



# IAUA



# NEWS

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AAU, Anand  
GBPUAT, Pantnagar  
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Prof. (Dr) M.P.Yadav, awarded by Indian Virological Society

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## SPOT NEWS

### IAUA Executive Committee, 2014

|  |  |
|--|--|
| <b>Dr A. K. Srivastava, Dir., NDRI, Karnal</b> | <b>- President</b>                                       |
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| Dr K. M. Bujarbaruah, VC, AAU, Jorhat          | - Member   |
| Dr N.C.Patel, VC, JAU, Junagarh                | - Member   |
| Dr V. K. Taneja, VC, GADVASU, Ludhiana         | - <i>Ex-officio</i> Member<br>(Immediate Past President) |



Dr. A.K. Srivastava

## NEW VICE - CHANCELLORS

### Dr K.K. Katoch, VC, CSKHPKV, Palampur

Dr K. K. Katoch, joined as the eleventh regular VC of CSKHP Agricultural University, on 1 August, 2013 at Palampur. He was the Director of Extension Education in the university. Dr Katoch has more than 32 years of experience in teaching, research and extension education, besides his scientifically sound approach towards farmers' economic advancement through transfer of new technologies. Born on 3 May 1955 at Jawalamukhi in Kangra district, he obtained his Ph.D. degree in Agricultural Physics from the Indian Agricultural Research Institute, New Delhi. He was awarded gold medal in M.Sc. He was selected to Agricultural Research Services in 1981. He started his career as Soil Scientist at Vivekananda Parvatiya Krishi Anusandhan Sansthan, Almora (Uttarakhand) and later on joined Himachal Pradesh in 1987, as Head of National Demonstration Project, Hamirpur.

Dr Katoch is known for strengthening extension activities in Himachal Pradesh by establishing Krishi Vigyan Kendras in various districts, beginning with KVK Bara in Hamirpur. In his capacities as Nodal Officer of the National Agricultural Technology Project; Head, Soil Science; Librarian; Dean, Post-graduate Studies and as Director of Extension Education, he implemented research, extension and other projects worth crores of rupees.

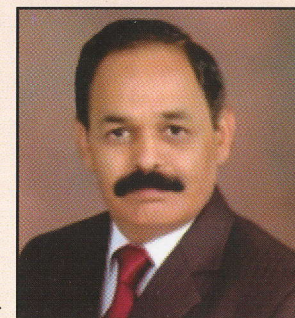
He has more than 200 scientific publications to his credit that include eight books, 133 research and extension papers and 96 technical reports. He is member of several professional societies like Indian Science Congress, Indian Society of Agro Physicists etc.

### Prof. Munna Singh, VC, CSAUAT, Kanpur

Prof. Munna Singh joined as Vice-Chancellor, Chandra Shekhar Azad University of Agriculture and Technology, Kanpur on 23 October 2013. He was Professor of Botany at University of Lucknow. He served the G.B. Pant University of Agriculture and Technology, Pantnagar (Uttarakhand) for two decades. He did Ph.D. from University of Lucknow in 1991.

He was Fellow-JSPS, Japan from Okayama University, Okayama, (1998-2000). He has worked on functional genomics and proteomics of chloroplast biogenesis in pea crop linked with biological CO<sub>2</sub> sequestration and plant productivity at Turku University, Biocity, Finland (2002).

The Department of Science and Technology, Government of India awarded BOYSCAST (Better Opportunity for Young Scientists in Chosen Areas of



Dr. K.K. Katoch



Prof Munna Singh



Science and Technology) Fellowship to him in 1998 to pursue post-doctoral research at University of California, the USA. He was awarded Jawahar Lal Nehru Gold Medal by the ICAR (1995) for outstanding research work in agricultural sciences (Plant Physiology and Molecular Biology). This enhance CO<sub>2</sub> fertigation in C<sub>2</sub> crop plants. Guided over 40 PhD-PG students. He co-ordinated post-graduate programme of Environmental Science at University of Lucknow completed nearly a dozen research projects. He published 100 research papers in national and international journals of high repute. Published two laboratory manuals, one for undergraduate and one for postgraduate at Pantnagar along with seven advance books from Germany. Visited Japan, Finland and Germany.

## Focus on Universities: Events and Achievements

### Deemed-to-be-Universities

#### INDIAN VETERINARY RESEARCH INSTITUTE, IZATNAGAR

##### Award to ZTM-BPD Unit

At the "Agri-Tech Investors Meet-2013" held at NASC Complex, New Delhi during 18-19 July 2013, the Zonal Technology Management-Business Planning and Development unit of the IVRI, Izatnagar received best ZTM-BRD Unit award from Dr K. Kasturirangan, Member Planning Commission. It was given in recognition of commercialization of maximum number of technologies generated from the NAIP projects. Dr S. Ayyappan, Secretary, DARE and DG, ICAR; Dr William D. Dar, DG, ICARISAT; Shri Deepak Ahluwalia, Task Team Leader and Senior Economist, World Bank and many other dignitaries were present. The Meet was organized jointly by the NAIP-ICAR and ICARISAT, which is a technology commercialization platform.



##### Interface meet with Veterinary officers of Assam

One day "Interface meet with veterinary officers of Assam", organized by the ERS, IVRI, Kolkata in association with College of Veterinary Science, AAU, Khanapara, Guwahati (Assam) was held on 3 September 2013. It was attended by veterinary officers of Guwahati and neighboring districts of Assam. A discussion was organized about the problems relating to the diagnosis of livestock-diseases and their treatment. Dr Triveni Dutt, Joint Director (Extension Education), IVRI, Izatnagar and Dr S. Bandyopadhyay, Station In-charge, ERS, IVRI, Kolkata; with the IVRI scientist and senior dignitaries from College of Veterinary Science organized discussion. The veterinary officers were of the view that parasitic infestation especially of fasciola and paramphistomes in the livestock are higher in the entire North-East states, which require effective technologies for their control and management. They emphasized the need of pen-side diagnostic kit GI parasites and blood protozoan infection in the livestock.

#### NATIONAL DAIRY RESEARCH INSTITUTE, KARNAL

##### Agriculture Leadership Award - 2013

The Agriculture Leadership Award-2013 was awarded to the NDRI at New Delhi. H.E. Shri B.L. Joshi, the Governor of Uttar Pradesh, and Shri. Tariq Anwar, Minister of State for Agriculture and Food Processing Industries handed over the award to Dr A.K.Srivastava. The Chief Minister, Punjab and Prof. M.S. Swaminathan, Architect of Green Revolution in India were present.



Dr A. K. Srivastava receiving award

The Jury headed by Prof. M. S. Swaminathan selected the NDRI for Agriculture Leadership Award-2013, as the institute has set a benchmark in dairy research by contributing in research efforts to augment milk productivity, value addition, quality and safety of milk, and economic and marketing aspects related to dairying.

##### Education Leadership Award

The institute also received Education Leadership Award at 21st Dewang Mehta Business School Award Ceremony on 23 October 2013 at Mumbai. The award was bestowed in terms of recognition of the talent and leadership among the educational institutes across India.



Dr G. R. Patil Joint Director NDRI receiving award-2013

##### Karan-Kirti Buffalo Reborn through Cloning

The scientists at Livestock Research Centre, NDRI (S.K.Singla, M.S. Chauhan, R.S.Manik, P.Palta, Shiv Prasad, Monika Saini and Naresh Selokar) produced another cloned calf, "Purnima", from the somatic cell of an adult female buffalo, 'Karan-Kirti'. It yielded 4,425 kg milk in its first lactation in 427 days and 3,812 kg in 305 days of lactation. The peak yield of the buffalo (25.1 kg) was the highest in the institute. The calf weighing 44 kg was born through normal parturition on 6 September 2013. Unfortunately, the calf could not survive longer and died after 20 days on 25 September 2013, but the scientists are encouraged with the birth of Purnima, as for the first time, this technique has paved the way for developing cloned animals from the adult of a known pedigree.



Purnima' cloned calf born from elite buffalo at NDRI Karnal

##### Processing and packaging of milk and milk products

A national training programme on "Innovative approaches in processing and packaging of milk and milk products" was organized from 19 July to 8 August 2013 in Department of Dairy Technology under the aegis of Centre of Advanced Faculty Training in Dairy Processing. Mr G. Bhujabal, IES Chief Economic Advisor, Ministry of Food Processing, New Delhi, inaugurated it. There were 23 participants from all over the country. Mrs Anuradha Prasad, Joint Secretary, Ministry of Food Processing, New Delhi distributed certificates on 8 August 2013 during the valedictory function.



##### Entrepreneurship for commercial dairy farming

The Business Planning and Development BPD unit of NDRI organized an Entrepreneurship Development Programme on Commercial Dairy Farming from 26-28 September 2013. The objective of the training was to impart knowledge to the farmers, unemployed youths, entrepreneurs and industry personnel about the practical aspects of Commercial Dairy Farming and motivate them to adopt the scientific dairy farming practices for maximizing the productivity and profitability. Thirty five participants including farmers, professionals, students, farm women, businessmen and representatives of milk producer organizations were from 9 states.



Training on Commercial dairy farming

##### Contests in Dairy products judging and dairy and food quiz

Four B. Tech. students of NDRI participated in National Dairy and Food Quiz Contest and National Dairy Products Judging Contest at AAU, Anand, Gujarat during 17-18 September 2013. Total 24 teams from various dairy science colleges throughout the country and dairy plants from Gujarat participated in these contests. In the individual category, Ms Sanju Narwal of NDRI won the first position in the dairy products judging contest, whereas, in the Dairy and Food Quiz Contest the team of Ms Bhanu Gambhir and Ms Sakshi Mittal secured the second position.



NDRI Students receiving trophy



## Transfer Technologies to entrepreneurs and industries

Five technologies were transferred to the industries and entrepreneurs, viz. Detection of *Listeria monocytogenes* to M/s Neugen Diagnostics, Hyderabad; Detection of *Enterococci* to M/s Neugen Diagnostics, Hyderabad; Iron fortified biscuits to Shri Shivani, Indore; Cation and Anion mineral mixer to M/s Kamdhenu Feeds, Shahranpur and Shree Jee Feed supplements Jaipur.

## Universities

### ANAND AGRICULTURAL UNIVERSITY, ANAND

Dr A.M. Shekh, VC, received the life-time achievement award for his outstanding contribution in the areas of Education, Planning and administration by International Association of Educators for World Peace. A Memorandum of Understanding and Knowledge Partnership between AAU, Anand and Central India Initiative, (an initiative of Sir Ratan Tata Trust and Navajbai Ratan Tata Trust) was signed by Dr K. B. Kathiria, Director of Research, AAU, Anand, and Dr Tushar Shah, Member, Governing Body, CINI, on 8 July 2013, in the presence of Dr A. M. Shekh. As per the MoU between the AAU and CINI, AAU would provide technical and back-stopping support to CINI for its agricultural development programme, especially under the maize productivity stabilization interventions in the tribal areas of Gujarat. Anand Agricultural University, Anand has been adjudged the best performing SAUs BPD unit for technology commercialization in Agritech Investors Meet on July, 18-19, 2013 in New Delhi.

#### New Released Varieties

##### Maize GAYHM-1

The hybrid (Gujarat Anand Yellow Hybrid Maize-1) is the first public-bred, single-cross hybrid with early maturity for the rainfed condition of the tribal belt of Gujarat state. It possesses orange flint grained cob like that of the local cultivars. It gave 12.9 and 24.2% more yield than HQPM-1 (single-cross hybrid) and GM-2 (variety) respectively under kharif (rainy season) rainfed conditions. The hybrid also outyielded all the national checks in Zone-V of the country. Its seed contains 70.8% starch, 12.2% protein, 3.9% oil and 0.329% tryptophan and 2.855% lysine in protein.

##### Rice GAR-3

The proposed culture (Gujarat Anand Rice-3) derived from the cross Gurjari x IET 14714, gave overall 11.1% better yield than the check variety GR-11. It possesses long slender grains and matures 7-10 days earlier than Gurjari and GAR-13. It is moderately resistant to major diseases and pests, besides having better cooking and milling qualities.

##### Fodder sorghum CoFS-29

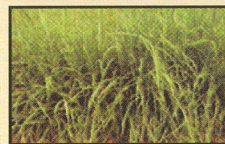
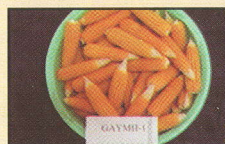
The proposed culture CoFS-29 is a multicut, profusely tillering, perennial grass, called grassy sorghum. It has tall plant stature with more number of leaves. It gives higher green-fodder, dry-matter and crude-protein yield than the national check variety SSG-59-3. It is a highly palatable culture, showing very less disease incidence.

##### Guinea grass variety JHGG - 8-1

Guinea grass variety JHGG-8-1 is a tall growing, high tillering and newly introduced forage crop, showing very quick and fast regeneration ability after every cut. It gives 28.8, 71.0 and 47.1 per cent more green forage yield, and 16.9, 59.7 and 43.2 per cent more dry-matter yield than the national check varieties Bundel Guinea-1, PGG 616 and Riversdale respectively.

##### Brinjal GAOB-2

At Anand station, GAOB-2 variety of brinjal gave 35.73 and 28.74 per cent more fruit yield than the check varieties GOB-1 and GJB-2 respectively. It contains higher vitamin C, anthocyanin and total soluble



CAOB - 2 Brinjal

sugars, with lower amount of total phenols than the check variety GOB-1. It also shows lower incidence of little leaf disease and low population of whitefly than both these checks.

#### Summer school

A summer school on "Agribusiness and marketing intelligence system" was inaugurated on 1 July 2013, sponsored by the ICAR, Dr A. M. Shekh, VC, Dr A. R. Pathak, VC, NAU, the special guest, presided. Mr. Kaushikbhai Patel, CEO, Ocean Agro India Ltd, was the chief guest, and Dr K.B. Kathiria, Director of Research and Dean, P.G. Studies, was the guest of honour, Principal, IABMI, Mr. T. S. Shibinad, Course Director, shared dais with the dignitaries.

#### National meeting on Forage Crops

The national group meeting on Forage Crops was held at JNKV, Jabalpur (M.P.) during 7-8 September, 2013. At this meeting, lucerne variety AL-4 was identified by Main Forage Research Station, AAU, Anand and recommended for North West Zone of India. This variety gave 34.2 and 16.8 % more green - folder yield and 32.9 % and 13.6 % more dry-matter yield respectively, compared with the checks Anand-2 and RL-88.

The BPD unit of the university participated in Agri-Tech Investors Meet organized by NAIP, ICAR and Network of Indian Agribusiness Incubators, held at A. P. Shinde Symposium Hall, NASC Complex, New Delhi during 18-19 July 2013. It was honoured as the "Best-performing SAU BPD unit at this meet by the chief guest Dr K. Kasturirangan in the presence of Dr S. Ayyappan and Dr William Dar. The award was received by Dr A.M. Shekh, Dr R. V. Vyas, CPI, and Mr. Baljeet Singh, Manager respectively of this unit. Seven MoUs were executed during the meet by this unit.

#### Commercialization of technologies of other universities

Being the western India's project the BPD unit supported 4 other institutes, (state agricultural universities and ICAR-institutes) in commercializing their technologies.

1. "Organic liquid fertilizer from banana pseudostem sap" technology of Navsari Agricultural University was licensed to Green Globe Biotechnologies, Chopda (Maharashtra) and Blossom (Surat).
2. "Browning free custard apple pulp storage" technology of Maharana Pratap University of Agriculture and Technology was licensed to M/s Santram Ice Cream and Snacks, Anand and M/s Deep Fresh Frozen Products, Navsari.
3. "Omega-3 oil and soft gel technology" of Bharati Vidyapeeth University, Pune was licensed to M/s Tasty Food Products, Pune and M/s Nutrizen International, Pune.
4. "Virgin coconut oil technology" of Central Plantation Crops Research Institute, Kasargod (Kerala) was licensed to individual entrepreneur Mr A. B. Rajsheshkar.

AAU BPD Unit team receiving the Best AAU BPD Incubatee, Mr. Sachin Gohil (Blossom). Performing SAU BPD Unit Award exchanging the MoU during Agritech Investors' Meet. Thirty scientists from all over the country presented their reports at the meeting.

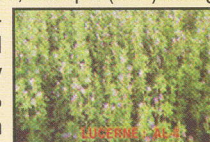
#### VI<sup>th</sup> International Conference on Fermented Foods

The 6th international conference on "Fermented Foods, Health Status and Social Well-being" was inaugurated by Shri Babubhai Bhokhriya, Minister of Agriculture, at Anand campus on 6 December 2013. This conference was organized jointly by Swedish South Asian Network on Fermented Foods in association with the AAU, Lund University (Sweden) and M/s Hildur Functional Foods India.

The programme was attended by 250 delegates from various parts of India as well as from Australia, Sweden, Egypt and Hong Kong. Six technical sessions were held, in which 35 papers were presented and in two poster sessions, along with 38 posters on original research work.

#### Contribution to US gene bank

Agricurally beneficial microbes gene sequences deposited at NCBI (2012 and 2013). Department of Agricultural Microbiology and Biofertilizer Project of university submitted 31 partial 16S RNA gene sequences of native agriculturally beneficial plant growth promoting bacteria published online at National Centre for Biotechnology Information gene bank, the USA.



Lucerne AL-4





| Sr. No. | Name  | Accession No. | Beneficial PGPB traits                       |
|---------|---|---------------|--|
| 1       | <i>Azotobacter chroococcum</i> strain ABA-1     | KF 494187     | Nitrogen fixers                              |
| 2       | <i>Azotobacter vinelandii</i> strain AAU11      | KF 494186     |  |
| 3       | <i>Azotobacter chroococcum</i> strain AAU10-13  | KF 494188     |  |
| 4       | <i>Rhizobium selenitireducens</i> strain AAU M1 | KF 850625     |  |
| 5       | <i>Rhizobium cellulosilyticum</i> strain PP16   | KC 787581     | Nitrogen fixer-cum-iron and zinc solubilizer |
| 6       | <i>Rhizobium pusense</i> strain AAU P 16        | KF 888659     |  |
| 7       | <i>Chryseobacterium indologenes</i> strain AM2  | KF 758545     | Non-rhizobial nitrogen-fixing endophytic     |
| 8       | <i>Enterobacter cloacae</i> strain ACP3         | KF 758546     |  |
| 9       | <i>Enterobacter cloacae</i> strain AS1          | KF 758544     |  |
| 10      | <i>Enterobacter ludwigii</i> strain ABG         | KF 758549     |  |
| 11      | <i>Klebsiella pneumoniae</i> strain AG4         | KF 758547     |  |
| 12      | <i>Klebsiella variicola</i> strain ABG7         | KF 758550     | Phosphate solubilizer                        |
| 13      | <i>Pseudomonas aeruginosa</i> strain ABG5       | KF 758548     |  |
| 14      | <i>Bacillus coagulans</i> strain PBA 16         | KF 933349     |  |
| 15      | <i>Bacillus tequilensis</i> strain AAU PSB 09   | JX 403935     |  |
| 16      | <i>Bacillus circulans</i> strain P 23           | JX 133239     | Potash mobilizer                             |
| 17      | <i>Burkholderia cepacia</i> strain 37           | JQ 322558     |  |
| 18      | <i>Burkholderia metallica</i> strain P 19       | JX 133238     |  |
| 19      | <i>Pseudomonas otitidis</i> strain P 8          | JX 133237     | Methane degrader                             |
| 20      | <i>Pseudomonas gessardii</i> strain SSB7        | KF 481916     |  |
| 21      | <i>Enterobacter cloacae</i> strain KMBC1        | KF 481917     |  |
| 22      | <i>Enterobacter cloacae</i> strain KMBM1        | KF 481918     |  |
| 23      | <i>Enterobacter cloacae</i> strain KMBB1        | KF 481919     | Biocontrol agent                             |
| 24      | <i>Enterobacter cancerogenus</i> strain KMBW1   | KF 481920     |  |
| 25      | <i>Bacillus aerius</i> M8                       | KC 787582     |  |
| 26      | <i>Rhizobium</i> spp M10                        | KC 787583     |  |
| 27      | <i>Bacillus amyloliquefaciens</i> M14           | KC 855269     |  |
| 28      | <i>Bacillus subtilis</i> M17                    | KC 787584     |  |
| 29      | <i>Bacillus megaterium</i> M29                  | KC 787585     |  |
| 30      | <i>Pseudomonas aeruginosa</i> KPSE3             | KC 787580     | Biocontrol agent                             |
| 31      | <i>Bacillus thuringiensis</i> strain Abt 10     | KF 279356     |  |
| 32      | <i>Pseudomonas fluorescens</i> fp 68            | KJ 013327     |  |
| 33      | <i>Pseudomonas aeruginosa</i> fp 183            | KF 647773     |  |

## ASSAM AGRICULTURAL UNIVERSITY, JORHAT

### 66th Foundation day of College of Agriculture

The College of Agriculture, Jorhat celebrated its 66th Foundation Day on 16 August 2013.

Dr K.M. Bujarbaruah, VC, exhorted the teachers to take a resolve to put 100 per cent effort in teaching, research and extension. He advised them that research should be purposeful and undertaken with foresight. Citing an example of research in Israel, he suggested that in this age of climate change, innovative research should be taken up to benefit the farmers ultimately.

Prof. Alak K. Buragohain, VC, Dibrugarh University, while delivering the Foundation Day lecture, asked the faculty to explore the possibility of biotechnology and genetically modified crops to help in the production of sufficient food grains to feed the ever-increasing population. The controversies dogging biotechnological research and Bt crops had hampered the funding in this direction; and unnecessary concern and unfounded

facts that still persist to this day have shackled research in this sphere.

### Foundation day of College of Home Science

The College of Home Science celebrated its 40th Foundation Day on 8 August 2013. Dr S. Kaur, Dean, in her welcome address apprised the audience briefly about the history of Home Science education in India and its inclusion in the AAU curriculum. Dr G.N. Hzarika Director of Research (Agric.) and Mrs Krishna Gohain, Registrar in their addresses emphasized the importance of Home Science education. Mr Mayur Bora, Assistant General Manager, NABARD the guest speaker, in his lecture spoke on personality development. A cultural programme by the students was organized to mark the occasion.

### Foundation day of College of Veterinary Science

The 66th Foundation Day of College of Veterinary Science was celebrated with pomp and gaiety on 18 August 2013. Dr A.K. Srivastava, Director cum VC, NDRI, Karnal delivered the Foundation Day lecture on "Dairying in India: status and future road map".

Dr K.M. Bujarbaruah, VC, and chairman of the



Cultural Procession



Dr Alok K. Buragohain and Dr K. M. Bujarbaruah on dais



Mr Mayur Bora, inaugurating conference



Dr K.M. Bujarbaruah, Dr A.K. Srivastava on dais

session, conferred the late Dr G.N. Dutta Memorial Best Graduate Award 2013 on Dr Shafee Ullah.

### National seminar on "Extension approaches"

The first national seminar on "Extension approaches for inclusive agricultural development in hilly, tribal and backward areas" was organized at College of Veterinary Science, AAU, Khanapara on 20 August 2013. Mr V.K. Pipersenia, (IAS) Additional Chief Secretary, Agriculture and Agriculture Production Commissioner, inaugurated it, and Dr K.M. Bujarbaruah, VC, presided. A seminar was organized during 20-22 August 2013 with joint support of Indian Veterinary Extension Forum and the AAU. More than 200 participants from all over the country attended it.



Dr. K.M. Bujarbaruah and other Dignitaries on Dais

### Placement week

The Training and Placement Cell organized a Placement week at the Jorhat campus during 17-20 July 2013. An interface of the AAU and Agri-input industries was held on 17 July at university board room under the chairmanship of Mrs Krishna Gohain, Registrar. The meeting was attended by Mr George Ambookan, General Manager, M/s McLeod Russel; Mr. Jayanta Chakravorty, President, M/s Eastern India Crop Care; Mr Faizal Ansari, Senior Manager, McLeod Russel; Mr Farhad Ahmed, Deputy Senior Manager, M/s Eastern India, Nepal, Bangladesh, M/s Chemsura Chemicals Agro Solution Association; and a number of officials from the agri-input industries, statutory officers of the university; professors and heads of the departments.



Dr K.M. Bujarbaruah and other dignitaries on dais

Dr K. M. Bujarbaruah, VC, in his speech stressed upon need-based demand for the students from the corporate sector regarding the quality and technological knowhow required. Mrs Gohain spoke on the importance of such an interface in the university and the need of bridging the gap between demand and supply of the employable graduates. Dr U. Kotoky, Professor In-charge, Training and Placement Cell, informed that from July 18 to 20, 2013 altogether 12 corporate sectors from different parts of the country interviewed 87 students and shortlisted 30 of them for further selection process for recruitment in their companies.

### Mobile solution service

Mobile based solutions for information delivery to farmers via KVK or extension departments of the university to facilitate rapid advanced information to the farmers were started with the support of M/s Sathguru Consultant Pvt. Ltd, a consortium and implementation partner of the AIP. The Directorate of Extension Education organized a Training Programme during 31 July-1 Aug 2013 on AIP Mobile Solutions at College of Veterinary Sciences Khanapara, Guwahati. The programme was sponsored by M/s Sathguru Consultant Pvt. Ltd, Hyderabad, and co-ordinated by Dr U. Goswami from the Directorate. Total 1,413 farmers from 136 villages registered under this programme through 15 KVKs of Assam State.



Training on Mobile Solutions in Progress

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

### 23rd Annual Training

An advanced training course for faculty of central and state agricultural universities on "Updates on male infertility, semen technology and quality oocyte production" began in the department of Veterinary Gynaecology and Obstetrics recognized as Centre of Advanced Faculty Training by the ICAR. Dr S.N.S. Randhawa, Dean, Post-graduate Studies, the chief guest, highlighted the research achievements of the department which is having 13 research projects sanctioned by different funding agencies. He pointed out that the conception rate in dairy animals is possible by improving the quality of semen and oocyte produced by the animals. Dr H.S. Sandu, Dean, College of Veterinary Sciences, the guest of honour, highlighted that such trainings to the faculty keep in flow of information from participants as well as the hosting department. He advised the participants to visit other departments of the University also to derive maximum advantage. Dr R.D. Sharma, Professor (retd.), drew attention to the emerging problems that the farmers are facing in the changing scenario of dairy farming in the country. Dr P.S. Brar, Head of the Department and Director of the CAFT centre, informed that more than 200 scientist from various states of India have been trained here. In the present course 19 scientists or teachers are participating from 8 different states: 5 from Gujarat, 3 from Uttar Pradesh, 2 each from Assam, Haryana and Punjab; and 1 each from West Bengal, Chhattisgarh and Madhya Pradesh. Dr Ajeet Kumar, Assistant Professor, and Dr Dinesh Dadarwal, Assistant Gynaecologist, in the department co-ordinated the training for over 21 days.



### Scientific pig management training

A training programme on "Scientific pig management" under the auspices of Rashtriya Krishi Vikas Yojana was organized jointly by Department of Livestock Production Management and Department of Veterinary and Animal Husbandry Extension Education. At the concluding function, Dr Harish Verma, Professor, Department of Veterinary and Animal Husbandry Extension Education, said that the university since its inception is helping the farmers through trainings and inputs of scientific know-how for motivating the youth and progressive farmers to adopt pig farming on scientific terms. Dr Chandras, Assistant Professor, Department of Livestock Production Management, and Technical Advisor of the Training Programme, stressed that strategic pig marketing is the key for the success of commercial pig farming in Punjab. Forty one trainees including one woman participated in this training programme. During the training programme the farmers were exposed to different aspects of breeds and breeding, housing, nutrition, health, general management, post-harvest technology, economics, marketing etc. for better adoption of pig farming on scientific line to generate livelihood. Dr H. K. Verma distributed certificates to all the participants. Dr Mandeep Singla, Assistant Animal Scientist, Department of Livestock Production Management, co-ordinated the programme.



### Safety of livestock from parasitic infections in post monsoon

With the onset of monsoon, vector-borne blood protozoan diseases in animals and humans start increasing day by day. This is due to favourable climate for multiplication of the vectors, viz. ticks, blood-sucking flies and mosquitoes. Dr L.D. Singla, Professor-cum-Head, Department of Veterinary Parasitology, told that the blood protozoan infections including trypanosomiasis, theileriosis, anaplasmosis and babesiosis generally increase during this season. Dr Singla added that to get the maximum profit from dairy animals, prevention and control of these parasitic infections is very important. Dr Singla further added that under Rashtriya Krishi Vikas Yojana project, Department of Veterinary Parasitology has generated database on blood protozoan diseases in livestock that will help in the control of such parasitic diseases.

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

#### Brain-storming on nano-bio-information

A brain-storming session on 'Prioritizing research areas on nano-bio-information technology for development of north-western Himalayan states and strengthening efforts in frontier sciences and practicing hi-tech research' was held in Department of Molecular Biology and Genetic Engineering of College of Basic Sciences and Humanities during 12-13 July, 2013.



#### Parthenium grass management

Department of Agronomy of College of Agriculture organized 'Parthenium grass-management week' from 16 to 22 August 2013, in which efforts were taken to create awareness about this fast-spreading dangerous grass and to control it through various measures.



Inaugural session of Parthenium management

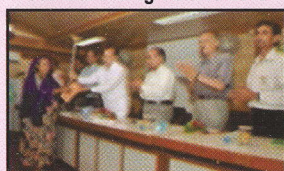
### JUNAGADH AGRICULTURAL UNIVERSITY, JUNAGARH

#### MoU for strategic partnership

Two MoUs were signed for strategic partnership of JAU for the exchange of students, faculties, software and expertise, collaboration in research and extension education programme and for the conduct of joint staff-development programme with Maharana Pratap University of Agriculture and Technology, Udaipur (Rajasthan) and ASPEE Agricultural Research and Development Foundation, Mumbai (Maharashtra). One MoU was signed between the JAU and M/s Ronak Seeds Pvt. Ltd, Ahmedabad (Gujarat), for the production and marketing of quality seed of okra (Gujarat Junagadh Okra - 3) and brinjal (Gujarat Junagadh Brinjal - 2 and Gujarat Junagadh Brinjal - 3).



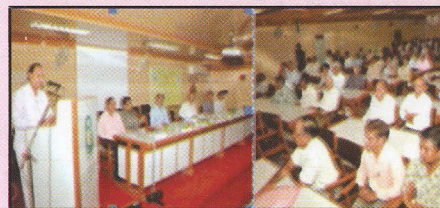
Seminar during VGGAS-2013



Shri Babubhai Bokhriya, distributing sprinkler sets to a tribal woman farmer

### Training for tribal farmers on sprinkler irrigation

Under All India Co-ordinated Research Project on Ground Water Utilization, training for the tribal farmers on sprinkler-irrigation system was organized by Department of Soil and Water Engineering, College of Agricultural Engineering and Technology at Junagadh on 16 August 2013. Seventy tribal farmers from Talala taluka of district Gir Somnath, participated in it, under the tribal subplan of the ICAR for the welfare of tribal farmers. Shri Babubhai Bokhriya, Minister for Agriculture, Co-operation, Animal Husbandry, Fisheries, Cow Breeding and Water Resources (Except Kalpasar), Government of Gujarat, distributed sprinkler irrigation



Inaugural address by Shri Babubhai Bokhriya

Dr. A. M. Sekh and Dr. N. C. Patel inaugurating seminar sets to all the 70 farmers. In his keynote address to the farmers, he emphasized on adoption of modern irrigation technologies and water-management practices to cope up with the water requirement of the increasing population of the country. Dr N.C. Patel, VC, in his presidential remarks, laid stress on food and nutritional security by saving every drop of water, and its efficient use through micro-irrigation technology.



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### Crop protection in fruits, vegetables and oilseeds

A state-level seminar on "Crop protection in fruits, vegetables and oilseeds" was organized jointly by the JAU and Plant Protection Association of Gujarat on 20 September 2013 at Junagadh. Dr A. M. Shekh, VC, AAU, Anand inaugurated it. Dr N. C. Patel, VC, JAU, Junagadh, presided at this function. Dr J. G. Patel, President, Plant Protection Association of Gujarat, informed the gathering about the activities of the Association. The plant protection scientists from all the four agricultural universities of Gujarat as well as progressive farmers from Gujarat attended the seminar.

#### Visit of Dr S.A. Patil

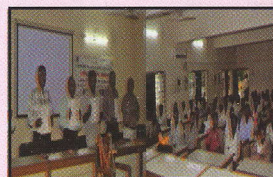
Dr S. A. Patil, Chairman, Karnataka Krushi Mission and former VC, University of Agricultural Sciences, Dharwad, visited the JAU and delivered special lecture on "How to achieve excellence in TRE activities and attract youth in agriculture" to the students and faculties of the university on 15 July 2013. He visited various colleges, research centres, seed technology park, educational museum, Agri-net studio, etc.



Dr SA Patil addressing scientists and teachers

#### Training on export oriented spices

A farmers' training programme on "Export-oriented spices cultivation and its value addition" was organized at JAU, Jamnagar during 26-27 September 2013 to create awareness among the farmers for cultivation of spices crops. Dr C. J. Dangaria, Director of Research, Junagadh, and Dr P. M. Vaghasiya, Joint Director (Horticulture), Rajkot shared the prospects of spices crops to 82 progressive farmers, who participated in the training programme. Dr P. M. Vaghasiya, the chief guest, highlighted the scope of seed spices-processing industry in Gujarat.



Farmer trainees

#### Best teacher award

A Triple (Trivid) felicitation programme was organized on 31 August 2013 at Junagadh jointly by the JAU, Junagadh and Junagadh Agricultural University Teachers' Association, Junagadh. At this occasion, Best Teacher Award was awarded to five teachers of the JAU. Felicitation was also extended to the retired scientists of JAU and meritorious children of university staff members for their outstanding performance in the 10th and 12th standard examinations along with their mothers special role played by them in child development. Shri Govindbhai Patel, Minister of Agriculture (State level), Government of Gujarat, and Dr N.C. Patel, VC, JAU, Junagadh, graced the occasion.



Shri. Govindbhai Patel, addressing the gathering



### Thalassemia camp for students

A Thalassemia screening and blood grouping camp for the newly admitted students of the University was organized on 5 September 2013, in collaboration with Indian Red Cross Society, Ahmedabad, at Junagadh as well as at College of Fisheries, Veraval. Similar camps were also organized at Polytechnic in Agriculture, Dhari and Polytechnic in Home Science, Amreli on 6 September 2013. In these camps total 582 blood samples of newly admitted students of different colleges and polytechnics were collected for screening and blood-grouping investigation.

### New varieties released Cotton-GJC-101

A medium-maturing variety Gujarat Junagadh Cotton - 101 (GJC - 101) was released for general cultivation for the farmers of non-Bt cotton (*Gossypium hirsutum*)-growing areas of Gujarat State under irrigated condition. The variety gave 2,107 and 676 kg/ha, seed cotton and lint yield respectively. It possesses 32.0

per cent ginning out turn and 18.34 per cent oil content in the seed. The variety was found moderately resistant to *Alternaria* leaf spot disease.

### Sugarcane GS-5

An early maturing variety of sugarcane, gujarat sugarcane-5 was released for general cultivation for the farmers of South Saurashtra Agro-climatic Zone growing sugarcane crop, for getting higher cane and sugar yield. This variety recorded 121.20 tonnes/ha cane yield.

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

#### Wildlife handling by veterinarians

The Institute of Wildlife Veterinary Research, Doddaluvara conducted two training programmes for veterinary officers of Karnataka on "Health and management of captive elephants" in September and November months of 2013. These programmes were funded by Karnataka Veterinary Council, Bangalore.

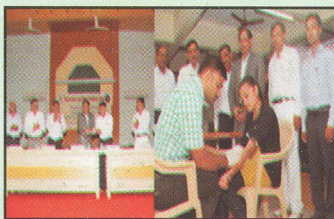
#### The important recommendations of the programme are:

1. The veterinary officers working in field, especially in and around wild animal habitats, should be updated regularly about practical information on wild animals.
2. Hands-on-trainings have to be given to the veterinarians on restraining and handling of wild animals, especially for veterinarians working in the zones prone to human-wildlife conflict.
3. Veterinarians with specialization in wild animals should be given preference for appointment at state and national zoos, rescue centres, biological parks, sanctuaries and conservation programmes.
4. Special risk allowance should be given to the veterinarians working with wild animals.
5. The institutes, veterinarians and zoos should be equipped with wild animal capture, restraint and handling equipments, like dart guns and restrain kits.

### MAHARANA PRATAP UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, UDAIPUR

#### University sports complex

Shri Ashok Gehlot, CM, inaugurated a newly constructed Multipurpose Indoor Sports Hall at Zonal Complex, CTAE, Udaipur on 4 September, 2013. Dr C.P. Joshi, Minister for Road and Transport, Gol and Shri M.L. Garasiya, Minister for Youth Affairs and Sports, Government of Rajasthan, were the



Thalassemia camp for students



Gujarat Junagadh Cotton-101 (GJC-101)



Gujarat sugarcane-5



Prof. H.A. Upendra addressing trainees



special guests and Prof. O.P. Gill, VC, presided over the function. The sports hall has indoor facility of badminton, table tennis, basketball and other games.

### PUNJAB AGRICULTURAL UNIVERSITY, LUDHIANA

#### Visit of Peer review team

A six-member Peer Review team visited the PAU, Ludhiana during 5-7 December 2013 to assess, evaluate and deliberate on its organization, governance, human-resource development, academics, research, teaching, extension, co-curricular activities and financial matters.



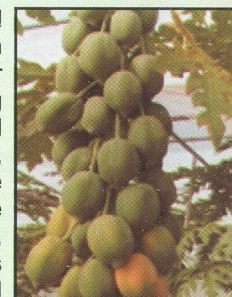
Peer Review Team in Session

Dr M.P. Yadav, former Director, IVRI, Izatnagar, (Bareilly) led the team. Its other members were Dr S.D. Sharma, VC, Dev Sanskriti Viswavidyalaya, Shantikunj, Haridwar; Prof. Suresh S. Honnappagol, Assistant Director General (EQR), ICAR; Dr R.P. Kachru, former Assistant Director General (PHT), ICAR; Dr D. Singh, former Director of Research, G.B. Pant University of Agriculture and Technology, Pantnagar; and Dr K.L. Khurana, Principal Scientist, Education Division, ICAR.

Dr Baldev Singh Dhillon, VC, along with senior officials of the university accorded a warm welcome to the Team and highlighted achievements of PAU. Dr P.K. Khanna, Registrar, presented the Action-taken report and gave an overview of the organization, governance, faculty and other human resources. Dr Gursharan Singh, Dean, Postgraduate Studies and Institutional Co-ordinator for Accreditation, gave a detailed presentation on the academic programmes of the university and also highlighted new initiatives in education. Dr S S Gosal, Directorate of Research, G.B. Pant University of Agriculture and Technology, Pantnagar; and Dr K.L. Khurana, Principal Scientist, Education Division, ICAR. Dr Baldev Singh Dhillon, VC, along with senior officials of the university accorded a warm welcome to the Team and highlighted achievements of PAU. Dr P.K. Khanna, Registrar, presented the Action-taken report and gave an overview of the organization, governance, faculty and other human resources. Dr Gursharan Singh, Dean, Postgraduate Studies and Institutional Co-ordinator for Accreditation, gave a detailed presentation on the academic programmes of the university and also highlighted new initiatives in education. Dr S S Gosal, Directorate of Research, gave details of the research achievements of the university, highlighting future thrusts. Other deans and officers also gave presentations on various aspects. The Peer Review team visited all the four colleges of the university; interacted with the faculty, staff and students; and saw various facilities such as smart class rooms, computer laboratories, teaching laboratories, book banks or libraries, and experiential learning units. They also visited the experimental fields, Farmers' Service Centre, university library etc.

#### New varieties for general cultivation

The university released three new varieties viz., Red Lady 786 papaya, Bhagwa pomegranate and Brown Turkey fig (anjeer). All these varieties were approved for general cultivation in the Punjab state during the meeting of State Variety Approval Committee for Horticultural Crops. The plants of Red Lady 786 are self-fruitful, vigorous, are 238 cm tall, with fruits TSS (total soluble solids) 11 per cent, and give 50 kg per plant yield. The plant of Bhagwa pomegranate variety, is medium in size, bushy, partially deciduous and regular bearer. Its fruits are medium to large in size, having smooth, glossy and red rind. It has soft seeds, having red coloured aril and gives 14.6 kg/plant average yield. The fruit of Brown Turkey fig is medium to large in size, has deeply coloured ribs and a medium-sized eye and is delicious. Its tree is prolific and gives good crop yield, i.e., 53 kg fruit per tree. The fruits mature from the last week of May to the end of June.



Papaya Red Lady 786

### SARDAR VALLABH BHAI PATEL UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, MEERUT

#### National Education Day

National Education Day was celebrated on 11 November 2013 at SVPUAT, Meerut. The ceremony was inaugurated by lighting diyas and offering flowers at the statue of Maulana Abdul Kalam Azad. Dr Punjab Singh, former DG, ICAR & ex VC, BHU, pointed out that India cannot progress without the contribution of agriculture, and hence new direction is needed in agricultural education research and extension. He said that though our country's universities and research stations or centres are doing good job, more effort is needed for greater advancement. After China and the USA, India ranks third in the field of education. Our education system is good enough and can progress further. Our nation can progress only when we lay emphasis on value based education. He informed that though Korea's education system is better than



ours, only 7% of our total population in the age group 20 to 24 gets higher education. In agricultural education only 1% students opt for this stream, which is a subject of concern. There are many opportunities in agricultural education, and hence the students should come forward to join this sector and learn to excel in its research and development. Dr S. L. Mehta, former DDG, ICAR, said that after Green Revolution the production of food crops has increased to 257.44 ml tonnes, after white revolution the milk production to 121.8 ml tonnes, after Blue revolutions the fish production to 7.85 ml tonnes; after yellow revolution to 74.8 ml tonnes, fruit production and vegetable production to 146.5 ml tonnes. He also informed that according to world scenario India has 16.8% population, 4.2% water and 2.3 % geographical area, in which 51% population depends solely on agriculture, 14.6 GDP and 0.35 public investment to GDP is 11%, There is still need to increase the production per hemisphere. Nowadays new techniques in agriculture are invented, which could be implemented to educate the young students and enable them to compete in the international agricultural market. Our agricultural education system should be framed and moulded to inform the international agri -educational system so that the student can get education in all the new technologies such as nanotechnology, biotechnology, geographic information system, GPS system, which would make our education and research more efficient and effective. Dr H. S. Gaur, VC, addressing that students informed that western Uttar Pradesh is blessed with fine weather and agriculturally sound environment for a farmer, which prove helpful in agriculture progress here. Our priority should be to make the new techniques available to all and speedy transfer of positive results of research to the farmers.

#### Foundation day celebration

The Foundation day of the university was organized on 2 October 2013, coinciding with the Jayanti of Mahatma Gandhi and Lal Bahadur Shastri. At this gala celebration, the chief guest, Dr R.P.Singh, Executive Secretary, Indian Agriculture Universities Association, in his speech said that after Independence the production of food grains is increasing continuously, which at present stands at 245 ml tonnes. High production is the result of Green Revolution, White Revolution, Blue and Yellow Revolution, but currently the production level is not increasing commensurate with the increase in population which reached to 120 billion. Uttar Pradesh can play an important role in it, because it is the state with highest population. He emphasized that the farmers should cultivate the crop having export potential to fetch good income. In this area banana, mango, strawberry and papaya etc. should be grown on large scale, the farmers should be encouraged to adopt these crop for higher income and sustainability. He pointed out that "low volume and high income" agricultural production policy should be adopted in whole of Uttar Pradesh.

On this occasion, Dr Hari Shankar Gaur, VC, highlighted the lives and achievements of Gandhi ji, Lal Bahadur Shastri ji and Sardar Vallabh Bhai Patel and called upon the students to follow their ideals. He also talked about achievements of the University. The need of hour is to keep our agriculture on track, through check on price inflation and making serious efforts to increase food production and agricultural growth. The pace of Green Revolution should be accelerated and investment in agricultural sector must be increased. Agriculture is a field that has vast scope of progress and new opportunities, and these opportunities must not be lost.

#### UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE

##### 8th National conference on KVK-2013

The VIII National conference on KVK-2013 was held during 23-25 October 2013 at UAS, Bangalore. It was organized jointly by the ICAR, New Delhi and the UAS, Bangalore. Shri Sharad Pawar, Union Minister of Agriculture and Food Processing Industries inaugurated it on 23 October 2013. H.E. Dr Hans Raj Bhardwaj, the Governor of Karnataka was the guest of honour, and Shri Siddaramaiah, Chief Minister of Karnataka, was the chief guest. Shri Krishna Byre Gowda, Minister of Agriculture, Government of Karnataka presided at the inaugural function. Shri D.B. Chandre Gowda, M.P. attended the function along with other senior ministers from GoK.



Dr Punjab Singh addressing



Dr. R P Singh addressing



Shri Sharad Pawar, addressing delegates at 8th KVK Conference

The conference started with welcome address by Dr K. Narayana Gowda, VC and opening remarks by Dr S. Ayyappan, Secretary, DARE and DG, ICAR, New Delhi. As a part of the Conference, a technology exhibition was arranged, inaugurated by Shri Sharad Pawar, along with Shri Siddaramaiah, CM of Karnataka.

The theme of the Conference was 'Sustainable-intensification of small-holder farmers'. There were eight technical sessions on important topics related to the theme of this. It was attended by 1,200 delegates, including Deputy Director Generals of the ICAR, Secretaries, Ministry of Agriculture and Co-operation, GoI; vice-chancellors and directors of Extension of farm universities and Programme Co-ordinators of 634 KVKs. The salient recommendations of the conference are: An e-extension research institute should be set up; the KVKs should validate and demonstrate area specific small integrated farming models with technological back stopping; Custom-hiring models for mechanisation of small farms in each state should be developed through vocational training of rural youth, backed with institutional credit, repair and maintenance of infrastructure and appropriate technologies; and Convergence of KVK-ATMA activities, and successful and workable models developed by the NICRA-implementing KVKs need to spread to other similar situations in the district in convergence with the line departments.

#### UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT

##### Faculty development programme

The inaugural function of Faculty Development Programme for 50 newly recruited scientists was organised from 6 to 12 October 2013 at Udhyanagiri, COH, Bagalkot. The function was inaugurated by the chief guest, Dr S. V. Hittalamani, former Additional Director, Department of Horticulture, Lalbagh, Bengaluru. Dr V Gopal, former Comptroller, UAS, Bengaluru addressed the scientists.



Shri. Prithviraji Chavan, and other dignitaries visiting VNMKV stall

#### VASANTRAO NAIK MARATHWADA KRISHI VIDYAPEETH, PARBHANI

##### Participation of Vidyapeeth in Exhibition

The VNMKV participated in the agricultural exhibition at Karad (Maharashtra) during 24-28 November 2013. It showcased its various technologies and varieties evolved on this occasion. The specimens of agricultural and allied products and the seedling were displayed. Shri Prithviraj Chavan, CM of Maharashtra, along with Shri Ajit Pawar, Deputy Chief Minister of Maharashtra, besides many other dignitaries and farmers visited the stall.



##### National symposium on plant diseases

A national symposium (West Zone) on 'Plant diseases: diagnostic and integrated disease management for food security' was organized by Department of Plant Pathology, College of Agriculture, in collaboration with Indian Phytopathological Society, New Delhi, during 27-28 December 2013. Dr V.S.Shinde, Director of Instruction & Dean (F/A) and Acting VC, VNMKV, Parbhani, presided. He stressed upon the importance of integrated disease management for food security in the context of climate change. Dr C.D.Mayee, former Chairman, ASRB, New Delhi, inaugurated the symposium.



Dr C.D. Mayee inaugurating National Symposium

##### Innovative Rural Community-Education Programme

A special rural community education programme 'Gruha Vidnyan Aplya Dari : Kutumbache Kalyan Kari' (GVAD : K3) by College of Home Science, inaugurated by Dr Ratnamala Chatterjee, Nano Science Expert, IIT, New Delhi on 22 November 2013. The programme aimed to disseminate the information and technologies to the welfare of special rural community education programme rural families. On this occasion Dr Chatterjee also delivered the seminar on nano technology. It was attended by faculty members, students and staff of the university.



Dr Ratnamala Chatterjee, inaugurating special rural community education programme



### Participation in national symposium

Dr Kishore Deshmukh, Technical Officer to VC, acted as convenor of the Technical Session trade and marketing of Noni in the VIII National symposium on Noni for sustainable wellness organized jointly by World Noni Research Foundation, Chennai, International Society for Noni Science, Chennai, University of Agricultural Science, Bangalore; and University of Horticultural Science, Bagalkot at GKV campus, UAS, Bangalore during 29-30 October 2013.

### WEST BENGAL UNIVERSITY OF ANIMAL AND FISHERY SCIENCES, KOLKATA

#### Recognition for commercialization

Dr Samit Kumar Nandi, Reader, Department of Veterinary Surgery and Radiology of WBUAFS, Kolkata received the Biotech Product and Process Development and Commercialization Award 2013 from Department of Biotechnology Ministry of Science and Technology, Government of India. He developed a method of using bio-materials in the treatment of complicated orthopaedic surgical challenges and isolation of marine mollusk bio-molecules as osteogenic inhibitor and novel immunostimulator/immunomodulator. H.E. Shri Pranab Mukherjee, the President of India, Shri S. Jaipal Reddy, MIC for Science and Technology, Govt. of India was present at a function of Technology Day held on 11 May 2013 at Vigyan Bhawan, New Delhi.

Dr Nandi also received National Bioscience Award, 2008 for Career Development from Department of Biotechnology, Ministry of Science and Technology, in recognition of his pioneering work in understanding orthopaedic disorders and their solutions through bone tissue engineering. Shri S. Jaipal Reddy, MIC for Science and Technology, presented the award to Dr Nandi on 17 December, 2013, at a function held at Scope Convention Centre, New Delhi.



## Awards

### ANAND AGRICULTURAL UNIVERSITY, ANAND

#### Three Awards to University

The University was presented three award at Indo-Global Education Summit- 2013, Mumbai. Award for Educational Excellence, Award for Eminent Educationists and Award for Teaching Excellence. The university too was honoured with National Education Leadership Award from Dainik Bhaskar & Star Group of Industries on 23 October 2013.

#### Recognition to Dr B.P.Shah

Dr B.P.Shah, Principal & Dean, Sheth M.C.College of Dairy Science, received Bharat Excellence Award- 2013, for the year 2013 as well as Rastriya Ratan award and gold medal for his outstanding and extraordinary achievements in his chosen field of activity and services rendered for promotion of greater friendship and India-



International Co-operation. H.E. Chaudhary Randhir Singh, former Governor of Sikkim, presented him that award at a seminar on "Economic Growth And National Unity" organized by Friendship Forum, New Delhi on 14 December 2013.

### GOVIND BALLAH PANT UNIVERSITY OF AGRICULTURE & TECHNOLOGY, PANTNAGAR

#### Jawaharlal Nehru award to M/s Nandini

Ms Nandini, Ph.D. student (and Senior Research Fellow) of Department of Plant Pathology of the University, received Jawahar Lal Nehru Best Thesis Award of the ICAR, New Delhi on 16 July 2013. Shri Sharad Pawar, Union Agriculture Minister, presented her the award at a function held on foundation day of the ICAR (16 July 2013) at National Agricultural Science Academy, New Delhi. Dr Nandini is the first lady recipient of this award in the university.

### PUNJAB AGRICULTURAL UNIVERSITY, LUDHIANA

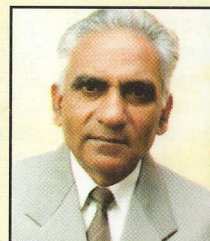
#### Jawaharlal Nehru Award to Dr(Mrs) Gulab Pandove

Dr (Mrs) Gulab Pandove, an alumna of the PAU, Ludhiana and presently working as Teaching Assistant, Department of Microbiology, received "Jawaharlal Nehru Award-2012" for her outstanding Ph.D. thesis. Shri Sharad Pawar, Union Minister of Agriculture, presented her the award during the 85th Foundation Day of the ICAR, New Delhi. The award carries a certificate, citation, gold medal and cash of Rs 50,000. The topic of her research was "Biomonitoring of indicator and emerging pathogens in water" under the guidance of Dr (Mrs) Param Pal Sahota, Senior Microbiologist-cum- Head, Department of Microbiology.



#### Honour to Prof. (Dr) M.P. Yadav

Prof. (Dr) M. P. Yadav was conferred "Excellence in Virology Award" by Indian Virology Society for his landmark contributions to Veterinary Virology. The award was given on 17 December, 2013 on the occasion of the Asia-Pacific Congress of Virology (VIROCON 2013) held at Amity Institute of Virology and Immunology, Amity University, Gautam Budh Nagar, Uttar Pradesh, during the inaugural function. Prof. Yadav is presently President of IAVMI. He also lead other organizations as President, namely Indian Virological Society 1996-2003; Indian Agricultural University Association (IAUA) 2006-07 and NAVS(I) (2011-13), besides working as FAO National Consultant. On this occasion Prof. Dr A.K. Prasad, President, Indian Virological Society; Dr Krishan Lal, President, INSA; Dr Ashok K. Chauhan, founder President, Foundation of Amity Institutions, and other dignitaries from India and abroad were present. ologies to the welfare of rural families. On this occasion Dr Chatterjee also delivered the seminar on nano technology. It was attended by faculty members, students and staff of the university.



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