



W B U A F S

NEWS LETTER



WEST BENGAL UNIVERSITY OF ANIMAL & FISHERY SCIENCES Vol.7 No.1, December, 2015

FROM THE VICE CHANCELLOR'S DESK



It gives me immense pleasure to present the News Letter of the West Bengal University of Animal &

Fishery Sciences highlighting the principal and important activities of the University and various achievements made during the period from January 2015 to December, 2015. It is now a well established fact that the livestock and fishery sectors play a crucial role for building the nation by providing 1st class protein food to the human population and more specifically to the children for their optimum growth. Simultaneously it also helps to provide an alternative livelihood to the farmers and producers and is an important chain in sustainable agricultural production system for the small and marginal farmers and landless labourers of the country. Our University has been established with an objective to churn out quality and trained manpower in the fields of Veterinary and Animal Sciences, Fishery

Sciences and Dairy Technology. The University has developed modern infrastructure in its Campuses and created a good academic environment. The Research and Extension teams of the University are working amongst the most downtrodden farmers in the remote areas for improving livestock, poultry and fish productions and skill development of human resources.

I believe that the News Letter will help to disseminate important events occurred during the period. On the occasion of the publication of the present issue of the University newsletter. I congratulate the entire team involved in this work.

Prof. Purnendu Biswas
Vice Chancellor

INAUGURATION OF UNIVERSITY GUEST HOUSE

The University has renovated a guest house 'Mohini' at Mohanpur to cater the need of residential facilities of the guests at Mohanpur. The Hon'ble MoS (IC), ARD, Sri Swapan Debnath inaugurated the

guest house on 6th October 2015 in presence of Sri Ujjal Biswas Minister Technical Education, Sri Bani Singh Roy Sabhadhipati, Nadia, Sri Rajesh Sinha, Secretary, ARD and other dignitaries. Hon'ble Vice Chancellor Pof. P. Biswas was presided the function. Registrar Prof. A. K. Samanta and other University officials, teachers, staff and students were also present in this occasion.



Inauguration of University Guest House "Mohini" on 6.10.2015
by Hon'ble MoS (IC), ARD



Renovated University Guest House "Mohini" at Mohanpur Campus

FROM THE DESK OF THE EDITOR



The present Newsletter for 2015, contains the salient achievements of various activities carried out by the University in the fulfilment of its aim and objectives concerning teaching, research and extension education in Veterinary Sciences, Fishery Sciences and Dairy Technology. During last twenty years, this University has played a leading role in

imparting quality education and producing good number of Veterinary, Fishery & Dairy Technology graduates from the respective faculties. Many of them have also undergone higher studies also from this University and attained achievements in the professional fields. Currently, the University is running about fifty numbers of externally funded research projects. The three Krishi Vigyan Kendras under the aegis of the University are actively engaged in different extension programmes and are helping in disseminating the latest technologies generated by the University for improvement of production in Animal Husbandry, Dairy and Fishery sectors. I hope this Newsletter would be helpful in giving out information on various academic, research and extension activities of the University. Constructive criticisms and feedback from interested concerns are invited. This would make the publication worthwhile and more purposeful for the targeted readers.

The inspiration and guidance received from Hon'ble Vice-Chancellor Prof. P. Biswas is praiseworthy for timely successive publication of such Newsletter from the Directorate.

Prof. Subhasish Biswas

Prof. Subhasish Biswas
Director of Research, Extension & Farms

INTRODUCTION OF SHORT TERM CERTIFICATE COURSES

The Executive Council of the University in its 82nd meeting has approved the following certificate and diploma courses on self-finance basis to create trained manpower in the Veterinary, Fisheries and Dairy sectors. The courses may start from next academic year (2016-17).

A. Certificate courses (3months duration)

1. Artificial Insemination (AI) and management of infertility in Crossbred Cattle
2. Poultry Hatchery Management and Commercial poultry rearing
3. Small animal first aid including basic rearing practises
4. Veterinary laboratory techniques
5. Clean milk production and indigenous dairy product processing
6. Ornamental Fish Farming
7. Hands on Training on fish diseases and prophylaxis
8. Food safety and value added products from livestock, fish & milk
9. Aqua clinic

B. Diploma course (1 year duration)

1. Agri-business management in livestock and fishery.

C. Studies on Environment

In all the 3 Faculties, Study on Environment has been introduced in the syllabus of 1st year as Non-Credit Course from 2015-16 Academic year as per the UGC guidelines.

SPECIAL HONOURS/AWARDS

• **Prof. P. Biswas, Hon'ble Vice-Chancellor Received LIFE TIME ACHIEVEMENT Award** instituted by CLFMA of Indian Association of Livestock Industry, Mumbai during their 57th National Symposium held at Jaipur, Rajasthan on 10-11th September, 2015 for his outstanding research activities in the field of Animal Nutrition. The award was conferred on him by the Hon'ble Chief Minister of Rajasthan Smt. Basundhara Raju Sindhia.



Hon'ble V.C. receiving Life Time Achievement Award from Smt. Basundhara Raju Sindhia

- Dr. A.K.Patra, Dptt. Of Animal Nutrition, received Associateship from National Academy of Agricultural Science, India.
- Dr. Aruna Pal, Deptt. of ILFC received Biocare Award from Deptt. of Biotechnology, Ministry of Science & Technology, GOI.

VISIT OF THE DIGNITARIES

The President of Veterinary Council of India Dr. Umesh Chandra Sharma visited the Mohanpur Campus of the University on 30th June, 2015 with Dr Ravinder Kumar Sherawat, representative of VCI at Executive Council of the University. Hon'ble Vice-Chancellor and other University officials.

During his visit he exchanged his ideas on recent trend of Veterinary Education in the country with the Faculty members and students accompanied them.



Dr. U. C. Sharma, President of VCI addressing the Faculty members during his visit at Mohanpur.

STUDENTS' ACTIVITIES

• Academic excellence

A good number of students from different faculties have qualified the ICAR NET Exam. From Veterinary Faculty, 15 students in PG and 8 in Ph.D, from Faculty of DT 13 students in PG and 1 in Ph. D and from Faculty of Fishery Scs., 5 in P.G. and 4 in Ph. D. have been qualified.

• NSS Camp

University has organised different Animal Health Camp in different part of West Bengal through NSS. In the recent year 5 number of NSS Camps have been organised in different districts including Paschim Midnapore and Burdwan District. A large number of students have participated in the NSS Camp and took part in Animal Health Care and Teachers and officers have also took part in these programmes.



Students are treating animals during a NSS Camp

- Students participating in **SAPI Quiz Programme** at Mohanpur Auditorium on 14th October, 2015.



- **World Yoga Day Celebration** : First International Yoga Day was celebrated in WBUAFS on 21st June, 2015
- **Swachh Bharat Avijan** was organised on 2nd October, 2015 in WBUAFS at Belgachia Campus.
- **Essay competition on Life and Works of Thiruvalluvar** : As per the directives of UGC, Prof TJ Abraham, Prof, Deptt of Aquatic Animal Health has been assigned to organise an essay competition in English among the students of University on the life and works of celebrated Tamil poet and philosopher Shri Thiruvalluvar.

FACULTY NEWS

- Faculty of Dairy Technology, West Bengal University of Animal & Fishery Sciences organized one day Seminar on, 'Food Safety Regulation in Dairy Industry' at Mohanpur Campus on 17th October, 2015 at Seminar hall of the Faculty Building. A large number of scientists from various Dairy Science Institutes, teachers, students, entrepreneurs and others associated with the Dairy Processing activities from industry and institutions attended the seminar, and discuss the different ways and means to expand the horizon of food safety on milk and milk products in India. Prof. PBiswas, Hon'ble Vice Chancellor, WBUAFS was present and presided over the function. Sri Parash Dutta, Hon'ble Chairman, West Bengal Co-operative Milk Producers' Federation Limited inaugurated the seminar as Chief Guest.



Seminar on, 'Food Safety Regulation in Dairy Industry'

A "workshop cum Scientists' Dairy Industry Partners' Meet on Commercialization of Dairying through Production and Traditional Processing" has been organized jointly by Eastern Regional Station of National Dairy Research Institute, and Faculty of Dairy Technology, West Bengal University of Animal & Fishery Sciences at ERS of NDRI on 12th December, 2015. Prof. P.Biswas, Hon'ble Vice Chancellor, WBUAFS was present and presided over the function. Prof. A.K.Chakravarty, Hon'ble Vice Chancellor, BCKV was present as Chief Guest. Dr. R.K.Malik, Joint Director, NDRI, Karnal, Dr. A.K.Bandopadhyay, Chairman, IDA(EZ), Dr.T.K.Dutta, Head, ERS of NDRI and Dr. T.K.Maiti, Dean, Faculty of Dairy Technology were also present on the occasion and deliver their valuable speech on various aspect of milk production and processing.



"Workshop cum Scientists' Dairy Industry Partners' Meet"

• Fish Disease Diagnostic Laboratory, at Faculty/Fishery Sciences, Chakgaria

Fish disease diagnostic lab. has been established in the F/Fishery Sciences, under NAE-project of Prof. T. J. Abraham.

The laboratory provides the following services:

- Fish disease diagnosis
- Fish health advisory services
- Consultancy services
- Training on fish health and would be functioning shortly



The fish disease diagnostic laboratory

RESEARCH FOCUS

• AICRP on Goat Improvement, Black Bengal Field Unit, Kolkata.

AICRP on Goat Improvement, Black Bengal Field Unit is now operating in 4 clusters distributed in four districts (South 24 Parganas, Nadia, Murshidabad and West Midnapur), covering 821 nos. of registered goats from 458 farmers. We have conducted 8 nos. of health cum deworming camp and 3 nos. of training programme during the period from 1st January 2015 to 30th June 2015 including breeding with superior males and improvement of germ plasma.

Moreover during April 2015 survey was conducted at Sidhabari village (Model village adopted by Hon'ble MOS to Government of India Sri Babool Supriyo) and the plan was submitted of Goat Development for the area to MOS.



Dignitaries in a programme



Black Bengal goat in Farmers's flock (Field Unit)

• Incidence of Cyprinid herpesvirus 2 infection in goldfish, *Carrasius auratus*

During the late rainy season in August 2013, large scale mortalities in ornamental goldfish, *Carrasius auratus* in farms of Hooghly district were reported by the Fishery Extension Officers of Department of Fisheries, Government of West Bengal to the Faculty of Fishery Sciences, Kolkata. The cumulative mortalities were in the range of 70 – 90%. Laboratory analysis revealed association of motile *Aeromonas* spp. along with *Microcystis* intoxication. Subsequently, in November 2014 mass mortalities of goldfish in few ponds were reported in the same locality. The affected farm was culturing goldfish, koi carp and barbs along with Indian Major Carps (IMC). a team consisting members from ICAR-CIFA, Bhubaneshwar, ICAR-NBFGR, Lucknow and FFSc, WBUAFS, Kolkata visited the farms, made on-site observations and collected samples for laboratory analysis. However, when infected fish are subjected to stress such as a temperature change, there is a greater probability of disease outbreaks. Outbreaks of CyHV 2 disease are restricted to goldfish, occur when water temperatures are between 15°C and 25°C, and result in up to 100% mortality. CyHV 2 cause disease only in



Dept. of Vety. Physiology took initiative to develop and validate the non-invasive ultrasonographic technique to study bovine udder in relation to udder health

goldfish *Carassius auratus auratus* and was first reported in juvenile goldfish in Japan in the spring and autumn of 1992 and the spring of 1993 and later in Australia, Taiwan and the USA. CyHV 2 has not been reported earlier in India. This is the first report to describe CyHV 2 infection in goldfish from India.

The department of Veterinary Physiology has been associated with multidisciplinary research activities with the other departments in the University as well as other institutions viz. IVRI and NDRI.

• Niche Area of Excellence on Animal Disease Registry & Tissue Bank

Prevalence of canine babesiosis and ehrlichiosis/anaplasmosis in West Bengal:

Based on microscopic detection of the parasite/ rickettsia: : Microscopic examination of blood smears of 158 dogs from Kolkata & its suburbs (105) and other districts (53), referred from the university dog ward/ qualified veterinarians, detected 24.68 per cent overall incidence (Male-12.01% & Female- 12.665%) of Ehrlichia species, 59.49 percent (M-31.65% & F- 27.88%) of Babesia species (predominantly small form).

Studies on paratuberculosis (Johne's disease) : Work has been initiated to explore the actual disease status in clinically suspected animals. In East Medinipur district, 10 out the 25 clinically suspected cattle were positive for paratuberculosis based on microscopic detected of the acid-fast bacilli.



• ICAR Sponsored Outreach Programme on Zoonotic Diseases :

"Dermatophytosis and Cryptococcosis in Animals and Their Public Health Importance"

Cryptococcosis:

A total of 50 CSF samples from HIV positive patients were collected from Jawaharlal Nehru Medical College



Patients in the outdoor

and Hospital Bhagalpur, Bihar during the period.

Among the 50 patients 9 were suffering with severe problems and died within a few days after sample collection. All those 9 samples were latter diagnosed as positive for *C. neoformans* and retrospective study revealed presence of household pigeons in the patients' house or in neighboring houses. The study, thus, shows *C. neoformans* infection is a major cause of death due to HIV associated secondary infection in the study area also.

• New Research Projects Received:

- RKVY on "Extension of Animal Health Care Service in Remote areas of West Bengal through Mobile Veterinary Clinic (MVC)" started at 11 blocks of Pashchim Medinipur District. P.I. Dr. P.S. Jana, Deptt. of VEPM, F/ VAS. Funded by Deptt. of ARD, Govt. of W.B. Rs. 5 crores (approx.).
- AINP on Mariculture- ICAR funded project started. P.I. Prof. B.K. Das, Deptt. of AEM, F/Fish, Scs. Fund Rs. 63.5 lakh.
- AINP on "Fish Health" funded by ICAR. P.I. Prof. T.J. Abraham, Deptt. of AAH, F/F.Sc.
- DST Govt. of W.B.funded project "New Dimension in Agriculture Marketing and rural employment generation through value added duck meat products." P.I. Prof. S. Biswas, Deptt. of LPT, F/VAS. Fund Rs. 17.12 lakh.
- Fish Feed Trial is going on at Mohanpur Fish Farm under DREF.

OTHER NEWS

• A **symposium** was organized by the Directorate of Research, Extension & Farms, WBUAFS in collaboration with All India Radio, Kolkata on 24th June, 2015 at VCI auditorium. The event was inaugurated by the Vice- Chancellor Prof. P. Biswas in presence of Smt. S. Mondal, DDG (Programme), AIR, Kolkata. A panel discussion, led by Prof. S. Biswas, Dr. A. Paul and Prof. A. Goswami, was held on judicial interactions of Scientists and Farmers in favour of accelerated food production. A good number of students from different colleges and Universities were participated in a debate on the topic related to application of innovative agri-technology in India.



Hon'ble Vice-Chancellor addressing in the programme.

"Briksharopan"

utsab was organized in the Belgachia Campus of the University in collaboration with Deptt. of Forest, Govt. of West Bengal, where trees were planted by Hon'ble Vice-Chancellor and other Officials of the University in presence of Mrs. Mala Saha, Hon'ble member of E.C. and MLA, W.B.



Hon'ble V.C. is planting a tree in the occasion of Briksharopan.

The mobile Veterinary Clinical Service is one of the flagship projects under the University with assistance of ARD, Govt. of West Bengal and inclined to extend veterinary services at the doorsteps of the poor, livestock raisers of remotest areas of Jungle Mahal to optimize livestock productivity and sustainable livelihood development.



Inauguration of Mobile Veterinary Clinic Service in 11 Blocks of Pashchim Medinipur on 21st August, 2015 in the Office Campus of Deputy Director & PO, ARD, Pashchim Medinipur

The service was inaugurated by Hon'ble MOS, ARD Hon'ble (IC), in presence of Sabhadhipati, Vice-Chancellor, WBUAFS, Secretary, ARD, MLAs, Members of the Zilla Parishad and other local bodies of the district. The programme was also attended by Secretary, West Bengal Poultry Federation (Member of the Executive Council, WBUAFS), the BLDOs of the concerned Blocks and other officials of the University and ARD.

EXTENSION HIGHLIGHTS

News from Krishi Vigyan Kendras

• Activities of North 24 Parganas KVK

At the beginning of this year North 24 Parganas Krishi Vigyan Kendra has adopted one Tribal populated village named 'Tipligheri' in Sandeshkhali-II block of this district. Around 120 tribal families of this village were taken under "Tribal Sub Plan" scheme and given training and distributed several agricultural implements like seed bin, sprayer etc. and livestock inputs like Black Bengal goats, Garole sheep, backyard poultry chicks etc. This KVK organised 'Technology Week cum Krishi Mela, 2015' from 24th to 26th March and in the inaugural programme Hon'ble Vice Chancellor, WBUAFS, MLA, Ashokenagar, DREF, WBUAFS and other dignitaries were present and also organised one day 'Kisan Mela' on 26th March sponsored by ICAR. The KVK organised one residential training programme in collaboration with the Coconut Development Board, Govt. of India from 2nd to 7th February, 2015 on "Friends of Coconut Tree" with 25 no. of participants and each of them was given one machine to climb coconut tree safely after completion of the training. This KVK also organised 5 days duration training programme on "Integrated training programme for the farmers of Sundarban area" in the month of May, 2015 and 36 nos. of farmers were participated. KVK has also organised 22 no. of on and off campus training covering 732 no. of farmers and undertaking 10 no. of OFTs and 10 no. of FLDs in different adoptive villages and 145 Short Message Service helping 91839 farmers of this district. 6 Health cum Vaccination camps with more than 750 animals were organised in different villages.

SAC Meeting, North 24 Parganas KVK, Ashokenagar was held on 24th February, 2015.



Programmes in Asokenagar KVK, North 24 Pgs.

• Activities of Ramsai KVK, Jalpaiguri

Jalpaiguri Krishi Vigyan Kendra had celebrated the World Environment Day on 5th June, 2015 at Charaimahal, the tribal village adopted under TSP programme under Ramshai Gram panchayet of Maynaguri block.

MERA GAON MERA GOURAV has been implemented in the adopted villages of Maynaguri and Malbazar Block. A programme was organized in collaboration with Forest Department, Ramshai Range on celebration of Aranya Saptaha (14th July to 20th July) at KVK premises and Off Campus distribution programme of planting materials at the TSP and surrounding villages on and from 14th July to 17th July, 2015.



Kisan Sammelan at Ramsai KVK

SAC Meeting, Jalpaiguri KVK, Ramsai was held on 13th February, 2015.

Jalpaiguri Krishi Vigyan Kendra had successfully organised the one day KISHAN SAMMELAN 2015 with special emphasis on the theme of "Healthy soil for healthy life" at the KVK premises on 30th September, 2015 with participants of 435 nos. of practicing farmers / farm women, rural youth, farmers' club members, representatives of the NGO and peoples from different villages/ specially Tribal village under Tribal Sub Plan were participated in the programme. This mega event is sponsored by the Director, ICAR-Agricultural Technology Application Research Institute (ATARI). Mr. Bijoy Chandra Barman, Hon' ble Member of Parliament, Jalpaiguri, Mr. Ananta Deb Adhikary, Hon'ble Member of Legislative Assembly & other dignaries were present in the occasion.

• Activities of Murshidabad KVK

Murshidabad Krishi Vigyan Kendra had successfully organised the KISHAN SAMMELAN 2015 on 28-29th August at the KVK premises. A training programme was organized by the KVK sponsored by NABARD. A farmers' Club was recently inaugurated by the Programme Coordinator, KVK. SMS of the KVK and other staff were present in the occasion.



DREF delivering speech in inauguration of Kisan Sammelan at Murshidabad KVK

Other Activities of the University

• Seminar Organized:

The e-learning portal on Agricultural Education has been introduced at WBUAFS through a seminar organized by NISAGENET Cell under DREF, WBUAFS. The one-day seminar was organised on 21st January, 2015. Dr. R.C. Goyal, Emeritus Scientist, (IASRI), ICAR (New Delhi), was the Key-speaker. Hon'ble Vice-Chancellor, Prof. P. Biswas was the president of the session. The whole program was organized under the active guidance of Prof. Subhasis Biswas, the Director of Research, Extension & Farms, WBUAFS. Students, Research Scholars and Teachers took part in the interactive seminar and got an exposure to this new mechanism of learning and gaining knowledge thru' the global media. The NISAGENET team of DREF, all officers & staff of DREF gave their best effort to make the seminar success.



Inauguration of the Seminar on e-Krishisiksha

• University becomes the training Partner of ASCI

A Memorandum of Understanding (MoU) has been signed between the University and Agriculture Skill Council of India (ASCI) to conduct short term skill based training programmes, train the trainer programmes and create skill development centres for training and capacity building across various segments of Animal Husbandry, fishery and dairy sciences. ASCI functions under the aegis of National Skill Development Corporation (NSDC), Ministry of Skill Development & Entrepreneurship, Government of India. First such ASCI sponsored train the trainer programme was held on Dairy Farming during 28th September to 1st October, 2015. Hon'ble Vice Chancellor, Prof. P. Biswas inaugurated programme and presided over the inaugural function. Brig Narender Singh, Executive Director, ASCI attended the function as "Chief Guest". Prof. A. K. Samanta, Registrar, Prof. S. Biswas, Director of Research, Extension and Farms, Dr. D. Chattopadhyay, Former Principal, Eastern Regional Demonstration and Training Centre, NDDB also graced the occasion. Total 22 participants from the states of West Bengal, Bihar and Odisha attended the programme.



Dignitaries on the dias during the inauguration of 'Train the trainers' prog.

• Participation in Mela

The University participated in Bengal Fish Fest 2015 held during 18th -20th December, 2015 at Nalban Food Park, Kolkata. The University had put up an exhibition stall where academic, research and extension activities in fishery sciences were highlighted. The festival was organised jointly by Department of Fisheries, Govt. of West Bengal and Indian Chamber of Commerce. The aim was to address the current issues and look forward towards prospective investment opportunities in the fisheries sector of West Bengal along with the promotion of various fish cuisines.



Mr. Chandra Nath Sinha, Hon'ble MIC of Fisheries, Govt. of West Bengal visiting the University stall in Bengal Fish Fest, 2015 at Nalban Food Park, Kolkata on 18.12.2015

The University has took part in 19th Jatiya Prani Sampad Saptah celebration held at Hatgovindapur, Burdwan during 19th to 21st November, 2015 organised by Deptt. of ARD, Govt. of West Bengal. Hon'ble MoS (IC), ARD, Sri Swapan Debnath and other dignitaries visited the University stall.



Mr. Swapan Debnath,
Hon'ble MoS (IC),
Deptt. of ARD,
in the 19th National
Animal Resource
Development Week
Celebration at
Hatgovindapur,
Burdwan

• Participation in Agri-Horti Food Fest -2015

The University had put up an exhibition stall at Agri-Horti Food Fest-2015 held at Netaji Indoor Stadium, Kolkata during 26th - 28th February, 2015. The festival was jointly organized by the Indian Chamber of Commerce and the Department of Agriculture & Department of Food Processing, Industries & Horticulture, Government of West Bengal. University's publications and research highlights were exhibited. The exhibition was inaugurated by Mr. Krishnendu Narayan Chowdhury, minister of food processing and horticulture, Govt. of West Bengal.



University Stall at Agri-horti food fest, 2015.

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