



GADVASU

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Newsletter

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

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From the Vice-Chancellor's Desk

Dear Readers,

Over a span of around seven years, the University has achieved several accolades at National and International level and has developed cooperation in the field of research and academics with various institutions. At the national level, the university has entered into collaboration with National Dairy Research Institute, Karnal in the areas of Dairy Technology and Animal Biotechnology and with ISF College of Pharmacy at Moga, Punjab, in ethno-medicine for developing safer and cheaper herbal products for use in animals and humans. Besides this, the university is in a continual mode of sharing dais with several International collaborators on various imminent threats and potential issues related to livestock health and food security using clean food production concept. The university has made collaboration with University of Saskatchewan, Saskatoon, Canada and Free University of Berlin, Germany to address zoonotic and environmental



concerns as "One Health" solutions to combat current and emerging diseases which are a threat to the population, animals and the environment.

Empowering farmers and entrepreneurs in the state with knowledge, information and technologies is one among the major priorities. The University extended all possible and prospective support to farmers at primary level in the areas of feeding, reproductive management and healthcare of livestock. It has passed on processing technologies of egg jam, ready-to-eat meat snacks and emu meat products to entrepreneurs. Productivity enhancement through shifting from existing semi-intensive to intensive aquaculture technology and development of genetically improved carp fishes through selective breeding are the other major focus.

The University has always vouched for transparency and stands to provide academically conducive environment to its students and faculty. This is evident from the fact that both scientists and students have earned fellowships and research projects to pursue academic excellence. In order to support growing livestock production activities and shortage of manpower in veterinary and animal science, the State Government is establishing a new Veterinary Science College at Rampura Phul, Bathinda. The new college would have 'state of art' facilities for teaching and research. I would like to thank readers for their continual patronization of the GADVASU Newsletter.

(Vijay Kumar Taneja)
Vice-Chancellor

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Trainings

- An advanced training course of 21 days on “Updates on male infertility, semen technology and quality oocyte production” was held in Department of Veterinary Gynaecology and Obstetrics, recognized as Centre of Advanced Faculty Training, in the month of September, 2013. Nineteen scientists from eight States attended the 23rd Annual training at Vet Varsity. The participants were given hands-on experiences on diagnosing and treating male infertility in cattle, buffaloes, equine, caprine, swine and canines and for production of quality embryos.



- The 26th National level advanced training course on “Cutting Edge Technologies in Diagnostic and Surgical Procedures for Veterinary Practice” by Department of Veterinary Surgery and Radiology was held under the aegis of Center of Advanced Faculty Training (CAFT). Participants were given hands-on training on the latest techniques of anesthesia, surgery and diagnostic imaging in veterinary practice like large animal fracture repair, bone plating in small and large animals, surgery of persistent right aortic arch in dogs, gas anesthesia, surgical management of reticular diaphragmatic hernia in cows and buffaloes, interlocking nailing in small animals, laparoscopy, urolithiasis in dogs and cattle and computerized radiography, ultrasonography and ultrasound guided biopsy procedures for small and large animal patients.
- A week long In-service Training Programme on “Hands on Training on Radiology” for Surgical Specialists was organized by Department of Surgery and Radiology in collaboration with Department of Veterinary and Animal Husbandry Extension Education, GADVASU, Ludhiana for Surgical Specialists of Animal Husbandry Department, Punjab. The trainees were imparted training on positioning, developing, interpretation and diagnosis of various anomalies in animals using X-ray.
- A national level training program on “Advances in Diagnosis, Therapy and Prevention of Emerging and Re-emerging Diseases of Livestock organized by Department of Veterinary Medicine, GADVASU, Ludhiana was held on October 8, 2013. Twenty five participants from 15 states of India participated in this training programme, in which hands-on training were imparted on the latest techniques of diagnosis viz. ECG, endoscopy, echocardiography and management of digestive and mineral disorders, mastitis, lameness and abdominal pain management in farm animals. The participants were also

apprised about the emerging infectious diseases responsible for decreased production and reproductive efficiency.



- Department of Veterinary and Animal Husbandry Extension Education, Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana organized two knowledge Upgradation Training Programmes for the Dairy Farmers of Uttar Pradesh, Rajasthan, Himachal Pradesh, Maharashtra and Punjab. More than fifty farmers of five States participated in these trainings. In these trainings, participants were imparted scientific knowledge about various aspects in dairy farming. Information regarding milch breeds of animals, balanced feeding of dairy animals, housing, vaccination, deworming, infertility problems, right time of insemination, clean milk production, marketing of milk and milk products were provided to the farmers.



- A five day training Programme on “Scientific Pig Management” under the auspices of “Rashtriya Krishi Vikas Yojana” was organized jointly by the Department of Livestock Production Management and the Department of Veterinary and Animal Husbandry Extension Education of Guru Angad Dev Veterinary and Animal Sciences University (GADVASU).



International Pig Seminar

Department of Veterinary and Animal Husbandry Extension Education, Guru Angad Dev Veterinary & Animal Sciences University (GADVASU), Ludhiana organized a technical seminar for pig farmers of the Punjab State. Mr Alferd Wahl, Pig expert, Polar Genetics, Canada, delivered a lecture on artificial insemination in swine and adaptability of Canadian pigs. He discussed in detail about semen collection, semen evaluation, semen handling and artificial insemination technique in swine. He stressed that by adopting artificial insemination, there can be maximum utilization of excellent germ-plasm as well as fast multiplication of the same and additionally curb the spread of various diseases such as Porcine respiratory and reproductive syndrome, Pseudorabies, Swine fever, Foot and mouth disease.



Review of DBT Project

The first Annual Review Meet of DBT Network Project on Brucellosis was held on October 29-30, 2013 at the School of Public Health & Zoonoses, Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana. The meet was presided over by Dr. V.K. Taneja, Vice Chancellor, GADVASU and chaired by Dr. N.K. Ganguly, Director-General (Retd.) ICMR, and co-chaired by Dr. V.K. Batra, Director, Defence Food Research Laboratory, Mysore. Sixteen Principal Investigators along with Co-PI's from seven different States participated in this meet.



Alumni Meet

The Alumni Meet of College of Veterinary Science was held on November 29, 2013 at Pal Auditorium, PAU. A total of 350 Alumni members attended the meet. The Chief Guest of the Alumni was Dr. K.K. Baxi, former Dean and President of the alumni association. Dr. H.S. Sandhu, Dean College of Veterinary Science and the President Alumni Association welcomed all the delegates in the Meet. A number of awards were presented to senior alumni including Dr. Balwant Singh (Founder President), Dr. P.N. Verma, Dr. R.D. Sharma, Dr. P.D. Juyal, Dr. S.K. Jand, Dr. S.S. Sidhu, Dr. G.S. Khatra, Dr. K.S. Dhillon, Dr. P.J.S. Rattan and Dr. Mehar Singh. The Bright Alumni Award winners were Major Dr. Amit Mahajan, Colonel Kapil Dev, Dr. K.S. Sandhu and Dr. A.S. Nanda.



Memorandum of Understanding

GADVASU has signed a MoU with Indo Soviet Friendship (ISF) College of Pharmacy, Moga. GADVASU a premier Veterinary University and ISF College of Pharmacy have excellent facilities including infrastructure and state of the art laboratories to deal with the research in pharmaceuticals and pharmacology. It has also been agreed to extend cooperation to each other and promote education and research in the areas of herbal medicine, nutraceuticals and nanotechnology which in turn would be in the interests of the society, particularly the farming community and livestock owners. The MoU was signed by Dr. V K Taneja, Vice Chancellor, GADVASU and Shri Janesh Garg, Secretary of ISF College of Pharmacy, Moga. This collaboration is expected to tap the potential of plant products with significant medicinal value in Punjab.



Seminars/Workshop

- **'Dairy Farming as a sustainable venture' was the theme of a special Seminar on Dairy Farming at vet varsity** in which Dr. P.K. Uppal, Advisor of Animal Husbandry to the Government of Punjab was the chief guest and S. Inderjit Singh, Director, Punjab Dairy Development Department Government of Punjab presided over the function. Dr. Uppal said that Punjab Government is stressing on dairy farming



which has become a sunshine area and is pushing very hard to promote it. Government is also providing all the facilities including subsidies, soft loans as well as education part to the adopting farmers. The seminar was attended by large number of livestock farmers including women farmers from different districts of Punjab and also by trainees of training centres of Dairy Development Board. In the seminar, A Question-Answer session was also organized where queries of farmers were dealt with.

- **S. Gulzar Singh Ranike, Hon'ble Cabinet Minister for Animal Husbandry, Fisheries and Dairy Development, Government of Punjab inaugurated one day Dairy Seminar at vet varsity on 'Innovations in Dairy Farming'** with special emphasis on new techniques adopted by Israel in this profession. S. Ranike reaffirmed the commitment of Government to develop dairy in Punjab in the context of diversification and better economic growth. He said that reproduction disorders, value addition of products and adoption of modern techniques are the major issues to be addressed. Dr. V.K. Taneja, Vice-Chancellor was the guest of honour. Dr. Taneja said that varsity is working in close tandem with the Dairy Department which makes the transfer of technology to the field easy. He said that university is addressing the problems of livestock sector which come in our knowledge from field staff. S. Inderjit Singh, Director, Punjab Dairy Development Board in the key note address explained the background and purpose of the seminar.



- **Dairy and Fisheries Officers Workshop:** Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana organized a one day workshop for Dairy and Fisheries Officers of the State on August 12, 2013. Dr. G. Vajralingam, Financial Commissioner, Animal Husbandry, Dairy and Fisheries was the chief guest.
- **Poultry Training:** Forty two participants attended the two weeks poultry training course at GADVASU. The complete capsule training programme on poultry was provided to the trainees on all aspects starting from selection of land, housing design, poultry management, feeding management of poultry birds, control of various diseases and vaccination schedule, handling of eggs, marketing of poultry birds including preparation of project report and loan facilities etc.



Student Achievements

Ms Pallavi attended ZIBI Summer School at Humboldt University, Zu Berlin, Germany which was organized by Universität zu Berlin, ZIBI and Dr. Baljeet Singh Professor and Associate Dean at Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Canada. Ms Pallvi is presently pursuing her PhD programme at School of Animal Biotechnology, GADVASU, Ludhiana for CREATE ITrAP- International Training Program in Infectious diseases, food safety and public policy funded by Canadian Natural Science and Engineering Research Council, Canada as per the MOU between Guru Angad Dev Veterinary and Animal Sciences University (GADVASU) and University of Saskatchewan. Ms Pallavi presented a research article entitled "Microsatellite based Polymorphism in Japanese Quails" and attended practical course on Fluorescence in-situ hybridization during the ZIBI Summer School.

New Research Projects sanctioned

- **DST Project:** The Department of Biotechnology, New Delhi sanctioned a project on Brain fever to the tune of Rs 45.16 lacs to Dr. Niraj K. Singh, Assistant Scientist. The research project titled “Development of virus-like particle (VLP) of Japanese encephalitis virus as a potential vaccine candidate”.
- **DST Infrastructure Development Project:** The Department of Veterinary Medicine, Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana has been awarded with a prestigious Infrastructure Development Project worth Rs. 45 lacs under FIST (Funds for Improvement of Science and Technology Infrastructure in Higher Educational Institutions) programme of Department of Science & Technology, Government of India. Dr. B.K. Bansal, Head of the department informed that funds will be utilized for purchasing large animal endoscope and molecular diagnostic equipment.



Prize Distribution Function

Annual prize distribution function was organized at College of Fisheries, Guru Angad Dev Veterinary & Animal Sciences University to recognize academic and co-curricular achievements of the students for the academic year 2012-13. Students of 2nd, 3rd and 4th year B.F.Sc. degree programme, who secured highest marks and high percentage of attendance at the end of their 2nd, 4th & 6th Semester. The students were awarded with cash prize and a certificate of honour. Students were also felicitated for the laurels they brought to the college in various inter-college and inter-varsity NSS, cultural and sports activities. Amongst the B.F.Sc. Students, Ms. Gulgul Singh (B.F.Sc. II year) was crowned with the 'Best Student of the Year Award' (2012-13) owing to her outstanding achievements in academics and various cultural as well as sports field. The significant contributions made by other workers of the dually college were also acknowledged.



International Conferences

- Dr. Raj Sukhbir Singh, Assistant Scientist at TVCC, attended the “15th International Conference on Production Diseases in Farm Animals” recently held at Swedish Agricultural University, Uppsala, Sweden.
- Dr. Mandeep Singh Bal, Assistant Scientist, Department of Veterinary Parasitology, attended the 24th International Conference of World Association of Veterinary Parasitology (WAAVP-2013) held at Perth, Western Australia. Dr. Bal was granted International travel grant from the Department of Science and Technology (DST), Government of India and from GADVASU for attending the conference.



Kudos for State Awards

Three dignitaries associated with Guru Angad Dev Veterinary & Animal Sciences University got State Awards. These personalities include Sh. Sukhharpreet Singh, Sh. Jyoti Saroop and Smt. Veena Sharma.

- Sh. Sukhharpreet Singh, a progressive Dairy Farmer, is a member of Board of Management of Vet varsity.
- Sh. Jyoti Saroop is manager of The UNATI Co-operative Marketing-Cum-Processing Ltd, village Batoli, Talwara.
- Smt. Veena Sharma is president of Sada Shiv Modern Self-Help Group (SSM SHG) which was formed in the year 2003 with 36 village women with the primary objective of providing gainful employment to women. This SHG is also associated with NAIP.

Enterprising with Transfer of Technology

Department of Livestock Products Technology in College of Veterinary Science, Guru Angad Dev Veterinary & Animal Sciences University has developed and transferred three main technologies to budding entrepreneurs.

- Processing technology of the Egg Jam, prepared from eggs as base materials, offers a nutritive alternative to existing fruit jams in the market and have protein content of 16-18% in comparison to 2-4% in fruit jams. This technology has been transferred for manufacturing and marketing to Dr M.L. Kansal, M/s Kansal and Kansal Agro Farms, G.T. Road, Kohand, District Karnal for Rs 100,000/- on single user basis.
- Second technology of Ready-to-eat Meat Snacks products such as meat cutlets, meat croquette, meat samosa has been transferred to S. Balwinder Singh, P.P. Chicken Corner, Dashmesh Nagar, Moga on multiple user basis for Rs 30,000/-.
- Third processing technology of the development of Emu Meat Products such as pickle, burger patties, nuggets, balls/koftas has been transferred to S Gurpreet Singh Emu farming and Research Private Limited, Bhatinda and S. Balihar Durka, Chief Financial Services Pvt. Ltd., Shaheed Bhagat Singh Nagar (Nawanshahar) for Rs 30,000/- each.

Academics

Varsity courses drew huge number of aspirants

GADVASU holds CET-2013: Guru Angad Dev and Veterinary and Animal Sciences University conducted the Combined Entrance Test (CET) for admission to B.V.Sc. & A. H., B.F.Sc. and B.Tech. (Dairy Technology) programmes. A total of 2575 candidates applied for admission to these courses, out of which 2252 candidates (1375 boys and 877 girls) appeared in the entrance test. Heavy rush both at UG and PG level for admission to various Programmes was noticed.



'SAYING NO TO RAGGING'

The University has issued necessary instructions to prohibit and eliminate the scourge of ragging. Registrar, GADVASU, Dr. P.D. Juyal informed that all the constituent colleges of the University have made Anti-ragging Committees and Anti-ragging Squads as desired by the Hon'ble Supreme Court of India. GADVASU is strictly following the preventive measures for Anti-ragging outlined by the University Grants Commission. The Committees and Squads of Colleges have been displayed on the website of the University. Dr. S.P.S. Sangha, DSW-cum-Estate Officer, GADVASU stated that the University has uploaded the film on anti-ragging on its website. Anti-ragging posters and charts have been displayed at different places of students gathering. He said that the Punjab Government has also stressed to prevent ragging through the implementation of Punjab Education Institutions (Prohibition of Ragging) Act, 2013 (Punjab Act No. 22 of 2013).



NCC and NSS Activities

- **NCC Week was organized at GADVASU** under the aegis of 1 Punjab R&V SQN NCC during 2nd week of November with fervor and enthusiasm. A number of activities were organized to motivate the youth in service of the nation.
 - **Five NSS volunteers of GADVASU participated in Pre-Republic Day Parade Camp** at Shaheed Udham Singh College of Engineering and Technology, Tangori, Mohali (Punjab).
- **NSS volunteers of GADVASU participated in JMI Cycle-Rally-2013** on the theme "Building India Safe for Women". The Rally started on November 9-25, 2013 from Srinagar to New Delhi was organized by Jamia Millia Islamia University and Ministry of Youth Affairs and Sports (NSS), New Delhi.
- **NSS unit of GADVASU organizes awareness campaign, sapling plantation and cleanliness drive in adopted villages.** In this campaign, more than 140 NSS volunteers and students held an awareness drive for sapling plantation and cleanliness in adopted villages at Ayali Khurd, Ayali Gurudwara Sahib and Dashmesh Nagar, Ludhiana. All NSS volunteers/students of GADVASU participated in cleanliness exercise with full enthusiasm to make the programme a success.
- **Sixty students participated in awareness campaign in collaboration with Society for Conservation of Flora and Fauna (SCFF) for "World AIDS Day"** and participated in seminar on the topic "Getting to Zero – Zero New Infections, Zero Discrimination and Zero AIDS Related Deaths". Student volunteers in the campus took collective pledge to fight against HIV/AIDS in the society and envisaged to organize many such campaign/rallies during the month of December every year.



Pashu Palan Melas

The 15th Pashu Palan Mela of Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana was held on September 13-14, 2013 with slogan “*Kheti Vibhinnta da eh uttam badal, Chitey, neeley inqlab nu karo safal*” (The best option of agriculture diversification is to develop livestock and fishery professions). The message to the farmers was to develop livestock farming as an impressive and effective option of diversification. Dr. G.S. Kalkat, Chairman, Farmers Commission of Punjab was the Chief Guest. The chief guest said that Pashu Palan Mela is a good platform to meet the experts of different animal husbandry departments of state, scientists of university, technical experts of different companies and financial institutions collectively. Dr. B.S. Dhillon, Vice-chancellor, PAU also visited the mela. The mela attracted a huge gathering with a thought to develop livestock professions on modern terms. University publications entitled Dairy Farming, Package of Practices, University Diary and Calendar were widely sold during mela. A total of 200 farmers registered their name for monthly magazine, Vigyanak Pashu Palan.

Third Regional Pashu Palan/Kheti Mela was organized by GADVASU at Regional Research and Training Centre, Bhatoli (Talwara) for the development and dissemination of the area specific technologies related to livestock farming and agriculture of the Kandi area.



Best Poster Award for Fishery Scientist

Dr. Ajeet Singh, Assistant Professor, Department of Harvest and Post Harvest Technology, College of Fisheries, Guru Angad Dev Veterinary & Animal Sciences University, Ludhiana attended the National Conference on “Bioactive Compounds and Functional Foods in Health and Disease Management” (BFHDM-2013) held at National Institute of Food Technology Entrepreneurship and Management (NIFTEM), Kundli, Sonapat (Haryana). The research paper entitled “Nutritional significance of gelatin prepared from rohu (*Labeo rohita*) waste”, authored by Dr. Ajeet Singh was adjudged the best in Poster category.



Faculty Awards

Dr Digvijay Singh, Professor & Head, Department of Veterinary Physiology and Biochemistry has been honoured with Dr D.N. Mullick Memorial Award for his scientific contribution and outstanding performance in the field of animal physiology at XXII Annual Conference of Society of Animal Physiologists of India (SAPI) held at Uttar Pradesh Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan, Mathura (DUVASU), Mathura.

Extra Curricular Activities

Of swings and the songs!!

Veterinary University organized the 4th "Teean Teej Dian" Function on August 15, 2013. Guru Angad Dev Veterinary & Animal Sciences University always remains in forefront to inculcate cultural values in the students to promote the heritage for social cause. To fulfill this motive, the University



celebrated the "Teean Teej Dian", the important festival of Sawan month. Different competitions of Punjabi dress, Gidha, Mehndi, High Swing, Long hair tail, marriage songs, etc were organized.

New Veterinary College at Rampura Phul, Bhatinda

Guru Angad Dev Veterinary & Animal Sciences University is establishing a New Veterinary College at Rampura Phul in District Bathinda. The Government of Punjab has given approval for the establishment of the new college as one of the constituent colleges of GADVASU.

Empowering women through Extension Activities

Women may reap more prosperity in the livestock and agriculture sector as they are important and integral part of physical and economic strength of our society and there is dire need to develop them as entrepreneurs, opined Dr. V.K. Taneja, Vice-Chancellor. Their vital contribution can develop more positive and new horizons in the society. Dr. Taneja explained the crucial role of women in livestock and agriculture sector with future perspective at village Ramgarh Sikri, Talwara. Free of cost training programmes in different livestock professions and value additions are being imparted for women in university.

Dr. A.L. Saini, Director of Regional Research and Training Centre, Bhatoli (Talwara) said that a large number of beneficiaries also visited Mela. Two groups of 10 and 5 farm women were given training in 'Natural Vinegar Preparation' and 'Alcohol Free Self Carbonated Beverage Preparation'. Exhibits were put by Krishi Vigyan Kendra Hoshiarpur of Punjab Agricultural University, Ludhiana, Dairy Development Department, Department of Fishery and Unati cooperative.



Youth Festival

A week long inter-college Youth Festival was held at Vet. Varsity. All the constituent and affiliated colleges of the university participated in the Youth Festival and students won laurels in various co-curricular activities. On concluding day Sh.Rahul Tewari IAS, Commissioner of Municipal Corporation, Ludhiana was the Chief Guest.



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