



IAUA NEWS

QUARTERLY NEWSLETTER OF INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION

Volume 22 No.4

October-December 2022

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46th Annual Convention of Vice Chancellors of IAUA

The 46th Annual Convention of Vice Chancellors of member universities of Indian Agricultural Universities Association (IAUA) was organized by U.P. Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya evum Go-Anusandhan Sansthan (DUVASU), Mathura on the theme National Education Policy 2020: Implementation in Agricultural Universities, on 26-27 December 2023 at DUVASU, Mathura. The Vice Chancellors, Deans and Directors of about 45 Agricultural Universities from all over India participated in the convention. The chief guest of the inaugural session of this two-day programme was Hon'ble Governor, Uttar Pradesh Smt Anandiben Patel. Hon'ble Governor presided, over the programme in



Hon'ble Governor, Uttar Pradesh delivered inaugural address online

online mode, explained the importance of the new education system in the agricultural sector. In her address, she said that there is a dire need for agricultural universities in India to provide comprehensive solutions to the problems of farmers. The Guest of Honour of the programme, Dr R. C. Agrawal, DDG (Agric. Education), Indian Council of Agricultural Research, New Delhi, said that National Education Policy-2020 (NEP-2020) provides an opportunity to higher educational institutions, especially those engaged in technical education, to create such a system, which directly contributes to the transformation of the

country into a global knowledge superpower. Prof. A. K. Srivastava, Vice Chancellor of DUVASU while welcoming all the dignitaries in the program emphasized on the need of consultation on this subject to strengthen the current agricultural education system of the country. He also said that the aim of this education system is to develop the best professionals having the ability to think and act logically with scientific temper and creative imagination.

During the two-day convention, three technical sessions were conducted where intensive discussions

were held to implement the new education system in agriculture and related

subjects. The topics of

discussions during sessions were— NEP 2020 Implementation in AUs; Implementation of National Education Policy-2020 for Undergraduate Studies; Technology-enabled Interventions and Strategies for Implementation of New Education Policy; Agribusiness Opportunities in Agriculture; Short Term & Certificate Courses for Skill Development in Agriculture; Skill Development and Short Courses in Animal Husbandry Sector; and Aligning Agricultural Education with National Education Policy for Atmanirbhar Bharat. The second day of the convention started with launch of International Millet Year-2023, wherein the importance and significance of millets and their availability and benefits were outlined by Dr V. Geethalakshmi, Vice Chancellor, Tamil Nadu Agricultural University, Coimbatore. The conference ended with valedictory cum plenary session on 2nd day where Cabinet Minister Agriculture, Agricultural Education and Agricultural Research, Government of Uttar Pradesh, Shri Surya Pratap Shahi graced the occasion as



'Jal Bhara' ceremony during inaugural function of the convention

Chief Guest. Shri Shahi underlined the importance of millets and using the food made from coarse grains in our daily life. Along with this, he emphasized on the implementation of the new education policy in the agricultural higher education sector. Dr Rameshwar Singh, President, IAUA and Vice Chancellor, Bihar Animal Science University, Patna, presented report of the two-day and presented his views on the new education policy in the agricultural higher education sector. It was concluded that there is a need to adopt new education system to bridge the current gap between various stakeholders for attaining highest quality, equity and integrity in the higher education sector related to agriculture in the country.

The Annual General Body Meeting 2022 (AGBM-2022) of Indian Agricultural Universities Association (IAUA) was also conducted on 25 December 2022 at DUVASU, Mathura during the convention. Dr Rameshwar Singh, Vice chancellor, BASU, Patna and President, IAUA Chaired the meeting. Dr N. P. Dakshinkar, Secretary General, IAUA; Dr N. H. Kelawala, Member, Executive Committee of IAUA were present in the AGBM.

At the outset, Dr Rameshwar Singh, President, IAUA welcomed all in the Annual General Body Meeting of 2022 and thanked Dr A. K. Srivastava, Vice Chancellor, DUVASU, Mathura for hosting the 46th Vice Chancellors' Convention. He also thanked all the participating Vice Chancellors their representatives for attending the programme. In his initial remarks he appreciated the activities carried out by the IAUA and member universities. Later, the listed agenda items were discussed and decisions were taken on these.



GB Meeting convened on 25 December 2022.

9th Regional Meeting of IAUA

The 9th Regional Meeting of Indian Agricultural Universities Association (IAUA) was organized on “NEP-2020: Importance and Feasibility of Short Term and Certified Courses in Agricultural Universities”, at Navsari Agricultural University (NAU), Navsari, Gujarat on 23-25 November 2022.

The inaugural ceremony of the 9th Regional Meeting was blessed by the virtual presence of Shri Kailash Choudhary, Minister of State for Agriculture and Farmers Welfare, Government of India as Chief Guest; Dr Z. P. Patel, Vice Chancellor, NAU, Navsari as President; Dr Kishor Singh Chanda, Vice Chancellor, Veer Narmad Singh Gujarat University (VNSGU), Surat and Shri Kiranbhai Patel, Jt. M. D., ASPEE Group of Companies as Guest of Honour; Dr Rameshwar Singh, Vice Chancellor, BASU, Patna and President, IAUA; and Dr Dinesh Kumar, Executive Secretary, IAUA as Special Guest.

The Vice Chancellors of Agricultural Universities including horticultural and Animal Science/Veterinary universities of India participated in the Meeting, shared their



MoS for Agriculture & Farmers' Welfare delivering inaugural address (virtually)



Release of publication during the inaugural programme



Group photo of the meeting

experiences and knowledge. The deliberations were made mainly focused on the theme of the Meeting during following sessions based on three sub-themes apart of inaugural and plenary sessions:

Session 1: Conceptualizations of certified courses in Agricultural Universities for technical and vocational skill development education.

Session 2: Challenges and opportunities of NEP for development of short-term certified courses in Agricultural Universities.

Session 3: NEP-2020- Developing future skills.

The Vice Chancellors, made their representatives in above mentioned three sessions.

Vice Chancellors/their representatives of around 30 universities from Andhra Pradesh, Bihar, Chhattisgarh, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Jharkhand, Karnataka, Maharashtra, Punjab, Rajasthan, Tamil Nadu attended the meet.

NEW TECHNOLOGIES

A. CROP and HORTICULTURAL SCIENCES

The agricultural universities made earnest efforts to develop new technologies in Crop and Horticultural Sciences, which included varieties/hybrids; machines and equipments; products and processing; and package of practices as discussed here.

VARIETIES/HYBRIDS

Assam Agricultural University (AAU), Jorhat

Rice

AAU-TTB Dhan (Dholi)

- Yield: 5,000-5,500 kg/ha.
- Released for Assam (*Kharif*-transplanted).
- Medium slender grain, good tillering, duration 130-135 days.
- Submergence tolerant.

Black gram

AAUSBC 40 (Shymal)

- Yield: 1,500 kg/ha.
- Released for Assam (*Kharif*).
- Medium maturity, resistant to *Cercospora* leaf spot (CLS) and mungbean yellow mosaic virus disease.

Green gram

AAUSGC 16 (Rupohi)

- Yield: 1,300 kg/ha.
- Released for Assam (*Kharif*).
- Medium maturity, resistant to *cercospora* leaf spot (CLS) and mungbean yellow mosaic virus disease.

Acharya N. G. Ranga Agricultural University (ANGRAU), Guntur

Improved varieties (17) of the university in different field crops have been released at the state level (10 varieties) and at national level (7 varieties). These are:



Rice

- **MTU 1318** and **MTU 1232**: Moderately resistance to Blast and BPH; MCM 103- Moderately tolerant to blast, sheath blight and WBPH.
- **MTU 1273** and **MTU 1293**: Moderately resistant to blast and brown spot.
- **MTU 1310** and **MTU 1321**: Moderately resistant to blast).

Finger millet

- **VR 1099**: Resistant to finger blast, neck blast and banded sheath blight.
- **CFMV 4**: Resistant to leaf blast, moderately resistant to neck blast, brown spot, banded sheath blight and foot rot diseases. Moderately resistant to stem borer, ear head caterpillars myllocerus weevil and grass hoppers and tolerant to lodging.

Greengram: LGG 574 and **LGG 607**: Resistant to mung yellow mosaic virus.

Besides, two varieties in Cotton (NDLH 2035-5 and LHDP 5), and one each in Foxtail Millet (SiA 3159), Blackgram (LBG 884), bengalgram (NBeG 776) and Groundnut (TCGS 1694) were released and notified.

Germplasm Registered

Five ragi germplasm lines resistant against blast (INGR 21048, INGR 21047, INGR 21044, INGR 21133, INGR 21132) and one sama line (INGR 21131) for short duration are registered with NBPGR.

Birsa Agricultural University (BAU), Ranchi**Linseed****Birsa Tisi 2 (BAU 14-09)**

- Suitable for rainfed condition in Jharkhand.
- Maturity: 128-129 days.
- Flower colour blue with bold capsule.
- Average yield: 13-14 q/ha.
- Yield potential: 19-20 q/ha.
- Oil content: 42-43 %.

- Resistant to rust and moderately resistant to wilt, powdery mildew, *Alternaria* blight and bud fly.

Professor Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad**Rice****Rajendranagar Vari-3 (RNR 15459)**

- Duration 135-140 days with yield potential of 4.0 - 4.5 t/ha.
- Aromatic short bold variety, moderately resistant to leaf blast, whorl maggot, good cooking quality.
- Recommended for the state of Telangana.

**Rajendranagar Vari-4 (RNR 21278)**

- Duration 115-120 days with yield potential of 6.5 t/ha.
- Dwarf and tolerant to lodging, moderately resistant to blast, good cooking quality.
- Recommended for the state of Telangana.

**Rajendranagar Vari-5 (RNR 29325)**

- Duration 120 -125 days with yield potential of 7.5 t/ha.
- Dwarf and tolerant to lodging, moderately resistant to BPH and leaf blast.
- About 5 % higher head rice recovery even during *rabi* compared to other popular LS varieties.
- Recommended for the state of Telangana.

**Jagtiala Vari-2 (JGL 28545)**

- Duration 135 days with yield potential of 7.5 t/ha.
- Tolerant to neck blast, BLB and sheath rot.
- Very good cooking quality.
- Recommended for the state of Telangana.

**Jagtiala Vari-3 (JGL 27356)**

- Duration 130 - 135 days with yield potential of 7.0 t/ha short slender grain type.
- Tolerant to neck blast and sheath rot.
- Very good cooking quality.
- Recommended for the state of Telangana.

**Sesame****Jagtiala Til-1 (JCS 1020)**

- Duration 85 - 95 days with yield potential of 10.5 – 11.0 q/ha.
- High unsaturated fatty acids, viz. 42.84 % oleic acid and 40.91% linoleic acid.
- Moderately resistant to powdery mildew, *Cercospora* leaf spot and phyllody.
- Recommended for the state of Telangana.

**Blackgram****Madhira Minumu-01 (MBG 1070)**

- Duration 75 – 80 days, with yield potential of 14 – 15 q/ha.
- Synchronous maturity, highly resistance to urd leaf crinkle virus, leaf curl virus, web blight, *Cercospora* leaf spot, bacterial leaf spot, anthracnose.
- Resistant to YMV and maruca pod borer.
- Recommended for the state of Telangana.



Sher-e-Kashmir University of Agricultural Sciences and Technology (SKUAST), Kashmir

Rice**Shalimar Rice-6 (SKUA-485)**

- First variety developed through DNA Marker-assisted selection from SKUAST-K.
- Genetically improved version of Mushk Budji (short grained aromatic heritage Landrace) carrying three dominant genes for blast resistance (*Pi54+Pi1+Pita*).
- Similar amylose content (16%) and aroma as of Mushk Budji.
- Grain yield (45 q/ha).
- Resistant to rice blast against check Mushk Budji (that records ~70% yield loss).
- Ecofriendly: Candidate for organic rice.
- Released for Jammu and Kashmir.

Wheat**Shalimar Wheat-3 (SKW-356)**

- Recommended for plains to mid hills of Kashmir valley (up to 1,750 m amsl).
- Average yield: 32.3 q/ha with superiority of 21.4% over check (Shalimar Wheat 2).
- Earliness by 10 days over check (Shalimar Wheat 2).

- Moderately resistant to yellow rust disease.
- Protein content: 11.9%
- Zinc content: 43.8 ppm.
- Released for Jammu and Kashmir.

Maize

Shalimar Maize Hybrid-5 (IMH 221 DMH 1417)

- An inter-institutional, collaborative single cross hybrid between SKUAST-K and IIMR-Ludhiana.
- First hybrid for rainfed ecologies (85%) of J&K (1,550-1,850 m amsl).
- Early maturing hybrid with, average yield: 74q/ha (superiority of 21% over the check SMH 2).
- Resilient to moisture stress and recommended by NICRA for climate smart village programme.
- Resistant to charcoal rot, *Fusarium* stalk Rot, stem borer and *Turcicum* leaf blight disease.
- Protein content: 9.02% against 8% for normal maize.
- The optimum seed production ratio: 1 male: 2 female for realizing hybrid seed yield of 25 q/ha.
- Released for Jammu and Kashmir.

Chickpea

Shalimar Chickpea-2 (SKUA-WCKP 101)

- Desi green seeded chickpea variety.
- Average yield: 15.50q/ha.
- Maturity in 99 days. Stay green habit.
- Protein content: 27% and rich in micronutrients (Zn and Fe).
- Resistant to *Fusarium* wilt and *Ascochyta* blight.
- Also suitable for green vegetable.
- Released for Jammu and Kashmir.

Cowpea

Shalimar Cowpea-2 (SKUA-WCP 149)

- Drought tolerant variety with high protein content (26.36%).
- Recommended for ecologies of J&K (up to

1,650 m amsl).

- Average yield potential: 12 q/ha.
- Resistant to the cowpea mosaic virus and *Ascochyta* blight.
- Resistant to major insect pests, viz. white fly, pod borer and aphids.
- Early maturing: 111 days; fits in *rabi* crop rotation.
- Released for Jammu and Kashmir.

Ghobi Sarson

Shalimar Ghobi Sarson-1 (KGS-32)

- Gobhi sarson variety for Kashmir; better in oil quality compared to Brown sarson.
- Ease of seed production on account of its often-cross pollinated nature.
- Early maturing, high yielding (12.5 q/ha) with superiority of 15.40% over the check (Shalimar Sarson 1).
- Recommended for low to mid altitudes: 1,500-1,800 m amsl.
- Oil content: 39.03% across locations.
- Resistant to *Alternaria* blight, powdery mildew and moderately resistant to aphids
- Released for Jammu and Kashmir.

Soybean

Shalimar Soybean-2 (SKUA-WSB 101)

- Economic and nutritional potential for human consumption as soy milk, soy flour, soy protein and tofu.
- Average yield: 23.30 q/ ha.
- Matures in 135 days. Protein content of 39.38%.
- Resistant to the soybean mosaic virus and *Ascochyta* blight.
- Resistant to major insect pests, viz. flea beetle, white fly, pod borer and aphids.
- Suitable for double cropping.
- Released for Jammu and Kashmir.

Rajmash

Shalimar Rajmash 4 (SKAU-WB-341)

- Pole type variety for maize based intercropping system.
- Early maturing (84 days); recommended up

to 2,200 m amsl.

- Average yield of 13.36 q/ha.
- Resilient to water stress.
- Resistant to bean common mosaic virus (BCMV), leaf curl virus, and angular leaf spot.
- Protein content: 18%. Micronutrient rich with antioxidants and low phytic acid (anti-nutritional factor).
- Easy threshing, medium cooking time and has better organoleptic score.
- Released for Jammu and Kashmir.

MACHINES and EQUIPMENT

ANGRAU, Guntur

Pushpak Drone

ANGRAU is the first University to develop PUSHPAK 01 drone for spraying of pesticides and PUSHPAK 02 drone for seeding and granular fertilizer dispensing. At Acharya NG Ranga Agricultural University, during 2020-21, to solve the problems of labour shortage for spraying, seeding and fertiliser dispensing, specifications for a highly stable, suitable and efficient drone were developed; and they built their own drones called ANGRAU – PUSHPAK 01 for spraying purposes. It sprays any pesticide in 6 minutes over an acre with 10 litres of spray fluid volume/acre @ cost of 300/acre. ANGRAU –PUSHPAK 02 series drones were developed for direct sowing of rice, blackgram, greengram, millets, sorghum, green manure crops, etc. in 5 min per acre @ 8-20 kg seed / up to 32 kg fertilisers (granular DAP, granular urea, etc.). The latest update during 2022 is that ANGRAU has developed and built a Multi Utility Drone, which can do all three



operations (spraying, seeding and fertiliser dispensing) from a single drone platform called ANGRAU – PUSHPAK.

Aflatoxin Testing Kit

Rapid testing kit (LFIA-lateral flow immune assay) were developed to instantly diagnose aflatoxins in various agricultural products. Farmers themselves can diagnose the aflatoxins in their field within 15 minutes. The LFIA device works with competitive ELISA principle, and this is the first kind of lateral flow device developed for detection of aflatoxins in agricultural produce with a single suitable extraction matrix in India. This is the outcome of nanotechnology and biotechnology.

SKUAST, Kashmir

SKUAST-Kashmir Launches Maiden Agricultural Drone A Step Towards Digital Agriculture

SKUAST Kashmir added another feather in its cap by using drone for the first time for aerial surveillance, mapping, land inspection for diseased/rotting crops at valley's high-altitude Krishi Vigyan Kendra, Kulgam. Drones fitted with terrain-following and collision-avoidance sensors help it sail through the orchards for even spray. The live demonstration was supervised by Vice



Chancellor, Prof. Nazir A Ganai and Director Extension, Prof. D.M. Makhdoomi. Staff of the Kendra, progressive farmers, orchardists, research scholars and students witnessed the drone operation at the KVK farm. Agriculture sector in the country is moving towards precision farming and is witnessing use of modern technologies like sensor based-irrigation, drones, indoor farming, etc. for better yield and cost-effective farming, said the Vice Chancellor. Prof. D. M. Makhdoomi

congratulated the Kendra for drone technology adoption and desired its popularization at other extension centres for greater adoption by the farmers. Head, KVK, Kulgam Dr Manzoor A Ganai thanked the university and district administration for their support.

PRODUCTS and PROCESSING

AAU, Jorhat

AAU VET Mumb

Department of Veterinary Parasitology, College of Veterinary Science, AAU, Jorhat developed an herbal anthelmintic to cure



gastrointestinal nematode infection of meat and wool animals. The co-evolution of resistant parasites due to continuous use of mainstay warranted the development of this herbal medicine for the strategic control programme. The AAUVET MUMB contains herbal anthelmintic @ 1 kg block for 12 animals. Application of this anthelmintic – reduces worm burden, increases body weight gain, improves value of blood and biochemical parameter, and reduces pasture contamination. This product has 100 % efficacy to control gastrointestinal nematodosis in goat similar to Ivermectin.

AAU VET Chicken Powder

The AICRP on Post Harvest Engineering and Technology Centre, Khanapara, AAU, Jorhat developed AAU VET Chicken Powder, a dry pulverized shelf stable product with around 5% moisture content, which can be kept at room temperature with a minimum



shelf life of 6 months. This powder can be – used for preparation of various value-added products like chicken bhujia, cookies, incorporated in infant food, mother's diet, consumed in the form of chutney, soup, etc. The product contains 68.55% crude protein, 11.15% crude fat and a calorific value of 396.25 cal/100g.

AAU VET Dog Loaf

The AICRP on Post Harvest Engineering and Technology Centre, Khanapara, AAU, Jorhat developed the AAU VET Dog Loaf. Dog loaf is ready to eat pet food akin to bread consumed by human



beings. The product is handy, easy to handle and cheaper. The final product contains 17.13% crude protein and 2.54% crude fat and a calorific value of 186.56 cal/100g. The shelf life of the product at refrigeration temperature ($4\pm1^{\circ}\text{C}$) is 7-10 days. However, it can be preserved for 2 months at a temperature of -20°C in the deep freeze.

SKUAST, Kashmir

Indoor Saffron Technology

For ages, saffron cultivation is confined to the Saffron Town of Kashmir Pampore with limited introduction in Budgam and Kishtwar districts of the Union Territory of Kashmir. Saffron has traditionally been associated with



famous Kashmiri cuisine besides being used in religious rituals. However, its production is on a decline due to a decrease in land under cultivation and weather fluctuations (erratic precipitation and humidity leading to corm rot disease and deviation in mean air temperature to flower abortion). Advanced Research Station for Saffron and Seed Spices, Konibal Pampore, SKUAST-K researched a sustainable solution to tide over the problems. Indoor Saffron Cultivation is the new boulevard under changing climatic conditions. This novel technology offers an opportunity for all regional and global players to venture into this business. SKUAST-K is collaborating with Western Sydney University, Australia for furthering high-end research in saffron and other seed spices. On the Saffron Day at the station, Vice Chancellor SKUAST-K Prof. Nazir A Ganai congratulated scientists for developing the Indoor Saffron Technology, and said that under scarce land resources this technology will promote vertical saffron farming and open up entrepreneurial opportunities for small and marginal farmers. A bouquet of saffron flowers grown at the research station was recently gifted by Shri Manoj Sinha, Lt Governor J&K to Prime Minister of India, Shri Narendra Modi.

B. ANIMAL and FISHERIES SCIENCES

Various technologies developed in Animal and Fisheries Sciences by the universities are given here.

BAU, Ranchi

BAU Scientist Discovered New Species of Pig Banda

The National Bureau of Animal Genetic Resources, Karnal (Haryana) has recently registered the new species of pig 'Banda' discovered by BAU scientist. It has been given the accession number India_pig_2500_09011. BAU Veterinary scientist Dr Ravindra Kumar

discovered this breed with tireless efforts and research of 8-10 years. He achieved this feat under the direction and guidance of Dean Veterinary, Dr Sushil Prasad and Chief Scientist of National Pig Research Centre, Guwahati, Dr Shantunu Banik.

Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana

Department of Aquatic Environment, College of Fisheries, GADVASU, Ludhiana, developed Nano Immunostimulant for Fish: Chitosan Nanoparticle for improving the immunity of fish and resistance against the fish pathogen(s).

Sardar Vallabhbhai Patel University of Agriculture & Technology (SVPUAT), Meerut

- Products and processing: An Area Specific Mineral Mixture for Meerut district was developed by the department of Animal Nutrition.
- New technology: Use of rumen digesta waste from slaughterhouse as an alternative local protein source for ruminants and poultry birds, by the department of Animal Nutrition.

TEACHING

Anand Agricultural University (AAU), Anand

Certificate Course on Statistical Analysis using R Software

A Certificate Course on "Statistical Analysis using R Software" was successfully conducted by Centre for Agricultural Market Intelligence under NAHEP-CAAST, International Agri-Business Management Institute, Anand Agricultural University, Anand from 09-22

November 2022. Dr D. R. Kathiriya, Course Director, welcomed all dignitaries and described the significance of the course. Dr M. K. Jhala, Director of Research and Dean PG studies, AAU highlighted the data visualization as well as importance and popularity of R language. The Chief Guest of the program, Dr Anuradha Agrawal, National Coordinator, NAHEP-CAAST, ICAR, New Delhi, praised the activities of the Centre and highlighted this Centre as one of the top performers of India. She also mentioned in her address the significance of large data and its analysis in agricultural research. Dr K. B. Kathiria, Vice Chancellor, AAU, Anand emphasised the importance of programming languages like Python and R for data analysis.



Vice Chancellor, AAU, Anand and other dignitaries of AAU and NAHEP-CAAST at the inaugural session of Certificate Course

Certificate Course on e-Content Development using Multimedia'

A Certificate Course on e-Content Development using Multimedia was organized from 28 December to 10 January 2023 by Centre for Agricultural Market



Participants during technical session

Intelligence under NAHEP-CAAST, International Agri-Business Management Institute, AAU, Anand. The inaugural session was chaired by Dr M. K. Jhala, Director of Research and Dean of PG Studies, AAU. In his address, he emphasized the importance of multimedia tools for e-content and e-learning and motivated and

encouraged participants about knowledge sharing and decision making. Dr Dhaval Kathiriya, Course Director, welcomed all dignitaries and described the significance of the course. Dr R. S. Pundir, PI, NAHEP-CAAST provided a brief overview of the project. Dr Gautam R. Patel, AAU Registrar, highlighted the various courses and activities of the university and introduced newly developed PG course on Data Analytics. The Chief Guest, Dr Bhailal P. Patel, Registrar, Sardar Patel University, Vallabh Vidhyanagar talked about the importance of the certificate course, particularly for agricultural students. Dr D. K. Parmar, Course Coordinator concluded the session with a vote of thanks. Total 48 technical sessions were conducted in 12 day by external and internal resource persons followed by Q & A and feedback sessions. Total 42 participants including 05 faculties and 37 PG students were registered.

Under NAHEP-CAAST for Capacity Building AAU, Anand started following six Certificate Courses:

- Data Analytics using Python
- Statistical Analysis using R Software
- e-Content Development using Multimedia
- Statistical Analysis using SPSS Software
- Agricultural Market Intelligence
- Agricultural Insurance

Besides, AAU, Anand is also going to introduce Post Graduate Diploma in Data Science under the Faculty of Agricultural Information Technology.

ANGRAU, Guntur

- NCC Cadets of Agricultural College, Bapatla participated in 4 days CATC-VI Annual training camp at NATCO School of learning, Gollamudipadu.
- Organized a motivational programme for PG and Ph.D. students in association with Ramakrishna Seva Samithi, Bapatla on 11 November 2022.

BAU, Ranchi**106 BAU Students Crack ICAR - AIEEA Exam - 2022**

In the second consecutive year, the graduate students of Birsa Agricultural University, Ranchi have excelled in the AIEEA PG Entrance Competitive Examination – 2022, organized under the auspices of the Indian Council of Agricultural Research (ICAR), New Delhi. This year, 106 students of the university got success in the AIEEA-2022 examination.

Vice Chancellor, Dr Onkar Nath Singh expressed happiness over the immense success achieved by the students and congratulated the successful students.

Dr Rajendra Prasad Central Agricultural University (Dr RPCAU), Pusa

- 225 Under Graduate, 39 Post Graduate, 11 Ph.D. students completed their respective degree programmes during October to December 2022.
- On campus 10-week experiential learning program (Students READY) of 7th semester of B.Tech. (Agril. Engg.) in different disciplines of farm machinery and power engineering, soil water engineering and processing and food engineering were conducted in College of Agriculture Engineering and Technology (CAET).
- **Board of Studies:** The 6th Meeting of Board of Studies of the CAET was organized on 11 October 2022.
- **Academic Council meeting:** The Academic Council meeting was held on 1st November 2022 to discuss and finalize recommendation for improvement in academic programme and proper functioning of academic activities.

GADVASU, Ludhiana

- Five undergraduate students from College of Veterinary Science, GADVASU along with their training coordinator, Dr Anuradha Gupta, Professor, Department of Veterinary Anatomy attended an international training programme on “**Sustainable Management of Animal Diseases in Subtropical Scenario**” at Federal University of Minas Gerais, Brazil. The training was sponsored by the World Bank and NAHEP, ICAR funded Institutional Development Plan (IDP) operational at the University.

- Dr S. N. Datta, Assistant Professor, College of Fisheries attended three months international training at Department of Aquaculture & Fisheries, University of Arkansas, Pine Bluff, USA under ICAR-NAHEP

**Dr S. N. Datta**

programme in area of Capacity building in high intensive aquaculture technologies.

- Professor Dr Soottawat Benjakul, Director of International Centre of Excellence in Seafood Science and Innovation (ICE-SSI), Prince of Songkla University (PSU), Thailand and Dr

**Faculty and students with visiting Professors**

- Kartik Baruah, Associate Professor, Research Group Leader, Aquaculture Nutraceuticals Research Group, Swedish University of Agricultural Sciences (SLU), Sweden visited College of Fisheries, GADVASU as an International Visiting Professors under ICAR-NAHEP IDP project.
- College of Dairy Science and Technology (CODST), GADVASU hosted a Visiting Professor Dr Anthony Richard Blencowe, the Group leader of Applied Chemistry and Translational Biomaterials at the University

of South Australia (UniSA), Adelaide, Australia. Dr Blencowe interacted with students and educated them in diverse research areas encompassing anti-microbial polymers and interfaces, biomaterials for the controlled delivery of drugs, cell therapies and 3D printing for giving impetus to laboratory research activities.

Kamdhenu University (KU), Gandhinagar

VIDHYARAMBH

First Year Student Orientation Programme was organized by Academic Branch of the College of Veterinary Science & AH, KU Anand campus on 02 November 2022 under the title "VIDHYARAMBH". It was a 15-day programme with orientation and introduction of the fresh students to different branches and the departments of the college. Inauguration function was held on 02 November 2022 under the chairmanship of Principal & Dean Dr P. H. Tank.

10th Valedictory Functions

- The 10th valedictory function was organized at College of Veterinary Science & A.H., KU, Junagadh campus for outgoing graduating batch (2021-2022) of 46 students. Dr R. H. Bhatt, Associate Professor & Head, VCC presented welcome address and the President of the function, Dr P.H. Tank, Dean, Faculty of Vety. Sci. &



Dr P.H. Tank



Awards & certificates distribution

A.H., KU, while delivering the presidential speech congratulated students for successful completion of degree programme.

- The 10th Valedictory function of Graduating Batch of College of Veterinary Science & Animal Husbandry, Kamdhenu University, Navsari

campus was organised on 21 December 2022. The function was dignified by



gracious presence of Chief Guest Dr M. M. Trivedi, Registrar, Kamdhenu University, Gandhinagar; Guest of Honor Dr A. S. Jadav, Deputy General Manager, SUMUL Dairy, Surat; Dr V. B. Kharadi, Principal, College of Veterinary Science and A.H., Kamdhenu University, Navsari; and Dr Gopal Puri, UGT Chairman of the College. Dignitaries blessed the outgoing students and gave them useful advice for a successful professional career.

- The university lecture tour on "Lighting ideas that inspire!" under the banner of Alltech Idea Pool was organised at Kapila Complex, College of Veterinary Science and Animal Husbandry, KU, Anand campus on 11 November 2022. In this program, all the faculty members, PG Residents, Postgraduate Scholars, and final year students participated.
- College of Veterinary Science and Animal Husbandry, Anand campus, KU had started "ICAR - All India Entrance



Examination for Admission to Masters Programme (ICAR- AIEEA PG) Coaching" for national level competitive examination for the final year UG students to get admission in M. V. Sc. with fellowship in reputed

institutes of India. The coordinators for coaching in Veterinary Science and Animal Sciences were Dr R. A. Mathakiya and Dr M. M. Islam, respectively.

Education Tour

Educational tour was organized for fourth year undergraduate students of the college of veterinary & AH, Navsari campus as per the VCI course curriculum for the practical teaching of various activities related to collection and examination of male genital organs for the subject of Veterinary Gynecology & Obstetrics at slaughter house, Surat and for various activities related to wild life conservation for the subject Veterinary Medicine at Municipal Zoo at Surat on 14 December 2022. The educational tour was successfully managed by Dr C. T. Khasatiya; Dr L. C. Modi and Dr S. V. Mavadiya. Seventy-four students attended the programme.



PJTSAU, Hyderabad

Student Radio Programme

Under *Chenukaburlu*, 13 programmes were produced by the students of constituent colleges of the University. These were broadcast through All India Radio (Hyderabad-A) on every Wednesday (1.30 to 2.00 pm) in the name of *Gruha Vignana Tarangini / Vyavasaya Vignana Tarangini*.

Nomination for Asian Seed Congress

Ph.D. student Ms M. Jwala Pranati, Dept. of Genetics & Plant Breeding, College of Agriculture, Rajendranagar, Hyderabad, PJTSAU, was nominated to attend Asian Seed Congress scheduled on 14-16 November 2022 at Bangkok. She shared her perspective on the theme – Perspective on How to make seed sector more attractive: A perspective from young talents in APAC.

Inauguration of Augmented and Virtual Reality Laboratory

Sri Joginapally Chandrasekhar, an alumnus of 1967 batch, PJTSAU, inaugurated the Augmented and Virtual Reality Laboratory at College of Agriculture, Rajendranagar on 16 December 2022 to facilitate practical training to the students.



EVENTS and ACTIVITIES

AAU, Anand

Workshop

Workshop on Dairy & Food Product Market Intelligence

Centre for Agricultural Market Intelligence under NAHEP-CAAST, International Agri-Business Management Institute (IABMI), Anand Agricultural University, Anand organized three-day Workshop on Dairy & Food Product Market Intelligence on 15-17



Vice Chancellor, AAU addressing the participants

December 2022 at IABMI, AAU, Anand. The inaugural session of the workshop was graced by the Vice Chancellor, Dr K. B. Kathiria as the President and the Chief Guest, Shri Amit Vyas, Managing Director, Amul Dairy. Dr K. B. Kathiria explained why market intelligence is important in fruits and vegetables. He also asked the researchers to focus on the demand-based development of the new varieties. Shri Amit Vyas suggested the correct direction to proceed with the three-day workshop with a brief on the live examples of Market Intelligence

and how Amul became successful using the pillars of Innovation, Quality and Consistency. Director of Research, Dr M. K. Jhala said that the AMUL model can be replicated in the fruits and vegetable sub sector by making it more organized. A total of 176 participants including 34 faculties and 142 students attended the program.

Training

Capacity Building on Mass Production of Biocontrol Agents

AICRP on Biological Control of Crop Pests, Anand Agricultural University, Anand organized a training programme on capacity building on mass production of biocontrol agents in collaboration with Centre for Agriculture and Bioscience International (CABI), South Asia & Better Cotton Initiative (BCI), India during 10-15 October 2022 under the guidance of Vice Chancellor, Dr K. B. Kathiria. The prime objective of the training programme was to impart practical skills and hands-on-training on mass production of biocontrol agents to the technical staff/master trainers of the organization BCI-India. 30 trainees from different states of India participated in the programme.



Trainees of the program

Demonstration of Insecticide Application Using Drone Technology

A demonstration on insecticide application by using drone technology was organised by Department of Agricultural



Expert briefing about drone application

Entomology, B. A. College of Agriculture, Anand on 29 November, 2022 in the auspicious

presence of Vice Chancellor of AAU, Dr K. B. Kathiria.

The occasion was graced by the presence of university officers. The Vice Chancellor informed that the University is stepping up with the innovative technologies and planning to purchase capacitive drones to carry out novel research work. A representative from Bayer Crop Science Limited, Bengaluru, addressed the gathering and discussed about the applicative measures, specifications and SOPs of drone operations. The demonstration was conducted by spraying insecticide over an area of approximately one acre of cotton crop using drone.

Vocational Training on Scientific Poultry Farming

A vocational training programme of 7 days duration on Scientific Poultry Farming, was organized by Krishi Vigyan Kendra, Dahod of AAU from 26 December to 01 January 2023. The trainees got hands-on practical experience in vaccination, debeaking and other routine chores involved in poultry farming at KVK's Poultry unit. A one-day exposure visit was organized wherein in the participants were shown a live demonstration of the workings of a hatchery at Department of Animal Husbandry, Dahod. The training programme was attended by 60 enthusiastic farmers.

Conference

International Conference on 'Weed Problems and Management Challenges: Future Perspectives'

Indian Society of Weed Science, Directorate of Weed Research, Jabalpur; Anand Agricultural University (AAU), Anand and Indian Council of Agricultural Research (ICAR), New Delhi jointly organized the 3rd International Weed Conference at AAU, Anand during 20-23 December, 2022. Around 450 delegates from across the country and the globe attended the conference.

The inaugural session was held on 20 December 2022 in presence of more than 450 delegates including invited dignitaries, key note speakers and lead speakers, oral and poster presenters, research scientists from institutions and industries,



Dr H. Pathak (above online) & Dr K. B. Kathiria (below) delivering inaugural speeches

students, press and media persons. The inaugural session was chaired by Vice Chancellor, Dr K. B. Kathiria, AAU. Dr Himanshu Pathak, Secretary, DARE, & DG of ICAR, graced the inaugural session as Chief Guest. Dr S. K. Chaudhari, DDG (NRM), ICAR, Dr Samunder Singh, President, International Weed Science Society, USA and Prof. Yoshiharu Fujii, Tokyo University of Agriculture and Technology, Tokyo, Japan also graced the inaugural session as the Guests of Honour. The inauguration session was started with the welcome address given by Dr J. S. Mishra, Secretary, Indian Society of Weed Science (ISWS) and Director, Directorate of Weed research (DWR), Jabalpur. Dr Sushil Kumar, President of ISWS also addressed the audience during the session. Dr K. B. Kathiria, shared his views to develop new varieties by genome editing technologies for the benefit of farmers in future.

Total 12 technical sessions were conducted during three days of the conference in which scientists, professors, researchers, students, herbicide producers and executives discussed in depth and shared their thoughts and views on various aspects of weed management.

ANGRAU, Guntur

Trainings

- Centre for APSARA, conducted 3rd batch training for 24 polytechnic students of ANGRAU on Agricultural Drone Pilot, from 06-20 October 2022.
- Online NAHEP-IDP Training Programme on Application of R-Software for Social Sciences, was organized by Dept. of Agric. Economics, Agricultural College, Bapatla from 14-20 November 2022.
- ANGRAU organized Refresher Training Programme on Administrative and Financial Procedures, from 24-26 November 2022 at RARS, Lam, Guntur for the regular JACTs and Senior Assistants working in four zones of High Altitude Zone / North Coastal Zone / Godavari Zone / Krishna Zone including Administrative Office, Lam, Guntur.
- Agricultural Remote Pilot Course of 12 days duration for 2 batches (16 each) i.e., for 32 farmer CHC Members nominated by Government of Andhra Pradesh and others on Agricultural Drone Piloting & Technician skills from 15-26 December, 2022.
- Skill development trainings were conducted for students on various aspects such as Agro based entrepreneurship development; Precision farming and water management; Export and import of agricultural commodities; farm mechanization for post-harvest operations; Hi-Tech Agriculture; Agri-Startups and Entrepreneurship; Soft skills; Plant Health Management for sustainable agriculture under IDP at different national and international institutes and organizations.

AG-Tech-2022

ANGRAU in association with Department of Agriculture organized three-day Conference and Exhibition on Latest Agriculture Technologies AG-TECH 2022 during 3-5 December 2022, in which Interactive sessions with farmers on various farm related issues

were conducted. Farmers from all over the states and other states participated, and scientists explained about the newer technologies, improved varieties and solutions for the recent pest problems.

National Agricultural Education Day

National Agricultural Education Day was celebrated in commemoration of the Birth Anniversary of the first president of Independent India and Union minister of Agriculture, Bharat Ratna Dr Rajendra Prasad on 03 December 2022 at all institutions of ANGRAU and at RARS, Lam. Dr A. Vishnu Vardhan Reddy, Vice Chancellor, ANGRAU presided over the function, addressed the staff, and interacted with the school students in the fields of RARS, Lam, Guntur. Around 6,500 School students in and around Guntur participated in the programme and visited the experimental fields actively. During the program, demonstration of Agriculture drone for spraying, seeding and fertilizer application was taken up.

BAU, Ranchi

Trainings

Maitri Training under Rashtriya Gokul Mission

The sixth Maitri training program was concluded on 23 December 2022 at the Ranchi Veterinary College of Birsa Agricultural University under the Rashtriya Gokul Mission Yojna. A total of 45 participants from 6 districts of the state participated in this 30-day program organized in collaboration with Jharkhand State Implementation Agency for Cattle and Buffalo Development (JSIA), Ranchi.

A total of 247 people from all 24 districts of Jharkhand state have been trained in these six training programs so far. After the training, all the trainees will also get practical training for 60 days in the allotted artificial insemination centre in their home district.

Training on Commercial Cultivation of Button Mushroom

Three training programs of 28-days were organized from October to December 2022 by the Mushroom Production Unit of Department of Plant Pathology at Faculty of Agriculture of Birsa Agricultural University. A total of 34 participants from eleven districts of the state participated in these three training programmes.

In the closing ceremony held on 15 December 2022, Dr Onkar Nath Singh, Vice Chancellor, BAU as the chief guest, distributed certificates to all the trainees. In his address on the occasion, Dr Singh said that by adopting mushroom cultivation as a household enterprise, women can increase family income and ensure nutritional security. He said that the climate of Jharkhand is quite suitable for mushroom cultivation. Participants should start mushroom production both domestically and commercially.

Special Guest, Dean Agriculture, Dr S. K. Pal said that there is more profit in button mushroom cultivation than other mushrooms. Dr Narendra Kudada, In-charge of Mushroom Production Unit, gave detailed information on button mushroom production in welcome speech. The function was coordinated by Radio Hariyali Coordinator Mrs Shashi Singh.

CCSHAU, Hisar

Trainings

- Training for shorthand test of Steno-typists and Jr. Scale Stenographers for promotion/grant of ACP pay structure for 05 days from 27 September to 01 October 2022.
- A training programme on 'Basic Level Computer Appreciation' of 10 days was organized from 16-28 November 2022.

Dr RPCAU, Pusa**Trainings**

- A 15 day- INM training for fertilizer dealers was organized at KVK, Bhagwanpur Haat, Siwan (28 December 2022 to 12 January 2023) with 40 participants.



INM training for fertilizer dealers was organized at KVK, Bhagwanpur Haat

Training programme on Mali Prashikshan was organized at KVK, Bhagwanpur Haat

- The 15 day-Training Programme on Mali Prashikshan was organized at KVK, Bhagwanpur Haat, Siwan from 6-20 October 2022 with participation of 40 farmers.
- ICAR Sponsored Winter School on Adding value to primary and secondary produce: Building Agricultural Enterprises in rural India via secondary agriculture, was organized during 10-30 November 2022.
- Skill and Entrepreneurship Development Programme:** Three skill training programmes of 26 days on Service and Maintenance of Farm Machines, sponsored by the Bihar Government were conducted from 19 October 2022 -13 November 2022; 07 November- 02 December 2022 and 13 November - 08 December 2022, respectively.

U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan (DUVASU), Mathura

VII Convocation of NADS (I) and National Dialogue on Innovations in Reshaping Indian Dairying

U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan

Sansthan (DUVASU), Mathura in collaboration with National Academy of Dairy Science (India) organized VII Convocation of NADS (I) and National Dialogue on Innovations in Reshaping Indian Dairying, on 29 October 2022 at College of Veterinary Science and Animal Husbandry, DUVASU, Mathura. The objective of National Dialogue was to bring the Academicians, Researchers, Dairy Industry Personnel and stakeholders on a common platform to deliberate on different issues and formulate strategies to boost the dairy sector of India. The chief guest of the inaugural session was Minister, Animal Husbandry & Dairying, Political Pension, Minority Welfare and Haj & Wakf, Government of Uttar Pradesh, Shri Dharmpal Singh, who emphasized on improved genetic makeup, housing and nutrition management, production of good quality milk with health promoting nutrient content as well as processing of milk into value added dairy products. The president of NADS (I) and Vice Chancellor, DUVASU, Mathura Prof. A. K. Srivastava asked to unpack the issues facing Indian dairy sector and to dive deep the factors that have been hampering the productivity and processing of fresh milk and dairy products. Two technical sessions were conducted in which five presentations were given followed by panel discussion. One poster session was also conducted under Animal Production, Dairy Processing and Dairy Management theme.



Brainstorming Session on Milk vs. Plant Based Dairy Analogues

A brainstorming session on Milk vs. Plant Based Dairy Analogues, under the aegis of National Academy of Agricultural Sciences, New Delhi was organized on 10 December 2022

at DUVASU, Mathura with the amalgamation of best brains from National Dairy Research Institute, Karnal; GADVASU, Ludhiana; HPKV, Palampur; Cattle Research Center (ICAR), Meerut; SKUAST, Jammu and DUVASU, Mathura. The brainstorming session began with flagging of the issues by Prof. A.K. Srivastava, Vice Chancellor, DUVASU followed by theme lectures and finally ended with a structured panel discussion. The brainstorming session was chaired by Dr A. K. Singh, Vice President, NAAS. The panel discussion was moderated by Prof. A. K. Srivastava and was co-chaired by Dr M. B. Chetti, Vice Chancellor, Sanskriti University, Mathura. Dr Brijesh Yadav and Dr Dilip Kumar Swain acted as the rapporteur of the Brainstorming program. At the end Prof. P.K. Shukla, Dean, College of Veterinary Science and AH extended vote of thanks on behalf of the organizing committee.



Dr M. B. Chetti, Dr A. K. Singh and Dr A. K. Srivastava with Participants

Brainstorming Session on Insight on the Drivers and Barriers for the Food Safety in Processing and Marketing of Foods of Animal Origin

The Department of Livestock Products Technology, College of Veterinary Science & Animal Husbandry, DUVASU organized NAHEP Sponsored Brainstorming session on Insight on the Drivers and Barriers for the Food Safety in Processing and Marketing of Foods of Animal Origin, on 19 November 2022 for the faculty and students in the hybrid mode. Four eminent scientists from esteemed institutes delivered lectures on various aspects of food safety in

foods of animal origin followed by panel discussion. Prof. A. K. Srivastava, VC, DUVASU appreciated the deliberations and concluded the session with remarks that food safety is the guard for sustaining life and promoting good health. Good collaboration between researchers, governments, producers and consumers is needed to ensure food safety and stronger food systems.

GADVASU, Ludhiana

Trainings

- Department of Veterinary Gynecology and Obstetrics under the aegis of Directorate of Extension



Education, GADVASU organized an international training on Augmentation of Fertility in Buffaloes, sponsored by the International Livestock Research Institute, Nairobi, Kenya, from 28 November- 06 December 2022. A total of nine participants (Veterinary/Livestock Development Officers/Scientists) from Nepal participated in the training programme for honing up their practical knowledge and skills.

- Centre for One Health, GADVASU celebrated the World Antimicrobial Awareness Week by organizing various educational and awareness activities on antimicrobial resistance.



The students from various disciplines of the University participated in various contests conducted and came up with innovative methods and arts for community awareness on antimicrobial resistance.

Conference of ANSICON

Department of Animal Nutrition, College of Veterinary Science, GADVASU hold the 19th International Biennial Conference of Animal Nutrition Society of India (ANSICON-2022) under the theme Nutritional Technologies to Augment Livestock, Poultry, Canine and Fish Production for Global Competitiveness. Dr D.V.R. Prakasha Rao, President, National Academy of Veterinary Sciences graced the inaugural function as the Chief Guest and Dr S. K. Ranjhan was the Guest of Honour. A total of 400 scientists, students, farmers and representatives of the industry took part in the conference. Farmers representing the progressive farmer associations delivered speeches in Farmer-Industry-Scientist interface wherein they emphasized on cutting costs and enhancing quality management of feed.



National Workshop

College of Animal Biotechnology, GADVASU in association with National Academy of Veterinary Sciences (NAVS) organized two days National Workshop on Strategy on control and eradication of formidable Trans-boundary viral diseases of Livestock- Foot and Mouth disease (FMD), Lumpy skin disease (LSD) and African Swine Fever (ASF), on 15 November 2022. Dr D. V. R. Prakasha Rao, President, NAVS, was the Chief Guest of the occasion. A mobile application on Vaccine Preventable Livestock Diseases was launched. The Policy papers on Leptospirosis and Trans-boundary Viral Diseases of Livestock- Foot and Mouth disease (FMD), Lumpy Skin Disease (LSD) and African Swine Fever (ASF), were released.



G.B. Pant University of Agriculture & Technology (GBPUAT), Pantnagar

Training Programme on Mushroom

The College of Science and Humanities of the University

organized three months training on 'Cultivation, Value Addition and Business



Management of Mushroom Rich in Quality Nutrients for Food Security Using Nanotechnology' from 12 September to 11 December 2022. Trained according to the standards of Agriculture Skill Council of India in thematic training program. The training program was organized with the objective of making the unemployed youth of Uttarakhand state self-reliant. The financial support for this programme was received from the Department of Biotechnology, Government of India and UCOST, Uttarakhand. The program was conducted in two phases (two months online theoretical training and one month offline practical training). During the training program, lectures were presented by subject experts on the production techniques of different types of mushrooms, such as button mushroom, dhigri mushroom, fulwa mushroom and sitake mushroom and other newly developed species. The trainees were taken on a tour of the production units developed by the progressive farmers. On-site practical training was also given to the trainees at Institute of Biotechnology, Patwadangar and Mushroom Production Center, Jeolikot. Training was given related to disease and pest management in mushroom production, profitable iron and zinc rich mushroom production (biofortification) and value addition through nanotechnology.

Workshop

The Academic Component of IDP-NAHEP Pantnagar organized a 5-day workshop on 'How

to write research-based articles: The art of content building' under IDP-NAHEP Writing Studio from 07-11 December, 2022. The expert of the workshop was Dr Shweta Gupta, Fellow-IIM Indore, Director Arohana Management Solutions Pvt. Ltd. A total of 115 students attended the sessions.

Farmers' Fair

The 112th All India Farmers' Fair and Agro-Industry Exhibition was organized in the University. Chief Guest, District Magistrate, Mr Yugal Kishor Pant, and special guest, Vice President of Farmers Commission, Shri Rajpal



Singh inaugurated the fair on 17 October 2022 in the presence of Vice Chancellor Dr M. S. Chauhan, Director Extension Education, Dr Anil Kumar Sharma; Director Research, Dr A.S. Nain, and other dignitaries and officers of the university. On 18 October 2022, Hon'ble Governor of Maharashtra, Shri Bhagat Singh Koshyari addressed the scientists, students, and farmers in Gandhi Hall and asked the scientists, students, and Krishi Vigyan Kendras to develop new techniques to enhance the income of the farmers. Vice Chancellor, Dr M. S. Chauhan, in his address, mentioned that both farmers and scientists play a crucial role in agriculture and emphasized on the need to transfer the agricultural techniques and improved varieties developed by the scientists to the medium and high-hill areas for the benefit of farmers. About 600 stalls of various firms, universities, and other government institutions were set up, and about 15,000 farmers visited the fair. Nine progressive farmers selected from different districts of the state were honoured during the fair for their innovative experiments in agriculture and remarkable success. In the closing ceremony, representatives of M/s New Holland Tractor, Rampur were rewarded for the best stall, and

representatives of M/s A.H. Associate, Kashipur and M/s Lubi Industries LLP, Ghaziabad, were rewarded with trophies for their best performance.

Diploma Course DESI concluded

The valedictory programme of the 48-week Diploma

Course 'DESI' conducted by the Directorate of Extension



Education (SAMETI-Uttarakhand) in the university was organized in the auditorium of Krishak Bhawan and Training Center on 22 November 2022. In this diploma course, 40 pesticide and fertilizer vendors of district-Udham Singh Nagar were registered. Certificates were distributed to all vendors in the function. This Diploma course was conducted by the University in collaboration of MANAGE Hyderabad. The chief guest of the function was Shri Jas Veer Singh, Karam Khad Bhandar, Sitarganj. Presiding over the valedictory programme, Dr Anuradha Dutta, Acting Director, Extension Education and SAMETI-Uttarakhand, mentioned that after doing this course, the responsibility of the trainees to serve the farming community will increase. Coordinator of SAMETI, Professor Dr B.D. Singh; Officer-in-Charge, Krishi Vigyan Kendra, Kashipur, Dr Jitendra Kwatra; Officer-in-Charge, ATIC Dr B.S. Karki also shared their views on this occasion.

KU, Gandhinagar

Annual Convention of Veterinary Internal and Preventive Medicine (VIPM)

The National Symposium and 3rd Annual Convention of Veterinary Internal and Preventive Medicine (VIPM) was inaugurated on 07 October 2022. Dr N. H. Kelawala, Vice Chancellor, Kamdhenu University, Gandhinagar was the president of the function.

Dr K. B. Kathiria, Vice Chancellor, Anand Agricultural University, Anand, was the chief guest. Dr

Ashok Kumar, ADG (Animal Health), ICAR, New Delhi; Dr Falguni Thaker, Director of Animal



Husbandry, Gujarat state; Shri Girishbhai Shah, Managing Trustee, Samast Mahajan and member of Animal Welfare Board of India and Dr A. K. Gahlot, Ex-Vice Chancellor, RAJUVAS, Bikaner, were the guest of honour. Dr P. H. Tank welcomed all the guest and participants. Dr D. B. Patil, Director of Research and P.G. Studies, Kamdhenu University, Gandhinagar highlighted the research activities of Kamdhenu University. Dr A. U. Bhikane, President of the VIPM society informed the house about the activities carried out by the society. Dr Ashok Kumar, Secretary, VIPM, presented the report of the society. He declared VIPM award which include best thesis awards. The awardees were given the mementos and certificates. Dr A. K. Gahlot informed about the relationship between disease outbreak and climate change. Dr Ashok Kumar informed the participant about the disease pattern and role of veterinarian in prevention of zoonotic diseases. Dr K. B. Kathiria, chief guest of the function informed the house about how climate change has effect on both crops and animals. He also informed about the Dagri breed of cow from Gujarat.

Dr N. H. Kelawala, Vice Chancellor, Kamdhenu University, congratulated the awardees. He opined to adopt usable newer concept in animal health and welfare in the present perspective of climate change. He also informed about the progress of Kamdhenu University. The program ended with the vote of thanks by organizing secretary, Dr S.K. Raval.

Brain Storming Session: Alltech Idea Pool
Veterinary Clinical Complex and Student's

Representative Council of the college organized the Alltech Idea Pool" – A brain storming session in joint collaboration with Alltech Biotechnology PVT. Ltd., Bengaluru, on 12 November 2022 at College of Veterinary Science & A. H., KU, Junagadh campus. Dr Bhushan Deshmukh, Manager, Altech Group delivered a motivating lecture and urged the students to participate in the competition organized by Altech group. All internees and post graduate students participated in this session. Dr R. H. Bhatt and Dr R. J. Padodara had taken valuable efforts in organizing the function and coordinated activities during the concluding session.



Brain Storming Session on Alltech Idea Pool

Trainings

Training on Next Generation Sequencing

The Department of Animal Biotechnology, Anand, Campus, Kamdhenu University, conducted a hand-on training on "Next Generation Sequencing" in collaboration with Gujarat Biotechnology Research Centre (GBRC) under Gujarat Government's training scheme "KAUSHALYA" (Knowledge Advancement Using Skills on High-end Applied Life Technology for Aspirants) from 10-14 October 2022. The training covered various aspects starting from basic technology of DNA extraction followed by library preparation, quantitative and qualitative evaluation of the prepared libraries and next generation sequencing on illumina mi-seq platform. The training consisted mainly of lectures on the various topics of NGS followed by their practical demonstration. The valedictory function of the training program was held at department of Animal Biotechnology, Kamdhenu University on 14

October 2022. Vice Chancellor, Dr N. H. Kelawala, graced the function as the president and Shri Mitesh Patel, Member of the Parliament, Anand constituency, graced the function as chief guest. The function was also attended by Dr P. H. Tank, Dean and Principal, Veterinary College, Anand, and Professor C.G. Joshi, Director, GBRC, Gandhinagar. Speaking on the occasion, Dr P. H. Tank, Dean, Veterinary College, informed about the activities of the Veterinary College, Anand and Department of Animal Biotechnology. Shri Mitesh Patel appreciated the achievements of the Department of Animal Biotechnology, and praised the facility created in the department. distributed the training completion certificate to participants and wished them best for their future careers. In the end Vice Chancellor, Dr N. H. Kelawala appreciated conduction of such training programs in collaboration and invited critical feedbacks from participants. Several participants requested that such training program should be conducted more often for the benefit of researchers. Dr C. G. Joshi, Director, GBRC stressed the need of collaboration in various research areas as a result of the training program.

Training on One Health Poultry Hub

A training program was organized on 17 December 2022 on capacity building for biosecurity in poultry farming for safer and sustainable poultry production under one of the work packages of the UKRI GCRF One Health Poultry Hub Project at the Department of Animal Biotechnology, College of Veterinary and Animal Husbandry, Anand. The training was organized to educate and create awareness among poultry farmers about the importance of biosecurity, the immune system of poultry and different types of vaccines, different routes of transmission of diseases and prevention, cleaning and disinfection of poultry



farms, minimizing the use of antimicrobials in poultry farming and antimicrobial resistance. All the topics were delivered by experts from the relevant field. The training programme attended by 15 poultry farmers.

Training on Commercial Goat Farming

A non-residential training programme on Commercial Goat Farming, was conducted at Pashupalan Sanshodhan Kendra, Ramna Muvada on 28 December 2022. Gramin Vikas Trust, an NGO working on Livelihood Entrepreneurship Development Programme which is funded by NABARD for the financial upliftment of farmers in the tribal belt of Dahod district of Gujarat, sponsored 75 women farmers for the training. Dr M. M. Islam, Associate Research Scientist and Head and Dr C. P. Parmar, Assistant Research Scientist delivered lectures on various aspects of commercial goat farming. Farmers were also taken to the goat farm unit for demonstration and explained about routine activities of the farm for the practical exposure. They were explained in detail about housing and sanitation of goat farm, feeding and breeding management of goats, preventive measures and care of diseased animals, production and marketing of goats and their products, etc.

PJTSAU, Hyderabad

Workshop on Breeding Program Modernization

Professor Jayashankar Telangana State Agricultural University (PJTSAU) organized a one-day workshop on Breeding Program Modernization at the Institute of Rice Research, ARI, Rajendranagar, Hyderabad on 11 November 2022 for Rice breeders of PJTSAU sponsored by SERB Project, Government of India.

Agri Photo Voltaic System

PJTSAU launched Agri Photo Voltaic System (Research Project) executed by Water

Technology Center and Agri Hub Startup, Renkub, at Rajendranagar on 16 November 2022. Cultivation of carrot and green vegetables will be taken up experimentally in the *rabi* season and production of solar energy will be undertaken simultaneously.



3rd National Symposium of ESI

Entomological Society of India (ESI), New Delhi; Plant Protection Association of India (PPAI), Hyderabad and Agri Biotech Foundation (ABF), Hyderabad in collaboration with PJTSAU, hosted the 3rd National Symposium of Entomology on Entomology 2022: Innovation and Entrepreneurship, from 08-10 December 2022 at University Auditorium, PJTAU, Rajendranagar, Hyderabad.



Dignitaries released publication during the workshop

Agricultural Education Day

All the constituent Colleges of PJTSAU organized Agricultural Education Day to commemorate the birth anniversary of first President of Independent India and Union Minister for Agriculture, Bharat Ratna



Dr Rajendra Prasad on 03 December 2022. On this occasion all the Colleges under PJTSAU organized online Elocution, Poster making and Singing competitions for school students. More

than ,1500 students from various schools from Hyderabad participated in the event organized by the College of Agriculture, Rajendranagar.

Inter Polytechnic Sports, Games, Cultural and Literary Meet

The Inter Polytechnic sports, games, cultural and literary meet was conducted at Agricultural College, Palem from 13-16 December 2022. A total of 225 diploma students from 11 University Polytechnics of PJTSAU participated in the event.



Participants Inter-Polytechnic Events

SKUAST, Kashmir

IRTIQA-2022: First of its Kind NEP-2020 Oriented Foundation Programme

SKUAST-K conducted a 19-day foundation-cum-orientation program, 'IRTIQA' for undergraduate freshers from 12-31 December 2022. Vice Chancellor, SKUAST-K, Prof. Nazir A. Ganai and Commissioner Secretary, Department of Science & Technology, J&K, Shri



Saurabh Bhagat inaugurated the life and social skilling event on 12 December 2022 in presence of a jam-packed audience at main campus Shalimar.

The program, organized by Dean Students Welfare, is first of its kind in the university is a mix of orientation and motivation for the newly admitted students (700) towards cultural diversity, inclusiveness, academic and research ambience, creativity, entrepreneurship, and skill development, etc. Motivational speakers, members of civil society, entrepreneurs, scholars, scientists, and celebrities from different fields interacted,

delivered motivational talks and held performances during the event.

Addressing a well-attended inaugural function, the Vice Chancellor said that aim of the orientation is to give students exposure to the university system and outside world. He said it provides a platform to the students to showcase their hidden talents.

Shri Saurabh Bhagat, while speaking on the occasion, recalled his own university days and said, it is great to see the university organizing such a special welcome to the freshers. Impressing upon the students to use their knowledge and skills for national development, he said, Science and Technology Department will provide liberal funding to SKUAST-K for taking up various vital research projects.

Dr Arun Kumar Mehta, Chief Secretary, J&K Government in his speech urged all the students to be good human beings, which is important for the development of a responsible society. He highlighted the importance of thinking out-of-box and imbibing entrepreneurship skills as they play a pivotal role in the development of a nation.

National Conference on Innovation and Entrepreneurship

SKUAST-K and Central University of Kashmir (CUK) jointly held a two-day National Conference viz., Innovations and Entrepreneurship for Sustainable Development (IESD) on 20-21 December 2022 at the University of Kashmir campus, Hazratbal and SKUAST-K main campus Shalimar.

Commissioner Secretary, Science & Technology, UT of J&K, Shri Saurabh Bhagat; Vice Chancellor, University of Kashmir, Prof. Nilofar Khan; Vice Chancellor, SKUAST-K, Prof. Nazir A. Ganai; CUK Registrar and Convener IESD-2022, Prof. M. Afzal Zargar; Deans and Directors scientists, research scholars and students of these universities attended the inaugural session. The main themes of the workshop were: Innovations and Entrepreneurship for Atmanirbhar Bharat; Innovations and Entrepreneurship in

Agriculture, Translational Research; Environmental and Social Issues; Medicine and Pharmaceutical Science; Renewable Energy; Engineering and Computer Sciences and allied disciplines. In different technical sessions, eminent scholars from across the country delivered talks on the aforementioned themes apart from deliberations by young researchers and students to share their research, innovations, startup ideas and success stories. A panel discussion on the theme disruptive technologies was also held in which scientists of national and international repute expressed their views on the technological advances made and the need for collaborative research for sustainable community development.

SKUAST-K Joins Global Campaign for Resource Conservation

World Soil Day 2022 was celebrated on 05 December 2022 at the SKUAST-K's Faculty of Agriculture and all Krishi Vigyan Kendras under the theme Soils: Where Food Begins, to raise awareness of the importance of healthy ecosystems and

human well-being. At all stations, emphasis was laid on the importance of 'soil health' in developing organic inputs for large-scale adoption of sustainable farming practices like organic and natural farming which are inevitable for restoring deteriorating soil conditions. The day provided an opportunity to highlight growing challenges in soil management in view of intensive cropping, over-utilization of chemical inputs, environmental pollution, climate change, etc. The international observance of World Soil Day was recommended by the International Union of Soil Sciences in 2002 to make people aware of the degrading soil health, its impact and the preventive strategies.



FVSc & AH holds Awareness on Antimicrobial Resistance

SKUAST-K's Faculty of Veterinary Sciences & Animal Husbandry, Shuhama Alusteng, organised an awareness programme on Preventing Antimicrobial Resistance Together in which students, research scholars, scientists, farmers, livestock entrepreneurs, and civil society members participated.

World Antimicrobial Awareness Week, celebrated between 18 and 24 November every year, is a global campaign to improve the awareness and understanding of antimicrobial resistance (AMR) and encourage best practices among the public, health workers, farmers, animal health professionals and policymakers. Antimicrobial resistance is one of the biggest threats to global health today compromising the treatment of infectious diseases. About 80% of the antibiotics used in the livestock sector enter the human system through milk, meat, and water or soil. "Working together in collaboration will help prevent AMR, said Prof. M.T. Bandy, Dean, FVSc & AH.

New Initiatives for HANGUL Conservation

SKUAST-K's Faculty of Forestry celebrated 68th National Wildlife Week from 2-8 October 2022 at Benihama, Ganderbal. Wildlife Week is celebrated every year in the country from 2-8 October 2022. The main objective of



the campaign is to promote the conservation and protection of animal life. A day-long seminar was also held at the main campus Shalimar in which issues, challenges and strategies for animal captures, translocation and *ex-situ* conservation, and breeding and re-introduction program for the Hangul were deliberated. To develop capacity and further the efforts and initiatives towards the long-term conservation of Kashmir Red Deer or Hangul, SKUAST-Kashmir has been successful in forging international collaborations for

research and faculty/student exchange program in Wildlife Management and Conservation with Smithsonian National Zoo and Conservation Biology Institute, USA and Montana Tech, USA under Indo-US Virtual Networked Centre awarded by the Indo-US Science & Technology Forum, said Vice Chancellor Prof. Nazir A Ganai. As part of this prestigious faculty and student exchange program, a team of scientists from the partnering institutions recently visited SKUAST-K to gain a better understanding of the *in-situ* and *ex-situ* conservation efforts being undertaken in the country, said Dr Khursheed Ahmad Wildlife expert. The team visited Dachigam National Park and Hangul Conservation Breeding Centre.

Fish Food Festival: Zaika-e-Kashmir

SKUAST-K's Faculty of Fisheries and National Fisheries Board, Hyderabad, organised the fish food festival Zaika-e-Kashmir, at Zabarawan Park, Boulevard Srinagar on 7 October 2022.

The function was inaugurated by Chairperson, Khadi and Village Industries Board



Dr Hina Bhat and Prof. Nazir A. Ganai at inauguration of festival

(KVIB), Dr Hina Bhat in presence of Vice Chancellor, SKUAST-K, Prof. Nazir A Ganai; Joint Secretary, Inland Fisheries, Department of Fisheries GoI Sagar Mehra; Director Fisheries J&K, Irshad A Shah; Additional Director (DST), J&K; Joint Director (DST) J&K; officers of the university, scientists and students of the Faculty of Fisheries. The purpose of the festival was to raise awareness about the role of the fisheries sector in food and nutritional security of the people and health benefits of the fish. The festival got an overwhelming response from students, local tourists and budding entrepreneurs in the fisheries sector. The main attraction was the display of scientific models pertaining to aquaculture, aquatic environment

management, fishery engineering, aquatic animal health, sports fisheries, etc., in addition to various traditional fish dishes like fish roganjosh, fish nadru, fish haakh, fish pickles, scientifically dried fish and other fast foods designed and prepared by the students of Fisheries Faculty, fish entrepreneurs and the Department of Fisheries, Govt of J&K.

AICRP Workshop

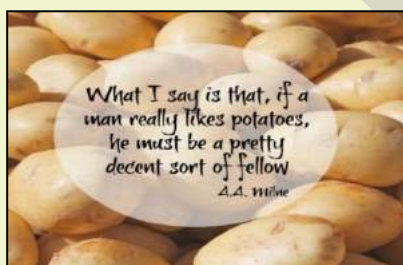
SKUAST-K Hosts All-India Potato Project Meet

Division of Vegetable Science, Faculty of Horticulture, SKUAST-K hosted the 40th Annual Group

Meeting of ICAR-All India Coordinated Research Project on Potato at Shalimar Campus on 7 October 2022. More than

80 delegates from various agricultural

universities from across the country participated in the meeting. Vice Chancellor SKUAST-K, Prof. Nazir A Ganai in his presidential remarks emphasized on improving the productivity and production of potatoes to address the issues of malnutrition and nutritional security in the region. He also stressed on the adoption of latest scientific technologies for making Kashmir a leading producer of potatoes in the country. He desired to further the research on Organic potato cultivation in Gurez and Machill areas of J&K, promotion of high-yield varieties and value-addition of the produce for better income generation of the tribal farmers associated with the vegetable crop. Dr A. K. Singh, DDG, Horticultural Sciences, ICAR, highlighted the importance of using modern and cutting-edge



technologies including IoT, genomics and precision agriculture for developing high-yielding and industry-suitable varieties. Director and Project Coordinator AICRP on Potato, ICAR-CPRI, Shimla, Dr Devender Kumar, highlighted the research role for augmenting potato productivity and production across the nation. Director Research, SKUAST-Kashmir, Dr Sarfaraz A Wani, outlined the various initiatives taken by the university in developing new varieties of horticulture crops.

Statistical Tools and Research Methodology

A seven-day high-end workshop on Understanding Basics of research methodology and statistical tools used in animal sciences, was organised by the Division of Veterinary and Animal Husbandry Extension, Shuhama. A total of 25 postgraduate scholars from different universities of the country attended the Karyashala. The main objective was to expose researchers to key strategies, frameworks and tools followed in research design, critical review, and collection, processing and analysis of quantitative and qualitative data, said workshop organizer Dr Afzal H Akand. Director Research, SKUAST-K, Prof. Sarfaraz A. Wani hailed the efforts of organizers and said that the impact and outcome of any research trial depend on the planning and designing of an experiment, and data analysis using relevant and advanced statistical tools.

Trainings

Promotion of Onion Cultivation in Ladakh

Onion (*Allium cepa* L.) is grown extensively in Ladakh for self-consumption as well as for income generation through open-market sale or supply to the army personnel, despite lack of high-yield varieties, cultural practices and bulb storage facility. To overcome these problems ICAR-



DOGR, Rajgurunagar, Pune conducted field demonstrations on improved onion varieties in collaboration with High Mountain Arid Agriculture Research Institute (HMAARI), SKUAST-K, Leh and KVK, Kargil-1 on 21 October 2022. A total of 78 tribal farmers including 57 farm women participated in the awareness cum training program. Nodal Officer (TSP) & Principal Scientist (Hort.) Dr Amar Jeet Gupta coordinated the program. Chief Scientist, HMAARI, Leh, Dr M S Kanwar elaborated on the training program. Director, ICAR-DOGR Dr Vijay Mahajan appreciated the farmers for their interest and involvement in field demonstrations. Dr Amar Jeet Gupta emphasized on technology driven onion cultivation for economic security of the farmers and briefed about the importance and scope of TSP on socio-economic upliftment of tribal farmers.

SKUAST-K Launched 66 Skill Courses for Entrepreneurship in Agriculture, Allied Sectors

SKUAST-K's Directorate of Planning and Monitoring and SKIIE Centre in collaboration with and sponsorship of the Ministry of Micro, Small and



Medium Enterprises (MSME), are organizing 66 skill training programmes for entrepreneurship development at the various faculties and divisions of the university in various emerging vocations of agriculture, horticulture, livestock, and allied sectors. To formally launch the skill training programmes, SKUAST-K on 9 November 2022 held two functions at the Faculty of Horticulture, Shalimar Campus and the Faculty of Veterinary Sciences, Shuhama in the forenoon and afternoon, respectively. Vice Chancellor, SKUAST-K, Prof. Nazir Ahmad Ganai, who attended both functions as the chief guest, while thanking the MSME Ministry for the support, said this is an opportunity to

build, train and skill the workforce for agriculture 4. He said the university has the responsibility to make students industry ready and entrepreneurial so that they can lead the conversion of subsistence-based farming towards sustainable commercial agriculture to benefit the economy in general and the farming community in particular. Assistant Director, MSME Development and Facilitation Office, Srinagar Branch, Ministry of MSME, Saheel Yaqoob Allaqband, talked in detail about the procedure and requirements of the skill development courses. He said that the focus of the training should be to encourage and identify youth who are motivated towards startup creation and entrepreneurship so that they can turn around the economy. Director, Planning and Monitoring, SKUAST-K, Prof. Haroon Rashid Naik, gave a detailed overview of the skill development programmes, their purpose and the procedure for the training. Skill development programmes held in December 2022 are as follows:

Milk Processing and Marketing: A 10-day advanced entrepreneurship and skill development program on Processing, preservation and marketing of milk as functional food, was organized by Division of Livestock Products and Technology, FVSc & AH, Shuhama, to give exposure to the participants to various dimensions of milk processing and marketing, and to develop skills required for venturing into this dairy business.

Vegetable Cultivation, Management and Marketing: Six entrepreneurship and skill development programs on Successful Vegetable Farming, were organized by the Division of Vegetable Science, Faculty of Horticulture for educated unemployed women of different districts of the valley. Hands-on trainings, demonstrations, field visits were part of the skill courses. The skill trainings included hydroponics in vegetable crops, vermicomposting, nursery raising and off-

season vegetable cultivation, improved production techniques, value-addition of onion and *pran* (shallot) and commercial vegetable production and marketing.

Data Science Tools and Techniques: A one-week training programme on Application of Data Science Techniques and Tools for Business Management, was organised by the Division of Agricultural Statistics. The training was planned to provide a platform where experts from diverse institutions would interact with students/unemployed youth and equip them with different data science techniques and use of data science tools for Business Management. The training programme consisted of a blend of lectures, demos, interactive discussion and extrusive hands-on sessions using various data science tools viz., R, Python, SAS, etc.

Skill Training on Maize Seed Farming: A 15-day skill development program on Quality seed production of maize, was held at Krishi Vigyan Kendra, Budgam from 10-24 October



2022. The program was held under Agriculture Training Programmes for Aspirational Blocks, and 50 farmers from Pakharpora and Surasyar blocks of district Budgam took part for knowledge updation and better skill acquisition. Agronomic practices, integrated nutrient-pest management, seed production and storage were demonstrated to the participant farmers during the program.

Deputy Commissioner Budgam Syeed Fakhrudin Hamid was the chief guest at the valedictory function. In his address, he highlighted the importance of trainings for increasing crop productivity and production, and overall upliftment of the rural farmers.

SVPUAT, Meerut

Convocation

The 15th Convocation of the University was organized on 16 December 2022 in the august presence of Hon'ble Governor, Uttar Pradesh and Chief Guest Padmabhushan Dr R.B. Singh, former Chancellor, Central Agricultural University, Imphal (Manipur), former President, National Agricultural Academy (NAAS), New Delhi.



Dikshotsav Samaroh

On the occasion of University convocation Dikshotsav Samaroh (hunar se rojgar) program was organized under the chairmanship of Vice Chancellor in University campus on 12 December 2022. In this program women from the area jurisdiction of University presented income generation activities through self help group.



Trainings

- Scientific lectures and Hands-on-training were delivered/demonstrated by the faculty members of different departments of COVAS in 14 days NAHEP sponsored training on New Age Technologies for Animal Production and Veterinary Practices, organized by COVAS, SVPUAT, Meerut, from 21 November to 04 December 2022.
- Scientific lectures were delivered by the faculty members of different departments of



COVAS in MAITRI training programme, organized by the Department of Veterinary Gynecology and Obstetrics (VGO) of COVAS during this period.

Kisan Mela and Agro Expo

University organized "All India Farmers' Fair and Agro-Industrial Exhibition" in University Campus Modipuram, Meerut from 18-20 October 2022. During Kisan mela more than 100 organizations including Government Departments, Banks and private companies (Seed, Fertilizer and Farm Machinery) showcased their activities/products/technologies in their respective stalls. A *Krishak Gosthi* was also organized in kisan mela, where farmers could interact with scientists on several problems faced by them.



Kisan Samman Diwas

On the occasion of 120th Birth Anniversary of former Prime Minister, Chaudhary Charan Singh, Kisan Samman Diwas was celebrated in the university campus on 23 December 2022. In this programme farmers from area jurisdiction of University were honoured for best practices done in Agriculture, Horticulture and other entrepreneurship.



Tamil Nadu Dr J. Jayalalithaa Fisheries University (TNJFU), Nagapattinam

Run for Unity

Run for Unity - a Mini Marathon was conducted in commemoration of the 147th Birth Anniversary of Sardar Vallabhbhai Patel at Thoothukudi on 31 October 2022. A total of 100 boys and 41 girls from the constituent colleges of TNJFU took part in the mini-marathon. Mr G. Chandeesh, IPS, Assistant Superintendent of Police, Thoothukudi district flagged off the race and presented medals and the trophy to the winners. Mr S. Kumaraguru, 2nd B.F.Sc., Dr MGR FC&RI, Ponneri, and Ms A. R. Asha, 1st B.F.Sc., Dr MGR FC&RI, Thalainayeru won the First place in their category



National Workshop

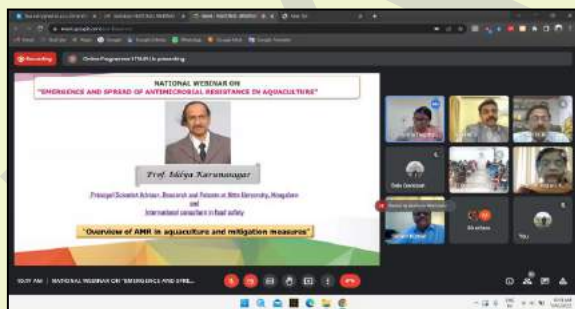
Chola Aqua 2022

The National workshop, Chola Aqua 2022, on Shrimp Farming - Made Better for the Future (SFMBF2022), was organised by the TNJFU at Dr M.G.R Fisheries College and Research Institute, Thalainayeru on 7 October 2022. The workshop was inaugurated by Dr S. Kandan, Director, RGCA, Sirkali, and delivered the chief guest address and Dr S. Balasundari, Dean and Convener welcomed the delegates. On this occasion, the souvenir of the Chola Aqua 2022 was released. Speakers from shrimp industries and central institutes delivered lectures. Seventy-five participants from the shrimp farming industry attended the workshop. Stakeholders exhibited their products in the

stalls put up in connection with the national workshop.

National Webinars

- A National Webinar on the “**Emergence and spread of Antimicrobial Resistance in Aquaculture**”, was organized by the Department of Fish Pathology and Health Management, Fisheries College and Research Institute, Thoothukudi on 16 November 2022. Dr G. Sugumar, Vice Chancellor of TNJFU in his presidential address, commended the faculty of the Department of Fish Pathology and Health Management for organising the Webinar stating that the topic was the need of the hour. Prof. Iddya Karunasagar, Advisor, Research and Patent at Nitte University, Mangalore, and international consultant in food safety, Dr H. Sanath Kumar, Principal Scientist, ICAR-Central Institute of Fisheries Education, Mumbai and Dr M. Karthikeyan, Director, Marine Products Export Development Authority, Kochi were the speakers.



- One-day National webinar on Nature Based Solutions: The Opportunities and Challenges for Blue Carbon, held on 30 November 2022 organized by the Department of Aquatic Environment Management, Fisheries College and Research Institute, Thoothukudi. Three distinguished speakers Mr A. Antony Xavier, Director Technical, CAA, Dr A. Vennila, Principal Scientist and Dr Dipnarayan Ganguly, Scientist C from reputed institutes across the country have been invited and delivered special lectures on the topics related

to the opportunities and challenges for blue carbon.

- Dr M.G.R Fisheries College and Research Institute (FCRI), Ponneri, organized its annual National Workshop “**PONSHRIMP 22**” on the theme Shrimp culture towards reassuring environment and nutrition sustainability, on 30 November 2022. The



programme was inaugurated by Dr K. Ambasankar, Principal Scientist, ICAR-CIBA in the presence of Guest of Honour, Thiru. Velan, Assistant Director of Fisheries, Ponneri and Dr R. Jeya Shakila, Dean, Dr MGR FC&RI, Ponneri. The technical session was followed by panel discussion in which the participants, mainly farmers, got the clarifications on their doubts in shrimp culture from the experts who delivered lectures. A total of 130 participants including farmers representing different parts of the State along with the faculty and students attended the programme.

MoUs

ANGRAU, Guntur

- Signed MoU for Transfer of Technology on Process and Machinery for making jaggery granules, with UAS, Bengaluru, Karnataka.
- Signed MoU in Agricultural drone applications with M/s Passenger Drone Research Private Limited (PDRL).
- Signed MoU with Murdoch University, Australia.

CCSHAU, Hisar

- Signed combined partnership agreement for dual award and higher degree research

candidature- Master of Research, Doctor of Philosophy pathway and Doctor of Philosophy with Western Sydney University, Australia (For cooperation in Education) in November 2022.

- Non-Exclusive License Agreements signed for commercialization of wheat variety WH 1270 for a period of three years with companies/organizations following: Uttam Seeds, Hisar; Quality Hybrid Seed Company, Hisar; Shaktivardhak Hybrid Seeds Pvt. Ltd, Hisar; Shiv Ganga Hybrid Seeds Pvt. Ltd, Hisar; Haryana Seed Company, Karnal; Kurukshetra Agritech Pvt. Ltd., Indri, Karnal; Kastkar Seeds Vidisha, M.P.; Model Agritech India Ltd, Indri, Karnal; Unnat Beej Company, Sirsa; Lakshya Seeds, Uchana, Jind; Shankar Seeds, Safidon, Jind; Kiran Seeds, Kurukshetra; Shaktimaan Seeds, Sirsa; Harbir Agrotech, Karnal; Asian Seeds, Bhadson, Karnal; Khalsa Exports, Karnal; Sahib Seeds Ltd., Karnal; Surya Seeds & Chemicals; Fatehabad; Jai Shri Ram Export Seeds, Narwana; Growtech Seeds India Pvt. Ltd., Hisar; Jot Karnal Seed Farm, Ajnala, Amritsar, Punjab; Tiwana Seed Store, Bhwanigarh, Sangrur; Onkar Seeds, Karnal; Supreme Seeds, Fatehabad; Support Organic Farm India, New Delhi; Fame Seeds, Hisar; Semen Seed Company, Panipat; K.D. Seeds, Mathana, Kurukshetra; Punjab Seeds, Sirsa; Jai Agro Seeds, Hisar.
- Non-Exclusive License Agreements signed with Support Organic Farm India, New Delhi for a period of three years for commercialization of raya variety RH 725.
- Non-Exclusive License Agreements signed with My Kisan Agro, Neemach, Madhya Pradesh for a period of three years for commercialization of raya varieties RH 725 and RH 761.

GADVASU, Ludhiana

GADVASU and International Centre of Excellence in Seafood Science and Innovation (ICE-SSI),



Prince of Songkla University (PSU), Thailand signed a Memorandum of Understanding to upscale the existing academic linkage with intensive student/faculty exchange and collaborative research of mutual interest, for benefiting fisheries and livestock sectors.

GBPUAT, Pantnagar

MoU Signed with Western Sydney University, Australia

The university has entered into a partnership agreement with the Western Sydney University, Australia. The partnership agreement was signed by,



Dr Manmohan Singh, Vice Chancellor, GBPUAT, Pantnagar and Professor Barney Glover, Vice Chancellor and President, Western Sydney University, Australia. As per this MoU, interested postgraduate students in selected subjects will be able to complete part of their degree/ research at Western Sydney University, Australia, as well as register for a dual degree. This agreement will facilitate academic and research collaboration by strengthening the ecosystem and help in enabling research and capacity building of postgraduate students on a large scale.

Drone Center of Excellence to be Set Up in the College of Technology

A MoU was signed on 05 December 2022 between the Information Technology Development Agency, Uttarakhand, Dehradun and College of Technology, to set up a Drone

Center of Excellence in the university. The MoU was signed on behalf of the university by Dr Alaknanda Ashok, Dean, College of Technology and Shri Amit Kumar Sinha, IPS, Director, Information Technology Development Agency. The MoU mainly focuses on the implementation of drone technology in various sectors including agriculture.



MoU Signed with Rural Works Department

An MoU was signed between College of Technology and Uttarakhand Rural Works Department (RWD), Government of Uttarakhand in the presence of Vice Chancellor, Dr Manmohan Singh Chauhan on 29 December 2022. The MoU signed by Dean, Dr Alaknanda Ashok on behalf of the college and Mr Ajay Kumar Pant, Superintending Engineer. According to the contract, 10 training programmes related to the quality check of construction materials will be organized by College of Technology for junior engineers working in the Rural Construction Department. The Vice Chancellor, Dr Manmohan Singh Chauhan said that such agreements are important for the all-round development of Uttarakhand.



KU, Gandhinagar

Kamdhenu University (KU), Gandhinagar, Gujarat has signed MoU with Gujarat Veterinary Research and Diagnostic Center (GVRDC),



Ahmedabad, Gujarat on 04 October 2022.

PJTSAU, Hyderabad

The PJTSAU has signed MoUs with the following institutes / organizations:

- Marut Dronetech Pvt. Ltd, Hyderabad represented by Mr Prem Kumar Vislawath, CEO, and PJTSAU represented by Dr S. Sudheer Kumar, Registrar on 12 October 2022 at Administrative Office, PJTSAU, Hyderabad.



- Indian Institute of Maize Research, Ludhiana, Punjab on 19 October 2022 for promotion of students' training and quality postgraduate research in cutting edge areas in accordance with the provisions of the MoU.

SKUAST, Jammu

SKUAST-J signed MoUs with following institutes/organizations:

- ICAR- Central Citrus Research Institute, Nagpur from 19 October 2022.
- University of Central Florida, Board of Trustees, Florida, USA for 3 years from 21 October 2022 to 20 October 2025.
- Indian Institute of Sustainability, Gujarat University, Ahmadabad for 5 years from 08 November 2022 to 07 November 2027.
- CSTRI, Central Silk Board, Pampore for 5 years from 19 November 2022 to 18 November 2027.
- Indian Chamber of Food and Agriculture, New Delhi from 21 November 2022.

- Manukrishi Private Limited, Jammu for 3 years from 21 November 2022 to 20 November 2025.
- DIRCOLL, Director Colleges, Jammu from 29 November 2022.
- Dr Y.S. Parmar University of Horticulture & Forestry, Solan for 5 years from 02 December 2022 to 01 December 2027.

SKUAST, Kashmir

MoU with CUK for Promotion of Academic and Research Cooperation

SKUAST-K and CUK signed a memorandum of understanding to promote academic and research cooperation between the



two institutions of higher learning on 21 December 2022. The MoU was signed by Prof. M Afzal Zargar and Prof. Sarfaraz A. Wani.

The objectives of the MoU are to undertake joint research work in the areas of mutual interest, formulate research projects and HRD plans for joint work with the due approval of both participating institutions.

MoU with AgroNxt for Calibration and Validation of Soil Testing Device

Endeavored to reduce the time taken for testing and encourage societies for soil testing SKUAST-K and AgroNxt Services Pvt. Ltd. signed a

memorandum of understanding on 9 November 2022. Under this MoU,



BHU-PARISHAK, a soil testing device will be calibrated and validated to help farmers get soil health parameters checked against nominal charges within short time. The MoU was signed by Director Research SKUAST-Kashmir Prof. Sarfaraz A. Wani and CEO AgroNxt Services

Pvt. Ltd. Rajat Vardhan in presence of Scientists of Krishi Vigyan Kendra, Budgam. Vice Chancellor SKUAST-Kashmir, Prof. Nazir A. Ganai impressed on the importance of soil testing in modern agriculture.

TNJFU, Nagapattinam

An MoA was signed between TNJFU, Nagapattinam and M/S. Abhi Vijay Technologies, Chennai at DIVF, Ramanathapuram on 25 October 2022 in the presence of the Vice Chancellor, TNJFU.



PATENTS

ANGRAU, Guntur

The university patented a process for manufacturing of blended fruit squash with prickly pear (*Opuntia ficus indica* and *Opuntia dillenii*) fruit juice and lemon juice (**Patent No: 411468**, date 15 November 2022).

CCSHAU, Hisar

Graphene Oxide-Polycarbonate Track-Etched Nanosieve Platform for Sensitive Detection of Human Immunodeficiency Virus Envelope Glycoprotein, **Patent No. 413178** date 30 November 2022, by K.P. Singh, Anuj Nehra (CCSHAU); Dimiter Dimitrov, Annu Puri (USA rep by Secretary of DHHS).

Dr RPCAU, Pusa

A hand tool for Okra harvesting with collection hopper was designed and developed by Dr P. K.

Pranav, Dr Subhash Chandra and Dr Ambrish Kumar of College of Agricultural Engineering and Technology, Dr RPCAU, Pusa. The patent was granted on 29 December 2022.



Okra Harvesting Tool

SKUAST, Kashmir

Patent on A method to prepare a growth medium for mass production of *Trichoderma* bio fungicide under Liquid fermentation, was granted to SKUAST-Kashmir on 13 October 2022.



AWARDS and RECOGNITIONS

AAU, Anand

Young Scientist Award

- Dr M. B. Zala, Assistant Research Scientist, Agricultural Research Station, AAU, Sansoli was conferred with Young Scientist Award for his meritorious services in Agricultural Entomology in National Conference on Natural Farming for Sustainable Agriculture and National Prosperity organized by Sardarkrushinagar Dantiwada Agricultural University, Akshay Krishi Pariwar and Royal Association for Science-led-Socio-Cultural Advancement (RASSA), New Delhi from 11 to 13 November 2022 at SDAU, Sardarkrushinagar. The award was received in the gracious presence of distinguished dignitaries Dr N. S. Rathore, Ex. Deputy Director General (Education),

ICAR & Ex Vice Chancellor, MPUAT, Udaipur; Dr R. M. Chauhan, Vice Chancellor, SDAU, Sardarkrushinagar; and Dr A. K. Singh, President, RASSA.



Dr M. B. Zala receiving the award

- Dr C. B. Varma, Assistant Professor, College of Agriculture, AAU, Vaso, received Young Agricultural Scientist Award for the year 2022 and Best Poster Award with third position (Bio-efficacy of insecticides



Dr Verma receiving the award

against thrips, *Scirtothrips dorsalis* hood in pomegranate) on the occasion of 4th National Conference on Recent Advances in Applied Entomology and Environmental Sciences organized by the Dr B. Vasantharaj David Foundation, Chennai (Tamil Nadu) during 01 October 2022.

National Gold Medal-2021

Dr M. L. Gaur, Professor (SWCE) Dept. of Agriculture Engineering BACA & Office of Director of Research, AAU, Anand bagged National Gold Medal-2021 Award conferred by Range Management Society of India, ICAR-IGFRI, Jhansi, Uttar Pradesh.



Certificate conferred by the Range Management Society of India

First Prize in National Level Summer Project Competition SPARDHA

The 20th Annual National Level Summer Project

Presentation Competition SPARDHA was organized by Faculty of Management Studies, Institute of Rural Management, Jaipur during 18-19 October 2022 in various categories viz., Agribusiness



Certificate of appreciation by
Institute of Rural Management

Management, Finance, Marketing, Human Resource Management, Rural Management, Business Analytics and Digital Marketing. Five students namely Ms Gopisha Vasoya, Ms Anandi Radadiya, Mr Ruchit Kyada, Mr Dilip Ladumor and Mr Sahil Gondaliya of International Agribusiness Management Institute, AAU, Anand, participated in different categories in this event. Ms Gopisha Vasoya won the first prize certificate with cash of Rs 11,000 under the category of Agribusiness Management by presenting the report of the summer project entitled, FPO-Impact and Issues in Saurashtra Region of Gujarat, assigned by NABARD under the guidance of GJ. Meherdevi, Assistant General Manager as an industrial guide and Dr Chetan Dudhagara, Assistant Professor and Head, IABMI as a college major guide.

Best AICRP Centre on Biological Control

All India Coordinated Research Project (AICRP) on Biological Control of Crop Pests, AAU, Anand, was recognized as the Best Performing AICRP Centre



Scientist receiving the certificate

on Biological Control for the period 2021-22. This award was presented at 31st Annual Review Meeting of AICRP on Biological Control of Crop Pests held at ICAR-National Bureau of Agricultural Insect Resources, Bengaluru, during 20-21 October 2022. This recognition was graciously received in the presence of distinguished dignitaries Dr T. R. Sharma,

Deputy Director General (Crop Science), Dr S. C. Dubey, Assistant Director General (Plant Protection and Biosecurity), ICAR, New Delhi and Dr S. N. Sushil, Director and Project Coordinator, ICAR-NBAIR, Bengaluru.

Breed Conservation Award 2022

Poultry Research Station, Veterinary and Dairy Science Unit of AAU, Anand, is actively engaged in poultry research, teaching and extension-education. Various native (indigenous) and exotic breeds of poultry are being genetically improved and conserved at Poultry Research Station. AAU, Anand was awarded Breed Conservation Award-2022 (Third Position) for Ankaleshwar breed of poultry by ICAR-NBAGR, Karnal. On the occasion of Kisan Diwas, Kisan Diwas and Breed Conservation Award 2022, ceremony was organized by ICAR-NBAGR, on 23 December 2022 at Karnal. Dr B. N. Tripathi, Deputy Director General (Animal Science), ICAR, New Delhi; Dr A. K. Shrivastava, Vice Chancellor, DUVASU, Mathura; Dr Dheer Singh, Director, ICAR-NDRI, Karnal; Dr B. P. Mishra, Director, ICAR-NBAGR, Karnal; Dr (Mrs) Hema Tripathi, National Coordinator (M&E), NAHEP, ICAR, New Delhi; and Dr A. K. Mishra, Principal Scientist and Coordinator, Breed Conservation Award, NBPGR, Karnal, graced the occasion. Dr F. P. Savaliya, Principal Scientist and Head, Poultry Research Station received this prestigious award on behalf of the university.



Scientist receiving the award

Best Poster Award

Dr Ravikumar L. Kalasariya, Assistant Research Scientist at AINP on Pesticide Residues, ICAR Unit-9, AAU, Anand, bagged the Best Poster Presentation Award at 3rd

International Weed Conference on Weed Problems and Management Challenges: Future Perspectives, organized jointly by the Indian Society of Weed Science, AAU, Anand and ICAR-Directorate of Weed Research during 20-23 December 2022. Dr Kalasariya presented research poster on the topic Harvest time residue of Clomazone in soybean.

Fellow Award-2021

In recognition of his outstanding contribution in weed science, Dr V. J. Patel, Professor and Head, Department of Agronomy, BACA, AAU, Anand, was awarded prestigious Fellow Award-2021 by the Indian Society of Weed Science, Jabalpur, during 3rd International Weed Conference, Weed Problems and Management Challenges: Future Perspectives, organized at AAU, Anand from 20-23 December 2022.



Dr Patel receiving the award

Best Thesis Award

Dr Shital Bhojani was conferred with the Best Thesis Award, for quality research work in VII International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2022) during 21-23 November 2022 organized by Astha Foundation, Meerut, India in collaboration with SSDAT, Meerut; CSAUAT, Kanpur; BAU, Ranchi; RLBCAU, Jhansi; SKRAU, Bikaner; ICAR-CIFE, Mumbai; NPU, Palamu; RK (PG) College, Shamli and AFU, Rampur Chitwan, Nepal.



Best Thesis Award

AAU, Students Awarded by Indian Society for Plant Physiology

Students of the Department of Plant Physiology, B. A. College of Agriculture, AAU,

Anand, honoured with four awards at the West Zonal Seminar of Indian Society for Plant Physiology on Innovative approaches for sustainable agriculture use under climate change.

The West Zonal Seminar was organized by the Department of Plant Physiology, N. M. College of Agriculture, NAU, Navsari and Indian Society for Plant Physiology, New Delhi in association with the Climate Change Department, Government of Gujarat on 22-23 December 2022.



ANGRAU, Guntur

- ANGRAU got certificate of Authorization for conducting Remote Pilot training for 5 days conventional and 12 days Agricultural Remote Pilot course, from GCA, Ministry of Civil Aviation, Government of India on 09 November 2022.
- ANGRAU received the Best Award for CeRA (Consortium for e-Resources in Agriculture) usage by the ICAR for the year 2021, which was announced by the DDG (Agril. Education), ICAR on 21 November 2022.
- ANGRAU bagged SKOCH Award (Silver) – 2022 for agricultural research and education during the 84th SKOCH Summit and SKOCH Awards and Virtual Exhibition held on 22 November 2022.

BAU, Ranchi

Dr Sushil Prasad received National Award in Poultry Science

Dr Sushil Prasad, Dean, Faculty of Veterinary Sciences and Principal Investigator, ICAR-AICRP Poultry Breeding Project of BAU, Ranchi was awarded the National Award on the occasion of World Egg Day (14 October 2022).

This award was given to Dr Prasad by the national organization *Pashudhan Prahari*, the organizer of the All India Article Writing Competition, for his informative and excellent writing on Poultry Science. Dr Prasad has been associated with the research work of poultry breeding for decades. Jharsim, a hybrid breed developed by him in the poultry sector, is very popular in backyard poultry farming in Jharkhand and also becoming very popular in the neighboring states of Bihar and West Bengal.

Dr Ajita Soren received Award in International Convention

Dr (Mrs) Ajita Soren, Assistant Professor, Tilka Manjhi Agricultural College, Godda of BAU, Ranchi, was awarded the Prof. S.K. Srivastava Award 2021-22 for the best poster paper presentation at the 18th AJRA International Convention held in Bhubaneswar.

Dr Soren presented a research paper on Relative resistance of gall minz, in a session of convention organized under the joint aegis of OUAT, Bhubaneswar; International Institute AZRA, BAU, Ranchi; National Rice Research Institute, Cuttack; International Rice Research Institute, Philippines, and University of Horticultural Science, Bengaluru from 10-12 November 2022.

Dr RPCAU, Pusa

- Dr K. K. Singh was awarded the Best Researcher Award on the occasion of 2nd World Hybrid Congress on Plant Genomics and Plant Science, held on 06-07 October 2022 at Frankfurt, Germany.
- Dr Vishal Kumar and Er. Ankit Kumar (as mentor) were awarded with 2nd Prize in Calendar Conceptathon on Engineering Innovations for Millet, organized by ISAE, Bhopal during 08-11 November 2022.
- Scientists participated and presented their research works in 7th IAPSIT held at ICAR-Indian Institute of Sugarcane Research,

Lucknow from 16-19 October 2022. Dr Navnit Kumar, Assistant Professor, Agronomy, awarded 2nd position in Oral presentation and Dr Anil Kumar, Assistant Professor, Entomology, awarded 3rd position in poster presentation.

GADVASU, Ludhiana

- Six scientists from GADVASU were conferred prestigious fellowship and associate fellowship by National Academy of Dairy Science (India)

(NADSI) in its 7th Convocation and National Dialogue on Innovations in Reshaping the



Indian Dairying, held at Pandit DUVASU, Mathura, Uttar Pradesh. The awardees are Dr Yashpal Singh Malik, Dean, College of Animal Biotechnology; Dr Nirbhay Kumar Singh, HoD, Veterinary Parasitology; Dr Jaspal Singh Hundal, Department of Animal Nutrition; Dr Nitin Mehta, Department of Livestock Products Technology; Dr Santosh Kumar Mishra, Department of Dairy Microbiology; and Dr Sunil Kumar Khatkar, Department of Dairy Technology.

- The scientists of the Department of Veterinary Anatomy, College of Veterinary Science, GADVASU, were bestowed with prestigious awards during the 36th Annual Convention of the Indian Association of Veterinary Anatomists held at Udaipur from 20-22 December 2022.



- Dr Varinder Uppal, Professor and Head, was conferred with the esteemed Dr V. R. Bhamurkar award for Anatomist of the Year.

- Dr Devendra Pathak, Senior Scientist was conferred with Fellowship of the association.
- Dr Kritima Kapoor, Assistant Professor, won Dr K. S. Roy award and medal for best paper presentation in the session Histo-enzymology and immunohistochemistry.
- Indian Association of Veterinary Pathologists (IAVP) awarded Fellowship to Dr Kuldeep Gupta, Professor, Department of Veterinary Pathology, College of Veterinary Science. 
- Dr Randhir Singh Saini, Professor, Centre for One Health has been nominated as Fellow of Indian Association of Veterinary Public Health Specialists, India at International Symposium 2022 cum XVIII Annual Conference of Indian Association of Veterinary Public Health Specialists (IAVPHS), held at ICAR Research Complex for NEH Region, Umiam, Meghalaya. 
- Dr Pankaj Dhaka, Assistant Professor, Centre for One Health bagged the Best Oral presentation award at International conference on, One World, One Health, held at Chitkara University, Chandigarh. 
- Dr Vaneet Inder Kaur was conferred with Fellow of Indian Ecological Society in 'Indian Ecological Society International Conference-2022 (IESIC 2022)-Sustainable Agricultural Innovations for Resilient Agri-Food Systems, held at Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, India. 

GBPUAT, Pantnagar

Best College of Technology Award

College of Technology of the university was

awarded the Himalayan Educational Excellence Award

2022 by declaring it as the Best State



Government Engineering College of the Year at the 3rd Dehradun International Science and Technology Festival. This award was given on the basis of the educational quality and resources of the college.

Dr Jyoti Palod Honoured with Fellow of Indian Poultry Science Association

Dr Jyoti Palod, Professor, Department of Livestock Production Management, College of Veterinary and Animal Sciences, was honoured as a Fellow of the Indian Poultry Science Association at the 37th Indian Poultry Science Association Conference held at DUVASU, Mathura from 04-06 November 2022 which was graced by the presence of Hon'ble Governor of Uttar Pradesh, Smt Anandiben Patel, and Vice Chancellor, Prof. A.K. Srivastava, DUVASU.



KU, Gandhinagar

- Dr S. K. Bhavsar received Oral Presentation Award-2022 for the research paper entitled Growth promoting effects of thyme oil in broiler, authored by Baria, T.R.; Sadariya, K.A. and Bhavsar, S.K. presented during International Symposium on New Horizons in VPT Research: Way Forward to Augment Livestock Health and Production, held at Veterinary College and Research Institute,



Namakkal, Tamil Nadu during 02-04 November 2022.

- Dr Kamlesh A. Sadariya, Assistant Professor, Department of Veterinary Pharmacology and Toxicology, Anand, was conferred the Associate Fellow of ISVPT Award for the year 2022 during XXII Annual



Conference of Indian Society of Veterinary Pharmacology and Toxicology (ISVPT) and International Symposium on New Horizons in VPT Research: Way Forward to Augment Livestock Health and Production, held at the Veterinary College and Research Institute, Namakkal, Tamil Nadu on 02 November 2022.

- Dr S. K. Raval, Professor & Head, Department of Veterinary Medicine, was been awarded with the **VIPM Fellow** award in the 3rd Annual Convention of the Veterinary Internal and Preventive Medicine Society and National Symposium on Pragmatic Approaches for Animal Health and Welfare in Present Perspective of Climate-Change held at Co.V.S. & A.H., Anand, Kamdhenu University, during 07-09 October 2022. Besides, **Dr Neha Rao**, Assistant Professor, Department of Veterinary Medicine, was awarded Best Poster Presentation Award; **Dr D. B. Sadhu**, Assistant Professor, Department of Veterinary Medicine, got Best Oral Presentation Award; and **Dr Bhavika Patel**, Assistant Professor, Department of Veterinary Medicine, was awarded VIPM Young Scientist Award at the same event.



Dr U. D. Patel received Associate Fellow Award

Dr U.D. Patel, Associate Professor and Head, Department of Veterinary Pharmacology and Toxicology, has received an award of Associate Fellow of the Indian Society of Veterinary Pharmacology and Toxicology (ISVPT)



Dr U. D. Patel receiving awards for the year 2021. He received the Best Poster Presentation Award and Best Oral Presentation Award (Third) in Toxicology of Xenobiotics session during International Symposium on New Horizons in Veterinary Pharmacology and Toxicology Research: Way forward to Augment Livestock Health and Production, organized by TANUVAS, Tamil Nadu during 02-04 November 2022.

Dr Vishnudeo Kumar received Best Paper Award

Dr Vishnudeo Kumar, Associate Professor and Head, Department of Veterinary Anatomy, received Dr Mohan Bhattacharya Silver Jubilee Medal and Award for Best Paper in Histology and

Histochemistry, conferred by Indian Association of Veterinary Anatomists (IAVA) in XXXVI Annual Convention of IAVA held at



Dr Vishnudeo Kumar receiving award

College of Veterinary and Animal Science, Udaipur (Rajasthan) during 20-22 December 2022.

PG Student, Dr Bhesaniya Monaliben received Best Paper Award

Dr Bhesaniya Monaliben Bharatbhai, M.V.Sc. student of Department of Veterinary Anatomy, participated and presented two papers in this XXXVI Annual Convention of

IAVA. She received Dr G. Rajeshwar Rao Memorial Award & Medal for Best Paper in Applied Anatomy including Biomechanics, conferred by IAVA during International symposium organized at College of Veterinary and Animal Science, Udaipur during 20-22 December 2022.



Dr Bhesaniya Monaliben receiving award

Dr Arshi Vagh received 'Best Poster Presentation Award'

Dr Arshi A. Vagh, Associate Professor and Head, Department of Veterinary Medicine participated in 3rd Annual Convention of Veterinary Internal and Preventive Medicine Society and National



Dr A. A. Vagh receiving awards

Symposium on Pragmatic Approaches for Animal Health and Welfare in Present Perspective of Climate Change, organized by Department of Veterinary Medicine, COVSAH, Anand, KU, during 07-09 October 2022. He presented a lead paper on Review of Environmental Change's Implications on Habitats and Wildlife. Dr A. A. Vagh was awarded with Best Poster presentation on "Urinary Bladder Tumor in Kankrej Bullock: A Case Study".

Faculty Achievement

- Dr A. P. Raval, Assistant Professor, College of Veterinary Science and AH, Navsari, has received Dr S. P. Arora Best Paper Award 2021 for article – Effects of soybean and rice bran oil supplementation on lactation performance and milk fatty acid profile in Surti goats. *Indian Journal of Animal Nutrition*. 38(3): 223-232, by the Animal Nutrition Society of India during 19th

biennial International Conference on Nutritional Technologies to Augment Livestock, Poultry, Canine and Fish Production for Global Competitiveness, organized by GADVASU, Ludhiana from 16-18 November 2022.

- Dr Rasesh Varia received best Ph.D. thesis award for the year 2022; 3rd best oral presentation award and 2nd Best Poster presentation



award in XXII Annual Conference of Indian Society of Veterinary Pharmacology & Toxicology (ISVPT) held at Veterinary College, Namakkal, TANUVAS, Tamil Nadu during 02-04 November 2022.

- Three faculties of department of Veterinary Medicine, Veterinary College, Navsari, KU received two Best Oral presentation awards and one poster presentation award in III Annual Convention and National Conference on



Pragmatic Approach on Animal Health and Welfare in Present Perspective of Climate Change, organized by College of Veterinary Science & A.H., Anand, during 07-09 October 2022. Dr S. M. Parmar received first Best Oral presentation award, Dr S. V. Mavadiya second oral presentation award, and Dr S. A. Mehta the Best Poster presentation award.

PJTSAU, Hyderabad

- Dr T. Supraja, Professor and Head, Dept of CCSC, is awarded Best Poster Presentation on Effect of processing on antioxidant activity of karanda (*Carissa carandas*) fruit at different stages of maturity, in

5th International Conference on Food and Nutrition, held on 06-07 November 2022.

- Dr K Keerthi, Teaching Associate received Outstanding Achievement Award in the field of Extension Education and Communication Management on the occasion of VII International Conference on “Global Research Initiative for Sustainable Agriculture and Allied Science (GRISAAS-2022)” during 21-23 December 2022 held at BAU, Ranchi.
- Dr Pretty Rani, Teaching Associate received Best Ph. D Thesis Award 2022 for quality research work on New Media Management for Skill Training Among KGBV Adolescent Girls of Telangana and Jharkhand States, on the occasion of VII International Conference on “Global Research Initiative for Sustainable Agriculture and Allied Science (GRISAAS -2022)” during 21-23 December 2022 held at BAU, Ranchi.
- Ms Sadras Bhavana, received Dr R. Seetharaman Best Ph.D. Thesis Award in the International Conference - (ICSCI 2022) International Conference on “System of Crop Intensification for Climate-Smart Livelihood and Nutritional Security”, held in IIRR, Rajendranagar, 12-14 December 2022 for the Ph.D. thesis work on Characterization of Rice Genotypes for the Degree of Sensitivity to Photo and Thermo Periods, carried out in the Department of Plant Physiology, College of Agriculture, Rajendranagar, Hyderabad.

SKUAST, Jammu

- Dr Nrip Kishore Pankaj, Professor and Head, VPT received Best Poster Presentation award for the paper entitled Status of Oxytetracycline Residue in Meat for Human Consumption in Jammu Region, authored by Nrip Kishore Pankaj, S.A. Andrabi, Sheetal Dogra, P. K. Verma and Md Rashid, presented during 30th Annual Conference of Agricultural

Economics Research Association (AERA-2022), organized in collaboration with SKUAST-J on 21-23 December 2022.

- Dr Pawan Kumar Verma, Professor received Dr Sarvepalli Radhakrishnan Best Teacher Award 2022 in Veterinary Pharmacology & Toxicology on September 2022 by International Multidisciplinary Research Foundation, India.
- Dr Pawan Kumar Verma, Professor received Best Oral Presentation Award for the paper entitled Comparative Efficacy of Quercetin and Catechin in Ameliorating Arsenic and Mancozeb Induced Testicular Toxicity in Wistar Rats, presented in XXII Annual Conference of ISVPT and International Symposium held at Veterinary College and Research Institute, Namakkal, TANUVAS on 02-04 November 2022.
- Dr Pawan Kumar Verma, Professor received Best Poster Presentation Award for the paper entitled Ameliorative Potential of Ginger After Co-exposure with Fluoride and Dimethoate in Hepatic Tissue in Wistar Rats, presented in XXII Annual Conference of ISVPT and International Symposium held at Veterinary College and Research Institute, Namakkal, TANUVAS on 02-04 November 2022.
- Sonali Padha and Maninder Singh got 2nd Prize in Poster Presentation entitled Risk Assessment of *Escherichia coli*, in the 1st National Conference of Association of Mastitis on Implications of Mastitis, organized by Department Veterinary Medicine, DUVASU, Mathura during 19-20 October 2022.
- Arvinderpal Singh, Maninder Singh, M. A. Malik, Sonali Padha, H. K. Sharma, 3rd Prize in Poster Presentation entitled Isolation of Salmonella serotype in Northern states of India, in the XVIII Annual Conference of IAVPHS 01-02 December 2022 held at Umiam, Meghalaya, India.

- Dr Amit Singh Charak, Sr. Scientist and Head of KVK-Doda and Dr Ghanshyam N Jha, Scientist (Fisheries) of KVK-Doda received Fellowship awards (FABRF) from Asian Biological Research Foundation during 4th International Conference on Environment and Society (ICES 2022) held at Gwalior (MP) during 23-24 December 2022.

SKUAST, Kashmir

- Dr Asif Hassan Sofi, Scientist, SKUAST-K, was conferred with Mid-Career Scientist Award-2022 of Indian



Dr Sofi receiving the award

- Society of Sheep & Goat Production and Utilization for his contribution in Sheep & Goat Research and Extension during 43rd National Seminar-cum Annual Conference held at ICAR- CSWRI, Avikanagar, Rajasthan on 10-12 November 2022.

- Dr Azmat Alam Khan, ADR (Animal Science) & Co-workers (Dr Zulfiqur, Dr I. U. Sheikh, Dr Nazir Ahmad and Dr Insha Afzal) were conferred with Best Paper Presentation Award, for revival of backyard poultry in Kashmir during 37th Annual Indian Poultry Science Association conference held at DUVASU, Mathura, on 04-06 November 2022.



- Asim Iqbal Bazaz, Ph.D scholar, Faculty of Fisheries, SKUAST-K, was conferred with Young Scientist Award for research on Production of Sterile Trout using Thermal Shock Treatment for Livelihood and Nutritional



Dr Asim Iqbal Bazaz receiving the award

Security, organized by ICAR –DCWFR, Bhimtal, Uttarakhand, in collaboration with Cold Water Fisheries Society of India on 18-19 November 2022.

- Dr Shabir Ahmad Bhat, Assistant Professor, College of Temperate Sericulture, SKUAST-K was awarded with second Best Presentation Award in National Seminar on Climate Smart Sericulture 2022: Approach for Sustainable Sericulture, organized by Central Silk Board, Ministry of Textiles, Government of India held at NIFT, Bengaluru on 06-07 October 2022.



Dr Shabir Ahmad Bhat receiving the award

All India Agri Startup Conclave 2022 SKUAST-K Innovators Secure First Two Positions

SKUAST-K innovators won 1st and 2nd positions at All India Agri Startup Conclave 2022 held at Bagalkot, Karnataka, on 18-20 October 2022.

Owais Ali Wani, Rafiya Mushtaq and Muskaan un Nisa along with Business Development Analyst Naveed



Hamid represented SKUAST-K for the conclave. The Convention was attended by eminent Industrialists, academicians, Entrepreneurs and Young Startup Founders also.

All the three innovators and their mentors were hailed and appreciated for their innovative sense, ideas and the grooming. Rafiya Mushtaq was adjudged 1st topper in Oral Business Presentation among 19 shortlisted candidates and 2nd Topper in Idea Hackathon, winning a cash prize of Rs 20,000 and a Certificate of Merit. Naveed Hamid was felicitated for Mentoring and motivating SKUAST-K Student Innovators to compete and be the primary reflectors of the Conclave.

Egyptian Agri-tech Company Nominates SKUAST-K Scientist as Advisor

Dr Khursheed Ahmad Dar has been nominated as a scientific advisor by Egyptian-based El-Salhiya Agriculture Co. and its European investment partner 'Netherland Alyasin' for the introduction and infrastructure development of sericulture in the country.



Dr Khursheed Ahmad Dar, an assistant professor of sericulture at SKUAST-K's College of Temperate Sericulture, Mirgund, will be visiting Egypt to provide technical guidance for the establishment of sericulture production infrastructure there.

Dr Khursheed is known for popularizing sericulture in border areas of Jammu and Kashmir and Ladakh, like Gurez, Uri, Lolab and Kargil.

3 SKUAST-K Students Bag Fellowship for Pursuing Masters at Kansas State University

Three students from SKUAST-K have been awarded research fellowships for postgraduate programmes at Kansas State University, Manhattan, USA.



Sabreena Ayoub from the Faculty of Horticulture, Midhat Zulafkar from the Faculty of Agriculture and Muazzama Mushtaq from the Faculty of Forestry will be heading to the USA in the summer of 2023 to join their masters' degrees at the first public land grant university of the world, Kansas State University (KSU).

Sabreena and Midhat will be working under the mentorship of Prof. P. V. Vara Prasad, Director of Sustainable Intensification Innovation Lab, KSU, and Dr Ram Perumal, Professor of Plant Breeding on GWAS and Herbicide tolerance in Pearl Millet, and Muazzama will be working

under Nobel Laureate Dr Chuck Rice on soil carbon dynamics under climate change.

Vice Chancellor, SKUAST-K, Prof. Nazir Ahmad Ganai, said this is an outcome of long-term engagement between SKUAST-K and KSU on the faculty and student exchange programme under the World Bank-ICAR funded NAHEP for the IDP of SKUAST-K.

Naveed Hamid Conferred with Mentor Award in Entrepreneurship

Naveed Hamid, BDA Innovation & Entrepreneurship Cell, IDP, SKUAST-Kashmir, was conferred with the Best Mentor Award by Vice Chancellor, Central University of



Kashmir, during the National Conference-cum-Workshop on Innovation and Entrepreneurship between SKUAST-K and Central University of Kashmir held on 20-21 December 2022.

The ceremony was attended by Directors, Deans, and Registrars from Central University of Kashmir, SKUAST Kashmir, and University of Kashmir. This award was given to him for his tremendous and tangible outcome-oriented work in the arena of innovation, incubation, entrepreneurship and Startup across Union Territory of Jammu & Kashmir (J&K UT).

TNJFU, Nagapattinam

- Ms G. Avanthika, a final year B.F.Sc. student of Dr MGR FC&RI, Ponneri, received Prof. J. R. Dhanze Memorial Award for Best Fisheries Graduate 2022 during the



International Conference on Responsible Aquaculture and Sustainable Fisheries Interact (RASHI-2022), held on 13-16

December 2022 at College of Fisheries, CAU (I), Lembucherra, Tripura. In the same event, Mr. V. V. Yogeshwaran and Mr. Mohammed Burhan Ul-Haq, II year B.F.Sc. students of the institute secured first place for oral presentation on AQUACOP - Cop for the Crop - An Aquatic Drone in the Student Innovation Competition.



LIMELIGHT

AAU, Anand

Foreign Visit Training

Centre for Agricultural Market Intelligence, NAHEP-CAAST Project at AAU, Anand is sending 25 postgraduate students of different colleges of the university at institutes/universities abroad for the international training. Eight students in the subjects of Plant Breeding & Genetics, Biotechnology and Plant Pathology at the International Rice Research Institute (IRRI), Philippines; 12 students in the subjects of artificial intelligence, climate change, IoT, food processing, farm machinery, precision agriculture at the Asian Institute of Technology, Thailand; 2 students in the subject of Bio-fortification and impact of disease and genetic analysis in wheat at International Maize and Wheat Improvement Centre (CIMMYT), Mexico; 1 student at Aberystwyth University,



Vice Chancellor, AAU, Anand and University officers with students

UK and 2 PG students in the subject of food processing at Teagasc Food Research Centre, Ashtown, Dublin, Ireland are scheduled to go for the international training.

ANGRAU, Guntur

- S.V. Agricultural College, Tirupati, organized Diamond Jubilee Celebrations on 19-20 December 2022 in a befitting manner. Dr Rajendra Singh Paroda, Chairman, TAAS and Former Secretary, DARE & Director General, ICAR was the Chief Guest of the programme. Dr A. Vishnuvardhan Reddy, Vice Chancellor, ANGRAU, University Officers, Alumni and other dignitaries participated in this function.
- 4th Andhra Pradesh Higher Education Planning Board (HEPB) Meeting organized at ANGRAU, Lam, Guntur on 29-30 December 2022 in coordination with Andhra Pradesh State Council of Higher Education (APSCHE).

BAU, Ranchi

Administrative Building of the College of Fisheries Sciences Inaugurated

Renowned aquaculture scientist and former Director General, ICAR, Padma Shri Dr Subbana Ayyappan inaugurated the administrative building of college of fisheries sciences, Gumla of Birsa Agricultural University on 27 October 2022. On the occasion, Dr Ayyappan said that Jharkhand is a fast emerging state in fish production. The College of Fisheries Science, Gumla, has succeeded in making its identity on the national stage in just 5 years. In the college, not only studies, but also local appropriate research and small applications will have to be emphasized. He said that the country would need about 220 lakh tonnes of fish in the next 10 years. He said that a total of 30 fisheries science colleges including Gumla (Jharkhand) are functioning

in the country. Every year about one thousand fisheries graduate and post graduate pass out from these colleges. In the next ten years, the country will need 10,000 fisheries graduates and post graduates.

In the presidential address, BAU Vice Chancellor Dr Onkar Nath Singh said that Gumla district is the birthplace of Babu Kartik Oraon. The foundation of Birsa Agricultural University was laid due to his untiring efforts. Former Education Minister Smt Geetashree Oraon said that the agriculture and fisheries sector is very important in the country's economy. Today, the inauguration of the college in Gumla by Dr Ayyappan, the pioneer of aquaculture in the country, is a moment of great pride. State Fisheries Director, H.N. Dwivedi and former Fisheries Director, Dr Rajeev Kumar also shared their views on the occasion.

Cost of Cultivation Scheme of Major Crops Launched in Jharkhand

Government of India is running the cost of cultivation scheme of major crops since 1970 in the country. Till now this scheme was operational in Rajendra Prasad Central Agricultural University, Pusa, Bihar for Jharkhand. With the far-reaching initiative and untiring efforts of BAU Vice Chancellor Dr Onkar Nath Singh, after 22 years, on 16 November 2022 the central scheme of cost of cultivation of major crops was launched in Jharkhand by the Government of India.

In the presidential address on the occasion of inauguration of the three-day training program, BAU Vice Chancellor Dr Onkar Nath Singh said that the implementation of this mega project will facilitate the protection of the interests of the farmers of the state. There will be a need to pay special attention to accurate data collection and its reliability in the plan. On the occasion, consultant Mrs Honey C.H. informed the participants about the administrative guidelines of the scheme and talked about the implementation of the scheme in 15 centers of the state.

A total of 25 participants, including field investigators, field men, statistical assistants and computer operators, from the BAU headquarters and 15 centres of the Jharkhand Implementing Agency and a total of 39 people, including 14 participants from the Bihar Implementing Agency - Rajendra Prasad Central Agricultural University, Pusa, participated in the three-day training program.

Dr RPCAU, Pusa

- **Samvidhan Divas:** The Samvidhan Divas was celebrated at Vidyapati Sabhagar, Pusa on 26 November 2022 to commemorate the adoption of the constitution of India. On this occasion, one of the parks in the campus was named as Samvidhan Park.
- **Agricultural Drone Technology-Exhibition and Field Demonstration:** Organized jointly by CAET, RPCAU and Vill Agro at Barahiya on 13 October 2022 to popularize drone technology in the world's largest Tal area (Mokama). Representatives of IFFCO, NFL and Bayer took part in the event. Around 300 farmers participated.
- **Research Council Meeting:** The 13th Research Council Meeting was held during 21-23 November 2022 in presence of eminent scientists Dr A. R. Pathak, Former Vice Chancellor, Junagadh Agricultural University and Navsari Agricultural University, Gujarat; Dr M. B. Chetti, Former Vice Chancellor, UAS, Dharwad; Dr K. K. Satpathy, Director, NIRJAFT; and Dr P. K. Singh, Director Research, BAU, Sabour as special invitee. During the meeting, progress of various research projects was reviewed and new research projects were finalized.

GADVASU, Ludhiana

- Department of Veterinary Medicine and Directorate of Extension Education organized a dog show on 18 December 2022 at the

University campus. A skill shows by the dog squad of the Home Guards was also arranged.



Breed competitions

were held across eight categories of dogs, wherein more than 125 owners showcased their dogs. Dignitaries released booklets entitled 'Canine Mammary Tumors' and 'The Indigenous Dogs of India'. A large number of breeders exhibited different breeds of dogs, cats and birds at the venue. An exhibition of feed and health supplements, grooming kits, bedding and other accessories was also held.

- College of Fisheries, GADVASU, organized Fish Festival with a message to conserve ecosystem services of aquatic resources for long-term socio-economic benefits. Mouth-watering



Ready-to-eat/ Ready-to-Cook fish products and fish protein supplemented fast foods were displayed and sold during the festival. Ornamental fish and aquaria enthralled the visitors.

- College of Veterinary Science, Rampura Phul, a constituent college of GADVASU started an advanced large animal X-ray facility in the Malwa Region of Punjab. It will benefit the livestock farmers of the region of Punjab and adjoining states by providing diagnosis of various diseases/ailments of large animals.



2022. The programme was graced by dignitaries, like Padma Shri Premchandra Sharma, and Dr Aleen Mukherjee alumni on 11 November 2022. An inter-college debate competition was organized on 12



Dr M. S. Chauhan speaking on the occasion

November 2022 at the University Center in Hindi and English languages on the topic India is Failing to Capitalize on Population Dividend. Padma Shri Dr Madhuri Barthwal, Folk Musician of Uttarakhand, interacted with the students on 13 November 2022. On 14 November 2022, Pt. Govind Ballabh Pant Memorial Lecture was delivered in virtual mode at the University Centre (IDP-NAHEP) by Padma Vibhushan, Dr Anil Prakash Joshi. On 15 November 2022, about 70 alumni of the college of Agriculture (1972 Batch), graced the alumni meet. Former Vice Chancellor, Dr Suresh Chandra Mudgal extended his warm welcome to all the alumni on the occasion. Alumni Meet 2022 and Alumni - The Ultimate Strength of Alma mater- was organized on 16 November 2022 at the University Center (NAHEP Bhawan) by the Alma meter Alumni Advancement Association (4A). The 63rd Foundation Day of the University was celebrated on 17 November 2022 in the Gandhi Hall where Indian *Missile* Scientist, author and professor, Dr Arun Tiwari shared his experiences online. Vice Chancellor, Dr Manmohan Singh Chauhan appreciated the contribution of 1972 batch Alumni.



Dignitaries on the dais during the Foundation Day programme

GBPUAT, Pantnagar

University Foundation Week

The 63rd Foundation Week Programme of the University was organized from 11-17 November

His Excellency Governor Visited the University



Hon'ble Governor of Uttarakhand, Retd. Lt. Gen. Gurmeet Singh, visited the university and inaugurated the General Bipin Rawat Mountain Development Research School at the Norman E. Borlaug Crop Research Center on 13 December 2022, and the gymnasium at Stevenson Stadium and also laid the foundation stone of the Gaura Devi Training Center at Directorate of Extension Education. After that, in Gandhi Hall, Hon'ble Governor and Chancellor of the University, Lt. Gen. Gurmeet Singh appealed to the students to move ahead in the area of agriculture, science and technology with a big aim. He called upon girl students to move forward in the area of education, agriculture industry and national defense. Vice Chancellor, Dr Manmohan Singh Chauhan highlighted the achievements of the university. District Magistrate and Deans, Directors, Professors, Students and Employees of all the colleges of the University were present on this occasion.

Placement of Students of the University

A total of 98 students of various streams (M.Tech Agriculture, Civil Eng., B.Tech Comp. Eng., MBA, B.Tech-Electrical, B.Tech-IT, B.Tech-Electronics & Communication, Civil Engineering, B.Tech. Civil, MBA) were selected by different companies through Directorate of Placement and Counselling of University for various jobs. The selected students will get an annual package ranging from Rs 4.75-18 lakh. The selected students got placements in the reputed companies viz. M/s John Deer India Pvt. Ltd, M/s Hero Motocop Ltd, M/s Mahindra and Mahindra, Mumbai, M/s ALSTOMS,

Reliance Retail Ltd, Larsen & Toubro Limited, M/s BAIF Development Research Foundation, M/s TorcAI Digital Media Pvt. Ltd and M/s Midland Microfin Limited.

All India Badminton, Table Tennis and Professional Quiz Competition Organized

A three-day All India Badminton, Table Tennis, and Professional Quiz Competition, was organized from 31 October to 02 November 2022 at the College of Veterinary and Animal



Sciences. In this competition 332 participants of 17 teams from different provinces participated. Pantnagar team won in Badminton (Women), Ludhiana team in Badminton (Men), Palampur teams in Table Tennis (Women) and Table Tennis (Men). In Professional Quiz II Pantnagar team was the winner. In closing ceremony Vice Chancellor, Dr Manmohan Singh Chauhan, honoured all winners and congratulated them. He said that such competitions create a feeling of mutual harmony and brotherhood among the students.

KU, Gandhinagar

A meeting with Vice Chancellor and Former Secretary, Government of Gujarat

An interactive meeting was organized on 15 November 2022 jointly by Dr N. H. Kelawala, Vice Chancellor and Dr K. N. Shelat, Former Secretary, Government of



Gujarat with Dr P. H. Tank, Principal & Dean, Faculty of Veterinary Science and other staff members of the College of Veterinary Science & A. H., K. U., Anand. Meeting was held to discuss policy plan and solutions in relation to efficient production of feeds and fodder and

research related to global warming and emerging new viruses in the field. Heads of the departments gave insights and discussed possible solutions to propose models of policy plan.

State Yogasana Sports Championship

The first year student of KU, Kadambari Upadhyay participated in the 3rd Gujarat State Yogasana Sports championship 2022 organized by Gujarat Yogasana Sports Association at Nadiad on 12-13 November 2022, and she secured the second position in the Artistic Yogasana Singles and second position in the Artistic Yogasana Pairs events in Juniors category at the state level and was selected for Nationals.



National Yogasana Sports Championship

Kadambari Upadhyay participated in the 3rd National Yogasana Sports championship 2022 organized by National Yogasana Sports Federation at Mumbai on 20-22 December 2022 and she secured the first position in the Artistic Yogasana solo and first position in the Artistic Yogasana group events.



All India National Quiz 2022

All India National Quiz competition was organized by Virbac Animal Health on 15 October 2022. Tejaskumar Trivedi of Navsari College of Veterinary Science & AH, Kamdhenu University, participated in the competitive event and secured third positions.



Felicitation of the Lumpy Skin Disease Warriors

Looking to emergence of lumpy skin disease (LSD) in various districts of Gujarat state, a massive vaccination campaign against LSD was planned by Department of Animal Husbandry, Government of Gujarat. A team of faculties along with interneers and polytechnic students was sent to Kutch and Surendranagar districts as a supporting team to fight against LSD. Dr J. B. Solanki, Professor & Head, Department of Veterinary Parasitology received certificates on behalf of LSD warriors of staff and students of Veterinary College and Polytechnic, Navsari.



PJTSAU, Hyderabad

- **Fit India Freedom Run 3.0:** The NSS units of constituent colleges of PJTSAU conducted Fit India Freedom Run 3.0 (Azadi Ke 75 Saal, Fitness Role Bemisaal), elocution competition on the topic Kill the Cancer in association with ISKCON, Kukatpally. Sixty (60) NSS volunteers participated in the quiz on Traffic Rules & Road Safety Quiz and completed 16 levels, and were awarded with certificates.



SKUAST, Jammu

- Swacchata Pakhwara: KVK Jammu organized series of programme under Swacchata pakhwara as given below:
 - Vermicomposting and Natural farming by utilizing cow dung and agricultural waste on 03 October 2022 with 37 participants.

- Management of Agricultural waste through composting on 06 October 2022 with 37 participants.
- Promotion of Green environment for clean environment on 07 October 2022 with 16 participants.
- Agricultural waste management through button mushroom production technology on 10 October 2022 with 35 participants.
- Cattle waste management, organic waste to wealth through vermicomposting on 14 October 2022 with 22 participants.



- Awareness programmes under Jan Abhiyan: KVK, Jammu, conducted series of Awareness Programmes under Jan Abhiyan Back to Village 4.0 as given below:
 - Paddy Straw Management at Talha on 19 October 2022 with 23 participants.
 - Fodder Production at Biaspur Parlah on 20 October 2022 with 43 participants.
 - Program of mushroom processing at Kaloen on 21 October 2022 with 33 participants.
 - Programme on Fisheries at Nougren on 21 October 2022, with 40 participants.
 - Programme on Agriculture Infrastructure Fund at Badyal Brahmna on 25 October 2022 with 44 participants.
 - Programme on Value addition/processing of cereal, vegetable and fruit crops at Qutab Nizam on 28 October 2022 with 54 participants.
 - Seed Treatment of *Rabi* Crops at Galvadey Chak on 29 October 2022 with 28 participants.



- Harvesting Skill Assessment Competition among the PCP students was organized by the Division of Agronomy under NAHEP-IDP on 06



November 2022 at Research Farm of Division of Agronomy, Chatha and the awards to the winners of the competition were distributed by Vice Chancellor during the valedictory function of Kisan Mela 2022.

- Seed Distribution of newly released wheat variety 'Jammu Wheat 672' among farmers of R. S. Pura and Samba Distt on 21 October 2022 at Experimental farm Chatha.
- Two five-day training programmes on Capacity Building of Women through Livestock Farming, sponsored by National Commission for Women (NCW), New Delhi were organized at FVSc & AH, R. S. Pura, from 17-21 October 2022 and 07-11 November 2022 with 30 women dairy farmers.



SKUAST, Kashmir

Two Walnut Processing Units Inaugurated in Kupwara

Vice Chancellor SKUAST-K, Prof. Nazir A. Ganai, on 27 October 2022, inaugurated two

Model Hi-Tech Walnut Processing Units (WPU) at Sogam and Zirhama in Kupwara district in presence of officers, DDC Member, BDC chairperson and local farmers. Both Units have facilities like walnut dehuller-cum-washer, solar tunnel dryer, cracking, grading and vacuum packing to ensure value addition. Addressing the function at Sogam, the Vice Chancellor said that it is a big breakthrough in the process of the 'One District One Product' initiative. District Kupwara has been designated as Walnut Producing District and the establishment of Walnut Processing Units is a step forward to achieve the goal, said Prof. Ganai and urged the walnut growers to take advantage of these hi-tech processing units, and get scientific know-how from the University and Horticulture department for establishing walnut nurseries and walnut orchards.



Rosemary Park Inaugurated

With an aim to create a model for entrepreneurship development in floriculture, SKUAST, Kashmir, has developed a Rosemary Park at Faculty of Forestry, Benihama campus. The Rosemary Park was inaugurated by Vice Chancellor, SKUAST-K, Prof. Nazir A. Ganai in presence of Registrar Prof. Tariq H. Masoodi; Director Research Prof. Sarfaraz A. Wani; Dean Faculty of Forestry, Prof. Sajad A. Gangoo and Chief Executive, Rahim Greens, Mr Abdul Hamid. On the occasion Prof. Ganai honoured Green man of SKUAST-K, Prof. G.M. Bhat for his mission Green Campus. So far 25,000 plant saplings have been planted on the southern degraded hill slopes of the Faculty by Dr G M Bhat and his team.



Prof. Ganai also inaugurated Plant Nursery developed by Division of Silviculture and Agroforestry which has collaborated with Rahim Greens, an NGO, that is working tirelessly on mission raising and planting 1 million trees. On the occasion, hands on training regarding smart farming practices for model Agroforestry was also given to tribal farmers with special attention to multi-purpose tree species and intercropping of different fodder crops in region-specific agroforestry models.

Agri-Based Functional Foods Startup Launched

SKUAST-Kashmir launched the first-of-its-kind faculty-student startup, Cashmir Biotech Pvt. Ltd at the Shalimar campus. The research-driven Startup, formulated under the aegis of SKUAST-K



Innovation, Incubation and Entrepreneurship (SKIIE) Center, aims to design high-value anticancer functional foods from underutilized plants endogenous to Kashmir. Dr Khalid Z Masoodi, Scientist Plant Biotechnology along with his two MSc students, Dar Murtaza and Aaqib Hurrah, has founded the Startup. Vice Chancellor, SKUAST-K, Prof. Nazir A. Ganai, in his address during the launch function said that there is tremendous potential for such research-based and innovation-led startups given the bioresource-base present in this Himalayan region.

Dr Masoodi said Magic Food (functional food) targets the androgen receptor (AR), a key gene involved in prostate cancer. AR is a therapeutic target for most of the medicines available in the market against prostate cancer.

Budgam Farmer Aims for Self-Reliance in Fish and Chicken Farming

Syed Fida Hussain Safwi of Shippora, Budgam started farming 5 years back with 2 cows, 100 poultry birds and crops like maize, apple,

potato and kale. After receiving technical support and handholding from Krishi Vigyan Kendra, Budgam, his interest in farming grew.

He increased livestock numbers and introduced improved chicken varieties like Vanraja, Keystone, and Kadaknath



under the Department of Biotechnology-funded project. Recently, he has taken up duckery, fish and turkey farming. His annual income from the enterprise is around Rs 13 lakh. Presently the livestock strength is 300 Vanraja, 100 Kadaknath, 350 ducks, three cows, and one fishpond. The daily egg production at the farm is 150, milk production is 30 kg; the net daily income is Rs 3,700. He is a recipient of the Champion Farmer Award from SKUAST-K. He also received appreciation at the UT level. He is an inspiration for other farmers in the area.

Champion Farmer Zamrooda Changes Fortunes of Her Family

Zamrooda Bano, a resident of Kashmir's Grape village Repora, in district Ganderbal was busy doing household chores and assisting her better half in agricultural activities. However, the net income was too less to support the family's needs, particularly the kids' education. The struggle brought the family into contact of Krishi Vigyan Kendra, Ganderbal. The integrated farming model at the KVK inspired her. With KVK's assistance, she established an integrated farm. Presently, she has a 25-dairy cow unit, 59-sheep, 50-key stone golden egg-laying birds, vegetable and grapevine garden. KVK scientists very frequently conduct skill development and knowledge updation programs for her and other farmers of the district. The family's net annual income rose to Rs 12.21 lakh from a meagre amount. Not all that, she now supports women empowerment in the village. She leads a Dairy Cooperative in the area. She is a recipient of the Progressive Farmers' Award, Innovative Farmers Award,

etc. When asked about the secret of her success, she quoted Rumi, "Wherever you stand, be the soul of that place".

SKUAST-K Bags Rs 11-cr DST-PURSE Grant

The government of India's Department of Science and Technology (DST) has selected SKUAST-K for the grant of Rs 11 crore under its Promotion of the University Research and Scientific Excellence (DST-PURSE) programme. The grant recognizes outcome-based research and improved performance in quality parameters like H-index, I-index and university ranking. SKUAST-K has leapt in both H-index and I-index values from 33 in 2017 to 61 in 2022, and 79 in 2017 to 110 in 2022, respectively. Under this programme, DST will support human resource development and augmentation of facilities for high-end research. The university will receive funds for four years beginning in 2023.

Director Research Dr Sarfaraz A Wani, Dr Syed Mudasir Andrabi, and Dr Asif Bashir Shikari presented and defended the mega-project before the DST task force committee on 15 November 2022.

"Advanced research in plant and animal sciences will lay a foundation for revolutionary agriculture in J&K," said Prof. Nazir Ganai, Vice Chancellor, SKUAST-K.

SVPuat, Meerut

- Eight students of the college were selected as Veterinary Officer in Department of Animal Husbandry, Government of Uttar Pradesh.
- Department of Animal Genetics and Breeding organized workshop on Introduction to Data Management using Google Workspace. Faculty members of different departments of COVAS attended this workshop in three different batches from 09-11 November 2022.

- NSS Unit COVAS observed Clean India campaign on 15, 22 and 29 October 2022 in



which volunteers collected single use plastic waste from the university premises.

- A Team of 20 students was selected for participation in All India Veterinary College's Badminton, Table Tennis and Quiz Competition



which was organized by G.B. Pant University of Agriculture and Technology, Pantnagar (Uttarakhand) from, 31 October to 02 November, 2022. The quiz team won the silver medal in the above competition and table tennis and badminton team reached in the quarter final.

- 11 Animal Health Camps were organized under IFFCO Project, where faculty members of COVAS took active participation. 1386 animals were treated and 464 farmers were benefited.

RESEARCH PUBLICATIONS (≥12 NAAS RATING)

AAU, Anand

- Rathod Paresh H., Shah Paresh G., Parmar Kaushik D. and Kalasariya Ravi L. (2022). The Fate of Fluopyram in the Soil-Water-Plant Ecosystem: A Review. *Reviews of Environmental Contamination and Toxicology*, 260 (1): 1-19. **(NAAS Score: 13.56).**

KU, Gandhinagar

- Zhenbin Liu, Xuebing Xing, Dan Xu, Bimal Chitrakar, Liangbin Hu, Subrota Hati, Haizhen Mo and Hongbo Li (2022). Correlating rheology with 3D printing performance based on thermo-responsive κ-carrageenan/Pleurotus ostreatus protein with regard to interaction mechanism. *Food Hydrocolloids*, 131 (6): 107813. <https://doi.org/10.1016/j.foodhyd.2022.107813> **(NAAS Score 15.15).**
- Dan Xu, Zhenbin Liu, Zinuo An, Liangbin Hu, Hongbo Li, Haizhen Mo, Subrota Hati 2022. Incorporation of probiotics into 3D printed Pickering emulsion gel stabilized by tea protein/xanthan gum. *Food Chemistry*. 409: 135289 <https://doi.org/10.1016/j.foodchem.2022.135289> **(NAAS Score 13.51).**

SKUAST, Jammu

- Kumar P., Sharma Neelesh, Ahmed M.A., Verma A.K., Umaraw P., Mehta N., Abubakar A.A., Hayat M.N., Kaka U., Lee S.J. and Sazili A.Q. (2022). Technological interventions in improving the functionality of proteins during processing of meat analogues. *Frontiers in Nutrition*, 9:1044024. DOI: <https://doi.org/10.3389/fnut.2022.1044024>. **[NAAS: 12.59]**
- Kumar P., Mehta N., Abubakar A., Verma A., Kaka U., Sharma Neelesh, Qurni A., Pateiro M., Kumar M. and Lorenzo J.M. (2022). Potential alternatives of animal proteins for sustainability in the food sector. *Food Reviews International*, <https://doi.org/10.1080/87559129.2022.2094403> **[NAAS: 12.04]**

TNJFU, Nagapattinam

- Arisekar U., Shakila R.J., Shalini R., Jeyasekaran G., Arumugam N., Almansour

A.I., Keerthana M. and Perumal, K. (2022). Bioaccumulation of organochlorine pesticide residues (OCPs) at different growth stages of pacific white leg shrimp (*Penaeus vannamei*): First report on eco toxicological and human health risk assessment. *Chemosphere*, 308: 136459 **(NAAS Rating 13.94)**.

- Surya, T., Jeyasekaran, G., Shakila, R.J., Sivaraman, B., Shalini, R., Sundhar, S. and Arisekar, U. (2022). Prevalence of biofilm-forming *Salmonella* in different seafood contact surfaces of fishing boats, fish landing centers, fish markets and seafood processing plants.; *Marine Pollution Bulletin*, 2022, 185 (part A), 114285 **[NAAS – 13.01]**.

NEW VICE CHANCELLORS

Agriculture University (AU), Kota

Dr Abhay Kumar Vyas

Dr Abhay Kumar Vyas was born on 01 January 1962 at Gwalior, Madhya Pradesh, India. He did B.Sc. (Ag.) from SKN College of Agriculture, Jobner with University Merit Gold Medal in 1983, and obtained M.Sc. and Ph.D degrees in Agronomy from IARI, New Delhi with highest Grade Points in 1983 and 1988, respectively. He also obtained Diploma in Management from IGNOU, New Delhi in 1996 with first Division.



Dr A. K. Vyas started his career as Asstt. Development Officer (Technical), NABARD in July 1988 and soon decided to pursue academics as Assistant Professor in RAU, Bikaner, and joined the services at ARS, Borkheda, Kota on 01 November 1989 and soon shifted to Rajasthan College of Agriculture (RCA), Udaipur. In May, 1996 he was selected as Associate Professor. Later in October 2000 Dr Vyas joined ICAR services as Principal Scientist at ICAR-National Research Center for

Soybean, Indore (now Indian Institute of Soybean Research). He also served as Head, Division of Agronomy, IARI, New Delhi from February 2010 to March 2014, and then Assistant Director General, Human Resource Management (ADG-HRM), ICAR, HQ, New Delhi in March 2014 and served up to 11 October 2022 before joining as fourth Vice Chancellor of Agriculture University, Kota, Rajasthan on 12 October 2022.

His field of specialization is soybean agronomy and nutrient management in cropping systems. He developed/refined 26 technologies for enhancing crop productivity, profitability and sustainability as well as developed new concept for better use of low-grade rock phosphate.

As first ADG (HRM) of ICAR, Dr Vyas established and made fully functional Human Resource Management Unit at ICAR Headquarters; developed Institutionalized System of Training in ICAR; formulated and implemented ICAR HRM Policy: Training and Capacity Building for all the categories of employees: Scientific, Technical, Administrative, Finance and Skilled Support Staff. For the first time in ICAR, he initiated and coordinated many strategic HR decisions like—implementation of Systematic Approach to Training through Training Needs Analysis (TNA); Design, Development, Implementation, Evaluation, and Impact Assessment of Trainings. Ever first, Executive Development Programmes for 65 Senior Officers of ICAR were organized with international exposure visits of multidisciplinary Scientific and Administrative staff together.

His effective overall coordination, implementation and monitoring of training in ICAR during 2014-22 resulted in training of more than 23,000 employees of all categories as per need through more than 3,200 training programmes. The HRM initiatives and accomplishments of ICAR during his tenure are not only recognised by the ICAR but also by DoPT, GoI, and some of them are being implemented in various Central Government Ministries/Departments after taking the cue

from ICAR since 2018.

He served the Indian Society of Agronomy, New Delhi in various capacities as Joint Secretary, 2007, 2008; Vice President, 2013-2016; and President, 2017-2020. He also served other professional societies as Vice President, Society for Soybean Research and Development, Indore in 2003 and Indian Society of Agricultural Science (ISAS), New Delhi during 2016-2022; Secretary, ISAS during 2011-2012; Joint Secretary, ISAS during 2009-2010 and Editor-in-Chief, Annals of Agricultural Research, ISAS, New Delhi from 2013-2015. He was admitted as Fellow of ISA in 2007.

He organized 03 International Agronomy Congress, 02 International Educational Programmes and 07 Training Programmes with International component. As major guide, he guided 06 M.Sc. and 06 Ph.D. students. He has 211 publications to his credit including 100 research papers in reputed international and national journals, 04 books, 12 book chapters, 06 manuals, 03 training modules, 07 bulletins. He visited China, Malaysia, Thailand and Afghanistan and represented India in the SAARC Regional Conference at Kabul.

Jawaharlal Nehru Krishi Vishwavidyalaya (JNKV), Jabalpur

Prof. (Dr) P. K. Mishra

Prof. Pramod Kumar Mishra did his B.Sc. (Agri.) from JNKVV in 1977-78; M.Sc. (Agri.), Agricultural Economics and Farm Management from JNKVV in 1979-80 and Ph.D. (Applied Economics), Agricultural Economics and Farm Management from RDVV, in 1987.



Dr P. K. Mishra in his professional career worked as Assistant Professor from 1980-1993; Associate Professor from 1993-1999 and Professor in 1999-2009. Before joining on the post of Vice Chancellor,

JNKV, Jabalpur Prof. Mishra held many important positions such as Prof. & Head, Department of Agril. Economics; Dean, College of Agriculture, Jabalpur & Tikamgarh; Director Instruction (Dean PG); Director Extension Services; Dean, Faculty of Agriculture; Director Research Services and Registrar, JNKVV (Additional Charge).

During his long service period of 41 years, Prof. Mishra also held many additional responsibilities viz. Honorary Director In-charge Cost of Cultivation Scheme Madhya Pradesh and Chhattisgarh; Course Director, Master of Agribusiness Management (MBA) in Agriculture; Honorary Director In-charge, Agro-Economic Research Centre Madhya Pradesh and Chhattisgarh; Professor Chair Unit and Project In-charge, NABARD; member Fifth Dean Committee constituted by the Indian Council of Agriculture Research for Agriculture Science.

He has also served as Chairman or member of various committee/council/boards, etc. such as Member, Board of Studies - ICAR Post Graduate - Unified Curriculum Development; Member, Board of Studies - Course Curriculum development in Banaras Hindu University, Banaras; Member, Academic Council (15 years), JNKVV, Jabalpur; Member, Executive/Administrative Council (15 years), JNKVV, Jabalpur; Chairman, Career Advancement Scheme Screening Committee (CAS), JNKVV, Jabalpur; External Member, PPV & FRA, Ministry of Agriculture, Govt. of India; Member, Board of Management, Mahatma Gandhi Chitrakoot Gramodaya Vishwavidyalaya, Chitrakoot; Member, Academic Council, Central Agricultural University, Imphal; Member, Institute Management Committee, ICAR Institutes- IIPR, Kanpur, IISS, Bhopal; IISR, Indore; DWSR and ATARI, Jabalpur.

During his period as Director Research Service, JNKVV, 24 improved varieties (cereals, pulses, oilseeds, forage and millets) were released and notified; 06 farmer's varieties registered by PPV&FR; 06 patents granted; 14 MoUs signed between JNKVV and other organizations and

20 *ad hoc* Research Project worth Rs 1,157.70 lakh were sanctioned by different National and International funding agencies. Prof. Mishra has published 94 Research Papers, book chapters and other publications.

Under the leadership of Dr Mishra, centrally sponsored scheme –Cost of Cultivation of major crops of Madhya Pradesh and Chhattisgarh– was awarded the Best Centre of Cost of Cultivation Scheme at National level.

Dr Mishra completed 21 Research studies under Agro Economics Research Center, Madhya Pradesh and Chhattisgarh, a project of Ministry of Agriculture, by Ministry of Agriculture, Government of India and also 12 Research studies completed and submitted under NABARD. Dr Mishra has created database of one lakh farm family for Kisan Mobile Advisory for sending advisory messages to about 120,460 farmers.

He has been Member, Executive Committee Indian Society of Agricultural Economics; Editor in Chief, JNKVV Research Journal JNKVV, Jabalpur.

Dr Mishra has been a Member, Selection Committee, Union Public Service Commission, New Delhi and Member, Selection Committee, Public Service Commission of Rajasthan, Ajmer.

Maharana Pratap University of Agriculture & Technology (MPUAT), Udaipur

Dr Ajeet Kumar Karnatak

Presently Vice Chancellor, Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) since 15 October 2022. Earlier he has served as Vice Chancellor of Veer Chandra Singh Garhwali Uttarakhand University of Horticulture & Forestry, Bharsar, Pauri-Garhwal during 22 July 2019 – 12 October,



2022. Prof. Ajeet Kumar Karnatak, born on 09-07-1959 at Almora, Uttarakhand, completed his Ph.D. Entomology from GBPUAT, Pantnagar in 1985. He has about 21 years of experience as Professor and about 38 years of experience in Teaching, Research and Extension. During his services he has also been given administrative charges like Warden, Associate Dean Student Welfare, Associate Director Liberal Education, Estate Officer, Director Monitoring, Chief Security Officer, Chief Vigilance Officer, Chief Personnel Officer, Dean Student Welfare, Head of Department, and Additional Director Administration & Monitoring, etc. He has also successfully accomplished the Additional Charge of Vice Chancellor, Doon University, Dehradun from 14 December 2019 to 15 December 2020. Fifteen Ph.D. and 21 M.Sc. students have completed their degree programmes under his guidance. During his services, he has been awarded more than 13 Awards for his outstanding performance (like Scientist of the year award, Dr R. S. Paroda Award, Dr S. L. Mishra Medal, etc.), participated in more than 58 National and 14 International Conferences, published more than 109 research papers in refereed journals along with 67 popular articles, handled 15 Research Projects, formulated 03 academic programmes and done 04 Important MoUs for academic collaborations. Recently, awarded by prestigious CHAI Honorary Fellow-2020 Award at PJTSAU, Hyderabad, Best Vice Chancellor of the Year-2021 award on Teachers Day by Chief Minister of Uttarakhand, and Honour by Principals' Progressive Schools' Association, Uttarakhand in October 2021. He has worked as chairman of peer review team (PRT) for accreditation of College of Horticulture, Bengaluru under the aegis of UHS, Bagalkot.

National Dairy Research Institute (NDRI), Karnal

Dr Dheer Singh

Dr Dheer Singh, has been the Joint Director research and Head, Animal Biochemistry Division at ICAR- National Dairy Research Institute (NDRI), Karnal before joining as Director and Vice Chancellor of ICAR-NDRI in December 2022.



Previously, he served as a Scientist (1994-2003), Senior Scientist (2003-09) and Principal Scientist (2009 to to-date), in the Animal Biochemistry Division, ICAR-National Dairy Research Institute, Karnal.

Dr Singh obtained his bachelor's and master's degree in Biochemistry from Lucknow University in 1988, and Ph. D. from National Dairy Research Institute in 1995. He is one of the eminent scientists in exploring the basic understanding of the structure, function and regulation of key molecules or determinants of female fertility in buffaloes. In his exploratory journey, he utilized granulosa cells as model systems to understand the ovarian biology by implementing molecular endocrinology, functional genomics, point of care diagnostics and novel delivery systems. In addition, his studies identified the prominent signaling pathways in the ovarian and uterine cells under the influence of microbial molecular patterns such as LPS. Recognizing the potential of bovine and non-bovine milk bioactive molecules as nutraceuticals and therapeutics, his team characterized the buffalo and cow milk exosomes and proved them as smart delivery vehicles for hydrophilic and hydrophobic molecules.

He published more than 95 research papers in highly reputed journals, such as *Reproduction*, *Biology of Reproduction*, *Endocrinology*, *International Journal of Biological Macromolecules*, *Journal of Functional Foods*,

etc. He has 2 patents to his credit. His collaborations both at national and international level are commendable.

His research was well recognized by prestigious National Scientific Societies, and decorated him with awards such as Fellow of National Academy of Science, India (NASI)-2016, Fellow of National Academy of Agricultural Sciences (NAAS), BOYSACAST Fellowship Award; Chellappa Oration Award, 2014 by ISVPT; SAB Biotechnology Award 2012; Fellow of Society of Applied Biotechnology, 2012; and the prestigious ISSRF Labhsetwar Award in 2013.

Rani Lakshmbai Central Agricultural University (RLBCAU), Jhansi

Dr Ashok Kumar Singh

Dr Ashok Kumar Singh was born on 01 December 1962 in village Semara Hardo Patti, District Kushinagar, Uttar Pradesh. He obtained his B.Sc. (1982), M. Sc. (1984) and Ph.D. (1991) degrees from Chandra Shekhar Azad University of Agriculture and



Technology (CSAUA&T), Kanpur. Before joining as Vice Chancellor, Rani Lakshmi Bai Central Agricultural University, Jhansi, Uttar Pradesh, in October 2022. Dr Singh has served NARS (SAU & ICAR) in various capacities, viz. Assistant Professor, CSAUA&T, Kanpur, 1987-1998; Associate Professor, CSAUA&T, Kanpur, 1998- 2001; Associate Director Extension, CSAUA&T, Kanpur, 2001-2005 (Independent Charge of Directorate of Extension during July 2003 to July 2005); Zonal Coordinator, Zone IV, ICAR, Kanpur, 2005-2010; Zonal Project Director, Zone IV, ICAR, Kanpur, 2010-2014; Assistant Director General (Agricultural Extension), ICAR, New Delhi, 2014; Deputy Director General (Agricultural Extension), ICAR, New Delhi, 2014. Besides, he also held additional charge of various important positions while receiving as DDG (Agril.

Extension) at ICAR headquarters such as Deputy Director General (Fisheries Science), (Additional Charge), ICAR, New Delhi, 2015-16; Deputy Director General (Horticultural Science), (Additional Charge), ICAR, New Delhi, 2016-2017; Director & Vice Chancellor (Additional Charge), ICAR-IARI, New Delhi, 2017-2020.

Dr A. K. Singh has received many prestigious awards for his outstanding contribution in Agricultural Education some of these are: Swami Sahajanand Saraswati Best Extension Scientist Award, 2013 of ICAR; Excellence in Science Award, 2018 by The Society of Agricultural Professionals; Lifetime Achievement Award, 2018 by Society for Agricultural Innovation and Development; Member, Farmers Commission, Uttar Pradesh, 2018; Award of Excellence, 2017 Chandra Shekhar Azad University of Agriculture and Technology; Extension Leadership Award, 2017 by Participatory Rural Development Initiatives Society; Harit Ratna Award, 2016 by All India Agricultural Students Association; Daulat Singh Memorial Extension Scientist Award, 2011 by Society of Extension Education; Young Scientist Award, 1999-2000 by Indian Society of Extension Education; O.P. Dahama Memorial Award, 2007 by Indian Society of Extension Education; Krishi Bhushan Award, 2005 by Chandra Shekhar Krishak Samitee.

Dr Singh is fellow of Indian Society of Extension Education, Society of Extension Education, Indian Society of Horticultural Research and Development, International Society of Noni Science, Andaman Science Association, Society of Agricultural Professional, Uttar Pradesh Academy of Agricultural Sciences.

His Research Areas are Extension System, Models, Approaches, Technology adoption.

Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya (RVSKVV), Gwalior

Prof. (Dr) Arvind Kumar Shukla

Prof (Dr) Arvind Kumar Shukla, a renowned academician and researcher has been working as Vice Chancellor of RVSKVV, Gwalior since 17 November 2022. Prior to that he has served as Project Coordinator (AICRP, Micronutrients (2011 to 2022); Principal Scientist, ICAR-NRRI, Cuttack (2008-11); Senior Scientist, ICAR-IIFSR, Meerut (2006-2008); Senior Scientist at ICAR-CPRI, Shimla (2003-2006); Scientist at ICAR-IIFSR, Meerut (1996-1998), Assistant Professor at GBPUAT, Pantnagar (1995-1996). Dr Shukla born in village-Bedipur, district Kanpur, Uttar Pradesh on 03 January, 1966. He obtained his B.Sc. (Ag.) & AH honours in 1986 with 84.2%, and university silver medal, M.Sc. (Ag.) in Soil Science & Agricultural Chemistry in 1988-CGPA-10/10, with Chancellor gold medal and Ph.D. in 1993 in Soil Science & Agricultural Chemistry with CGPA 8.78/10 from CS Azad University of Agriculture and Technology, Kanpur.



He has performed multidisciplinary research at various institutions through 21 externally funded projects as PI/Co-PI with research grants of Rs.3768 lakhs by agencies including World Bank (NAIP-NATP), ADB, CIMMYT, IRRI, International Plant Nutrition Institute, International Zinc Association, ICRISAT, DST, ICAR, NASF, MoA & FW, FAO, etc. Performed soil health appraisal- across the country (640 districts) and developed e-atlas on "Micro-secondary nutrients status in India" and provided technical advice & back-stopping to GOI on status of deficiency/sufficiency level and revised critical limit. He coordinated the farmer's Need-based Research tribal support programme in Madhya Pradesh, Gujarat, Himachal Pradesh, Jharkhand, Manipur, West

Bengal, Tamil Nadu, Telangana, Maharashtra, Bihar and Assam for livelihood of tribal people. Dr Shukla worked in close collaboration with International Rice Research Institute (IRRI), Philippines, International Plant Nutrition Institute, Canada and, International Maize and Wheat Improvement Centre" (CIMMYT) for developing conservation agriculture and SSNM/INM in crops and cropping systems.

Dr Shukla also acted as Member, Research Advisory Committee- ICAR-CAFRI, Jhansi (2021-24) IGKV, Raipur (2017), Member, Institute Management Committee- ICAR-IISS, Bhopal (2011-2014), NBSSLUP (2018-21), ICAR-NIHSAD (2020-22), Member, Board of Studies- St. Paul Sr. Secondary School (2014-2020), Vice President- Indian Society of Soil Science (2017-2018); Member, Advisory Board, Fertilizer Association of India-2011-till date, MoUs signed (10 nos.) with different agencies/institutions including with AIIMS, Bhopal and Pramukh Swami Medical College, Anand, Gujarat. He represented India in SAARC Regional Consultation meeting on "Impact of Agricultural Chemicals input on the environment and human health" in South Asia on 21-22 April, 2021.

Dr Shukla bagged 25 honours and awards including Rafi Ahmed Kidwai Award (2020) for outstanding contribution in Natural Resource Management, NAAS-Fellow (2017) for outstanding research on micronutrients, NAAS Recognition Award (2020) and NABS-Fellow (2020) for excellent contribution in soil, water and environmental science, International Zinc Award- Brussels, Belgium (2014) for establishing link between soil health and human health, International Plant Nutrition Institute Award Norcross, USA (2016) for enhancing resource use efficiency and ICAR - Chaudhary Devi Lal Outstanding AICRP award (2016) for excellent work and outstanding leadership, ISSS -Fellowship Award (2021) and ISSS -Young Scientist Award (2005) for outstanding work in soil science along with several other awards for fertilizer management and yield maximization, etc.

Sri Karan Narendra Agriculture University (SKNAU), Jobner

Prof. (Dr) Balraj Singh

Prof. Balraj Singh has joined as Vice Chancellor of SKN Agricultural University, Jobner on 15 October 2022. Before joining as Vice Chancellor of SKN Agricultural University, Jobner, Prof. Balraj Singh has worked as Vice Chancellor, Agriculture University, Jodhpur, Rajasthan from March, 2016 to March 2019, Director, National Research Centre on Seed Spices, Ajmer from Sep 2012 to March 2016 and Project Coordinator, Honeybees & Pollinators, ICAR - IARI, New Delhi, from April 2019 to Oct 2022. He is Doctorate in Vegetable Science and a known scientist in the field of protected cultivation, Seed Spices and Vegetable crops in India.



Prof. Singh got international training on Leadership and Decision making at world's most prestigious management institute, Harvard Kennedy School at Harvard University, Cambridge USA. During 2000 he also participated in training on Horticultural crop production under climatic constraints at Faculty of Agriculture, Hebrew University, Rehovot, Israel. He has been the member of the pioneer team that implemented Protected Cultivation Technology in India under the Indo-Israeli collaborative project established in the year 1999. Later the project took shape of the Centre for Protected Cultivation Technology (CPCT), IARI, New Delhi, where he worked for more than 13 years and also headed the same for more than 4 years. He has standardized numerous low cost and energy efficient protected cultivation technologies suitable for different agro-climatic conditions for Indian farmers to bring up vegetable production at new heights. He achieved vast research experience on hi-tech horticulture by handling

many in-house, externally funded and inter-institutional projects. He had also been Consortia Principal Investigator of NAIP project of 1.0 million USD funded by World Bank on Protected Cultivation of High Quality Vegetables and Cut Flowers: A Value Chain Approach.

As a resource person, Dr Singh has been a conducted more than 50 national and international training programmes for scientists, professionals and farmers on various aspects like Hi-tech nursery raising in vegetables, advances in protected cultivation of vegetables, plant protection of horticultural crops under protected conditions, seed production in vegetables, etc. member of various Working Groups formed in Indian States for implementation of Protected Cultivation and Hi-Tech Vegetable Farming. During 34 years of his professional carrier, he has acquired valuable experience in research, teaching, HRD and extension in the field of vegetable crops and protected cultivation. He is the founder Secretary of the Indian Society for Protected Cultivation and Fellow member of Academy of Sciences, Engineering and Technology, Indian Society of Seed Technology, Horticulture Society of India, Indian Society of Vegetable Science, Indian Society of Seed Spices. Dr Singh has guided several post graduate and Ph. D. students as chairman and member of the advisory committee at Indian Agricultural Research Institute, New Delhi and at NRCSS, Ajmer. Dr Singh has published more than 150 research papers and 50 book chapters in national and international journals and books of repute. He has also written more than 120 technical and popular articles to disseminate the developed technologies among farmers and stakeholders of the country. Dr Singh is also the author of the first Indian text book on Protected Cultivation of Vegetable Crops .

**Swami Keshwanand Rajasthan
Agriculture University (SKRAU),
Bikaner**

Dr Arun Kumar

Dr Arun Kumar is a proficient researcher and author in the field of Agronomy. In his 23 years of academic experience, Dr Arun Kumar has served in various capacities as Assistant Professor, Junior Agronomist (1998-2005) and Associate



Professor (2005 – 2011). Dr Arun Kumar has also served as the Director Planning at Bihar Agricultural University, Sabour during which he developed the Road Map of the university and headed the PME Cell and Institutional Quality Assurance Cell (IQAC) of the university. He has also served as the Dean (Agriculture), DRI cum Dean (PGS), Comptroller and Director Research at Bihar Agricultural University, Sabour. During 2021-22, Dr Arun Kumar has also served as the Vice Chancellor of Bihar Agricultural University. During his tenure as Vice Chancellor, the Bihar Agricultural University and all its constituent colleges were accredited by ICAR and three new colleges were established under the BAU, Sabour.

Dr Arun Kumar has also guided number of Master's and Ph.D. students and have number of publications to his credit including 37 Research Papers, 30 Edited/ Authored Books, 19 Popular Articles and many more.

Dr Arun Kumar has handled various projects including nine consultancy projects of BAMETI, Patna. He has also chaired/co-chaired technical sessions of various national and international seminars, symposia and conferences. He has also led the state level committee for preparation of agricultural road map of the Bihar State. Considering his outstanding contributions in the field of agriculture, Dr Arun Kumar has been awarded with award for excellent contribution in

agriculture sector by his Excellency, the Governor of Bihar.

University of Agricultural Sciences (UAS), Bangalore

Prof. (Dr) S. V. Suresha

Prof. S. V. Suresha assumed the position of Vice Chancellor at the University of Agricultural Sciences, Bengaluru (UAS-B), on 28 October 2022. He obtained his Master's degree in Agriculture Extension in 1987 and Doctorate in



Agricultural Extension in 1993 with Gold Medal from UAS-B. He began his career in Bengaluru as a Scientific Officer with the Department of Science and Technology, Planning and Institutional Finance, Government of Karnataka. He joined the University of Agricultural Sciences, Bengaluru, in 1995. As an Assistant Professor Dr Suresha, served with honor for 28 years in various capacities, including Associate Editor at Communication Center, Programme Coordinator of Krishi Vigyan Kendra, Bangalore Rural, Coordinator and Head, Bakery Training Unit, Comptroller and Dean of Students Welfare.

As coordinator of the Bakery Training Unit, Dr Suresha has devised and introduced 15 new training courses for stakeholders. He established placement cell for trainees/students of 14-week certificate course and one-year diploma programme. With his initiation, BHEL, Bengaluru, established a bakery production unit at the Women Central Jail in Tumkur using CSR funds and Training programme for wives of MEG centre soldiers in Halsur, Bengaluru, to empower them for self-employment. He developed and commercialized 22 Technologies on a cost basis to increase secondary Agriculture.

As Comptroller of UAS-B, he implemented HRMS before any other SAU in the state.

Employed ESI for the contract workers. Submitted annual account and received a reimbursement of Rs 13,209 lakh from the University for the first time. Mobilized Rs 28.15 billion in grants for the University's infrastructure development.

As Dean of Student Welfare, he was in charge of the NSS, NCC, Health care service, Placement cell, International cell, and Youth Red Cross. He introduced Pradhan Mantri Bhartiya Janaushadhi Pariyojana (PMBJP) in the UAS dispensary and also created superior class international hostel facilities to attract international students.

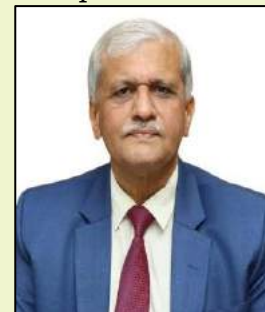
He attempted to expand the boundaries of knowledge through more than 200 research articles in prestigious journals, including 129 (National/International) research papers, 11 books, 1 international US patent, and 54 video documents. He supervised/co-supervised 23 M.Sc. students and five Ph.D. students. Dr Suresha received three international awards, and 18 national and state accolades for his extensive achievements.

He has travelled to several countries, including Indonesia, and the United States, to participate in International Training programmes and develop academic linkages.

University of Agricultural Sciences (UAS), Dharwad

Dr P. L. Patil

Dr P. L. Patil joined on the post of Vice Chancellor of University of Agricultural Sciences, Dharwad, Karnataka on 28 October 2022. Dr P. L. Patil born on 22 May 1961, at Dhundashi village of Haaveri district, Karnataka, India. Coming from a farming family, he completed his primary and higher primary education Mantagani in Savanur taluk near to his native place and pre-university in Hubli. He



completed his B. Sc. (Agri.) in 1984; M.Sc. (Agri.) in 1986 and Ph.D. in Soil Science and Agricultural Chemistry in 1995. Dr Patil began his career as an Assistant Professor in the year 1994, promoted to Associate Professor in 1997, and Professor in 2005. He has an illustrious professional career of 36 years with 25 years of teaching, 8 years of Research and 15 years of administrative service. He has been Chairman on the committee of 8 Ph.D. and 20 M.Sc., students.

Dr Patil is recipient of many prestigious awards viz. Team Award for AICRP, Belvatagi for Underground Water Augmentation on Farmers' Participatory Action Research Project, by the Ministry of Water Resources, GoI, New Delhi during 2009-10; Asia Geospatial Excellence Award (Team award to Sujala-III Project) for Application of Geo-spatial technology for Watershed Management during 2017; Two Incentive awards of UAS Dharwad for mobilizing grants through externally funded projects. He was nominated by Hon'ble President of India as a Member of Executive Council of Central University, Bilaspur, Chhattisgarh, for the period from 2019 to 2022. He also served a term as Vice President, Indian Society of Soil Survey and Land Use Planning, Nagpur, from 2019 to 2020.

As Principal Investigator, Dr Patil has completed a mega project with a total outlay of Rs 19.10 crore including Sujala-III project. Subsequently, another Rs 27.00 crore of funds from the World Bank mobilized to operate REWARD Project as Co-Principal Investigator. He has served various committee in various capacities such as Chairman, Board of Studies, Academic Council, Board of Management, Research and Extension Councils, Sports Council; Member, Board of Studies in SAU's; Member of High Power Committee on Agrinnovate India Ltd; Member on High Power committee on Organic Farming, GoK and Chairman, Committee on Promotion of University Employees.

Dr Patil developed geo-spatial research laboratory facilities under World Bank funded

Sujala-III Project, which is being used for UG and PG teaching and PG research at the university.

Besides, he prepared land resource information cards and distributed them to 82 lakh farmers of Gadag, Koppal and Vijayapur districts under World Bank funded Sujala-III Project. Land Water and Natural Resource inventories developed for the first time in these districts.

He visited several countries viz. USA (Philadelphia, New York, Washington), Africa (Eritria-Asmara), Brazil, France, Belgium, Netherlands and Turkey.

Dr Patil is member of professional societies like Indian Society of Soil Science; Indian Society of Soil Survey and Land Use Planning and Indian Society of Remote Sensing. He is Fellow of Indian Society of Soil Science, New Delhi for outstanding achievements in Land Resource Inventory for watershed development during 2019.

As the Director of Research (2019-2022), Dr Patil initiated organic seed production program in eight ARS along with organic certification process; restructured Intellectual Property Rights (IPR) Cell at UASD to ITMU (Institutional Technology Monitoring Unit) with greater responsibility to promote commercialization of UASD technologies; for the first time, 34 varieties / hybrids in different crops which also include three colour cotton varieties and 7 microbial isolates, which have been commercialized through Agri Innovate India, ICAR. He has been instrumental in revising organic cultivation practices for 17 crops and initiated development of model organic farm in five Agricultural Research Stations; Established incubation facilities for mango processing at Dharwad and Lime & Sorghum processing at Vijayapur.

University of Agricultural Sciences (UAS), Raichur

Dr M. Hanumanthappa

Dr M. Hanumanthappa joined as Vice Chancellor, University of Agricultural Sciences (UAS), Raichur, Karnataka on 28 October 2023. Dr M. Hanumanthappa completed his Ph.D. degree from University of Agricultural Sciences, Bengaluru in 2001 with grade points 9.49/10.00. He also obtained PG (Diploma) in Agricultural Extension Management from MANAGE, Hyderabad in 2010.



Dr Hanumanthappa has 32 years of experience in Agricultural Teaching, Research, Extension and Administration. Before joining the post of Vice Chancellor, he served on many prestigious positions viz. Vice Chancellor (Acting), Director of Education, UAHS, Shivamogga; Director of Research, UAHS, Shivamogga; Dean (Horti.), CoH, Mudigere, UAHS, Shivamogga; Associate Director of Research, ZAHRS, Brahmavara, UAS, Bengaluru; Director of Education, UAHS, Shivamogga; Dean (Horti.), CoH, Mudigere, UAHS, Shivamogga. He also served as Associate Director of Extension at ZAHRS, Brahmavara.

Dr Hanumanthappa developed and released 11 varieties in field and horticultural crops (rice: 05; cowpea: 01; cashew: 1; ground nut: 01; arecanut:1; onion: 02).

He developed technologies from production to post harvest with value addition for rice and cashew for costal Karnataka, which benefitted 2 lakh farming families. He has been instrumental in developing and commercializing Noni-herbal tea technology with immense commercial potential. He has also been involved in developing and patenting Mini Hand Operated Groundnut Sheller (Patent number: CBR No.28720/2017 dated: 07-09-2017), which helped small and marginal

farmers of Chitradurga district in saving post-harvest losses. Dr Hanumanthappa was instrumental in developing research and development infrastructure at 14 Research Stations with a financial outlay of Rs 8.00 crore every year. He was also associated in establishment of common incubation centre for Pineapple (Rs 225.00 lakh), spices (Rs 197.86 lakh) and groundnut (Rs 146.00 lakh) under PMFME (ODOP) with total outlay of Rs 568.86 lakh. Dr Hanumanthappa developed seventeen technologies/farm machineries in the field of crop production which has benefited nearly ten thousand farming families with a horizontal spread of 25,000 ha across seven districts. He has been instrumental in attracting, coordinating and monitoring more than 100 externally funded projects with an outlay of budget Rs 725.89 lakh to the university such as RKVY, DST, ZMD, GOK, GOI and other industrial trails. Dr Hanumanthappa guided two (2) Ph.D. students and eight (8) M.Sc. (Agri.) students as major Advisor, and 24 students as Advisory member. He has also served as Chairman/ Member for different developmental activities of Research, Teaching, Extension and Administration in Universities / ICAR Institutes viz., Board of Management, Board of Studies, Academic Council, Research Council, Extension Council and Institute Management committee, etc.

Dr M. Hanumanthappa has three International Awards, seven National Awards and five University Awards to his credit. Dr Hanumanthappa has published over 110 research articles in peer-reviewed National and International Journals with high impact factor. He has written 22 books/book chapters and 50 popular articles/Extension bulletin.

Veer Chandra Singh Garhwali
Uttarakhand University of
Horticulture & Forestry (VCSGUUHF),
Bharsar

Dr Parvinder Kaushal

Dr Parvinder Kaushal, born on 01 April 1957, has been Vice Chancellor, BAU, Ranchi from 17 February 2017 to 08 July 2019 and Dr YSPUHF, Solan from 09 July 2019 to 06 April 2022 before joining as Vice Chancellor of Veer Chandra Singh Garhwali Uttarakhand University of Horticulture and Forestry (VCSGUUHF), Bharsar (Uttarakhand) on 16 December 2022. He has 41 years' experience in Teaching, Research & Development, Extension and Administration. Earlier, Dr Kaushal, in his service career, served as Asst. Professor (Forestry), PAU, Ludhiana (1981-1991); Associate Professor (Silviculture), PAU, Ludhiana and Dr YSPUHF, Solan (1991-2000); Professor, Dr YSPUHF, Solan (2010-2017); Dean, Faculty of Forestry, BAU, Ranchi (2005-2009) and Regional Director/Coordinator, Dr YSPUHF, Solan (2010-2017). Dr Kaushal has 115 publication to his credit including research papers published in peer reviewed journals of high repute. He is recipient of National Award for Young Scientist in Forestry for 1989-Nanda Memorial Young Scientist Award; French Government Fellowship for Doctoral Research (1984) and Himachal Shree Award in Agriculture (2014).



Dr Parvinder Kaushal has served as Chairman/Member of many National/International Committee/bodies such as-Chairman, RAC, ICAR-CAFRI, Jhansi; Member, Governing Body, ICAR, New Delhi; Member, Search Committee for appointment of Vice Chancellor, UA&HS, Shivamogga; Member, National Executive Council, Indian Institute of Public Administration, New Delhi;

Member, QRT, ICAR-IINRG, Ranchi; Member Regional Dean's Committee for South Asia for Research in Agroforestry, South Asia Programme (ICRAF), etc. Besides, he also served numerous state level committees (Punjab, Jharkhand, Himachal Pradesh, J&K) as Chairman/Member. Dr Kaushal has also leadership experience at International level as Deputy Leader, IUFRO (Viena) Research Group on Forest Stand Establishment Operations and Technologies; Chairman, IUFRO Working Party on Plantation Establishment; Member, Expert Group for preparing Agro-forestry Manual for Asia-Pacific Regions under UN Convention to combat desertification. He has also visited many countries in various capacities viz. France, Italy, United Kingdom, Mexico, Austria, Germany, Switzerland, Yugoslavia, Belgium, Holland, Spain, Estonia, Canada, Finland, Turkey, Malaysia and Sri Lanka.

The IAUA thanks and congratulates the following Vice Chancellors for support to IAUA and successfully completing their tenures during October-December 2022:

- **Dr R. Chandra Babu**
Vice Chancellor
Kerala Agricultural University, Thrissur
- **Dr K. N. Kattimani**
Vice Chancellor
University of Agricultural Sciences, Raichur
- **Dr S. K. Rao**
Vice Chancellor
Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Gwalior
- **Dr Pradeep Kumar Bisen**
Vice Chancellor
Jawaharlal Nehru Krishi Vishwavidyalaya, Jabalpur
- **Prof. Samar Singh**
Vice Chancellor
Maharana Pratap Horticultural University, Karnal