

# IAUA



# NEWS

QUARTERLY NEWSLETTER OF INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION

VOLUME 11 NO. 1

JAN - MAR 2011

## CONTENTS

### Spot news

- IAUA enters into international collaboration
- Visits of Taiwan delegation to IAUA and IARI

### New Vcs

Dr Tej Partap VC, SKUAST, Srinagar  
 Prof A.K. Gahlot VC, RAJUVAS, Bikaner  
 Dr A. M. Shekh joins as VC, AAU, Anand  
 Dr A.K. Dahama takes over as VC, SKRAU, Bikaner  
 Dr T. A. More joins as VC, MPKV, Rahuri  
 Dr K.P. Gore joins as VC, MAU, Parbhani

### ACHIEVEMENTS/ EVENTS

### Universities

DBSKKV, Dapoli; Dr PDKV, Akola;  
 DYSPUHF; Nauni; GADVASU, Ludhiana;  
 IGKV, Raipur; KAU, Thrissur;  
 MPKV, Rahuri; MKV, Parbhani;  
 NAU, Navsari; OUA, Bhubaneswar;  
 SKUAST, Jammu; SKRAU, Bikaner;

### Award

KAU, Thrissur,  
 SVVU, Tirupati  
 TNAU, Coimbatore  
 Award to Prof. (Dr.) M.P. Yadav

## ADVISORY BOARD

Dr Tej Partap  
**President**  
 Dr N.N. Singh  
**Vice-President**  
 Prof. C.S. Chakrabarti  
**Secretary-Treasurer**  
 Dr Vijay B. Mehta  
**Member**  
 Dr R.C. Maheshwari  
**Member**  
 Dr D.P. Ray  
**Member**

## EDITORIAL BOARD

Dr R. P. Singh  
**Secretary-General, IAUA**  
 Dr Kirti Singh  
**Ex-Chairman, ASRB**  
 Prof (Dr) M.P.Yadav  
**Ex-VC, SPVUAT, Meerut**  
 Dr K. Vijayaragvan  
**Jt Dir. (Extn), IARI**  
 Mr R. S. Gupta  
**Ex-Editor (English), ICAR**

## Spot News

### IAUA initiates international collaboration- new chapter

The IAUA signed a MoU with College of Agriculture and Natural Resources of National Chung Hsing University, Taichung, Taiwan on 16 March 2011.

Dr R.P. Singh, Secretary-General, IAUA, during his visit to National Chung Hsing University, Taichung, signed a MoU for international collaboration on behalf of the IAUA on 16 March 2011 with College of Agriculture and Natural Resources of National Chung Hsing University, Taiwan. Prof. (Dr) Jenn-Wen Huang, Dean, College of Agriculture and Natural Resources, signed on behalf NCHU. Along with the witnesses Prof (Dr) Jei-Fu-Shaw, President, NCHU; Mr Ramu Abbagani, Deputy Director-General, India-Taipei Association; and Ms Huei-Wen Hsu, Special Officer, Bureau of International Cultural and Educational Relations, Ministry of Education, Taiwan. The programme was funded by NCHU.

The clause 2.4 indicates: As IAUA being apex body of agricultural universities in India, it will facilitate/ act as platform to develop joint partnerships between appropriate agricultural universities in India with CANR/NCHU, Taiwan.

The main programmes for collaboration at NCHU have already been circulated to all VCs of Aus.

Dr R.P.Singh had intensive discussions on higher education with the authorities at CANR/ NCHU for collaboration, namely, President, Dean and Dr Israel Bai-Jen Jiang, Academic Secretary, NCHU, Taichung; and with Shri Pradeep Kumar Rawat and Mr Ramu Abbagani, Director General and Deputy Director-General, respectively of India-Taipei Association at Taipei.

### Visit of Taiwan delegation to IAUA and IARI

A high-level delegation from Ministry of Education, Taiwan visited the IAUA on 30 April 2011. There were 23 delegates including 3 from Taiwan Embassy in India viz. Dr Ching-Ji Wu, Minister of Education; Dr Wen-Tong Lin, Director General, Bureau of International Cultural and Educational Relations, R.O.C.; Dr Huei-Wen Hsu, Senior Commissioner, Bureau of International Cultural and Educational Relations; Dr Yang-Chih Wang, Senior Commissioner; Dr Jei-Fu Shaw, President, National Chung Hsing University; Dr Lih-Juann Chen, President, National Tsing Hua University; Dr Wen-Shu Hwang, President, National Dong Hua University; Dr Shi-Shuenn Chen, President, National Taiwan University of Science and Technology; Dr Wann-Yih Wu, President, Chinese Culture University; Dr Pao-Long Chang, President, Feng Chia University; Dr Chi-Yeh Yung, President, National Kaohsiung University of Hospitality and Tourism; Dr Yuan-Kuang Guu, President, National Pingtung University of Science and Technology; Dr Ru-Jen Lin, Vice President, Lunghwa University of Science and Technology; Dr Chen-Chun Jiang, Vice President, Yuan Ze University; Dr Neng-Shu Yang, Vice President, National Yunlin University of Science and Technology; Dr Huey-Hen Su, Vice President, National Cheng Kung University; Dr Li-An Kuo, Vice President, National Changhua University of Education; Dr Mei-Chun Yin, Vice President, National University of Tainan; Dr Yung-Der Juang, Dean of Academic Affairs, National University of Tainan; Dr Arthur Chiou, Dean of International Affairs, National Yang-Ming University; Dr Tien Sze Fang, Assistant Director, Science and Technology; Mr. James Chang, Director, Cultural; Ms. Christina Joseph, Assistant, Cultural.

Dr R.P.Singh, Secretary General, was advised by DARE and DG, ICAR's to co-ordinate the visit to IAUA and IARI through the DARE, Ministry of Agriculture, Government of India.

Dr Tej Partap, President IAUA and Dr R.P. Singh, discussed various issues relating to collaboration between the agricultural universities with Dr Ching Ji Wu, Minister of Education, Taiwan and other high officials.



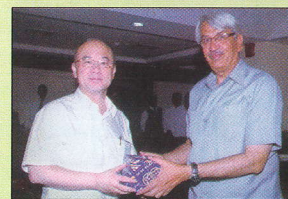
IAUA signing MOU with CANR NCHU, Taiwan



Dr Israel Bai-Jen Jiang, initiated and organized the collaboration



Taiwanese Delegation visit to IAUA





### **Dr Tej Partap, VC, SKUAST, Srinagar**

Dr Tej Partap took over as VC, SKUAST, Srinagar on 26 July 2010, after completing his second term as VC at DSKKV, Palampur (18 April 2001 to 30 June 2004 and 5 July 2007 to 4 July 2010). Earlier he was Head, Mountain Farming Systems Programme, International Centre for Integrated Mountain Development, Nepal. He formulated and managed several international projects and fund-raising activities for sustainable agricultural research, education and extension system for hilly areas, having small farms.

In recognition of his contributions to agriculture in Tibet, Tibet Academy of Agriculture and Animal Sciences, China designated him as Honorary Professional, in 1995 and Mountain Agriculture at Institute of Geographical Sciences and Natural Resources, China, made him Honorary Professor (Mountain Agriculture). Dr Partap is presently Asia-Pacific representative in Mountain Forum Board of Directors for promoting inter-regional co-operation among mountain regions of the world. Dr Tej Partap published more than 50 research papers, written or edited 15 books and monographs and produced 5 video-films on mountain agriculture.



**Dr Tej Partap**

### **Prof A.K. Gahlot VC, RAJUVAS, Bikaner**



**Prof. A.K. Gahlot**

Prof. A.K. Gahlot born on 9 March 1953, took over as VC, Rajasthan University of Veterinary and Animal Sciences, Bikaner on 18 May, 2010. Earlier he worked here in College of Veterinary and Agricultural Science, Bikaner from March 1996 to March 2010. Chairman, Faculty of Veterinary and Animal Science and Dean, Director Students' Welfare and Founder Chairman, University Sports Board as well as Prof. and Head, Department of Veterinary Clinical Medicine, Ethics and Jurisprudence. Born on 9 March 1953, and he did his B.V.Sc. and A.H. (Gold Medalist) in 1977 and M.V.Sc. in (Veterinary Medicine with first position) in 1980 from University of Udaipur, Udaipur (Rajasthan); Ph.D. (Veterinary Medicine with first position) in 1992 from CSHAU Hisar. He received many awards and gold medals. He published or presented more than 170 articles in national and international journals or seminars.

### **Dr A.K. Dahama, VC, SKRAU, Bikaner**

Dr A.K. Dahama joined as VC, Swami Keshwanand Rajasthan Agricultural University, Bikaner on 24 March, 2011. Born on 20 July, 1952, he obtained his M.Sc. and Ph.D. degrees in Agronomy from IARI, New Delhi. During his distinguished career at SKRAU, Bikaner, he held various important positions including Professor and University Head, Department of Agronomy; Associate Director of Research (NARP); Associate Director of Research (Adm.); Dean, College of Agriculture.; Director, Planning and Monitoring; and Director, Institute of Agri-Business Management. He also served at JNKVV, Jabalpur (M.P.) and SKUAST, Srinagar (J&K). He also worked with Hindustan Lever Ltd. (presently Hindustan Unilever Ltd.)

Dr Dahama guided 3 Ph.D., 3 M.Sc. and 103 MBA students, and published more than 120 research papers, popular articles, manuals, bulletins, books etc. He was the Vice-President Indian Society of Agronomy, and was made Fellow, ISA in 2006 for his contributions in the field of Agronomy. As Member of Organizing Committee, Dr Dahama was instrumental in organizing IVth Agricultural Science Congress at Jaipur in 1999.

As Director, CII TDB TNeT Centre, Dr Dahama established IABM and made significant contributions in strengthening institute-industry interface, which helped in projecting the IABM as a leading B-School offering Agri-Business Management Programme. He was also associated with NUFFIC, Netherlands and Bogor Agricultural University, Indonesia, for developing academic programmes related to Agri-Business Management.

### **Dr Arvindbhai M. Shekh, VC, AAU, Anand, Gujarat**

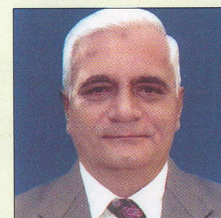
Dr Arvindbhai M. Shekh joined as VC, Anand Agricultural University, Anand on 15 April, 2011. Born on 01 May, 1949 at Vaso village of Nadiad district, he did

B.Sc.(Agric.) from Sardar Patel University, V.V. Nagar (1970); M.Sc. (Agric.) and Ph.D. degrees from the erstwhile Gujarat Agricultural University, Sardar Krushinagar during 1977 and 1985, respectively. He started his career as Demonstrator at the then Institute of Agriculture, Anand (1970-1974) and Lecturer, B.A. College of Agriculture, at erstwhile Gujarat Agricultural University, Anand 1974 onwards, and held positions like Assistant Professor, Associate Professor, Prof and Head, Department of Agricultural Meteorology, and Principal and Dean, B.A.CA, Anand Agricultural University, Anand from 1 Jan, 2004, onwards.

He is member of many Scientific/Government/Board Committees viz., Expert Committee for Development of Agro meteorology in the country appointed by DST, Govt. of India, New Delhi, Member, Scientific Committee of ICAR for Agronomy and Agro forestry. He worked as Expert Member of ISRO, SAC, Ahmadabad, Member, Weather Watch Group of Gujarat Government, etc.

He guided 10 Ph.D. and 3 M.Sc. (Agric.) students. Dr Shekh has published, 200 Research Papers, written 17 Book Chapters and 21 Reports.

He is recipient of Merit award from Central Board of Irrigation and Power for Best Paper in International Conference on Water and Energy, in 2001. He received Best Paper award from Indian Society of Microbiology and Pathology, in 2000 and elected as President, Association of Agro meteorologist and Founder of Association of Agro meteorologists.



**Dr A.M. Shekh**

### **Dr T.A. More VC, MPKV, Rahuri**

Dr Tukaram Annara More joined as new VC of Mahatma Phule Krishi Vidyapeeth, Rahuri on 31 December 2010. Earlier he was Director, Indian Institute of Vegetable Research, Varanasi. He served as Director, Central Institute for Arid Horticulture, Bikaner since 20 November 2006; Project Co-ordinator, AICRP on Arid Zone Fruits, Bikaner; and Director, DBSKKV, Dapoli and MPKV, Rahuri. He served in the ICAR in various capacities. Dr More did Post-Doctorate from Cornell University, Ithaca, New York, the USA. He is an horticultural scientist of international repute, who contributed to the development of 37 varieties or F1 hybrids in 19 horticultural crops, of which 17 are recognized at national level. Dr More has published 151 research papers, 23 books and 84 book chapters and presented 233 papers at various conferences, seminars and symposia. He has teaching experience of 25 years and he guided 32 Ph. D. and M.Sc. students. In 2003 Dr More was elected as the Fellow of the National Academy of Agricultural Sciences, New Delhi. Dr More is recipient of 26 awards including Dr Harbhajan Singh Award- Gold Medal (1991) of Indian Society of Vegetable Science and Dr Kirti Singh Gold Medal (2007) of Horticulture Society of India.



**Dr T.A. More**

### **Dr K.P. Gore, VC, MAU, Parbhani**

Dr Krishan Punjajirao Gore, born on 08 November 1948 at Aundha Nagnath village of Hingoli district in Maharashtra joined as new VC, MAU, Parbhani on 25 January 2011. He did B.Sc. (Agric.) and B.Tech. (Agric.Engg) from DPDKV, Akola and M.Tech. (Agric.Engg.) and Ph.D. from I.I.T., Kharagpur. Dr Gore has 36 years of experience in teaching, research, extension, management and administration. He has guided 32 B.Tech. (Agril.Engg.) and 3 M.Tech. (Agril.Engg.) students, published 189 research papers and authored 6 text books. Dr Gore developed many watersheds to benefit the farmers of Marathwada region, viz. Umari (dist. Nanded), Wagarwadi (dist. Hingoli) and Tondapur (dist. Hingoli) and implemented soil-and-water conservation activity under the NAIP project in Bastar region of Chhattisgarh. He received several academic awards and honours such as Vasant Rao Naik Gold Medal, Krishi Ratna Award, ISAE Commendation Medal, Radhakishan Shanti Malhotra Award, Shankar Memorial Award, Pride of Nation Award and Vasant Rao Naik (Krishi Sahitya Award). He travelled to the UK, Sweden, the USA, the Netherlands, Ireland, Germany and China to participate in seminars, workshops, conferences, etc.



**Dr K.P. Gore**



**Dr A.K. Dahama**



# Focus on Universities : Achievements and Events

## UNIVERSITIES

### Dr BALASAHEB SAWANT KONKAN KRISHI VIDYAPEETH, DAPOLI

#### Success in AGRIUINFEST, 2010-11

The Vidyapeeth, students at Dapoli secured notable success in the cultural youth festival "Agriuinfest" of all India inter-agricultural universities, held at Gujarat Agricultural University, Anand in January 2011. Shri Prabhutendulkar and Shri Tushar Bagawe ranked first at national level in solo-singing and on-the-spot painting events respectively, whereas the team Shri Sagar Gawand, Miss Rachana Mhatre, Shri Suyog Deshmukh, Shri Bhushan Narkar, Shri Bhushan Thakare ranked second in skit and Shri Nandan Khanvilkar in poster painting. Miss Lalita Kocharekar secured third rank in the collage competition. The vidyapeeth also received general championship in fine art events.



AGRIUINFEST 2010-11

#### Success in national-level sports

The students showed outstanding performance in inter-agricultural university sports held at Thrissur(Kerala) during 16-20 February 2011. Its Kho-kho and kabaddi teams received gold medal at national level, whereas, Shri P. R. Sawant and Miss M. D. Gaikwad received gold and silver medals respectively in javelin throw and high jump.



Kabaddi team receiving gold medal

### Dr PANJABRAO DESHMUKH KRISHI VIDHYAPEETH, AKOLA

#### Agro tourism Centre and Aquaculture unit

Shri Shradchandraji Pawar, Hon'ble Union Minister of Agriculture, Government of India, inaugurated Agro tourism Centre at Central Research Station of the vidyalaya at Akola. It was developed to conserve the natural resources and to harvest and recycle the rainwater.

The centre has facility of collection of all the field crops, water conservation and recycling structures, recreation and medicinal and fruit plant park. Shri Pawar appreciated the efforts of Dr P.G. Ingole, Director CRS and his team members in developing this agro -tourism centre, based on low-cost resources.



Inauguration of Agro Tourism Centre



He said that the aquaculture unit, developed as a supplementary enterprise, would help the Vidhartha farmers through sustainable agriculture.

#### Inter-university sport meet

The 14th Inter-University sports competition (Ashwamedh) was organized at the central campus Akola, during 27 November to 1 December 2010. Total of 19 traditional and agricultural universities in Maharashtra participated in it, attended by students, 500 coaches and other government officials. Shri J.P.

Dange, Chief Secretary of the Maharashtra inaugurated it. Dr Harvir Singh Nehwal, (Miss Saina Nehwal's father) was the chief guest. Shri Vijayraoji Kolte, Chairman, MCAER; Dr K.B.Patil, VC, North Maharashtra University, Jalgaon; and Dr V.M.Mayande, VC, DPDKV, Akola graced the occasion. The sport meet included all the major athletics events. Pune University, won first position, followed by Kolhapur University.



### Dr Y.S. PARMAR UNIVERSITY OF HORTICULTURE AND FORESTRY, NAUNI

#### North Zone Regional Agriculture Fair - 2011

The university organized the North Zone Regional Agriculture Fair - 2011, sponsored by the Ministry of Agriculture, Government of India, at National Institute of Technology, Hamirpur (H.P.) during 23-26 February, 2011. Its main theme was Rural development and women empowerment through scientific farming. Shri I.D. Dhiman, Hon'ble Minister of Education, Government of H. P. inaugurated the Fair and addressed the participants, Prof. Prem Kumar Dhumal, Chief Minister, Himachal Pradesh, visited the Fair and addressed the gathering on 24 February 2011. About 17,000 farmers, farm women and officers from Himachal Pradesh, Jammu and Kashmir, Uttar Pradesh, Uttarakhand, Punjab, Haryana and Chandigarh participated in it. Ten outstanding farmers and farm women of different states of the region were awarded "Krishak Prema Sarot Puraskar".



### GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY, LUDHIANA

#### FAO Sponsored Training course for Nepalese Technicians

The Departments of Veterinary Microbiology and Department of Pathology, College of Veterinary Science, jointly organized a 2 week training course in Microbiological and pathological laboratory techniques for Nepalese technicians from 13 to 27 August 2010. It was sponsored by Food and Agricultural Organization of the United Nations. Dr Hari Mohan Saxena, Professor-cum-Head, Department of Veterinary Microbiology, was the Course In-charge and Co-ordinator for training in Microbiology; and Dr Naresh K. Sood, Professor-cum-Head, Department of Veterinary Pathology, was the Co-ordinator for the training in Pathology. Dr P. D. Juyal, Registrar, inaugurated the training course, Dr S. N. S. Randhawa, Dean, Post-graduate Studies was the Chief Guest at the valedictory function.

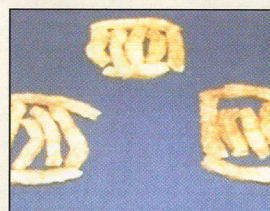


Participants and faculty members at training course

#### Chicken snack sticks

Chicken snack sticks, which appear like the Kurkure available in the market, were developed by department. They contained 4.2% oatmeal, 8.4% ragi flour alone or in combination to enrich their health component. These contained: protein 29.99 to 32.02%, fat 4.80 to 5.13%, ash 5.75 to 7.11%, crude fibre 0.05 to 1.60%, carbohydrate 47.07 to 50.38% and moisture 9.08 to 9.90 % These are shelf-stable snack meat foods which can be kept at room temperature without refrigeration

The product is nutritionally superior to other cereal based snack foods, and can be commercially exploited by the entrepreneur. Its cost comes to the ragi flour and oatmeal CSS Rs. 265.778/kg, compared with the control CSS Rs. 258.29/kg.



Chicken snack sticks

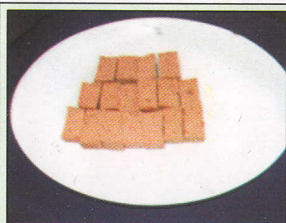
#### Chicken meat patties formulated with linseed and canola seed flour or oil

Low-fat chicken meat patties enriched with omega -3 fatty acid, nutritionally advantageous, were developed using linseed flour 4% and canola flour 2% as well as their oils (3% and under 4% respectively). These can be safely stored in aerobic packaging under refrigerated condition for 25 days without any appreciable deterioration in the physico-chemical, microbiological and sensory qualities.



Chicken meat patties





Chicken nuggets

## Chicken nuggets prepared with carrot and sweet potato

Chicken nuggets with or without carrot and sweet potato were developed, showing improved functionality, nutritive value and acceptability compared with the control chicken nuggets. These can meet the demand for the present-day consumer needs. Crude fiber and  $\beta$  carotene contents were significantly higher in these samples. The optimum amount of carrot and sweet potato at 10% was found optimum. The sweet potato-formulated samples had significantly higher ash content. These products can be kept safely up to 20 days in refrigerated storage.

## Economics of milk production

Punjab Dairy Development Board has sanctioned a project entitled "Economics of milk production and its regular monitoring in Punjab" to the Department of Dairy Economics, College of Dairy Science and Technology, Ludhiana for working out the economics of milk production. The procurement price of milk in the state was earlier determined arbitrarily without considering realistic estimates of the cost of milk production. The study started in October, 2009 in the Central zone of Punjab (Ludhiana and Sangrur districts) and involved 24 villages and 167 dairy farmers, across herd sizes varying from 1, 2-5, 6-15 and 16 and above milch animals. This study is undertaken for the first time. The overall average daily milk yield of the in-milk buffalo and cow was found to be 9.0 and 11.0 liters respectively. The overall cost of buffalo and cow milk production was Rs 21.5 and Rs 16.3 per litre respectively. The study revealed that buffalo and cow farmers were earning a profit of Rs 13.1 and Rs 6.2 per day per animal respectively.



5th Convocation

## INDIRA GANDHI KRISHI VISHWA VIDYALAYA, RAIPUR

### 5th Convocation

The 5th Convocation of Indira Gandhi Krishi Vishwavidyalaya, Raipur was held on 20 January 2011, Dr S. Ayyappan, Secretary DARE and DG, ICAR in his convocation address, highlighted the importance of Indian agriculture in the present scenario at the national and global levels. For keeping the momentum and to meet the future challenges, he emphasized the importance of seed replacement through the chain of breeder-seed availability- conversion of breeder seed into foundation and certified seed, and effective outlets from where the farmers can easily get the seed at affordable cost. He further emphasized the importance of 'A' schools Agriculture education and research in the present context of globalization and climatic changes



H.E. Shri Shekhar Dutt, The Governor of Chhattisgarh, Dr. Raman Singh, Chief Minister, Shri Chandrashekar Sahu, Agriculture Minister, Prof. M.P. Pandey, Vice Chancellor, IGKV, Raipur, Dr. G.S. Khush on dias.

Prof. M.P. Pandey, VC, IGKV, Raipur, laid emphasis on the success of National Agricultural Innovation Project, which helped develop large-scale models for improving the livelihood of tribal farmers in Bastar. He mentioned that the university has released 52 varieties of different crops, of which 13 are released during 2010. These include four varieties of rice, three of pulses, one of toria, one each of cashew, litchi and coconut, and two of vegetables. On this occasion, Shri Shekhar Dutt, Chancellor and the Governor of Chhattisgarh State, Dr Raman Singh, Chief Minister, Shri Chandrashekar Sahu, Minister for Agriculture, Shri Joy Oommen, Chief Secretary; Shri S.D. Mishra, APC and Principal Secretary, Chhattisgarh, Government were also present

Dr G.S. Khush, Adjunct Professor, University of California, Davis, the USA; and Dr Mangala Rai, former Secretary DARE and DG, ICAR (in absentia), were conferred the degrees of Doctor of Science (*Honoris causa*).

## Release of new rice varieties

Two new rice varieties were released on this occasion for the eastern states. The major features are given below

### Durgeshwari (r 1243-1224-578-1, let 19795):

Maturity 130-135 days; long slender grain; resistance to leaf blast, moderately resistant or tolerant to sheath blight, bacterial blight, sheath rot, gall-midge and rice



DURGESHWARI  
(R 1243-1224-578-1, IET 19795)



INDIRA RAJESHWARI  
(R 1124-258-3-86-1, IET 19569)

It possesses long bold grain, good head rice recovery (50-55%), and intermediate amylose content (24.56%). It cooks better as its gel consistency is medium (44 mm) and has intermediate alkali-spreading value (4.50). It is suitable for poha industry. Average yield is 52-57 q/ha.

## KERALA AGRICULTURAL UNIVERSITY, THRISSUR

### Information service launched on mobile



Dr P.V. Balachandran

The university has launched the innovative system through which the farmers can gather information on the availability of seeds, seedlings and other KAU products, besides on training programmes, new technologies, pest control methods, as well as contact numbers of scientists for guidance through mobile sms.

Dr P.V. Balachandran, Director of Extension states that to avail this Mobile Technology Information Service, the farmers have to register their names with Agricultural Technology Information Centre, Mannuthy. This can be done by providing the required information (name, address and mobile number of the information seeker), by post, over phone or by sms.

### New coconut-climbing device

The Agricultural Research Station, Mannuthy developed a lighter and easier-to-operate coconut-climbing machine. Shri Rajaji Mathew Thomas MLA inaugurated its demonstration programme. The device, made of stainless steel, consists of two parts; a seat unit and a pedal unit. By working the pedal unit in a seating position the climber can slide up or down. A trained person will be able to climb a coconut tree of average height in 90 seconds. Apart from coconut harvesting, the device is useful for cleaning crowns and crosspollination activities also. Dr T.R. Gopalakrishnan, Director of research, informed that its commercial production will commence after evaluating the feedback from the training and testing sessions. Dr U. Jaikumaran, Professor and Head, informed that ARS, Mannuthy will provide one-week training to the desirous youths in the operation of the machine as well as its maintenance.

### Best KVK award to Kannur

The Krishi Vigyan Kendra, Kannur of the university won the Best KVK national award for 2009 among the 589 KVKs in India. The award was presented during the National conference of KVKs at Maharana Pratap University of Agriculture, Udaipur, (Rajasthan) by Her Excellency Smt. Pratibha Patil, the President of India, at a function presided over by Shri. Sharad Pawar, Union Minister for Agriculture and attended by the Governor and Honorable Chief Minister of Rajasthan. Dr K. Abdul Kareem, Professor and Programme Coordinator of KVK, Kannur and Dr P.V. Balachandran, Director of Extension, received the award from Smt Patil. The award consists of a memento, certificate and Rs 1 lac.



H.E. Smt. Pratibha Patil  
Presenting award



## MAHATMA PHULE KRISHI VIDYAPEETH, RAHURI

### National seed congress

The 3rd National Seed Congress was organized during 29-31, January 2011 at College of Agriculture, Pune. In the inaugural address, Shri Vijayrao Kolte, Vice Chairman, Maharashtra Council of Agricultural Education and Research, Pune expressed the importance of seed as a major input for agricultural production. He said that the domestic hybrid seed market is growing annually at the rate of 10 per cent a year compared with the global average of 5 per cent.

Dr Tukaram A. More, VC, in his welcome address urged the scientists to make serious efforts in raising the seed-replacement rate for improving crop production and productivity. The other dignitaries present were: Shri Ashish Bahuguna, Additional Secretary, DAC, Government of India, New Delhi; Shri Anindo Majumdar, Joint Secretary (Seeds), DAC; Dr M. Bhaskaran, Director, National Seed Research and Training Centre, Varanasi; Dr. Adsul, Director Quality Control, Dept. of Agriculture, Government of Maharashtra graced the occasion along with other dignitaries. Dr B.R.Ulmek, Associate Dean of the College proposed vote of thanks.

### QRT interaction meet of KVKs



Dr Suresh Kumar, addressing the delegates



Dr V.V. Sadamate, interacting with delegates

Group of Agricultural Extension, Planning Commission, New Delhi, highlighted the role of KVKs for achieving food security, and the need of community mobilization to achieve the desired results. Dr V.V. Sadamate, Advisor (Agriculture), Planning Commission, New Delhi and Chairman, QRT for KVKs of Zone-V, in his inaugural address expressed the need for strong linkage between KVKs and ATMA.

### 18th Group meeting of AICRP on MAPB



Dr Vijay Mehta, VC, releasing Vallabh Medha

improvement, crop production and plant protection at all the AICRP centres.

### Technology for recommendation

Isabgol: In isabgol three mutant lines, viz. DPO-1, DPO-4 (both developed at DMAPR, Anand) and Sel-10 (developed at AAU, Anand) were recommended for multi-location testing along with the control. Integrated management of leaf blight and downy mildew was achieved on seed treatment with Trichoderma @ 10g/kg + Thiram (0.2%), followed by spray of Ridomil MZ 72WP (0.2%) at 45 and 60 DAS. Foliar application of Trifloxystrobin 50 WF+ G (0.1%) and Karathane (0.1%) at 70, 85 and 105 DAS was found effective against powdery mildew.

**Variety released: Vallabh Medha**, a new high-yielding variety of Centella asiatica, from Directorate of Medicinal, Aromatic Plants and Betelvine, Boriavi, Anand (Gujarat), was released by Dr Vijay Mehta, VC. Its mean fresh-herbage yield is 123.31 q/ha and dry-herbage yield 21.13 q/ha.

## MARATHWADA KRISHI VIDYAPEETH, PARBHANI

### ICAR's Experiential learning project

The Vidyapeeth at Parbhani launched ELP with financial support of Rs 50.20 lakhs from the ICAR for hands-on training to undergraduate, professional elective students and for child development. The LPP School and Child Guidance and Parent Counseling Clinic were upgraded for early child care and education, developmental assessment of children and parent counseling. Total Rs 6.58 lakh were received from LPP school (Rs 6.15 lakh) and guidance clinics (Rs 0.43 lakh). The LPP school provided employment to 7 teachers and 5 helpers; imparted pre-primary education to 180 children and need-based parenting knowledge and skills to their parents; provided guidance to 1,429 beneficiaries and offered platform to staff and PG students for applied and basic research, which strengthened the crucial triangle of Education-Research-Extension. These two laboratories were identified to impart training to the UAS, Dharwad, HD and FS students in January 2011.

The second convocation of LPP School, Bridge Section students was held on 30 March 2011. Dr K. P. Gore, VC, was the chief guest, and Dr V.S. Shinde, Director of Instruction, in his capacity as president of the function presented certificates to the successful students.

### Karwadi-Nandapur watershed

The NAIP sub-project entitled "Sustainable rural livelihood security through integrated approach in Hingoli and Nanded districts of Maharashtra" was in operation in twelve villages of Hingoli and three villages of Nanded district. Dr A.S.Kadale, Head, Department of SWCE and CCPI of the project was its incharge. Under this project, major soil-and water-conservation activities like continuous contour trenching, construction of loose boulder structures and vanrai bandharas were undertaken during 2010-11. The implementation of soil-and water-conservation works changed the availability of ground water upto 2 m depth in open wells and 7 m depth in bore wells. The fodder availability also increased. The area under rabi (winter crops) increased from 30 ha to 350 ha. The interventions of NAIP encouraged the farmers to adopt dairy, poultry and emu farming. The farmers of Karwadi-Nandapur watershed harvested greater agricultural production at the close of March 2011.



Impact of continuous contour trenching work on ground water-table in Karwadi-Nandapur watershed

### Women's rally

A farm women's rally was organized jointly by College of Home Science and Directorate of Extension Education, on 3 January 2011 to mark the birth anniversary of Smt. Savitribai Phule. Shri Ganesh Thakur, VC, MKV, Parbhani presided and Smt Fauzia Khan, Educational Minister, was the chief guest at the inaugural programme. The rally focused on empowerment of women through self-help groups. About 200 women participated and took benefit of agricultural exhibition, lectures, role play demonstrations and songs relevant to the theme.

### ISAE, Honour to Dr U.M. Khodke

The 45th annual convention of Indian Society of Agricultural Engineers, New Delhi, was held at GBPUAT, Pantnagar on 17 January 2011. On this occasion, Dr V.M. Khondke, Chief Scientist, AICRP (water management), bagged Commendation Medal 2008-09 of the ISAE. Dr B.S. Bisht, VC, GBPUAT, Pantnagar, presented him the award. Besides, it was also announced that the ISAE would honour him also as Fellow of ISAE, New Delhi, at its 46th annual convention to be held at Pantnagar.

### Boghani on international study tour

Boghani Md Azim Hanif, second year student of College of Food Technology, Parbhani, elected as delegate speaker, gave a vibrant speech on emerging threats to environment while addressing the student community at first Indian Parliament Student Council held during 12-14 January 2011 at MIT, Pune. The programme was sponsored by MAEER's MIT group in association with the Ministry of Higher and Technical Education, Government of Maharashtra, to sensitize and galvanize the youth towards nation building. Smt. Vandna Shiva, ecologist and activist facilitated him in the presence of Shri Rajesh Tope, Minister of Higher and Technical Education; Smt. Kamal Singh, VC, Sant Gadge Baba University, Amravti; Dr Vishwanth Karad, Director and Dean, MAEER MIT Group, Pune; and others.



## Dr Zanwar at global entomological conference, Thailand

Dr P.R.Zanwar, Assistant Entomologist, Cotton Research Station, Nanded participated in Global Conference on Entomology held at Chiang Mai, Thailand during 5-9 March 2011 and presented research papers on mealy bug, an emerging pest of Bt cotton and Weather based forewarning model for thrips in transgenic cotton.

### SMS service for farmers



Inauguration of SMS service to farmers by Smt. Fauzia Khan

and help solve the problems faced by the farmers directly.

## NAVSARI AGRICULTURAL UNIVERSITY, NAVSARI

### Technology extended to farmers



Banana shrimp



Banana shrimp harvest at Danti Farm



Dr A. R. Pathak inaugurating national conference

- There is need for more focused attention to genetic improvement, particularly for abiotic stress.
- Research is needed on cotton-based technical textiles like non-woven fabrics and agro-textiles for the building industry, medical and defense.
- Indigenous cottons like *Gossypium arboreum* and *G. herbaceum* need research to improve their resilience and response to low input.
- The emerging pests, like mealy bug, mired-bug etc, have to be carefully monitored and their management strategies should be worked out.
- The faster-than-expected climatic changes need to be studied, and we should be prepared to counter their effect on crop production.
- Strategies are needed to narrow the gap between the potential yield and realized yield.
- There is need to generate multiplicity of Bt cotton varieties.
- The country is exporting 5.0 to 8.0 million bales of new cotton. The textile policy should therefore be revised to promote export of fabric and garments rather than of raw cotton.

## Conference on Agricultural Marketing

The 24th National Conference on Agricultural Marketing was organized by Institute of Agribusiness Management at Navsari from 23 to 25 November 2010 in

collaboration with Indian Society of Agricultural Marketing, Nagpur. Around 200 delegates from all over the country participated in it.

The conference was inaugurated by Shri Kanubhai Bhalala, Hon'ble Minister of State, Agriculture and Water Resources. Dr V. P. S. Arora, VC, delivered the keynote address. Shri Y. K. Alagh, Chancellor, Nagaland University and former Minister of Power, Planning, Science and Technology, Government of India, delivered Parthsrathy memorial lecture on Agriculture in rural-urban continuum.

## ORISSA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, BHUBANESWAR

### National Symposium on Tribal area development

The Annual Vice-Chancellors' Convention and National Symposium on "Tribal area development" of Indian Agricultural Universities Association was organized and hosted by OUAT at Bhubaneshwar during 7-8 December 2010. H.E. Shri Murlidhar Chandrakant Bhandare, Governor of Orissa and Chancellor of OUAT, inaugurated the meeting as the chief guest. The programme was attended by Prof. (Dr) Rajendra B. Lal, President, IAUA and VC, SHIATS,

Allahabad; Dr Kirti Singh, Chairman, World Noni Research Foundation and ex-Chairman, ASRB, and Dr Arvind Kumar, DDG (Edn), ICAR. The other guests were: Dr R. P. Singh, Secretary-General, IAUA; Prof. D. P. Ray, VC, OUAT; Dr M. M. Panda, Dean of Research and Organizing Secretary; member VCs and their representatives, besides secretaries to Government of Orissa, directors and other state government officers and the officers of the ICAR institutes located in Orissa. There were five technical sessions, besides the inaugural, business and valedictory sessions. Thirty-two participants attended the programme.

### General recommendations

- The tenure of VCs of SAUs should be minimum 5 years and the age of their superannuation should be 70 years. Similarly, the age of superannuation of faculty members should be 65 years as per the UGC norms
- The state government should take primary responsibility of agricultural education.
- There should be a separate line of funding in the state budget for the SAUs, with revision at least at every 2 years.
- The SAUs should not be bifurcated or fragmented in its two or more universities. New SAUs with necessary funding, infrastructure and manpower should be established, if essential.
- The private agricultural colleges existing in general universities should be brought under the SAUs with National Agricultural Research System.
- Zonal Research Stations should be strengthened to generate location-specific technology.

### Specific recommendations

- Intensive literacy drive should be undertaken in the tribal areas to remove superstitious beliefs, liquor addiction and poverty of tribals; and school drop outs should be checked.



Dignitaries at conference



H.E. Shri M. C. Bhandare addressing the delegates



Dignitaries at inaugural session



Prof. D.P. Ray welcoming the delegates



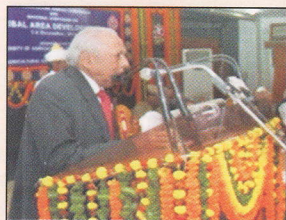
Prof. R.B. Lal addressing delegates



Dr Arvind Kumar addressing guests



- Provision should be made regarding proper market, with market-support policy and access to information and communication technology for tribals, to make agricultural products remunerative.
- All the existing welfare schemes on tribal people should be evaluated, and the reasons for failure or non-adoption of technology for refinement and formulation of new schemes or programmes in an integrated manner should be identified.
- A central agricultural university or specialized national institutes should be established in the intensive tribal populated zone of the country to address the tribal needs. Network projects or AICRP on Tribal Area Research in tribal populated states should be initiated for solving the state-specific tribal problems.
- Attention is required to amend the Forest Conservation (Amendment) Act of 1988, distribution of degraded land amongst tribals and comprehensive acceptable package for displaced persons before undertaking any essential development project in the tribal areas.
- Livestock sector should be improved through establishment of viable co operative societies. Focus is needed on fodder cultivation, periodic training on livestock management, and provision of soft loans for Animal Sector including backyard poultry, piggery, goatery and fishery.
- Timely supply of quality planting materials of horticultural crops and seeds of other crops, viz. cereals, minor millets, pulses etc., should be ensured as per the need of the tribal area.
- There should be proper co-ordination among the primary, secondary and tertiary agricultural activities like kendu-based, sericulture-based or bamboo based products, food processing, bee-keeping and mushroom culture along with crop and animal husbandry through integrated farming system and cropping system models, for holistic economic growth of tribal people while conserving the soil, water and the rich bio-diversity of the region.
- Agricultural processing facility should be encouraged in tribal areas in Public Private Partnership mode for value addition and higher return for agricultural produce.
- Need-based and problem-oriented training should be imparted through KVKs. Training should be given on women empowerment, and exposure visit of tribal people of less-developed area should be undertaken to the developed tribal areas for interaction with successful tribals.
- Self-Help Groups, Commodity Groups, Women SHGs etc. should be promoted to empower the tribals to sell their agricultural products in local environment, and to market it through co-operatives for better return through increased bargaining power.
- Soil-and water-conservation measures should be undertaken like rain-water harvesting, check-dams, conservation agriculture etc. to improve the cropping intensity and year-round employment generation.
- Small tools and implements should be developed for drudgery reduction, and appropriate technologies should be generated to increase the farm productivity in tribal areas for easy adoption.
- Scheduled tribe agricultural graduates should be engaged as ambassadors through KVKs to win the trust of the tribal people and motivate them for their holistic development.



Dr Kirti Singh addressing delegates



Dr R.P. Singh, addressing delegates

confirm BLB resistance genes using capillary electrophoresis, besides on gene cloning, gene sequencing, quantification and gene expression using real time PCR, southern blotting and bioinformatics software. He also presented a research paper at International conference on "Computational bioscience", International Association of Science and Technology for Development, Cambridge, USA during 1-3 November 2010.



Dr R. K. Salgotra

## SWAMI KESHWANAND RAJASTHAN AGRICULTURAL UNIVERSITY, BIKANER

### Annual zonal workshop

The Annual Zonal Workshop of Zone VI of the KVKs of the ICAR was hosted by Directorate of Extension Education at the KVK, Jhunjhunu during 22-24 September 2010. Prof. K.D. Kokate, DDG (Agric. Extension), ICAR, inaugurated it. Prof. S.P. Tiwari, VC, presided and Dr A.K. Mehta, ADG (Agric. Extension), ICAR, was the special guest. The workshop was organized under the stewardship of Prof. Hanuman Prasad, Director of Extension; and Dr Y.V. Singh, Zonal Project Director, Zone IV, ICAR, Jodhpur. Dr Kokate remarked that the agricultural scientists, the KVK personnel and extension functionaries should work in an integrated manner for the overall economic development of the farmers. He suggested that greater emphasis should be laid on increasing the input-use efficiency and diversification of the farming system. Prof. Tiwari remarked in his presidential address that the KVKs should lay stress on entrepreneurship development in close co-ordination with Rajasthan Mission on Skill and Livelihood.

Various technical sessions were held to review the activities of the KVKs during 2009-10 and also to finalize the action plan for 2010-11. The Directors of Extension Education from six agricultural universities of the zone also participated, besides 32 KVKs from Rajasthan and 25 KVKs from Gujarat. On this occasion DDG (Agric. Ext.) and VC also inaugurated the newly constructed Kisan Ghar building, polyhouse and shade net-house.

### Release of new varieties

The following varieties developed by the universities were also released.

**RHB154:** It is a high-yielding Bajra variety (average yield 25 q/ha), disease-resistant, especially suitable for arid and semi-arid regions of the country.

**RHB173:** This dual-purpose Bajra hybrid is well suited to rainfed and low-fertility conditions, and takes 78-80 days to mature. It has long ear (28-32 cm), more effective tillers (2.53), more grain weight per ear (35 g), plant height 190-200 cm, it is tolerant to lodging and responds to fertilizer application. The hybrid is resistant to downy mildew and other important diseases, is less susceptible to insect pests. Average grain yield under normal conditions is 30.7 q/ha and it gives higher fodder yield (77.7 q/ha).

**HNG 69:** This virginia bunch-type variety of groundnut was released for Rajasthan and Punjab states. It matures in 120-125 days. Kernels are of tan colour with two seeds per pod. The 100-kernel weight is 50 g and shelling is 68%. It gives 28-30 q/ha average pod yield.



Inauguration of Kisan ghar building



Inaugural function of workshop



## SHER-E-KASHMIR UNIVERSITY OF AGRICULTURAL SCIENCES AND TECHNOLOGY (J), JAMMU

### Paper by Dr. Salgotra

Dr R. K. Salgotra, Senior Scientist, Division of Plant Breeding and Genetics, attended DST-sponsored 6 months training at plant Molecular Biology Laboratory, Department of Plant Science, College of Agriculture, University of Tennessee, the USA. The topic was "Use of high throughput DNA sequencer for SSR assays in MAS to confirm BLB resistance Xa genes in early segregating population of rice (*Oryza sativa* L.) lines". He got experience on Marker-Assisted-Selection to



RF 205 (UF 205): This variety of Fennel was developed through recurrent selection based on individual plant progeny (half-sib) from F2 generation of the cross JF 25 x RF-125. It has erect and medium-tall plant, having bolder seed and more branches as well as umbels per plant. The mean volatile oil content is 2.48% and mean yield of volatile oil is 39.11 litres/ha. It has higher yield potential with an average yield of 1,599.7 kg/ha.

RCr 728: This variety of coriander was developed through recurrent selection based on individual plant progeny (half-sib) performance in UD-728, which was a local collection from Garoth, Mandon (M.P.). Its plant type is bushy and erect, having early high growth vigour, and more umbellets and seeds per umbel. It shows lesser incidence of wilt, stem gall and powdery mildew than other varieties. It has higher volatile oil (0.38%) with average oil yield (4.64 litres/ha). It has higher yield potential, with average yield of 1,369.50 kg/ha.

## UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT

### Varieties for release in 2010-11

The following varieties in different crops were approved for release by the university for the benefit of the farmers:

**Bhagya (KDM-01):** Drumstick (*Moringa oleifera*): It is fast-growing and dwarf and has self-pruning plant canopy measuring 2.5 x 2.0 m. It can give higher yield (17 of 20 t/acre, with lesser incidence of diseases and pests.

**Apoorva (CP 40)** capsicum (*Capsicum annum L.*): It is superior to the existing disease-and pest resistant varieties. It has better stability for growth and yield, and has better quality attributes like Vit-C content of fruit.

**Kalpatharu coconut** (*Cocos nucifera L.*): It gives better nut yield (90 nuts/palm; 15,750 nuts/ha), copra yield (2,779 kg/ha) and oil (67.2%) per nut. The oil contains 44.7 per cent lauric acid.

★ ★ ★

## Awards

## KERALA AGRICULTURAL UNIVERSITY, THRISSUR

### KAU wins ICAR performance Award again

The KAU has won the ICAR Performance Award again in 2010-11, the only State Agricultural University to get this recognition for four consecutive years (since 2007). It secured the first prize by winning 46 JRF.

Dr K.R. Viswambharan, VC, received the award from the Shri Sharad Pawar, Union Minister of Agriculture, at New Delhi on 23 February 2011.



Dr K.R. Viswambharan, VC, receiving the award from the Shri Sharad Pawarji,

## SRI VENKATESWARA VETERINARY UNIVERSITY, TIRUPATI

### Young scientist award to Dr Alpha Raj

Dr M. Alpha Raj, Assistant Professor, Department of Pharmacology and Toxicology, College of Veterinary Science, Tirupati received Young Scientist Award at the second International symposium on medicinal plants and herbal products organized at Tirupati jointly by A.P. Medicinal and Aromatic Plants Board, Hyderabad, Sri Venkateswara University; A.P. Council of Science and Technology, and Association of Pharmaceutical Teachers of India in December 2010. The Award was given for his significant contribution in the field of medicinal plants and herbal products for prevention of livestock disease and drug development. His research findings demonstrated the beneficial effects such as hepato-protective effect of plant extract from *Boerhaavia diffusa*, cardio-protective effect of *Tinospora cordifolia*, antioxidant effect of powders of *Spirulina*, anti-inflammatory effect of *Boswellia ovalifolia* and *Ocimum sanctum*, and phyto-estrogenic effects of *Trigonella foenum-graecum* and *Cicer arietinum*.



Dr M. Alpha Raj

## TAMIL NADU AGRICULTURAL UNIVERSITY, COIMBATORE

### TANSA awards

Dr B. Meena, Assistant Professor (Plant Pathology), Sugarcane Research Station, Sirugamani, received Tamil Nadu Scientist Award TANSA-2008 in Agricultural



Dr B. Meena receiving Award

Sciences, constituted by Tamil Nadu State Council for Science and Technology, Chennai, based on her research contribution in biological control of plant diseases.

Dr K.S. Subramanian, Professor and Head, Department of Nano Science and Technology, received Tamil Nadu Scientist Award in Agricultural Sciences, for his outstanding contribution in the development of ICT-enabled interactive visual diagnostic kit software for the identification of nutrient deficiencies in crops and mycorrhizal symbiosis-associated nutrient dynamics in rhizosphere. Minister for Higher Education presented the award on 24 August 2010 at Chennai.



Dr K.S. Subramanian receiving award. Minister for Higher Education presented the award on 24 August 2010 at Chennai.

## FAI golden jubilee Award-2010

The team of Dr P. Murugesu Boopathi, VC, and Dr R. Santhi and Dr R. Natesan, Professors of Soil Science and Agricultural Chemistry, received Fertilizer Association of India, New Delhi, Golden Jubilee Award for excellence in the field of Nutrient management of vegetable and fruit crops, Directorate of Natural Resource Management. The Award was given for the commendable research work done on nutrient management through soil-test-based integrated plant-nutrition system (mineral fertilizers, organic manures and bio-fertilisers) on inceptisols, ultisols and alfisols for vegetable crops, viz. onion, bhindi, cabbage, carrot, potato, tapioca and chilli. They developed packages of site-and situation-specific soil test-crop response-based integrated plant-nutrition system (STCR-IPNS) fertilizer recommendation for desired yield targets of vegetable crops.

Shri M.K. Alagiri, Union Minister for Chemicals and Fertilizers, Government of India, gave the award to Dr R. Santhi, on behalf of the team on 29 November 2010 at the inaugural function of the FAI Annual Seminar-2010 at New Delhi. The award carries a citation, gold medal and a cash prize of Rs 20,000.



FAI Golden Jubilee Award

## Honour to Dr P.M. Boopathi, VC

Lt General R.K. Karwal on approval of Government of India, Director-General of NCC, conferred the honorary rank of Colonel commandant to Dr P. Murugesu Boopathi, VC. The piping ceremony was conducted by Colonel S. Gopalan, Commander, NCC Group Headquarters, Coimbatore, and Lt. Col. D. Deenadayalan, Commanding Officer, 4 Tamil Nadu Battalion NCC, Coimbatore, on 16 December 2010 at Bharathiar University, Coimbatore.



Honour to Dr P. Murugesu Boopathi

★ ★ ★

## Life-time achievement Award to Prof. (Dr) M.P. Yadav

The Indian Society for Advancement of Canine Practice conferred Life-time Achievement Award to Prof. (Dr) M.P. Yadav for his distinguished contribution to Veterinary Science, especially to Canine Practice. H.E. Shri N.N. Vora, Governor of Jammu and Kashmir, presented him the award during the 8th Annual Convention of ISACP and national symposium on "Prevention and management of companion animal diseases vis-à-vis human health", held at Sher-e-Kashmir University of Agricultural Sciences and Technology-Jammu on 2 February 2011



Prof. (Dr) M.P. Yadav

Printed Matter  
Book - Post

STAMP

To,

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

From:

Indian Agricultural Universities Association

# 1G-2, CGIAR Block, NASC Complex, D.P.S. Marg Pusa Campus, New Delhi- 110 012