rattan Lal, Distinguished Professor, from the Ohio State University, USA; (2) Distinguished experts from Tarbiat Modares University, Iran; European Society for Soil Conservation, Gent Belgium; Universita di Palermo, Italy; Ben Gurion University of the Negev-Beer Sheva, Israel; Belgrade University, Serbia; Lanzhou University, Lanzhou; Nazarbayev University, Kazakhstan; ICIMOD Nepal; APNI, Morocco ; CIMMYT, Bangladesh; Egerton, Kenya; University of Peradeniya, Sri



Certificate for Best Paper Award

Lanka; NSSS, Nepal; ICBA, UAE; Bhutan Govt.; and Central Luzon State University, Philippines (3) IITs, ICAR-Institutes, SAUs, CAUs, State Departments, GOI Depts., NGOs, students and others.

There were 5 Technical and 5 Poster Sessions; covering themes namely (1) Efficient Soil, Water and Energy Management under Diverse Ecosystems; (2) Innovative Approaches and Policy Responses for Agricultural Sustainability and Livelihood Security; (3) Biodiversity Conservation, Resource Management and Ecological Restoration for Sustainable Development ; (4) Precision Agriculture and Climate Smart Approaches for Sustainable Management of Resources; and (5) Precision Agriculture and Climate Smart Approaches for Sustainable Management of Resources. The qualitative and impact-full oral presentation from Dr M. L. Gaur and Er Bhavin Ram on 'River Pollution and Quantitative Dilapidation of Water Resources in Gujarat' was presented on last day (theme - 5) just before the high level talk given by World Food Prize-2020 winner, India- born scientist Dr Ratan Lal, Ohio State University, USA, on Climate-resilient agriculture for sustainable management of natural Resources and advancing agenda 2030 of the United Nations. In a tough competition, the presentation by Dr Gaur and Er. Bhavin was adjudged as the best oral paper presented in the said international web-conference.

G.B. PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR

Pantvarsity awarded with Best Institution award

G.B. Pant University of Agriculture and Technology, Pantnagar, has, for the third time, been adjudged as the best institution by the ICAR. The university has been awarded with the Sardar Patel Outstanding ICAR Institution

Award-2019 during the online 92nd foundation day celebrations of the ICAR on 16 July 2020. Union Agricultural

Minister, Shri Narendera Singh

Tomar, announced the award in the ceremony and presented ten lakh rupees, a citation and a robe of honour as prize. The Union Minister of State for Agriculture, Shri Parshottam Rupala was also present. This award is given from amongst all State Agricultural Universities (SAUs), Deemed-to-be Universities and Central Agricultural Universities of India. The award has once again established the consistency in quality of education, research and extension programmes of the university. Vice-Chancellor, Dr Tej Partap, attributed the award to the excellent performance of faculty members, staff and students of the university.



Certificate for Outstanding ICAR Institution Award

Four KVKs of Pantvarsity awarded

Four out of nine Krishi Vigyan Kendras (KVKs) under Pantnagar University were awarded for their excellent work amongst the KVKs of Zone I. The Zone I consists of Uttarakhand, Himachal Pradesh, Jammu and Kashmir, Punjab and Union Territory of Laddakh. KVKs of these states are governed by Agricultural Technology Application Research Institute (ATARI) of ICAR at Ludhiana. The online Regional Workshop of all KVKs of these states was held on 6-7 July 2020 in which KVK of Pantvarsity situated at Dhanuari (Haridwar) was awarded as second best KVK of Zone I. On the basis of review of work done by the KVKs during 2019-20, KVK, Pithoragarh, was adjudged as the best KVK of Uttarakhand. The officer incharge of KVK, Kashipur (U.S. Nagar), Dr J. Kwatra, and officer incharge of KVK, Jakhdar (Rudraprayag), Dr Sanjay Sachan, were honoured with first and second prize, respectively, for presentation of best work reports.

Pantvarsity scientists awarded

Dean, College of Technology, Dr Alaknanda Ashok, was honoured with the 'Principal of the Year 2020' award for her outstanding work in the field of agriculture, and Assistant Professor, Dr Amit Kesarwani, Department of Agronomy, College of Agriculture was honoured with the 'Teacher of the Year 2020' award. The awards were presented in the presence of Chief Secretary Uttarakhand, Secretary Education, Chairman Terminology Commission, Ministry of Human Resource Development, Government of India, Managing Director, UCOST, Vice-Chancellor, Sridev Suman University, Vice-Chancellor Uttarakhand Technical University and Joint Director, Uttarakhand Council of Science and Technology.

TAMIL NADU AGRICULTURAL UNIVERSITY, COIMBATORE

Jawaharlal Nehru Award won by Student

Dr Vinod Kumar Selvaraj, Ph.D student of TNAU was awarded with the ICAR-Jawaharlal Nehru award during the 92nd Foundation Day and Award Ceremony of the ICAR held on 16.07.2020 through Video Conferencing.

The ICAR awards for the year 2019 was presented through live stream in the presence of Shri Narendra Singh Tomar, Minister for Agriculture and Farmers Welfare and Shri Parshottam Rupala and Shri Kailash Choudhary, Ministers of State for Agriculture and Farmers Welfare and Dr Trilochan Mohapatra, Secretary (DARE) and Director General (ICAR) and other panel members. The award was received under the crop protection category for research work on 'Emergence of tobacco streak virus infecting cotton: Investigations on symptom expression, transmission, spread and management' under the chairmanship of Dr S. Nakkeeran,



Dr Vinod Kumar Selvaraj, awarded with the ICAR-Jawaharlal Nehru award

Professor (Plant Pathology), Department of Plant Pathology, TNAU, Coimbatore.

UNIVERSITY OF AGRICULTURAL SCIENCE, DHARWAD

AICRP Sorghum: Best Performing Award

All India Coordinated Project on Sorghum, Dharwad center of the UAS, Dharwad has been adjudged as "The Best



Best Performing Award

performing AICRP Sorghum Research Center" in the country for the period from 2017 to 2020 during 50th Annual Group Meeting (AGM) of AICRP on Sorghum held on 28 May 2020, considering the overall contribution of the center to *kharif* and *rabi* sorghum improvement in the country. The recognition is coincided with 50 years of sorghum research as the center commenced working during 1969. The center has contributed four hybrids and seven varieties of *kharif* sorghum, two hybrids and three varieties of *rabi* sorghum since its inception. Many crop production and protection technologies have been contributed by the center which enhanced the sorghum productivity both in the state and the country. Meanwhile, in this meeting, an early maturing *kharif* sorghum hybrid SPH-1883 developed by the center was recommended at national level for cultivation in four states, i.e., Karnataka, Andhra Pradesh, Madhya Pradesh and Gujarat.

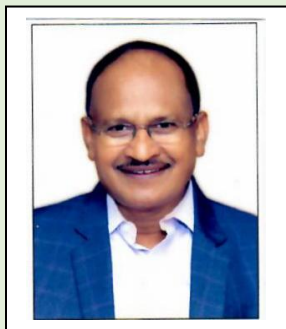
New Vice-Chancellor

NAVSARI AGRICULTURAL UNIVERSITY, NAVSARI

Dr Z. P. Patel

Dr Z. P. Patel, born on 1 May 1957, native of

Navsari, Gujarat did his Ph.D in Agricultural Entomology from the Gujarat Agricultural University, Anand (Gujarat) during 1994; B.Sc. (Zoology) from South Gujarat University, Surat; and M.Sc. (Agri.) in Agricultural Entomology from erstwhile Gujarat Agricultural University, Navsari. His career spread from Research Assistant to Dean in Navsari Agricultural University (NAU), Navsari– starting in 1980 and then in various capacities and lastly from January 2017 to May 2019. He possessed about 37 years of experience in research, education, extension and administration, and 26 years hands-on experience in Tribal belt. He joined as Vice-Chancellor of Navsari Agricultural University, Navsari (Gujarat) on 13 October 2020.



He had the Major contribution in the Pest Management having achievements in research on (i) Fruit Fly, having worked for 27 years on Fruit flies in Fruit crops and Vegetables, developed and commercialized fruit fly trap (Nauroji Stonehouse Fruit Fly Trap) in the University. His work on fruit fly gave him recognition as “Man of Fruit Fly” in academic and farming fraternity. (ii) Crop Pest Map in Sapota which guided farmers to implement IPM strategies more efficiently in time to protect the crop and reap higher income. (iii) Sapota Seed/Fruit Borer– An insect named *Trymalitis margarias*, a new insect was found first time in the world damaging the seed and fruit, by which it was brought to control by in depth research and extension work and saved the crop in Gujarat from its destruction. (iv) Bio-Control of Sugarcane Pyrilla, which is one of the most devastating pests of sugarcane in South Gujarat has been controlled by a very effective natural enemy, *Epiricania melanoleuca*, which ultimately proved as most successful example of bio-control of sugarcane Pyrilla in Gujarat.

He has guided 17 students i.e., 12 M.Sc & 5 Ph.D. He has also delivered numerous TV and radio talks. He was successful in creating large scale awareness among farmers regarding use of fruit fly trap.

Dr Patel has in his credits about 47 research paper published in referred journals, 3 books published, 4 papers presented in International seminar, 12 papers presented in National seminar, 10 Research technologies developed for farmers, 38 popular articles and booklets, 2 lead lectures delivered in National conference, 4 projects completed as Principle Investigator and 6 projects initiated as Principal investigator. He has acted as Chairman/Member/Convenor in many research, extension, academic forums of NAU, Navsari before joining as Vice-Chancellor NAU, Navsari.

During the tenure of his services he received awards, recognitions and appreciations the most coveted Research Excellence Awards from two consecutive Chief Ministers of Gujarat State: First by Shri Keshubhai Patel during 2000 (Sardar Patel Agricultural Research Award, GoG) for the Crop-Pest map in Sapota. Second from Shri Narendrabhai Modi in 2012 (Federation of Gujarat Industries Award) for the Fruit fly trap. Other awards include Significant Achievement Award by Rotary International, Gandevi in 2001 and Publication of success story “Integrated Pest Management for Higher Fruit Production” of RKVY in “Coffee Table Book” – a publication of GoI in 2012. He also has foreign exposure as attended 25 days international training at Israel and delivered lecture in UC Davis University of California, USA.

**SRI
VETERINARY
TIRUPATI**

**VENKATESWARA
UNIVERSITY,**

Dr Velugoti Padmanabha Reddy
Education

- **Post Doctoral Research** – Department of Food Science and Technology,

University of Nebraska, Lincoln,
USA- 2006-07

- **PhD** – Madras Veterinary College, TNUVAS, Chennai- 1989-1992
- **M.V.Sc.** – College of Veterinary Science, Hyderabad, ANGR Agricultural University – 1982-84
- **B.V.Sc.** - College of Veterinary Science, Tirupati ANGR Agricultural University – 1977-82



He started career in the Faculty of Veterinary Science as Research Associate in 1984 and continued his services in Sri Venkateswara Veterinary University, Tirupati in various capacities as Assistant Professor (13½ years), Associate Professor (08 years), Professor (10 years), and Senior Professor (04 years). He has unblemished administrative credentials as Associate Dean (02 Years); and Dean of the Faculty of Dairy Science (~04 Years).

As Major and Minor advisor, he guided several MVSc, MTech (DT and DM) and PhD students in the disciplines of Dairy Production, Dairy Processing and Dairy Microbiology. Published more than 45 research papers (11 International and 37 National) in peer reviewed journals with high NAAS ratings. Some of these research papers have been extensively referred and thus have high citation indices. Authored a book chapter, 5 laboratory manuals and 3 monographs.

As Principal Investigator, successfully attracted external research funding of ~ INR 2 crores from Indian Council of Agricultural Research, New Delhi and fruitfully completed NATP Research Project titled “Development of Bio-fortified Functional Dairy Products using Probiotic Cultures” and Multi institutional NAIP-I Project on “Development of e-Courses for the B. Tech (Dairy Technology) Degree Programme” and NAIP-II Project on “A Milk Value Chain for the Unorganized Sector”.

He is recipient of ICAR Senior Research Fellowship and Post-Doctoral Fellowship (1

Year) from University of Nebraska, USA, apart from FAO sponsored AHRDP overseas research training grant for 3 months and NAIP overseas training grant for 1 month. Awarded with Dr Kurein’s Gold Medal in PhD, and Andhra Pradesh State University Meritorious Teachers’ Award by the Government of Andhra Pradesh, and Sri Nalakantapuram Sreerama Reddy Gold Medal for Best Veterinary Scientist. Other honours to credit are Fellow of Indian Dairy Association; National Academy of Dairy Science (India); and Association of Public Health Veterinarians in addition to being member of several national scientific and professional societies.

Notably, served as Member of Board of Management of Karnataka Veterinary Animal and Fishery Sciences University, Bidar; Member of Research Advisory Committee for National Dairy Research Institute, Karnal; Member of Expert Panel on III party inspection of dairy plants registered under Milk and Milk Products Order-1992 under Export Inspection Agency-Chennai (EIC Scheme); Ministry of Commerce and Industry, Government of India; Also served as Member of Planning Board of Sri Venkateswara Veterinary University; Member of Board of Studies for Food Sciences in TANUVAS; Member of Board of Studies for Dairy Technology in SV University & Osmania University; Academic Council member of SV Veterinary University etc.

Expert member of selection committees of Universities like TANUVAS, KVAFSU, KVASU and ASRB for recruitment of faculty, contributed scientifically by being peer reviewer of national journals and editorial member of SVVU Research Journal. Acted as external examiner for setting question papers for competitive entrance examinations at National Institutions like NDRI, ICAR and other SAUs/SVUs.