

IAUA



NEWS

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## CONTENTS

## Spot News

**Dr R.S. Paroda** head  
Haryana Farmers Commission

**Dr S.A. Patil** joined  
as **Chairman** of **Karnataka**  
**Krishi Mission**

## New VCs

**Dr R.R. Hanchinal** joins  
as **VC**, **UAS**, **Dharwad**  
**Prof. S. K. Sharma** joins  
as **VC**, **CSK HPKV**, **Palampur**  
**Prof. C.S. Chakrabarti** :  
another term as **VC**, **WBUAFS**,  
**Kolkata**

**Dr W.S. Lakra** takes over  
as **Director**, **CIFE**, **Mumbai**

## Deemed to-be University

Deemed to be universities  
**IARI**, **New Delhi**  
**SHIATS**, **Allahabad**  
**Universities**  
**Profile**: **TNVSU**, **Chennai**  
**GBPUAT**, **Pantnagar**  
**KVAFSU**, **Bidar**  
**MPKV**, **Rahuri**  
**TNVSU**, **Chennai**  
**UAS**, **Bangalore**

## Award

**GBPUAT**, **Pantnagar**

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## Spot News

## Dr R.S. Paroda heads Haryana Farmers' Commission

Padma Bhushan Dr R.S. Paroda, former Director General of the ICAR and an eminent agricultural research scientist, joined as Chairman of Haryana, Farmers' Commission in the rank of Cabinet Minister. He would look after the interests of the farming community and suggest ways and means to increase the production of foodgrains and other agricultural commodities. The official members of the Commission would be the Financial Commissioner and Principal Secretary (Agriculture), and VC, Chaudhary Charan Singh Haryana Agricultural University, Hisar. The Registrar of CCSHAU would be the Member-Secretary. The headquarters of the Commission would be at Hisar.



Dr R.S. Paroda

## Dr S.A. Patil joins as Chairman, Karnataka Krishi Mission

Dr S. A. Patil, former Director, Indian Agricultural Research Institute, New Delhi and VC, University of Agricultural Sciences, Dharwad, was appointed Chairman, Karnataka Krishi Mission, Government of Karnataka in the rank of state minister.



Dr S.A. Patil

## NEW VCs

## Dr R.R. Hanchinal joins as VC, UAS, Dharwad

Dr Rayappa Ramappa Hanchinal, joined as VC, UAS, Dharwad on, 2 July 2010, was born on 1 June 1952 at Babaleshwar village of Bijapur district. He did B.Sc. (Agric), M.Sc. and Ph.D. from UAS, Bangalore, and Post-Doctoral studies at CIMMYT, Mexico. He worked as Assistant Professor at ARS, Bijapur (1982), Plant Scientist (Cotton) at ARS, Arabhavi (1984), and as Wheat Breeder 1985, Senior Wheat Breeder (1994), Special Officer (Seeds) (2001), Associate Director of Research (2005), Director of Research (2006) and Director of Extension (2008), at UAS, Dharwad.



Dr R.R. Hanchinal

Dr Hanchinal received several awards such as Fakhruddin Ali Award (1998-99) of the ICAR, New Delhi; Ekbote Prize (1998); Rao Bahadur Dr Ram Dhan Singh Trust Memorial Award, CCSHAU, Hisar; Nagamma Dattatreya Rao Desai Award (1999); Karnataka Rajyotsava Award of HDMC (1999-2003) and the UASD Achievement Award for outstanding contribution in seed production and seed research (2005). He was Fellow, National Academy of Biological Sciences (2008), Indian Society of Genetics and Plant Breeding, New Delhi; Indian Society of Plant Genetic Resource, New Delhi and Indian Society of Seed Technology, New Delhi. He was Councilor (South Zone), Indian Society of Plant Genetic Resources (2001-05); Member, Germplasm Registration Committee, NBPGR, New Delhi; Member, Central Sub-Committee on Crop Standards, Notification and Release of Varieties for Horticultural Crops, Ministry of Agriculture, Government of India, New Delhi; and served as Member in a number of important state agricultural research seed production and water-management projects in Karnataka.

Dr Hanchinal visited several countries, viz. the USSR, Brazil, Paraguay, Argentina, Mexico, Sudan, Egypt, Indonesia, Tanzania, Kenya, Canada, Ghana, Nigeria, Niger, Mali and Burkina Faso. He was advisor to Indonesian Government for the development of Food Crop Research, at Bogor Agricultural University (2003) and served as Senior Seed Production Specialist (2008) for West Africa Seed Alliance operated by the ICRISAT.

## Prof. S. K. Sharma joins as VC, CSK HPKV, Palampur

Prof. Shyam Kumar Sharma, a distinguished farm scientist, joined as the tenth VC, CSK Himachal Pradesh Agricultural University, Palampur on 6 July 2010. Earlier, he was Director, National Bureau of Plant Genetic Resources, ICAR, New Delhi since 2006. Born on 2 March 1951 in Kangra district of Himachal Pradesh, Prof. Sharma completed B.Sc. Agriculture (Honours) from H.P. University, Shimla in 1971, and obtained M.Sc. and Ph.D. in Genetics from IARI, New Delhi.

He started his career as Scientist, Central Potato Research Institute, Shimla (1976) and shifted to H.P. Agricultural University as Assistant Plant Breeder (1980). Here he worked as Associate Professor (1982-1990); Professor (1990-2002); Programme Director, Advanced Centre of Hill Bio-resources and Biotechnology (2002-



2003); and Dean, College of Basic Sciences (2003-2006). Dr Sharma received several international and national fellowships and awards like Commonwealth Post-Doctoral Fellowship (1982); Commonwealth Academic Staff Fellowship (1993); Marie Curie European Commission Fellowship (1994); Royal Society-INSA International Collaborated Award, U.K. (2002); Fellow, National Academy of Agricultural Sciences (2004) and National Academy of Sciences (2008); and Rashtriya Udyog Ratna Award (2009). He published more than 175 research publications in leading national and international journals in addition to books, monographs, popular articles, reviews and book chapters. He guided 4 Ph.D. and 8 M.Sc. students. Prof. Sharma is member or chairman of many important committees or boards at national or international levels. In connection with his professional obligations he visited a number of countries across the world and represented India at several international fora.



Dr S.K. Sharma

### **Prof. C.S. Chakrabarti: another term as VC, WBUAFS, Kolkata**

Prof. Chandra Sekhar Chakrabarti joined again as VC, West Bengal University of Animal and Fishery Sciences on 6 August 2010, after successful completion of his first term as VC here since 7 August 2006. Born in 1952, he did B.Sc. with honours in Zoology (1973) and



Prof. C.S. Chakrabarti

M.Sc. and Ph.D in Zoology from University of Calcutta. Before this he served as Professor of Zoology at University of Calcutta. He received many awards and fellowships. The Indian Institute of Oriental Heritage honoured him with Indian Excellence Award. He was selected as Fellow, Zoological Society, Kolkata Zoological Society of India and Academy of Science, Engineering and Technology.

### **Dr W. S. Lakra, takes over as Director, CIFE Mumbai**

Dr W. S. Lakra, joined as Director, Central Institute of Fisheries Education on 1 September 2010. He served several national and international agencies, and is presently Member of several committees of the ICAR, CSIR. DAHDF, DBT, DST, MoES etc. He is also serving as Regional Chairman, Global Consortium of Barcoding of Life for DNA barcoding programmes in India.



Dr. W.S. Lakra

Dr Lakra was elected Fellow, National Academy of Agricultural Sciences. He is currently President, Aquatic Biodiversity Conservation Society. He received several national awards including Hari Om Ashram Trust Award, Dr Rajendra Prasad Award and M.S. Swaminathan Best Indian Fisheries Scientist Award. He was Member, International Review Team of World Fish Centre, a CGIAR organization for programme on genetics and biodiversity. He published over 170 research papers and 15 books as well as 18 bulletins or manuals.

## **Focus on Universities : Achievements and Events**

### **DEEMED-TO-BE UNIVERSITY**

#### **INDIAN AGRICULTURAL RESEARCH INSTITUTE, NEW DELHI**

##### **Teachers' day celebration**

The Teachers' Day function was celebrated jointly by Post Graduate School and the Genetics Club, IARI on 4 September 2010 at the NRL auditorium. Tribute was paid to Dr S. Radhakrishnan, the great philosopher former President of India. Dr H. S. Gaur, Dean, P.G. School, IARI, delivered the welcome address and highlighted the significance of the Teachers' Day and the lecture series. Dr Arvind Kumar, DDG (Edn), ICAR, delivered the Teachers' Day lecture on "Emerging issues in higher agricultural education". He discussed various initiatives taken by the ICAR for modernization of higher agricultural education in India and the related issues. He emphasized the need to infuse value in education, as "the teachers are the minds of the future generation of society". Dr H.S. Gupta, Director, IARI, New Delhi, who chaired the function, pointed out that the Indian system of agricultural education is among the best in the world.



#### **SAM HIGGINBOTTAM INSTITUTE OF AGRICULTURE TECHNOLOGY AND SCIENCES, ALLAHABAD**

##### **Prof. (Dr) S.B. Lal takes over as Pro VC**

Prof. (Dr) S.B. Lal assumed the charge of Pro-VC of SHIATS, (formerly known as Allahabad Agricultural Institute) on 1 July, 2010. He has experience of 21 years in teaching, research and extension. He guided 31 M.Sc. students and 16 Ph.D. scholars, and published 34 research papers and wrote a book on Agroforestry.

Prof. Lal received many awards, viz. Young Scientist Award (1999), Dr J. C. Edward Gold Medal Award (2006), Rashtriya Gaurav Award (2006) and Prayag Gaurav Award (2007). He has administratively handled Directorate of Research, Directorate of Seed and Farm, Directorate of Medical College Project and Dean, School of Forestry and Environment. He travelled extensively abroad including USA, UK, Iran, UAE and Dubai for academic trainings and professional purposes.



Prof. (Dr) S.B. Lal



## Short Profile

### TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY, CHENNAI

#### Establishment

The TANVASU blossomed on 29 November 1989 from the roots of Madras Veterinary College, an internationally acclaimed, century old institution that had a modest beginning as Agricultural School at Saidapet, Chennai, in 1878, offering diploma and certificate courses in the field of veterinary science.



University Building

#### Aim

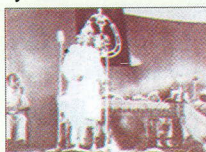
- The university was established with a mission of Improvement in productivity, profitability and sustainability of livestock and fishery
- Quality assurance for livestock and fishery products, including novel and indigenous products, to compete at national and global markets
- Hygienic production, handling, harvesting and processing in accordance with approved standards
- Infrastructure for quality assurance and certification
- Safeguard of biophysical resources and conservation of bio-diversity
- In-depth specialization in frontline areas of biotechnology, diagnostics, farm and plant operations, information and communication technologies
- Multi-disciplinary teaching and research for appropriate human-resource as well as technology development
- Studies on problem-solving assignments to help the farmers and industry
- Establish a sound extension education system for training and demonstration, correspondence, and distance and continuous education with modern tools
- Linkages with educational and developmental organizations at national and international levels for research and academic collaboration, HRD and in-service update
- Empowerment of self-help groups, rural youth and under-privileged sections of the society in terms of economic upliftment, entrepreneurship development and employment generation
- Substantial improvement in infrastructure and facility to meet the demands of modern times and aspirations of the society in the livestock and fishery sector

#### Objectives

- To impart education in different branches of Veterinary and Animal Sciences, Fishery and Basic Sciences
- To further the advancement of learning and pursuing research in Veterinary, Animal and Fisheries Sciences
- To undertake extension of research findings to the beneficiaries in co-operation with the line departments concerned

#### Main achievements

- 1903 : Madras Veterinary College started
- 1904 : College building with Indo-saracenic structure constructed
- 1935 : First veterinary college, affiliated to University of Madras, for offering B.V.Sc. degree in India
- 1946 : B.V.Sc. degree course remodelled into 4 years and G.M.V.C. discontinued
- 1953 : University of Madras recognized MVC for undertaking M.Sc. and Ph.D. degrees by research
- 1955 : Prime Minister Pt Jawaharlal Nehru inaugurated golden jubilee celebrations
- 1958 : MVC upgraded as Southern Regional Centre for post graduate education and research
- 1969 : Directorate of Veterinary Education and Research established



Pt. Jawahar Lal Addressing the audience

- 1974 : Affiliation of MVC to Tamil Nadu Agricultural University
- 1976 : MVC became a constituent unit of Tamil Nadu Agricultural University
- 1981 : President Neelam Sanjeeva Reddy inaugurated platinum jubilee celebration
- 1984 : Veterinary College and Research Institute started at Namakkal
- 1989 : Tamil Nadu Veterinary and Animal Sciences University established
- 2001 : TANVASU accredited by the ICAR
- 2003 : Centenary celebration of Madras Veterinary College
- 2004 : ISO 9001-2000 certificate for two colleges, viz. Madras Veterinary College, Chennai and Veterinary College and Research Institute, Namakkal
- 2004 : Two new courses introduced, viz. (1) M.Phil. in Biotechnology and (2) PG Diploma in Bio-informatics
- 2006 : New courses introduced viz. (1) B.Tech. in Food Processing Technology, (2) PG Diploma in Diagnosis & Companion Animal Practices, and (3) Veterinary Laboratory
- 2007 : For student and staff-exchange programme, memoranda of agreement were signed between: (1) TANVASU and Michigan State University, the USA; and (2) Virginia Maryland Regional College of Veterinary Medicine, Virginia Technical University, the USA
- 2007 : E-course initiated for B.V.Sc. & A.H.
- 2008 : E-course was initiated for B.F.Sc.
- 2008 : Memorandum of understanding was signed between TANVASU and University of Nebraska, Lincoln for capacity building in food processing technology



Chief Minister Mr. M.G. Ramchandran with President of India Mr. Neelam Sanjeeva Reddy



Chief Minister Ms. Jayalalitha with President of India Mr. Neelam Sanjeeva Reddy & Vice President Mr. Bhairon Singh Shekhawat

#### CONSTITUENT COLLEGES



Madras Veterinary College, Chennai



Veterinary College and Research Institute Namakkal



Fisheries College and Research Institute, Thoothukudi



Institute of Food and Dairy Technology Koduvall

#### ACADEMIC PROGRAMMES

The university offers the following courses: B.V.Sc. & A.H. (Bachelor of Veterinary Science and Animal Husbandry); B.F.Sc. (Bachelor of Fisheries Science); B.Tech. Food Processing Technology; M.V.Sc.

(Master of Veterinary Science) in 21 disciplines; M.F.Sc. (Master of Fisheries Science) in 8 disciplines; Ph.D. (Veterinary Science) in 19 disciplines, Ph.D. (Fisheries Science) in 6 disciplines, M.Phil. (Biotechnology); PG Diploma in Bio-informatics; PG Diploma in Companion Animal Practice; PG Diploma in Veterinary Laboratory Diagnosis, and Diploma in Fish-Quality Management.



## TECHNOLOGIES DEVELOPED

The university developed the following major technologies:

ELISA kit for quantification of antibodies against avian infectious bronchitis virus; Vero cell-adapted rabies vaccine for animals; user-friendly kit for detection of PPRV antigen, based on flow-through technology; latex agglutination-test kit for *Mycoplasma gallisepticum* antibody detection; PPR check – PPR virus antibody test kit; hydropericardium syndrome (leechi disease) AGID test kit; nested PCR-diagnosis kit for detection of hepatopancreatic parvovirus (HPV); live thermo-stabilized Newcastle disease vaccine (TANUVAS D58 strain) for poultry; heat-inactivated Johne's disease vaccine; rLipL32 and rLipL41 based LAT for detection of leptospiral antibodies in dogs.

## Livestock Breeds and Strains



**Nandanam Turkey -1**



**Nandanam Quail -1**



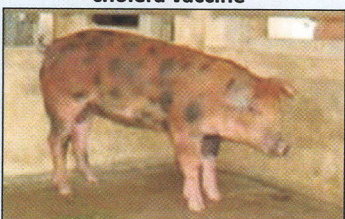
**Nandanam Quail -3**



**Inactivated fowl cholera vaccine**



**Kattupakkam White Pig**



**Three-way Crossbred Pig**



**Sandyno Sheep**



**Kattupakkam Red Sheep**

## Product and Technologies



**EDS virus antibody detection kit**



**Inactivated Ranikant disease vaccine**



**Live attenuated Peste des Petits Ruminants (PPR) virus vaccine**



**Diagnostic kit for white spot syndrome virus (WSSV)**



**Smart Mineral Mixture for Cattle**



**Milk protein-enriched noodles**



**Touch screen information kiosk**



**Poly-herbal product for production of disease-resistant tiger shrimp *Penaeus monodon***



**Lobster fattening, using floating FRP cages**



**Raceway Technology**



**Optimized chilled process technology fresh fish with dry ice and wet ice for export through air**



**Cost-effective new technology for the production of live fish food white worm, *Enchytraeus albidus***

## International collaboration

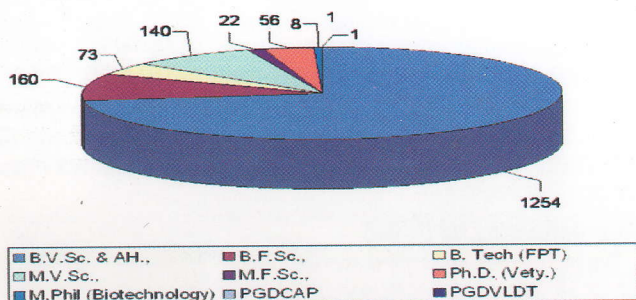
- International collaboration in education and research with Michigan State University, the USA; and Extension of Teaming Agreement signed for capacity building in clinical practice.
- Collaboration with Virginia Maryland Regional Colleges of Veterinary Medicine, the USA on infectious diseases and biotechnology under the US-India Agriculture Knowledge Initiative programme.
- MoA signed with University of Nebraska, Lincoln, the USA in the field of Food Processing Technology, involving student and faculty exchange and conduct of collaborative programmes.
- The State-of-the-art Wet Lab of Bioinformatics Centre established to carry out biotechnological procedures.
- E-Learning introduced for B.V.Sc. & A.H. and B.F.Sc. courses



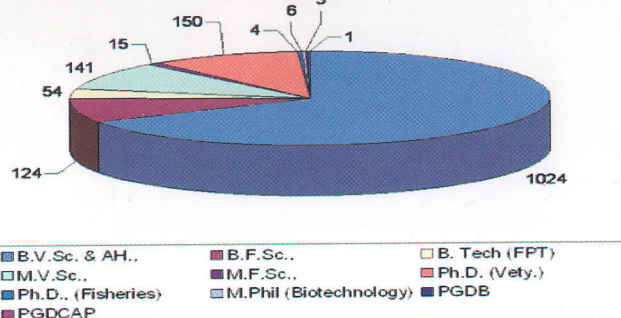


The student enrolment (5 yearly) at the university is depicted in pie charts

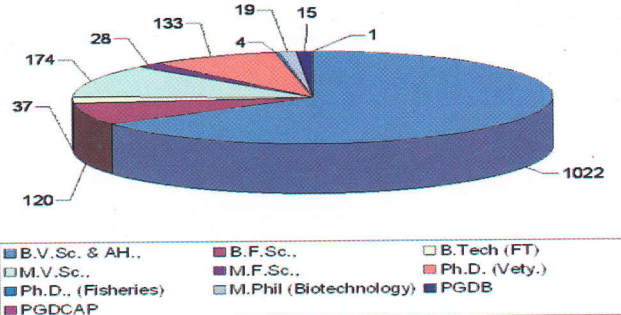
2009-2010



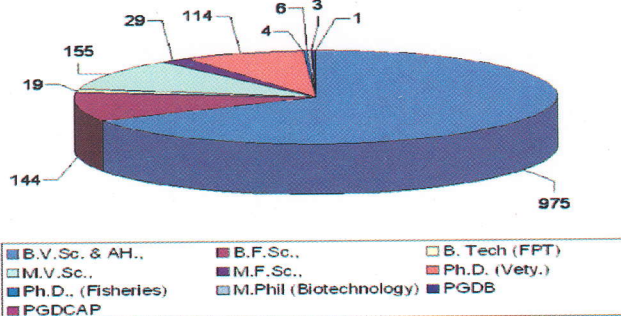
2008-2009



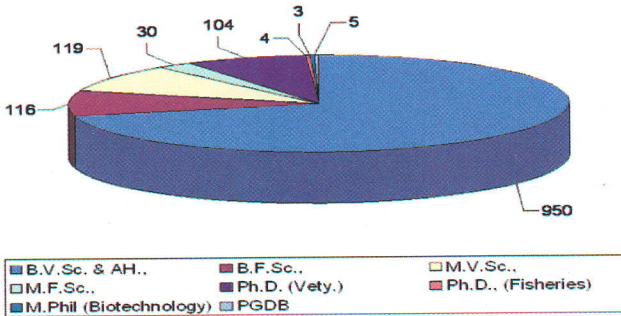
2007-2008



2006-07



2005-06



## New initiative

### Industry-institute linkage

#### Memorandum of understanding (MoU) signed by TANUVAS:

1. With M/s. Nitta Gelatin India Limited, Cochin (Kerala) for a research project on 'Evaluation of animal by-products like ossein, sinews, bone meal and sludge on broiler performance' costing Rs 8.10 lakhs for 1 year.
2. With Mediclone Work Ltd. for developing street rabies virus antigens; Institute of Animal Health (BB&RC), UK for developing coccidiosis vaccine and Globion of Suguna Broilers, for promoting D-58 strain ND vaccine involving royalty of Rs.10 lakhs.
3. With Galvmed to transfer technology for production and distribution of vaccines against diseases affecting livestock and poultry in the developing countries. Initially the technology of D-58 Ranikhet disease pellet vaccine was provided for vaccine production and distribution.
4. With World Noni Research Foundation, Chennai for research collaboration on nutritional and health aspects of Noni (*Morinda citrifolia* L.).
5. Collaboration established with a Japanese Institute Nichi-In Centre for Regenerative Medicine (NCRM), Chennai in the presence of Mr Kazuo Minagawa, Consul General of Japan for adult stem cell-based regenerative surgical therapy



### Clinical facilities

The hospitals attached to Madras Veterinary College and Veterinary College and Research Institute, Namakkal are equipped with advanced clinical facilities for diagnosis and treatment of small and large animals in the disciplines, viz. Medicine, Surgery, Gynaecology and Obstetrics with out-patient and in-patient facilities. Referral clinics in the disciplines such as Cardiology, Neurology, Ophthalmology, Ultrasonography, Bronchoscopy, Endoscopy, Laparoscopy, Arthroscopy Udder clinics units have modern diagnostic equipments. The Radiology and Physiotherapy units are equipped with 800 MA X-ray plant, a Mobile 100 MA X-ray unit, Laser Therapy, Ultrasound Therapy, and Electro Diagnostic muscle-nerve stimulator. There are three well-equipped operation theatres-one for large animals and two for small animals. The casualty unit functions for emergency treatment round the clock. All modern facilities have been brought under one roof by establishing new centenary clinical block facility at Madras Veterinary College. Further, a canine blood bank has been established for transfusion therapy.

### Future perspective

#### Our strength

- The university is the lead centre for training scientists of APHCA and SAARC countries.
- The Department of Animal Biotechnology, Madras Veterinary College has been recognized as the National Referral Centre for animal health.
- TANUVAS has entered into MoAs with Michigan State University, University of Maryland, Virginia, State University of Nebraska, the USA for student-exchange programme.
- Students from Government Chittagong Veterinary College, Bangladesh are undergoing clinical internship training at Madras Veterinary College.
- TANUVAS is entering into MoU with various biological units, eg. Biovet, and Indian Immunologicals, for transfer of technologies developed by scientists.
- MVC and VCRI are ISO 2009-9001 certified for the first time in the country. MVC was adjudged the Best Veterinary College in India by INTAS Pharmaceuticals. TANUVAS was accredited by the ICAR for the second time.





Clinical training to Students of University & Putra Malaysia at Teaching Hospital, TANUVAS



Clinical training to Students of Virginia State University at Teaching Hospital, TANUVAS

## Vision

The university envisages to be an institution of highest repute and recognition in the country in the field of Veterinary and Animal Sciences, including Fisheries, through its committed programmes of action in education, human-resource development, research, technology development, extension, training, management and integrated socio-economic development of Tamil Nadu.

It become a model institution of higher education through its degree programme at graduate, post-graduate and doctoral levels by adoption of appropriate course curricula in accordance with the current and future needs and development tasks of the country.

It plans to become a research institution of excellence and relevance by organizing advanced research in basic and frontline areas, applied research towards appropriate technology development meaningful to the farming community and the industry, and operational and strategic research for large-scale testing, refinement and adoption of proven technologies in the field.

It commits itself to be a leading medium of extension education by involvement of stake-holders in identification of researchable and educational issues through appropriate interface development with the developmental agencies, farmers and industry at local, regional, state, national and international levels, and through the avenues of training courses, continuing and correspondence education, publication of field literature and application of modern tools of audio-visual, information and communication technologies.

It plans to become a repository, store-house and think-tank with its most valuable assets of library information system and database for strategic planning, for integrated rural and urban development, socio-economic development and elevation of quality of life of mankind by looking after the welfare of livestock and fishery wealth and ensuring improved productivity in Tamil Nadu.

## G.B. PANT UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, PANTNAGAR

### International School of Agriculture and International Diploma

The university started an International School of Agriculture on 24 July 2010 for the first time among the state agricultural universities. Shri Trivendra Singh Rawat, Agriculture Minister of Uttarakhand, inaugurated it. Simultaneously, the first academic programme of the school, International Diploma on Hi-tech Agriculture, was also launched, which had the first batch of 11 students from Maldives. Shri K.C. Singh Baba; Shri H.S. Cheema; Member of Parliament from Nainital Constituency; and Member of Legislative Assembly and Member of Board of Management of the University, and Shri Preetam Singh Panwar, the former MLA, were present on this occasion.

Dr B.S. Bisht, VC, said that the programme was approved by Academic Council as well as Board of Management of the university and the Government of Uttarakhand. It will be run on self-financing basis with little or no extra investment on infrastructure, faculty, farm, laboratory etc.

Dr J. Kumar, Registrar and Course Coordinator, said that the course will use innovative custom-made curriculum, teaching methodologies and evaluation procedure. The participants and faculty members are to be evaluated concurrently for continuous improvement. The experience gained during the course will help in planning future international programmes. Dr P.S. Bisht, Joint Director (Research), is the Co-Course Coordinator.



First batch of Students from Maldives

## Forage cowpea, UPC 628,

A new forage cowpea variety, UPC 628, developed by Senior Forage Crop Breeder at the university, was released, notified by Central Sub-Committee on Crop Standards, Notification and Release of Variety in Agricultural Crops, Ministry of Agriculture, Government of India, New Delhi, in its meeting held under the chairmanship of DDG (Crop Science), ICAR, on 27-28 June, 2010 in Chennai. It is recommended for cultivation in Uttarakhand, Punjab, Haryana, Rajasthan, Uttar Pradesh, Bihar, West Bengal, Assam, Jharkhand, Chhattisgarh, Orissa, Madhya Pradesh, Gujarat and Maharashtra.



Forage cowpea, UPC 628

## First rainfed barley, UPB 1008

The plant breeders at the university Dr R.S. Rawat, Dr J.P. Jaiswal, Dr Anil Kumar, Dr Swati and Shri Karanvir Singh developed the first rainfed variety of barley, UPB 1008. It is suitable for northern hill region of Uttarakhand, Himachal Pradesh and Jammu & Kashmir. It is identified for release by a high-level ICAR committee during All-India Wheat and Barley Workers Meet held at Punjab Agriculture University, Ludhiana, on 27-30 August, 2010.



Barley, UPB-1008

## Black poplar mushroom

The university developed a production technology of black poplar mushroom (*Agrocybe aegerita*), an edible medicinal variety, under All-India Coordinated Research Project on Mushroom, of the ICAR. It is suitable for growing in mid-hills and plains of Uttarakhand.

## Award to a book

A book, *Kukkuton ke Rog, Nidan tatha Upchar*, published by the Directorate of Publication of the university, received Indira Gandhi Rajbhasha Puraskar. It is written by Dr Hari Vallabh Singh Chauhan. The book was selected for consolation prize by Department of Official Language of Ministry of Home Affairs, Government of India. The Directorate has so far published 204 books in Hindi on agriculture, veterinary and other allied subjects, with the financial assistance from Commission for Scientific and Technical Terminology, Ministry of Human Resource Development, Government of India.



Awarded book  
'Kukkuton ke Rog,  
Nidan tatha Upchar'

## KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY, BIDAR

### National workshop on Animal Husbandry and Fisheries

A national workshop, 'Augmenting outreach programmes in Animal Husbandry and Fisheries sectors' was organized by Directorate of Extension during 6-7 August 2010 at Bidar campus. It was inaugurated by Dr V. Sadamate, Advisor (Agriculture), Planning Commission, Government of India, New Delhi. Prof. Suresh S. Honnappagol, VC, presided over. Prof. H. Shivananda Murthy, Director of Extension and Organizing Secretary of the workshop, welcomed the dignitaries and delegates and gave a brief background about it. Shri H. S. Veerappa Gowda, Director of Fisheries, Government of Karnataka, and Dr M. M. Adhikary, former VC, Bidhan Chandra Krishi Vishwavidyalaya, Kolkata, were present as chief guests. Dr K. D. Kokate, DDG (Extension), ICAR, New Delhi, and Dr Dilip Kumar, Director and VC CIFE, Mumbai, were the chief guests for valedictory function held on 7 August. Dr S. Prabhukumar, Zonal Project Director, ICAR, Bangalore, addressed the delegates as guest of honour.

There were four technical sessions and three keynote addresses, presented by Dr Vishwanatha Sadamate. There were 20 lead presentations by different experts in the area and 170 delegates participated from different parts of the country.

The following recommendations were drawn up at the plenary session, based on the presentations made and suggestions emerged at different sessions.



- Extension education programmes should give emphasis to bottom-up approach, capturing the local priorities.
- The inventory of schemes and service providers at grass-root level, should be published.
- Extension activities should emphasize the significance of quality aspects, conservation and marketing, particularly in Fisheries and Dairy sectors.
- National-level Institute for Extension Education should be established for catering to the requirements of Animal Husbandry and Fisheries sectors.
- District-level Extension Education Centers should be established by State Veterinary and Fisheries Sciences universities, with support from Government of India. KVKs should also be allocated to these universities.
- The fishermen should be made aware of conservation and management of marine fisheries resources.
- Information Communication Technology Centres should be strengthened to augment the outreach programmes and technology transfer.
- The websites of State and Central Departments of Animal Husbandry and Fisheries should be upgraded periodically.
- Information on success stories should be passed on to the end-users to motivate the farmers.
- Extension activities on value addition of milk, meat, chicken and fish products should be improved to benefit the farm women.
- The latest technologies should be disseminated among the fishermen and fish farmers, and information on modern fishing units and fishing equipments should be passed on to them.
- The cold storage facilities are essential for fish and fish products due to their highly perishable nature.
- Inland fisheries bill should be enacted by all the states.
- The Veterinary, Fisheries, and Deemed universities should start post-graduate degree programme in Fisheries Extension.
- The colleges and universities should have separate Animal Husbandry and Fisheries Extension wings.
- Production and supply of fish seed should be improved, including buy-back policy for the benefit of fish-farming community.
- The states should equitably allocate and timely release the funds under centrally-sponsored projects or schemes such as RKVY and ATMA for Animal Husbandry and Fisheries sectors.
- Community or Commodity Interest Groups should be established for effective extension services.
- Capacity building of farmers should be strengthened through KVKs, Extension Education Centres and Farm Science Centres.



Conference on Green Technologies in Dairy and Food Industries

### Green technologies in dairy and food industries

A national conference on "Green technologies in dairy and food industries" was organized in collaboration with Indian Dairy Engineers Association, Chandigarh during 27-28 August 2010 at Dairy Science College, Bangalore. Dr Channegowda, Member, Board of Management inaugurated it, and Prof Suresh S. Honnappagol, VC, KVAFSU, Bidar presided over the function.

The Members of Board of Management present were: Dr Gopalagowda, Dr Jayadevappa and Smt. Shobhavathi Pulare, beside Dr B.V. Venkateshaiah, Dean, Dairy Science College, Bangalore Dr B.V.Venkateshaiah. The conference was attended by delegates from the ICAR, NDRI, NDDDB, NABARD, the veterinary and agricultural universities, KMF and promoters of dairy and food processing industries. The recommendations include maximization of utilization of biogas to augment reliable power for rural areas, automation of dairy and food sectors, reuse and recycling of packaging materials to control pollution and to exploit rain-water harvesting in dairy plants.

### Kannada Science Convention

A Kannada Science Convention was held during 15-17 September 2010 at Bangalore. It was jointly organised by the Swadeshi Vijnana Andolana and Karnataka Veterinary, Animal and Fisheries' Sciences' University, Bidar. At the inaugural session, Shri V.S. Acharya, Home minister called for blending modern

science with ancient wisdom of the country, to enrich knowledge in various fields and thus help better the lives of people. He observed that it would be possible to create scientific temper in the society only when awareness about science is created among everybody, through their mother tongue. Prof. Suresh S. Honnappagol, VC, KVAFSU, Bidar; K.I. Vasu, Patron of Swadeshi Vijnana Andolana; Dr Y Yathiraj, Dean, Veterinary College, Bangalore and Dr B.V.Venkateshaiah, Dean, Dairy Science College, Bangalore graced the occasion along with other dignitaries.

### National conference on "Changing perspectives in extension for effective livestock delivery system"

The university, in association with Indian Veterinary Extension Forum organized a national conference on "Changing perspectives in extension for effective livestock delivery system" during 7-8 September 2010 at Veterinary College, Bidar. Prof. Suresh S. Honnappagol, VC, inaugurated it, delivered the keynote address. Dr V. Venkatasubramanian, ADG (Extension), ICAR, New Delhi, Sixty veterinary extension professionals from across the country participated in it. The recommendations were: establishment of well-knit network of veterinary extension at the state and national levels for effective livestock-delivery system, integration of livestock-based enterprises with community-based organizations to reach the unreached, and establishment of semen-production centres, mobile units, community fodder farms and satellite fodder farms.

### National workshop on outreach programmes in animal husbandry and fisheries sectors

A national workshop entitled "Augmenting outreach programmes in animal husbandry and fisheries sectors" was organised by Directorate of Extension during 6-7 August 2010 at Bidar. Dr V. Sadamate, Advisor (Agriculture), Planning Commission, Government of India, New Delhi inaugurated it, and Dr P. Thangaraju, VC, TANVASU, Chennai, delivered the keynote address. Dr Dilip Kumar, VC and Director, CIFE, Mumbai and Dr R. R. Hanchinal, VC, UAS, Dharwad, graced the occasion. About 200 delegates and participants from different parts of the country participated in the workshop. Prof. Suresh S. Honnappagol, presided over the Valedictory Function Dr K. D. Kokate, DDG (Extension), ICAR, New Delhi was present Out of 20 recommendations made at the workshop, important ones are publication of inventory of schemes and service providers at grass root level, need for establishing a national level institute for extension education and establishment of district level Extension Education Centres.



Inauguration of National Workshop

### MAHATAMA PHULE KRISHI VIDYAPEETH, RAHURI

#### Additional charge VC to Dr Mehta

Dr V.B.Mehta, VC, DBSKKV, Dapoli, took the additional charge of VC, MPKV, Rahuri, on 1 August, 2010, after completion of term by Dr R.B.Deshmukh. Recently he was nominated on the Executive Body of the IAUA, New Delhi, Dr. Mehta received Vasantrao Naik *Krishi Puraskar-2008* for his outstanding achievements in the field of agricultural education, research and extension education. Under his leadership the university received 'ISO 9001-2000' certification.



Dr. V.B. Mehta

### Annual group meeting on safflower and linseed

The Annual Group Meeting on Safflower and Linseed was held at Rahuri during 19-21 August 2010. Dr V.D. Patil, ADG (OP), ICAR, New Delhi, in his speech expressed concern on the low productivity levels of oilseeds. Dr D.M. Hegde, Project Director, DOR, Hyderabad cited the importance of oilseed economy in relation to the per-head (caput) intake of edible oils vis-à-vis growing population of the country. Dr R.L.Srivastava, Project Co-ordinator, Linseed, Kanpur, underlined the importance of linseed and its varied uses in the industry, medicinal,



Annual Group Meeting



pharmaceutical fields etc. Dr S.S. Mehetre, Director of Research, MPKV, Rahuri, in his presidential address called for appropriate technologies to harness the benefit of these crops.

#### Technology appropriate for safflower

- In western Maharashtra (Phaltan), for soybean-safflower system it is possible to substitute 100% recommended P of soybean and safflower by seed treatment with PSB (Phosphate solubilising bacteria) through application of 5 t FYM/ha without any adverse effect on the productivity.
- In scarcity zone (Solapur) of Maharashtra it is essential to apply  $\text{FeSO}_4$  (10kg/ha) or  $\text{ZnSO}_4$  (20kg/ha) or RDF+5t FYM/ha to safflower for higher yield in addition to the application of recommended dose of NPK fertilizer. The same benefit can also be obtained with 5t FYM/ha along with recommended dose of fertilizer.

#### Technology for Linseed

- Linseed SLS-67, developed at JNKV, Sagar, was released and notified by CVRC for rainfed conditions of Zone III. LMS 149-4, identified during 2009, gives good seed yield.
- Management of soil moisture in rainfed crop of linseed through locally available straw @ 10 t/ha is feasible and profitable in vertisol soils of Raipur.
- Cultivation of RLC 76 (Kartika) and JLS 9 at Raipur and JLS 9 and RLC 76 (Kartika) at Powarkhedha is best after soybean with recommended package of practices even in delayed sowing up to last week of November.
- Post-emergence application (30-35 DAS) of isoproturon @ 1 kg/ha at Mauranipur and Isoproturon @ 1 kg/ha + 2-4-D @ 0.5 kg/ha at Raipur managed the weeds properly and give seed yield and net monetary returns on par with hand weeding twice at 20-25 and 40-45 DAS.

#### Varieties identified

##### Linseed

- SLS 73: The variety from JNKVV, Sagar gave higher yield than the check, besides being moderately resistant to powdery mildew and rust. Hence it is identified for Zone III, comprising Bundelkhand part of Uttar Pradesh, Madhya Pradesh and Rajasthan.

##### Castor

- DCS 107: The variety from DOR, Hyderabad gave higher seed yield than the check, DCS-9 and was at par with the check, 48-1. It is highly resistant to wilt. Hence it is identified for all the castor-growing areas of the country.

#### Vanmahotsav

A massive tree-plantation programme was organized at MPKV, Rahuri. Dr R.B.Deshmukh, VC, in his presidential speech stressed the need to use non-traditional energy sources for reducing pollution. Prof. B. N. Shinde, Head, Dept. of Geography, New Arts and Science College, Ahmednagar, while addressing the staff and students called for higher society participation for planting trees to minimize the ill-effects of climate change and global warming.



Vanmahotsav

#### TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY, CHENNAI

##### Farmer's Hostel Building

A new farmers' hostel covering 20.045 sq.ft plinth area and costing Rs 1.5 crores with ICAR funding was constructed at the university headquarters. Dr S. Ayyappan, DG, ICAR, and Secretary, DARE, Government of India, New Delhi inaugurated it on 17 September 2010 and interacted with progressive farmers. Dr P. Thangaraju, VC, presided over the function. Dr K.M.L. Pathak, DDG (Animal Sciences) and Dr Arvind Kumar, DDG(Education), delivered felicitation addresses.

The hostel consists of one training hall with a capacity to accommodate 100 persons, reading rooms, 10 dormitories to accommodate 96 trainees, trainer rooms, kitchen and dining facilities. An exhibition was also organized by the various units of Directorate of Extension Education and Directorate of Centre for Animal Production Studies during the event.

#### UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE

Seven students of the university who stood first in their chosen subjects in M.Sc. and submitted a research problem of national importance, for their doctoral research were selected for Innovation in Science Pursuit for Inspired Research (INSPIRE) Fellowship-2010 by Department of Science and Technology, Government of India. The fellowship is for a period of 5 years.



Dr. S. Ayyappan Inaugurating the Hostel

#### Their topics of research were:

- Integrated management of insect pests and soil-borne diseases in solanaceous and cruciferous vegetables through microbial agents. (Guide: Dr M. K. Shivaprakash)
- Somaclonal variations through *in-vitro* mutagenesis to induce *Fusarium* wilt resistance in Nanjangud Rasabale (silk group) and testing its genetic fidelity through molecular markers. (Guide: Dr B.N. Sathyanarayana)
- Physiological, biochemical and molecular aspects of seed invigoration in cucurbits. (Guide: Dr Rame Gowda).
- Inducing new clones in native banana varieties through *in-vitro* approaches. (Guide: Dr K. Umesh)
- A gene-pyramiding approach to improve salt tolerance in rice involving transporters and transcription activators. (Guide: Dr V.R. Sahhidhar)
- Transformation of maize with Bt genes. (Guide: Dr Ramanjini Gowda)
- Development, standardization and evaluation of probiotic-enriched foods. (Guide: Dr Vijayalaksmi).



Ms. Salone G (Biotechnology)



Miss. Sivasankari Devi.T (Microbiology)



Shri Waman Ajit Arun (Horticulture)



Ms Sowmya K.J. (Seed Science Technology)



Ms. Pooja Bohra (Horticulture)



MS. Sushma M. Awaji (Physiology)



Miss Shilpa Huchchannanavar (Food Science and Nutrition)

#### Awards

#### G.B. Pant University of Agriculture and Technology, Pantnagar Award for writing a book

The ICAR, New Delhi awarded Rajendra Prasad Puraskar to two scientists of Department of Vegetable Science, College of Agriculture, Dr D.K.Singh and Dr Durvesh Kumar Singh, for writing useful book *Sabji Beej Utpadan ki Naveentam Takneek*. The award carries a certificate and Rs. 50,000. Shri Sharad Pawar, Union Agriculture Minister, gave them the award at a function held on the ICAR foundation day, 16 July 2010, at New Delhi.



Dr. D.K. Singh Receiving Rajendra Prasad Puraskar

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