IAUA NEWS

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Spot News

IAUA, Executive Committee, 2011

Dr Tej Pratap

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Prof. (Dr) Rajendra B. Lal, VC, SHIATS, Allahabad	Ex-officio Member (past President)

NEW VCs

Dr V. Prabhakar Rao joins as VC, SVVU, Tirupati

Dr V. Prabhakar Rao

Dr V. Prabhakar Rao has taken over as Vice-Chancellor of Sri Venkateswara Veterinary University, Tirupati on 27 October 2010. Dr Rao did B.V.Sc. & A.H. (first class) from College of Veterinary Science, Rajendranagar, Hyderabad in 1965, M.V.Sc. (first class) from IVRI, Izatnagar, U.P. in 1968; and Ph.D. from NDRI with specialization in Animal Genetics and Breeding. He joined as Assistant Professor at APAU in 1969. He has more than 32 years of experience in teaching, research, extension and administration by serving ANGRAU (formerly APHU) in different capacities such as Assistant Professor, Professor and Registrar. He guided 8 M.V.Sc. and 2 Ph.D students. He published more than 60 research papers in peer-reviewed national and international journals. In recognition of his distinguished service to the profession he was honoured with Meritorious Teacher award by ANGRAU and Best Teacher award by the State government.

Dr R.S. Kureel joins as VC, NDUAT, Faizabad

Dr R.S.Kureel

Dr R.S. Kureel took over as VC of Narendra Deva University of Agriculture and Technology, Faizabad on 19 November 2010. Earlier he was working as Director, National Oilseed and Vegetable Oil Development Board, Ministry of Agriculture, Government of India. He was born on 18 February 1961 in village Kunwarpur, P.O. Shivrajpur, Kanpur. He did his B.Sc. (Agric. & Animal Husbandry) and M.Sc. (Agric. Agronomy) from Chandra Shekhar Azad University of Agriculture and Technology, and Ph.D. from Chhatrapati Shahuji Maharaj University, Kanpur. He also had his post-graduate education in Business Administration from Lal Bahadur Shastri Institute of Management, and Computer Software Technology from New Delhi.

Dr Kureel was working for the last 25 years on various positions from Assistant Director to Director in National Oilseeds and Vegetable Oil Development Board and as its Secretary. During this period he also co-ordinated the research projects in more than 80 institutions of the country. Dr Kureel has travelled to countries like France, Germany, the Netherlands, the U.K., China, Thailand, Vietnam, Hongkong, Bangladesh etc. He worked with renowned international organizations like the UNDP and European Commission.

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Dr V.K. Taneja given second term as VC, GADVASU, Ludhiana


Dr V.K.Taneja

Dr Vijay Kumar Taneja joined as VC, GADVASU, Ludhiana on 20 December 2006 and was reappointed for another term as VC from 20 December 2010 to 19 December 2014 after completion of his first term. He was born on 19 March 1945. He did B.V.Sc. & A.H., M.Sc. and Ph.D. (Animal Genetics and Breeding). He served as DDG (AS), ICAR; Animal Husbandry Commissioner; ADG (ICAR); Project Leader and Co-ordinator of Embryo Biotechnology etc. He contributed his expertise in various policy planning, direction and co-ordination areas like National Policy for Management of Animal Genetic Resources, National Breeding Policy on Cattle, Buffalo, Sheep, Goat and Rabbit; Livestock Policy Perspective (Bovines in India's Livestock Sector), Animal Husbandry and Dairying (Vision Statement 2020) etc. He held various special assignments in the ICAR, SAUs and other departments such as National Co-ordinator (FAO project on "Conservation and use of animal genetic resources" in Asia and Pacific), Expert Member (Task Force, DAHD), Cattle and Buffalo Breeding Policy etc. He received various national and international awards and visited 15 countries including the USA, France, Sweden, Pakistan, Indonesia etc, as member of delegation to participate in technical meetings or conferences as well as to present research and policy papers. He published 142 research papers, 36 policy papers and 34 books, and guided 21 students.

Dr R. Prabakaran joins as VC, TNVASU, Chennai


Dr R. Prabakaran

Dr R. Prabakaran, formely Dean, Madras Veterinary College, Chennai, joined as VC, TNVASU, Chennai on 19 October 2010 for a period of 3 years. He was born on 5 October 1957. He did FPS from the UK, M.A. (Econ.), MBA, M.V. Sc. and Ph.D. (Poultry Science). He worked for more than 30 years in different capacities. He was Chairman of 6 students of M.B.M., M.V.Sc. and Ph.D.

Dr Prabakaran published 115 research articles, 100 popular articles, 19 books and 4 teaching materials. He is member of 6 professional societies. During his service he received 11 awards and medals such as: Award for Best Book in Agriculture-1988, from Chief Minister of TN, Tamil University, Thanjavur, and Best Book in Science-1990; Shantha Memorial Prize for the best book published in Animal Science-1990, 1993 and 2008-09, TNVASU Gold Medal for the highest OPGA obtained in Ph.D. in 1992; Gold Medal for the Best Ph.D. student-1992 from the Governor of Tamil Nadu and Chancellor of TNVASU. Fellow of United Writers' Association of India-1993; and United Writers' Association Life-time Achievement Award-1998; Tamil Peravai Award, TNVASU-2004 and 2005.

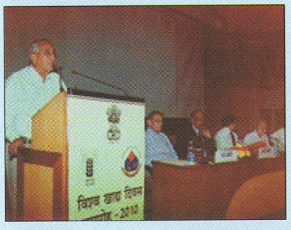
Focus on Universities : Achievements and Events

DEEMED-TO-BE UNIVERSITY

INDIAN AGRICULTURAL RESEARCH INSTITUTE, NEW DELHI

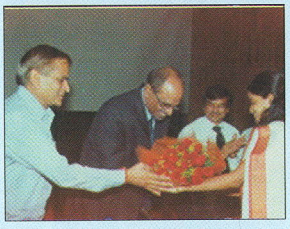
World Food Day celebration

On 16 October 2010 the World Food Day was celebrated jointly by the ICAR and the IARI, New Delhi. The theme of this year's observance was 'United against hunger', chosen to recognize the need to fight against world hunger at the national, regional and international levels.


World Food Day celebration

Dr S. Ayyappan, Secretary, DARE & DG, ICAR, delivered the welcome address and highlighted the significance of the World Food Day and its theme chosen. Dr Rajeev Chandran, Officer-in-Charge, UNIC, read out the message of Dr Ban Ki Moon, Secretary-General, the U.N.

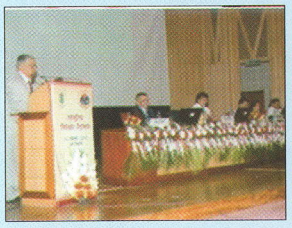
Dr Gopi Ghosh, Assistant Director, FAO in India, read out the message of Dr Jacques Diouf, DG, FAO. In his message he mentioned that the theme "United against hunger" highlights the need to launch a new green revolution.



Dr C.D. Mayee, Chairman, Agricultural Scientists' Recruitment Board, New Delhi, highlighted that the ASRB's functions in the ICAR are indirectly related to the core issues of agriculture. Dr Mayee emphasized that the greatest challenge before us is to produce food for 8 billion people globally. We, as scientists, should strive to develop an ever-improved science and technology including the new biotechnology to produce the food needed for the world today.

Prof. V.L. Chopra, former Member, Planning Commission, Government. of India, was the chief guest. He raised great concern that there have never been so many hungry people in the world as on this World Food Day 2010. He emphasized the necessity of an all-out united effort at all the levels in production chain as well as in the various branches of science and technology to improve agricultural production. The function concluded with vote of thanks by Dr H.S. Gupta, Director, IARI, New Delhi.

National Education Day celebration


National Education Day Celebration

A National Education Day lecture was organized on 11 November 2010 at New Delhi to commemorate the birth-day of Dr Abul Kalam Azad. Dr H.S. Gaur, Dean and Joint Director (Education), welcomed the guests and highlighted the significance of Education Day and the lecture series. He narrated the significant contributions made by Dr Abul Kalam Azad to the freedom movement, Hindu-Muslim unity and the education system of India. Dr H.S. Gupta, Director, introduced the Speaker and Chairman of the function, Dr C.D. Mayee praised the IARI authorities for inviting a young and exemplary personality like Shri Bhagat on this occasion.

Shri Chetan Bhagat delivering lecture

Shri Chetan Bhagat, best-selling novelist and author of four blockbuster novels, viz. Five Point Someone, One Night @ the Call Center, The 3 Mistakes of Life and 2 States, delivered a very impressive lecture on 'Dealing with highs and lows of life'.

INDIAN VETERINARY RESEARCH INSTITUTE, IZATNAGAR

Twentieth meeting of ICAR Regional Committee-IV


HE Shri M.O.H. Farook, inaugurating Regional Committee Meeting

The 20th meeting of the ICAR Regional Committee-IV, comprising states of Uttar Pradesh, Bihar and Jharkhand, was held during 7-9 October 2010 at Birsa Agricultural University, Ranchi. While inaugurating the meeting, H.E Shri M.O.H. Farook, the Governor and Chancellor of the Universitiy of Jharkhand, stated that the agricultural education and research orientation should be directed at increasing the production to raise the farmers' income. He stressed that the SAUs should conserve and improve non-descript livestock through better-management practices to improve productivity and thus meet the greater demand of meat, milk and draught capacity of animals.

The Chairman of the Regional Committee, Dr S. Ayyapan, Secretary DARE & DG, ICAR, remarked that the Regional Committee meetings are an important mechanism to view and set priority of R&D in the region, which not only serve as an instrument to sensitize the policy-makers but also to provide a forum of interface between the research and development officials.

The In-charge, Regional Committee, Dr Swapan Kumar Dutta, DDG (Crop Science), gave a brief outline of the Regional Committee meeting and highlighted the present status and global challenges of the agricultural sector. Dr N.N.Singh, VC, provided an overall scenario of agriculture and allied sectors of Jharkhand region.

The Member Secretary, Prof. M.C. Sharma, Director and VC, IVRI, emphasized the importance of the meeting and promised to provide support and co-operation for the betterment of animal health of the region.

Shri A.K. Singh, Secretary (Agriculture), Government of Jharkhand, highlighted the problems being faced by the region of Jharkhand; whereas Swami Shashankanand, Secretary, Rama Krishna Mission, Ranchi, stressed the need of modification in agricultural education system.

The Regional Committee was attended by Advisor, Planning Commission; national director, NAIP; DDGs and ADGs of the ICAR; VCs, directors and senior officers of SAUs; directors, project directors, zonal project directors and programme co-ordinators of all the ICAR institutes of the region; and the directors and senior officers of the line departments of the states.

Capacity building in livestock under changing climate

To mark the Silver Jubilee celebration of "Society of animal physiologists of India", an international conference on "Physiological capacity building in livestock under changing climate scenario" was held during 11-13 November 2010 at IVRI, Izatnagar, with a call by the speakers to make efforts to combat the impact of the climate change. The conference was organized by Division of Physiology and Climatology, IVRI, under the banner of SAPI. It was attended by 350 delegates, including scientists, teachers, research scholars and students from all over India and abroad.

Inaugurating the conference, Dr B.S. Bisht, VC, Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, stated that in the event of climate change and global warming, more heat and cold-tolerant genes are to be identified to develop tolerance to adverse climate among the animals.

Dr M.C. Sharma, Director and VC expressed the concern that the climate change is spreading the zoonotic diseases, which are transmitted from animals to humans and vice-versa. The climate change is causing repeated emergence of new vector-borne diseases.

Dr A.K. Srivastava, Director and VC, NDRI, Karnal, the chief guest, remarked that the livestock production is affected mostly by the environment and the availability of feed and fodder resources. The predicted climate change and global warming will further aggravate the situation.

The guests of honour, Dr Arvind Kumar, DDG (Education), ICAR; Dr. B. Pattnaik, Director, Project Directorate on FMD, Mukteshwar; Dr A.K. Mishra, Director, Project Directorate on Cattle, Meerut; Dr M. L. Madan, President, SAPI and former VC, PDUVASU, Mathura; and Dr P. Chakraborty, General Secretary, SAPI, also expressed their views on this occasion. Dr G. Taru Sharma, Organizing Secretary and Head, Division of Physiology and Climatology, briefed about the conference.

Meat production and processing for nutritional security and employment

A national symposium on "Strategies for sustainable meat production and processing for nutritional security and employment generation" along with fourth convention of Indian Meat Science Association (IMSACON-IV) was held during 19-20 November 2010 at IVRI, Izatnagar. It was attended by 140 delegates from more than 25 veterinary universities, colleges and research institutes of the country.

The chief guest, Dr S.K. Garg, former VC, PDDUPCVV, Mathura and the guest of honour, Dr Amresh Kumar, former Dean and Pro-Vice Chancellor, GBPUAT, Pantnagar, pointed out that meat and meat products are one of the important sources of nutrients for human diet and are enriched with high-value proteins.

In his presidential address Prof. M.C. Sharma, Director and VC, informed that there is remarkable increase in meat production during the last few years, yet there are immense possibilities to develop it further in India.

Dr V. Kesava Rao, President, Indian Meat Science Association, highlighted the activities and achievements of IMSA.

121st Foundation Day celebration

The IVRI celebrated its 121st Foundation Day from 7 to 9 December 2010. The chief guest Shri Badri Prasad Singh, IPS, Inspector General of Police, Bareilly Range, inaugurated the Games & Sports Meet-2010 at the IVRI Sports Stadium. He complimented the IVRI for protecting the peoples' health by providing the technology for food safety, as milk adulteration has become a growing menace in the society.

Prof. M.C. Sharma, highlighted the glorious track record of the institute in the fields of research, education, extension and transfer of technology. He briefed about some of the significant achievements and honours received by the institute recently. He lauded the significant contribution of every segment and staff of IVRI for their achievements in zonal and inter-zonal sports arena.

A Foundation Day lecture on "Trans-boundary animal diseases in South Asia: the FAO perspective" was delivered by Dr Leo Loth, Chief Technical Advisor of FAO, Emergency Centre for Transboundary Animal Diseases, India, on 9 December 2010.

Shri Anil Garg, IAS, District Magistrate, Bareilly, graced the closing ceremony as chief guest and encouraged the winners by distributing prizes and certificates to them.

Dr Ashok Kumar, Officer-in-Charge, Games and Sports, and Head, Division of Veterinary Public Health, provided an overview about the 3 day event. Finally, Dr M. Hoque, Secretary, Games and Sports, presented a brief report on the activities and informed that 62 events were conducted during this meet.

A Profile

UNIVERSITIES

MAHARANA PRATAP UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, UDAIPUR

Formation

The MPUAT came into existence on 1 November 1999 by bifurcating Rajasthan Agricultural University, Bikaner. Its jurisdiction is spread over 12 districts viz. Sirohi, Udaipur, Banswara, Dungarpur, Rajsamand, Brhilwara, Chittorgarh, Kota, Bundi, Baran, Jhalawar and Pratapgarh.

Mandate and objectives

- Making provision for imparting education in different branches of study, particularly Agriculture, Horticulture, Veterinary Science and Animal Husbandry, Fisheries, Forestry, Agricultural Engineering, Home Science, Dairy and Food science, and other allied branches of learning and scholarship;
- Furthering the advancement of learning and conducting research, particularly in agriculture and other allied sciences;
- Undertaking the extension education of such sciences or technologies, especially for rural people of the state; and
- Such other purposes as the university may determine from time to time.

Institutional set-up

The institutional set-up for fulfilling the mandate of the university includes six constituent colleges, three research stations, two agricultural research substations, one dry-farming research station and 10 KVKs.

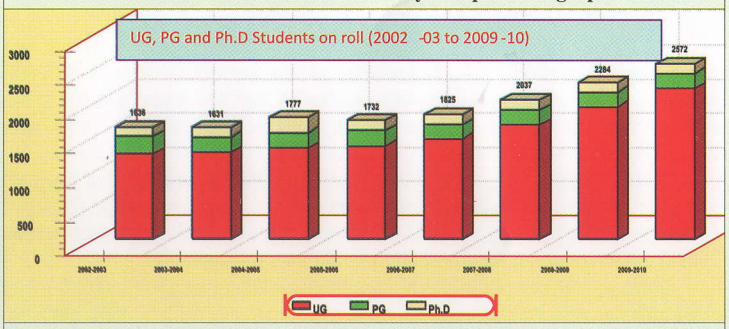
The under-graduate programmes are in the disciplines: Agriculture, Home Science, Dairy Technology, Food Technology, Horticulture, Forestry, Agricultural Engineering, Electrical Engineering, Mechanical Engineering, Electronics and Communication Engineering, Civil Engineering, Mining Engineering, Computer Science Engineering and Information Technology Engineering.

The post-graduate programmes are in the disciplines: Faculty of Agriculture: Agronomy, Plant Breeding and Genetics, Agricultural Chemistry and Soil Science, Horticulture, Entomology, Plant Pathology, Nematology, Agricultural Extension Education, Agricultural Economics, Agribusiness Management, Molecular Biology and Biotechnology; Faculty of Fisheries Science: Inland Aquaculture. Faculty of Engineering and Technology: Soil and Water Conservation, Irrigation and Water Management, Farm Machinery and Power, Renewable Energy Sources, and Processing and Food Engineering. Faculty of Home Science: Food and Nutrition, Family-Resource Management, Human Development and Family Studies, Textiles and Apparel Designing, Home Science Extension, and Communication Management.

The Ph.D. programmes are in the following disciplines: Faculty of Horticulture and Forestry: Horticulture; Faculty of Agriculture: Agronomy, Plant Breeding and Genetics, Agricultural Chemistry and Soil Science, Horticulture, Entomology, Plant

Pathology, Nematology, Agricultural Extension Education, Agricultural Economics, Limnology and Fisheries; Faculty of Engineering and Technology: Soil and Water Conservation, Irrigation and Water Management, Farm Machinary and Power, Renewable Energy Sources, Processing and Food Engineering. Faculty of Home Science: Food and Nutrition, Family Resource Management, Human Development and Family Studies, Textile and Apparel Designing, Home Science Extension, and Communication and Management.

The students enrolment in the university is depicted in graphical format.



The new programme has started in the college mentioned in the table

No.	Programme	College	Year
1	B.E. in Computer Science Engineering	College of Technology & Engineering, Udaipur	2000
2	B.E. in Electronics and Communication Engineering	College of Technology and Engineering, Udaipur	2006
3	B.E. in Information Technology Engineering	College of Technology and Engineering, Udaipur	2007
4	B.E. in Civil Engineering	College of Technology and Engineering, Udaipur	2007
5	M.Sc. in Molecular Biology and Biotechnology	Rajasthan College of Agriculture, Udaipur	2005
6	MBA in Agribusiness	Rajasthan College of Agriculture, Udaipur	2009
7	Ph.D. in Textiles and Apparel Design	College of Home Science, Udaipur	2009
8	B.Tech. in Biotechnology	College of Dairy and Food Science Technology, Udaipur	2010
9	MBA (Engineering)	College of Technology and Engineering, Udaipur	2010

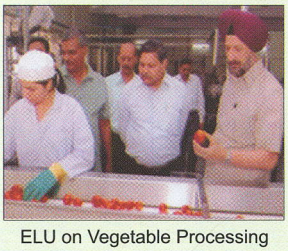
Fifth university convocation

So far five university convocations and two college convocations have been held, in which 2,668 bachelors, 838 masters and 369 Ph.D. degrees were awarded. The fifth university convocation was held on 12 March 2010. Strict punctuality was maintained in awarding degrees to the students each year.

Fifth University Convocation

Quality improvement in education

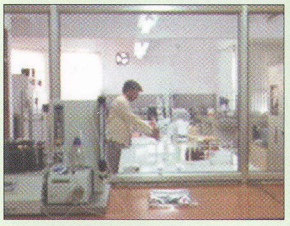
- Revised course curricula at the UG level as per Fourth Deans Committee of the ICAR has been implemented in all the colleges from 2006-07 and at the PG and Ph.D. levels as per Katyal Committee of the ICAR in all the disciplines from 2009-10 academic year.



ELU on Vegetable Processing

- The new RAWE in-plant training model including industrial attachment of students, professional courses in Home Science faculty on 2 + 2 pattern for graduates, promotion of e-learning, emphasis on practicals and hands-on practice, strict adherence to attendance to the extent of 75% and its regular monitoring, regular revision of practical manuals, implementation of Adjunct Professors Scheme, special lectures through experts in different areas of specialization, constant monitoring of classes etc. were made effective.
- Established Experiential Learning Centres in (i) Renewable energy sources at CTAE, (ii) Processing and value addition of agricultural products at CTAE, (iii) Apparel production management at CoHS, (iv) Bio-control at RCA, (v) Processing centre for food and vegetables and development of mixed food at CDFST, and (vi) Specialty food like high protein food, health food and milk food at CDFST, Udaipur.
- Gigabit campus networking providing 4 Mbps leased-line connectivity.
- Library information system partially automated, bar-coded and digital.
- MoUs for collaborative programmes with many reputed organizations and institutions at national and international levels.
- Teaching programmes of RCA, CTAE, CoHS and CDFST, Udaipur, accredited by the ICAR for a period of 5 years from 2009.

Hi-Tech Horticulture



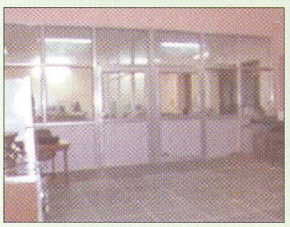
Phytosanitary Lab

Infrastructure for innovative instructions

Hi-tech horticulture: A model of Hi-tech Horticulture unit was established at Rajasthan College of Agriculture, Udaipur. The forced ventilated green-house with cooling system for vegetable and flower crops is the first in Rajasthan. Fully controlled and computerized fertigation unit and drip-irrigation systems have been laid out in all the green-or poly-houses. Rose, gerbera, capsicum and cucumber are being produced and marketed.

Ergonomics Lab

Ergonomics laboratory: An ergonomics laboratory has been established at CTAE, Udaipur, with three sections viz. Physiology laboratory, Anthropometric laboratory and Safety laboratory.



Ergonomics Lab

Bio-diesel laboratory: Batch-type bio-diesel processing plant for Jatropha seeds has been established. This is available for the farmers also for extraction of oil from Jatropha seeds on payment.

Phytosanitary laboratory: A phytosanitary laboratory has been established at ARS, Kota for protecting the health hazards of living-beings from the risk arising due to entry and establishment of harmful organisms, and through additive contaminants and toxins through export and import of agricultural commodities. Presently the laboratory is in a position to analyze all the standards required for phytosanitation to export or import the commodities, especially seeds and spices.

Bio-pesticides lab

Bio-technology laboratory: Plant Molecular Biology and Biotechnology laboratory, Tissue Culture laboratory and Bio-infomatics laboratory have been established. These are fully equipped with all essential equipments for bio-technological research.

Water-harvesting system: For effective demonstration of rain-water-harvesting technology, plastic-lined farm ponds have been constructed at various farms of the university.

Bio-agent production: To ensure the availability of quality bio-agents or bio-pesticides required for adoption of organic farming as well as IPM technologies of important crops grown in the region, two laboratories were developed for production of bio-control agents like Trichogramma chilonis HaNPV, SNPV and Trichoderma viridae. The production has already been started, which will be supplied to the state government, NGOs, SAUs, KVKs and farmers of the region.

Variety improvement

Concerted efforts were made to develop short-duration varieties of different crops suitable for rainfed conditions. The important varieties developed by the university, which are popular among the farmers, are as follows:

Maize: Aravali Makka-1, Pratap Makka-3, Pratap Makka-4, Pratap Makka-5, Pratap Makka Chari-6, Pratap Hybrid Maize-1 and Pratap Hybrid Maize-2; **Sorghum:** SPH-837, CSV-17, Pratap Jowar-1430, CSV-23 and fodder variety Pratap Chari-1080; **Foxtail millet:** Meera (SR- 16) and Pratap Kangni (SR-51); Barnyard millet: Pratap Sanwa-1 (ER 64); Proso millet: Pratap Cheena-1 (PR-18); **Horsegram:** AK-21 and Pratap Kulthi-1 (AK 42); **Groundnut:** Pratap Mungphali-1, Pratap Mungphali-2, TAG-37-A and Pratap Raj Mungphali; **Soybean:** Pratap Soya-1, Pratap Soya-2 and Pratap Raj 24; Chickpea: Pratap Chana-1; **Linseed :** Pratap Alsi 1 (RLU 6) and RL 914; **Cotton:** Pratap Kapi 1 (REDV 7); **Ajwain:** Pratap Ajwain-1; Babchi: Pratap Babchi -1.

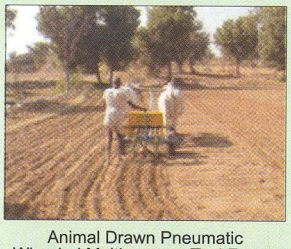
Technology for field-crop production 120

Crop production and protection technology for important crops like maize, sorghum, rice, wheat, blackgram, chickpea, soybean, groundnut, sesame, mustard and cotton were developed and recommended to the farmers. Some major recommendations are given below.

- Inter-cropping systems developed include maize+ blackgram (2:2), sorghum+ greengram (2:1), groundnut + sesame (6:2) and gram + mustard (6:2).
- Integrated nutrient-management modules for maize, especially corn (sweet corn and pop corn), sorghum, rice, rajmash, chickpea, soybean, wheat, mustard etc. were developed
- Nutrient-management recommendations for organic farming of maize, soybean, wheat, coriander, fenugreek and kabuli gram were developed.
- Integrated weed-management systems were developed for crops like maize, sorghum, wheat, rice, blackgram, pigeonpea and soybean; and intercropping systems like maize+pulse, sorghum-pigeonpea or soybean.
- IPM modules were developed to control shootfly in sorghum, pod borer in chickpea and pigeonpea, aphids and white rust in mustard, leaf spot disease in soybean etc.
- Soil treatment with carbofuran 3 G to control nematodes and white grubs in maize.
- Plant-protection modules for organic farming of maize, soybean, wheat, coriander, fenugreek and kabuli gram.

Technology for horticultural crop

- Improved cultivars of guava MPUAT S-1, an apple-colour red-skin variety with medium tree stature; and MPUAT S-2, greenish yellow-colour fruit skin with 3 m tree height and average fruit weight of 200 g were identified.
- Improved technologies were developed for the major fruit, vegetables and flower crops and the medicinal and aromatic plants. In the last 3 years, the university has produced around 7.0 lac quality saplings of different fruits, which were supplied to the growers of the region.



Animal Drawn Pneumatic Wheeled Multipurpose Tool Frame

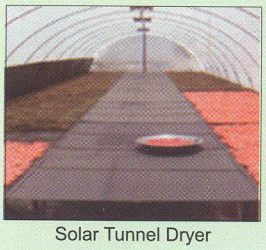
Aloe Vera Gel Extractor

Farm implements and machineries

The farm implements and machineries developed by the university include pneumatic-wheeled multipurpose tool-frame (animal-drawn), whole-crop maize thresher, air-sleeve boom sprayer (tractor-operated), tractor-mounted garlic planter and rotary mode for post-harvest machines.

Processing equipments

The processing equipments developed by the university include maize dehusker-cum sheller, garlic-bulb breaker, aonla-processing unit, ginger or turmeric peeler-cum-polisher, aloevera-gel extractor and solar-tunnel dryer.



Solar Tunnel Dryer

Gadgets for renewable energy sources

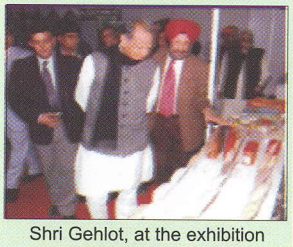
The popular renewable energy gadgets developed by the university are improved cook stove, solar tunnel-dryer and horizontal-flow bio-gas plant.

Home science technologies

The home science technologies developed by the university include nutriguide, Udaipur AICRP mix, value addition of Aloe vera, enrichment of traditional food products, low-glycemic index products for diabetics, standardization of dyeing conditions with natural dyes and making of herbal gulal.

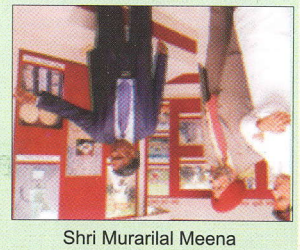
Extension education services

1. **KVK and ATIC:** Presently 10 Krishi Vigyan Kendras (in south and south-eastern region of Rajasthan) and Agricultural Technology Information Centres are working under the administrative control of this university. The KVKs have well-developed infrastructural facilities including communication centre well equipped with print media, video-conferencing facilities, seminar halls, VA aids etc. During the last 10 years the directorate organized 3 national training programmes, 65 state-level trainings, 10,409 trainings for farmers and farm women, and 477 trainings for rural youth. It laid out demonstrations of front-line technologies of cereals, pulses, oilseeds and vegetables in 7,327 ha area. To assess and refine the technology, 249 on-farm trials were organized. For rapid transfer of technology, 68 kisan melas and 447 field days too were organized.
2. **Agripreneur development:** The extension education system is orienting the agricultural graduates to become job providers under Agri-clinic and Agri business schemes sponsored by MANAGE, Hyderabad. Under this programme 114 candidates were trained in six such courses of 60 days duration. The Directorate also helped them in preparation of business plan and getting loans from banks. The annual business turnover of successful agripreneurs is ranging from 4.0 lac to 25 lac .
3. **Western Region Krishi Vigyan Mela:** The Directorate of Extension Education and its KVKs organized state and district-level Krishi Vigyan Melas every year for rapid dissemination of agricultural and allied technologies. In 2005 the university hosted the first Western Region Krishi Vigyan Mela along with flower, fruit and vegetable show at Udaipur during 24-27 February. The fair attracted more than 50,000 farmers, farm women and youth from 8 western states, besides from 21 ICAR institutes and SAUs. It was inaugurated by H.E. Smt. Pratibha Devi Singh Patil, the then Governor of Rajasthan and now President of India.



Shri Gehlot, at the exhibition

4. **Marwar Krishi Utsav:** The MPUAT participated in Marwar Krishi Utsav-2009, organized by Department of Agriculture, Government of Rajasthan and CII during 7-8 December 2009 at Jodhpur. CM Shri Ashok Gehlot inaugurated the event and visited the stalls including that of MPUAT. He showed keen interest on the type of intervention made by the university for economic empowerment of the farmers.



Shri Murarilal Meena visiting state museum

5. **Visit of State Minister**: Shri Murari Lal Meena, State Minister for Higher Education, Technical Agriculture visited the university technology musum established at Directorate of Extension Education, displaying lates technological achievements.
6. **Increased seed-replacement rate and quality planting materials:** During the last 5 years the KVKs produced 3,444 q seeds of various crops

and 83,094 quality planting materials, which were provided to the farmers at reasonable prices. Further, the Directorate of Extension Education mobilized a large number of quality planting materials from various ICAR institutes and SAUs and provided 54,142 saplings of fruit plants to the farmers of the state through its KVKs.

7. Capacity building of scientists and extension functionaries: To update the knowledge about recent advances in science and technology, DEE organized 3 winter or summer schools on Communication technologies and extension methodology, and 9 on Innovative breeding methodology for sustainable higher production and Advanced communication medias and extension techniques.
8. Integrated Village Development Project: The university helped transform the tribal villages for livelihood and nutritional security through a bouquet of 24 integrated farming system technologies in collaboration with Department of Tribal Area Development, Government of Rajasthan. In this project 18 tribal villages in three districts, viz. Udaipur , Banswara and Dungarpur, were developed as a model for future research and development, benefiting 5,500 tribal households. As a result the income of BPL households increased two-folds, along with significant improvement in their social and nutritional status.

NAIP Project Site

9. Popularization of fruit plants:An important feature of the programme was that 9,000 tribal families in 26 villages of Udaipur, Dungarpur, Banswara, Sirohi and Chittorgarh districts were provided each with five grafted fruit plants (mango, aonla, guava, lime and custard apple) using pitcher technique of irrigation along with two papaya plants, and these were planted around the houses or fields.

Inter-Collegiate Tournament

10. NAIP on sustainable rural livelihood security: The World Bank-aided NAIP subproject under component-3, "Livelihood and nutritional security of tribal-dominated areas through integrated farming system and technology models" worth Rs 1,884.13 lacs in a competitive mode was sanctioned to MPUAT in 2007-08. The project is being implemented in 10 clusters of four disadvantaged districts, viz. Sirohi, Dungarpur, Banswara and Udaipur, covering 78 villages and 13,201 farm households. Horticulture-based integrated farming system, and livestock-based IFS model with judicious mix of proven and need assessed technologies appropriate for small and marginal farmers encompassing end-to-end approach have been executed for development of appropriate replicable model. A number of innovations have been built in the design of the project, viz. horticulture and livestock-based IFS modules, basket of technology options, partnership with various seed and agro-chemical industries, establishment of farm-fresh outlet, concept of producer company and FBGs, new model of rural technology centre and sustainability fund concept.
11. (i) Student welfare: The Directorate of Students Welfare co-ordinates different activities such as sports, literary, cultural and moral education and the placement and counseling activities to facilitate the overall personality development and to inculcate the basic values amongst the young students of the university to groom them as good citizens of the nation. (ii) Games and sports facilities: The university has two well-defined sports and games complexes, one at RCA and another at CTAE campus, comprising various games and sports facilities including volley ball, football, cricket, table tennis, lawn tennis, gymnasium etc. (iii) Digital English language laboratory: It is equipped with 10 computers and one tutor, internet connectivity in each computer, teaching software etc. for learning language. (iv) Placement and counseling centre: A placement and counseling centre guides the students for career opportunities and arranges campus recruitment interviews by various organizations. Record placement was achieved during 2009-10. (v) National events: The university organized national events like Agriunifest-2004, Agriunisports-2006 and Agriunifest-2007, in which students from all the SAUs, central universities and DUs of the country participated. (vi) New initiative: The work of Zonal Sports Complex for indoor and outdoor events and a modern swimming pool is in progress.

DR Y.S. PARMAR UNIVERSITY OF HORTICULTURE AND FORESTRY, NAUNI, SOLAN

High-density temperate fruits

A training programme on Temperate fruits production technology with special emphasis on high-density plantation was organized for Fifteenth meeting of Horticulture Development Officers and Field Demonstrators of Meghalaya during 14-18 December 2010 at Nauni campus. The programme was sponsored by Meghalaya Small Farmers' Agri-Business Consortium, Lumdiengsoh, Moto Nagar, Shillong (Meghalaya). During the programme the participants were exposed also to the latest high-technology horticulture and taken to Regional Horticultural Research Station, Mashobra (Shimla) for demonstrating high-density plantation and other orchard-management practices.

Model training course

A model training course on Temperate fruit production technology under changing climate conditions was organized by Directorate of Extension Education, from 23 to 30 November 2010 at the university campus. The programme was sponsored by Ministry of Agriculture, Department of Agriculture and Cooperation, Government of India, New Delhi. The programme aims to upgrade the professional competence and skill of senior-level departmental officers, subject matter specialists and horticulture officers (HDOs/HEOs). Eighteen officers from Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana, Arunachal Pradesh, Sikkim and Uttarakhand attended the training programme.

Dr Sunil Gupta, distributing training certificates to participants

Dr K.R. Dhiman, VC, the chief guest of the concluding session, held discussions with the participants regarding their professional requirements and problems, implementation of various schemes in the field and other technical issues, and attended to their queries. He said that such a training is a step in right direction, because it provides an excellent opportunity and platform to the participants to update their knowledge and enable them to further disseminate this knowledge to the beneficiaries.

Participants of model training course learning techniques of pruning stone fruits

Dr Sunil Gupta, VC, HPU, Shimla, the chief guest, gave the training certificates and literature to the participants in the company

GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY, LUDHIANA

Honour to faculty

Dr J.P.S. Gill, Professor and Head, Department of Veterinary Public Health, was nominated Member of ICMR- ICAR Joint Working Group on Zoonoses.

Dr J.S. Bedi received Commonwealth Split–Site Scholarship for doctoral research at University of Sussex, the U.K.

International linkages

This university and University of Saskatchewan, Canada took up a collaborative research project under International Partnership Fund Program for $300,000, in which both the institutes will contribute equally. This proposal was initiated in view of the alarming impacts of environmental pollutants on animal and human health in Punjab. In this proposal various institutes from University of Saskatchewan, Saskatoon, Canada such as Western College of Veterinary Medicine, Canadian Center for Health and Safety in Agriculture, School of Public Health, College of Graduate Studies and Research, Canada and Department of Veterinary Public Health, GADVASU, Ludhiana will be the major areas of strategic research need for Punjab. The interdisciplinary theme areas of public health, zoonoses and environmental toxicology were identified for this partnership,

The university proposed a research project on "Environmental pollutants and zoonotic pathogens in Punjab: their impact on animal and human health. This project in India will be co-ordinated by Dr V.K. Taneja, VC, and Dr S.S. Randhawa, Director Research. Dr J.P.S. Gill will be Principal Investigator. The project includes exchange of faculty members from each institution and provide assistance to PG students to undertake collaborative research in the designated areas. This is aligned with the strategic priorities of increasing the extensity.

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

Pantvarsity and Illinois University to rejuvenate co-operation

A delegation of University of Illinois, Urbana-Champaign, the USA, visited Pantnagar during 6-7 October 2010 to renew its co-operation with Pantvarsity. The delegation was headed by Dr. Robert A. Easter, Chancellor and Provost of University of Illinois. This university helped the Uttar Pradesh state in establishing Pantnagar University in Tarai State Farm in 1960. The Pantvarsity is now celebrating its Golden Jubilee. In this background the University of Illinois has once again desired to re-establish its ties with Pantvarsity.

Dr Robert A. Ester presenting memento to Dr B.S. Bisht

The delegation held extensive discussions with the scientists and officers of the university to identify mutually beneficial areas of co-operation. It was proposed to start a Centre for Educational Excellence besides starting co-operation for exchange of student and scientists, human-resource development, organization of joint trainings and conferences, and for conducting research in food science, food processing, soil sustainability, biotechnology, agricultural engineering, environmental protection, seed development etc.

MoU with McGill University of Canada

The university signed an agreement with McGill University of Canada on 3 November 2010 to carry out joint research and education programmes. In the meeting Prof. James McGill, Dr Vijay Raghavan and Dr Shiv-O-Prasar on behalf of McGill University, and Mrs Amita Joshi, Comptroller on behalf of Pantnagar University, signed the agreement in the presence of Dr B.S. Bisht, VC. Dr Bisht termed this agreement a significant event in the golden jubilee year of the university. Dr Vijay Raghavan assured mutual co-operation and efforts for solving the problem of food production and food security to better the standard of living of the people.


MoU signing with McGill University of Canada

Symposium on Increase in animal-reproduction potential

College of Veterinary and Animal Sciences organized an international symposium on 'Biotechnologies for optimization of reproductive efficiency of farm and companion animals to improve global food security and human health' during 10-12 November 2010. Dr Arvind Kumar, DDG(Education), ICAR, New Delhi, inaugurated and Dr B.S. Bisht, VC, presided. Dr Suresh S. Honnappagol, VC, Veterinary University of Karnataka, was the guest of honour at the inaugural session. More than 400 scientists from national and international organizations participated in this conference.

Intensive discussions were held during the conference to increase the animal breeding potential and production of livestock products. Important recommendations of the conference included establishment of National Animal Breeding Institute, development of indigenous mountainous breeds, improvement in the process of artificial insemination and also the conservation of Murrah, Bhadavari and Mehsana breeds of buffalo, Sahiwal breed of cow and Jamunapari breed of goat.

Indian patent for animal-drawn zero-till ferti-seed drill

The animal-drawn zero-till ferti-seed drill, developed by the scientists of Farm Machinery and Power Engineering Department of College of Technology received 20-year patent from Patent Office of Government of India. This drill is helpful in timely sowing of wheat by using small draught animals in hill areas and medium-sized animals in the plains. The machine helps save 40 per cent expenditure on wheat sowing compared with the traditional method of sowing, without affecting production. The university has so far received five patents and has filed 28 patents for new technologies developed by the university scientists


Animal- drawn zero-till ferti-seed drill

KARNATAKA VETERINARY, ANIMAL AND FISHERIES SCIENCES UNIVERSITY, BIDAR

Conference on livestock and environment

A national conference on 'Livestock and environment', sponsored by Ministry of Environment and Forests, Government of India, was organized jointly by CARTMAN and Veterinary College, Bangalore during 28-29 October 2010 at Veterinary College, Bangalore. Shri D.V. Prasad, Principal Secretary to Government of Karnataka, Department of Animal Husbandry and Fisheries, inaugurated it and delivered the inaugural address. Prof Suresh S. Honnappagol, VC, released the souvenir and addressed the gathering. The recommendations made at the conference include greater emphasis to reduce the environmental stress on animals by providing proper management systems, increase the utilization of draught animals, effective conservation of native livestock genetic resources, and address major concerns of environmentalists, especially the green-house gas production and its impact on environment.


Inauguration of national conference

Mudhol hound dog show

The university established a Canine Research and Information Centre exclusively for conservation and development of Mudhol hound. This is the first of its kind in the country wherein encouragement has been given by the Government of Karnataka to support companion animal husbandry to provide livelihood security to the poor, marginal and landless labourers. This Centre organized the first Mudhol hound dog show on 25 November 2010 in collaboration with Mysore Canine Club and Department of Animal Husbandry and Veterinary Service at Mudhol in Karnataka. Prof. Suresh S. Honnappagol, VC, graced the occasion along with key officers of the university and subject-matter specialists. Out of 800 dogs registered for the show, 30 best dogs were selected and sent to International Dog Show held at Chennai during 11-13 December 2010. Micro chips were inserted in 100 dogs for their easy and efficient identification. The best dog owners too were rewarded.


Prof S.S. Honnappagol giving prize to the champion dog

MAHARANA PRATAP UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, UDAIPUR

Fifth national conference on KVK-2010

The 5th National Conference of KVK-2010 was held during 22-24 December 2010 at Udaipur.H.E. Smt. Pratibha Devi Singh Patil, the President of India inaugurated it in the presence of H.E. Shri Shivraj V. Patil, Governor of Punjab and Rajasthan; Shri Ashok Gehlot, CM of Rajasthan; Shri Sharad Pawar, Union Minister of Agriculture; Prof. C.P. Joshi, Union Minister of Rural Development; Prof. K.V. Thomas, Union Minister of State for Agriculture; Dr S.Ayyappan, Secretary, DARE and DG; and Dr K.D. Kokate, DDG (Agric. Extn.), ICAR, New Delhi and Prof. S.S. Chahal, VC. There were seven technical sessions, attended by the VC of 13 state agricultural universities, 6 DDG, of ICAR, 15 directors of the ICAR institutes, Secretaries from State Government, Director Extension of SAU's, Chairman of NGO's and Programme Coordinators of 589 Krishi Vigyan Kendras from all over the country. The theme of the Conference was "Farm Innovations 4 Agripreneurs" H.E. Smt. Pratibha Devi Singh Patil, the President of India also inaugurated National Exhibition on Farm Innovations. In the exhibition 15 ICAR Institutes, 10 SAU's, 16 KVK's and 8 Private Sector Companies displayed innovative technologies through live models and exhibits. Besides these, best technologies of KVK's and innovations of farmers were also displayed.

Fifth National Conference


H.E. Smt. Pratibha Patil, conferred the best KVK award

H.E. Smt. Patil conferred the best KVK award to three KVKs, viz. KVK, Kancheepuram; KVK, Cuddalore; and KVK, Kunnur, and also felicitated three farm innovators, viz. Shri Chandra Shekhar (U.P.), Shri N.S. Jhadava (Maharashtra) and Shri Surjeet Singh (Punjab).

Seven technical sessions were held on themes like bio-diversity, farm innovations by farmers, value chain for higher income, group dynamism, ICT enabled models, linkages for innovation flow, and KVK experience, which encompassed the comprehensive issues related to farmer, focused agricultural development.

The major recommendations are given below:

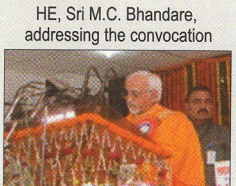
- The role of KVKs is important in bio-diversity management and plant-variety protection.
- Wherever required, the KVKs should implement programmes jointly with NBPGR, NBAGR or NBFGR for conservation of bio-diversity.
- The ITKs in bio-diversity should be documented by all the KVKs.
- Awareness should be created among the farmers on plant-variety protection, farmers' right on crop varieties, livestock breeds etc.
- There is need for continued recognition of farm innovators and their innovations at national, state, district and village levels. A suitable mechanism of rewards and motivation has to be worked out at different levels.
- The innovations developed by the farm innovators have to be further refined and improved for wider use and applicability. For this purpose, a suitable institutional mechanism with the help of national research institutes and SAUs should be worked out.
- There is need for integration of different innovations of farmers suitable for different farming systems. An integrated system of farmers' innovations has to be demonstrated at farm level for wider coverage and applicability.
- Protected cultivation is highly attractive, requiring less inputs and providing more output. But it requires very strong post-harvest handling and market linkages, and hence entrepreneurship development in sustainable form is very important.
- Maize is a very healthy food and has very good popping property. However, value-addition of products, similar to makhana products from the popped grain, has not been tried much, which if developed can become very good functional food due to its highest digestibility.
- The National Knowledge Network is to be channelized for strengthening agricultural knowledge management and for sharing the critical and emerging areas.
- Contribution of online articles from the KVKs on success stories and farmers' innovations is to be encouraged.
- The KVKs have to be proactive in emerging areas of ICT in Agriculture like\ market intelligence services, on-line trading, futures' market, GIS system for mapping of agricultural resources etc.
- Backward and forward linkages should be created between the farmers' organizations and development departments.
- Women empowerment through microfinance and replication of Bangladesh model of microfinance should deserve greater attention..
- SHGs, linking production and marketing, should be created.
- The IGWDP model of NABARD and multiple-level employment model of Deendayal Research Institute by the KVKs deserve replication.

30th Convocation

The 30th convocation of the university was held on 21 October 2010, in which 479 graduates, 206 post-graduates and 7 Ph.D.s were conferred degrees who had successfully completed their studies in various disciplines during 2009-10. Besides, 68 gold medals and 10 cash prizes were awarded to the students for their excellence in academic and co-curricular activities.

HE, Sri M.C. Bhandare, addressing the convocation

HE Shri. Murlidhar Chandrakant Bhandare, the Chancellor of the university, conferred the degrees, distributed medals and prizes and addressed the convocation. Shri Mohammad Hamid Ansari, hon'ble Vice-President of India, delivered the convocation address as chief guest, whereas Dr Damodar Rout, Minister of Agriculture, Co-operation, Fisheries and Animal Resources Development, Government of Orissa and the Pro-Chancellor, addressed the students. Honorary doctorate degrees were conferred on Dr Rajendra Singh Paroda, Chairman, Trust for Advancement of Agricultural Sciences, and former Secretary, DARE and DG, ICAR; Dr Kirti Singh, Chairman, World Noni Research Foundation, Chennai, former VCs, of 3 agricultural universities and Former Chairman, ASRB; Dr Tarun Kumar Bose, former Dean, Faculty of Agriculture and former Director of Research, BCKV; Dr Nrusingh Charan Panda, former Dean, College of Veterinary Science and Animal Husbandry, OUAT; Dr Niranjan Panda, former Professor & Head, Department of Entomology, College of Agriculture, OUAT and Dr Manojranjan Nayak, founder President, Siksha-o Anusandhan University, in recognition of their illustrious services for the cause of the farming community.



Shri Mohammad Hamid Ansari, hon'ble Vice President of India addressing the convocation

Dr R.S.Paroda, ex-DG, ICAR, receiving honorary Doctorate degree

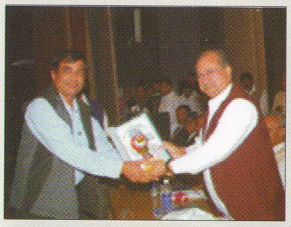
Dr Kirti Singh, receiving honorary doctorate degree

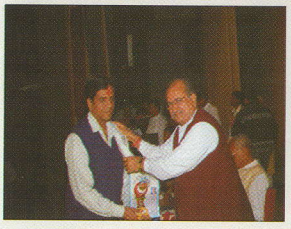
Awards

ANAND AGRICULTURAL UNIVERSITY, ANAND

Awards to scientists

Dr J. G. Patel and Dr Mahesh R. Patel, Directorate of Extension Education, were awarded by Shri Bhupendrasinh Chudasama, former Agriculture Minister, on the occasion of Mavtar Vandana programme and Lok diaro, organized by Gandhinagar Rachnatmak Seva Samiti at Gandhinagar on 31 December 2010. The award was given for their best contribution in the field of agriculture through an innovative technology for the benefit of farming community based on value addition of cowdung and urine.





Dr. G.K. Mishra, H.J. Derashri, J.A. Patel and V.P. Belsare received Prof. Nils Lagerl of Memorial Award of Indian Society for Study of Animal Reproduction, on 10 November 2010 at Pantnagar for the best research paper published during 2009. The paper was on "Economic management of post-partum period to optimize the profit in pure Holstern- Friesien cows". It was given during International symposium on Biotechnologies for optimization of reproductive efficiency of farm and companion animals to improve global food security and human health, and XXVIth Annual convention of ISSAR, organized by Department of Animal Reproduction, Gynaecology and Obstetrics, College of Veterinary and Animal Sciences, GBPUAT, Pantnagar.

DR BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH, DAPOLI

Fellowship to Dr V. B. Mehta

Dr V. B. Mehta, VC, was made 'Fellow' by Indian Society of Coastal Agricultural Research, West Bengal. Shri Pratapsingh Rane, Speaker, Goa Assembly, presented the award to him during National Symposium on 30 October 2010.

Dr V.B. Mehta

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To,

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