



AAU

NEWSLETTER

Volume : 11

No. : 3

Oct.-Dec. - 2014

Publication of Anand Agricultural University

PATRON

Dr. N. C. Patel
Vice-Chancellor

EDITORIAL BOARD

Dr. K. B. Kathiria
Chairman

Dr. P. P. Patel
Vice Chairman

Members

Dr. K. P. Patel
Dr. A. M. Thaker
Dr. B. P. Shah
Dr. D. C. Joshi
Dr. P. R. Vaishnav
Dr. V. R. Boghra (Member Sec.)

Editors

Dr. N. V. Soni
Dr. V.V. Ushabala

Quarterly Newsletter

Published by
The Directorate of Extension Education
Anand Agricultural University
Anand - 388 110
E-mail : aaunews@aaui.in

For Office Use Only



From the Vice Chancellor's Desk

I take an opportunity to highlight the research endeavours of Anand Agricultural University and extend my congratulations to Microbiologist team for development of a new bio product "Anubhav Bio-NPK consortium". This formulation is developed and scaled up at Department of Agricultural Microbiology, B. A. College of Agriculture which is engaged in research and development on indigenous agriculturally beneficial microbes over decades. Bio-NPK product is congregate of five native bacterial cultures viz. Azotobacter chroococcum, Azospirillum lipoferum and three Bacillus spp. having multiple utility as biofertilizer cum biopesticide for crops.

Product is investigated with the financial support of Department of Biotechnology, New Delhi and Indian Patent was filed vide No. 1060/DEL/2013 and now published on December 12, 2014. This is all in one Biofertilizer consortium, the key




remedy for reducing 25 per cent of macronutrients (NPK) requirement of the crops with an additional benefit of 10-15 per cent increase in yield for eco-friendly management of diseases caused by phytopathogenic fungi and nematodes. This innovative farming technology (IFT) has also received prestigious National Award, *Mahindra Krishi Shiksha Samman*, 2013.

Recently, this liquid biofertilizer consortium was launched inaugural ceremony of *Rabi Krushi-Mahotsav*, 2014 at Botad on 11 December 2014 by Hon. Chief Minister of Gujarat, Smt. Anandiben Patel for farmers. She directed to distribute for its popularization among farmers and demonstration purpose in all the districts of Gujarat.

Bio-NPK has unique traits like shelf life of minimum 1 year, 5×10^8 CFU/ml, easy to use and transport, suitable for drip irrigation and green house, eco-friendly, non polluting and highly advantageous for Integrated Nutrient Management. Gujarat and India has about 14.5 and 159.7 million hectare of land under cultivation respectively, wherein promotion of Bio-NPK with wide use can cut down cultivation cost with saving of huge amount of fertilizer subsidy. Such biofertilizers act as fertilizer factory inside the soil for maintaining soil fertility and health. This will save the input cost with reduction of expensive chemical load entering soil and water resources and thereby protecting environment in sustainable way.

This liquid Biofertilizer mass production facility is supported by RKVY through GoG by establishing automated production plant with latest fermenters and bottling unit.

AAU has already commercialized and licensed individual liquid biofertilizers production technology to three entrepreneurs in Gujarat through World Bank funded NAIP West zone centre of Business Planning and Development Unit of AAU in recent past to disseminate low cost bio-input product upto remote farmers. Similarly, this newer all in one Bio-NPK formulation technology is ready for Public Private Partnership with agri-preneurs for the benefit of farming community and popularizing its use for reducing chemical fertilizers to protect our valuable agro-ecosystem and environment in a long run.


 (N. C. Patel)
 Vice Chancellor

BEST PAPER PRESENTATION AWARD

- A research paper entitled “Influence of Controlled Breeding Techniques on Estrus Induction Response, Conception Rate and Plasma Progesterone Profile in Anoestrus Buffaloes” presented by Dr. A.J. Dhami, Prof. & Head, Dept. of Animal Reproduction Gynaecology & Obstetrics, AAU, Anand in Technical Session V “Health Care Practices for Optimum Productivity” of Silver Jubilee Convention of ISAPM and National Seminar on “Revisiting management policies and practices for Indigenous Livestock & Poultry Breeds as Eco-friendly Economic Producers” at Vanbandhu Veterinary College, NAU, Navsari held from 09 to 11 October, 2014 was adjudged as the best paper in oral presentation fetching 1st rank.



- Best Paper Presentation Award was given to scientists Dr. P. K. Borad, Dr. T. M. Bharpoda & Dr. R. K. Thumar and P.G. Students Miss Shivani R. Patel & Sh. Chirag Dhobi in International Conference on “Changing Scenario of Pest problems in Agri-Horti Ecosystem and their Management” organized by Entomological Research Association, Dept. of Entomology, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture and Technology, Udaipur during 27-29 November 2014.



- Research paper on “Impact Assessment of Land Use Change on Runoff Generation using Remote Sensing & Geographical Information System” authored by M. K. Tiwari, M. L. Gaur, P. R. Siyag & A Kumar was awarded as the best paper in 15th ESRI India User Conference “Geo-Enabling Digital India” held during 9-11 December 2014 at Delhi.

VETERINARY PATHOLOGY CONGRESS-2014 AT ANAND



31st Annual Conference of Indian Association of Veterinary Pathologists, 5th Annual Meeting of Indian College of Veterinary Pathologists and a National Symposium on Impact of Climate Change on Pathobiology of Diseases of Animals, Poultry and Fish were held from 13-15 November 2014 at the College of Veterinary Science and Animal Husbandry, AAU, Anand. The inaugural function was presided by the Hon. VC, Dr. N. C. Patel. Prof. M. C. Varshneya, Hon. VC of Kamdhenu University was the chief guest and Dr. A. J. Kachhiapatel, Director of Animal Husbandry, GoG was the guest of honour. Dr. Somvanshi, President IAVP, Dr. B. N. Tripathi, Secretary General, IAVP, Dr. A.M. Thaker, Dean and Principal, Veterinary College, Anand and Dr. K. S. Prajapati, Organizing Secretary also graced the auspicious occasion. The IAVP honored Dr. K. S. Prajapati by presenting him the FELLOW of IAVP award. Retired faculties of College of Veterinary Science & A.H. Dr. D. D. Heranjal, Dr. P. C. Shukla, Dr. P. M. Talpada, Prof. P. M. Jhala and Dr. K. S. Prajapati were also felicitated by the Golden Jubilee Celebration committee for their contributions and dedicated services to the institute.

The National Seminar had a total of nine technical sessions inclusive of young scientist award session and poster presentation.



ONE DAY SEMINAR ON CAMEL WELFARE AND PRODUCTIVITY



The closing ceremony of Golden Jubilee Celebration was organized with a state level seminar each on Camel Welfare and productivity enhancement through management on 30 December 2014 by Department of Livestock Production Management. Hon. Shri Bhupendra Chudasama, Education Minister was the chief guest, Hon. Shri Babubhai Bokhriya, Agricultural Minister was the Chairman and Hon'ble Dr. N. C. Patel, VC & Co-chairman of the inaugural function. Dr. M. C. Varshneya, VC, Kamdhenu University, Gandhinagar, Dr. A. J. Kachhiapatel, Director of Animal Husbandry, GoG, Dr. A. M. Sheikh, Ex-VC, AAU, and Dr. K. B. Kathiria, Director of Research & Dean P.G. Studies also graced the occasion. A slide show with all the 50 events organized during the Golden Jubilee Year was shown during the function. Ex-Deans of the veterinary College, Dr. M. R. Patel (USA) and Dr. Y. G. Dugwekar were facilitated during the function. This seminar was organized under the leadership of Dr. A. M. Thaker, Dean and Principal, with Dr. K. N. Wadhwani, Asso. Prof. and Head, LPM, as Organizing Secretary. Total eight speakers delivered their talk on various aspects like camel milk dairy development in USA, welfare of Kachchhi camel in Gujarat, anti-diabetic property of camel milk, surgical disorder in camel, glimpses of camel development in UAE and embryo transfer technology in camel. More than 200 field veterinarians and Government officers from different parts of Gujarat participated. Useful recommendations emerged out for development and propagation of camel industry at the state as well as national level.



GOLDEN JUBILEE CELEBRATION CLOSING FUNCTION AND SEMINAR ON DOG HEALTH



A State level Seminar on "Canine Health and Disease Management" was organized by Teaching Veterinary Clinical Complex (TVCC), Veterinary College, Anand on 31 December 2014. Dr N. C. Patel, Hon. VC, AAU, Anand graced the Inaugural Function as the President, Dr. Umesh Kumar Sharma, President, Veterinary Council of India, New Delhi as the Chief Guest and Dr. A. J. Kachhhiapatel, Director of Animal Husbandry, Gujarat state, Gandhinagar and Dr. K. B. Kathiria, Director of Research & Dean P. G. Studies, as the Guests of Honour. The seminar focused on primary health care and some important aspects of disease management of pet dogs. Hands-on-training on Ultrasonography was also given to the delegates at the TVCC. Lecture subjects included the topics related to dog nutrition, surgery, reproduction and disease management. About 240 delegates including the field veterinary officers, private practitioners, alumni of the college and postgraduate students participated. The Seminar was organized under the Chairmanship of the Dean Dr. A. M. Thaker and Dr D. M. Patel, Prof. and Head, TVCC as organizing Secretary.



CELEBRATION OF NATIONAL MILK DAY AT SMC, ANAND

SMC College of Dairy Science, Anand Agricultural University, Anand celebrated National Milk Day on dated 26 November 2014 at the 93rd Birthday of Father of White Revolution, Dr Verghese Kurien. Dr B.P. Shah, Principal and Dean of SMC College of Dairy Science paid homage to Dr Kurien.



The day began with participation of the students of SMC in the cleaning campaign organized by Amul. This was followed by poster making contest on the theme "Dr Kurien and white revolution".

Afternoon session was arranged for guest lectures by Dr. P. N. Thakar, former Prof. & Head, Dairy Business Management, SMC College of Dairy Science, AAU, Anand.

At this occasion, an elocution competition was also organized on the topic "Indian Dairy Industry and Dr Kurien" in which several students actively participated. Ms Vaishali Rathod, Ms Ukti Joshi and Mr Shaktidan Gadhavi got prizes in the elocution contest, while Nidhi, Devyani, Milan and Kaushal were winners in poster completion. The program ended by proposal of vote thanks from Mr Satish Parmar, Chairman of Students Representative Council.

ALL INDIA DEANS MEETING IN FOOD PROCESSING TECHNOLOGY AT ANAND



As per the directives of the ICAR, All India Deans Meeting for ICAR's 5th Deans' Committee for Food Processing Technology discipline was organized during 18–19 November 2014 at College of FPT&BE, AAU, Anand. Seventeen Deans/HoDs from various universities from all the country participated.

Deliberations were made to defining UG & PG degrees for general market need, restructuring the UG program, strengthening higher education, assessment of training needs, reforms in governance of SAUs and development of model DPR for establishment of a college. Dr. N.C. Patel, Hon.VC, AAU inaugurated the meeting and provided important inputs. Dr. D.C. Joshi, National Convenor for the discipline chaired and handled the sessions for two days.

EIGHTH EXTENSION EDUCATION COUNCIL AT ANAND



Eighth Extension Education Council was held on 27 November 2014 under the Chairmanship of Hon. VC, Dr. N. C. Patel. At the outset Dr. P. P. Patel, Director of Extension Education narrated various extension education activities carried out by various extension education centers of AAU, Anand. Various agenda items were discussed in length and actions to be taken for implementation of various extension education activities were suggested.

NATIONAL LEVEL TRAININGS IN SEMEN TECHNOLOGY



Department of Animal Reproduction, Gynaecology & Obstetrics, College of Veterinary Science and AH, AAU, Anand in collaboration with NDDDB, Anand organized three

specialized national level training programs under NDP Phase-1 during October to December 2014 at their Central Sperm Station for Veterinarians and Laboratory Technicians working on various Commercial Bovine Frozen Semen Production Stations of the Country as per MoU signed between AAU and NDDDB. Dr. A.J. Dhami, Professor & Head, ARGO coordinated the training programs as given below.



Sr. No.	Title of training Course	Dates	No. of Participants
1	Breeding Soundness/ Andrological examination of bulls for Veterinary Officers and Quality Control Officers	6-18 Oct. 2014	09
2	Laboratory Techniques in Frozen Semen Technology for Laboratory Technicians	17-22 Nov. 2014	09
3	Modern Cryopreservation Technology of Bovine Semen for Veterinary Officers and Quality Control Officers	1-13 Dec. 2014	07

REFRESHER TRAININGS TO STATE VETS UNDER ASCAD

Refresher Training programs for the Veterinarians of the State Animal Husbandry Department, GoG, Gandhinagar were organized under the aegis of Assistance to State for Control of Animal Diseases (ASCAD) in the following disciplines of College of Veterinary Science & AH, AAU, Anand during October to December 2014.

Batch No.	Discipline of Refresher course	Course Director	Dates of program	No. of Vet Participants
1	Poultry Science, Emu farming etc	Dr. F.P. Savaliya	24-29 Nov 2014	05
2	Veterinary Public Health Zoonosis, Nutrition etc	Dr. J.B. Nayak	24-29 Nov 2014	04

AWARENESS CUM TRAINING PROGRAM ON PPV&FRA AT ANAND

An awareness cum training program on Plant Protection Varieties and Farmers' Rights (PPV&FR) was organized by Zonal Project Directorate, Zone-VI, Jodhpur in collaboration with PPV&FR Authority, Department of Agricultural and Cooperation, Ministry of Agriculture, Government of India at Conference hall of Aniket hostel, AAU, Anand on 8 October 2014. Dr.N.C.Patel, Hon. VC, AAU inaugurated the Training Program.



Dr. R.C.Agrawal, Registrar General, PPV&FR Authority, New Delhi informed that Authority is committed to protect farmers' rights in the event of germplasm collection and development of crop varieties. He emphasized on implementing the PPV&FR Act across the zone to help farmers involved in development of plant varieties.

Dr. P.P.Rohilla, PS, Zonal Project Directorate, Zone-VI, Jodhpur urged the KVKs to implement the program through empowering farming community in right earnest to ensure that the farmers get adequate recognition/reward out of their endeavour.

In the technical session, Dr. R.C.Agrwal explained the provisions made in the act for attracting farmers and breeders towards development of new varieties/germplasm collection and protection provided to the farmers in the process of applying ownership of already developed varieties, procedure for filling up application form for availing ownership. He also focused on the role of breeders, relevance of gene bank, NBPGR and other organizations involved in variety development process.

In concluding session, Dr.P.P.Rohilla emphasized on submitting application by the individual farmer or group of farmers who have contributed towards variety development in the identified crops. Dr.P.P.Patel, DEE, AAU, Dr.A.M.Parekhiya, DEE, JAU; Dr.K.A.thakkar, DEE, SDAU; Dr.Y.V.Singh, PS, IARI, New Delhi, 28 PCs from KVKs of Gujarat, 8 officials from the AAU and a progressive farmer participated in the Training Program.

VISIT OF DELEGATION FROM UNIVERSITY OF COPENHAGEN, DENMARK



A delegation from University of Copenhagen comprising of Dr. BjarkBak Christensen, Head of Dept. of Food Science, Dr. Richard Ipsen, Prof. of Food Structure Engineering, Dr. Henrik Siegmundfeldt, Head of Academic Programs, Dept. of Faculty of Science visited Anand Agricultural University including College of Food Processing Technology and Bioenergy and had interaction with senior faculties for different collaborative research projects in the field of food processing and dairy technology. The delegation was impressed with the facilities available with the University.



VISIT OF SCIENTISTS FROM INSTITUTE OF PLASMA RESEARCH, GANDHINAGAR

A delegation from Institute of Plasma Research (IPR), Gandhinagar comprising of Dr S. Mukherjee, Head FCIPT & Dean, Dr. S.K. Nema, Scientist-SG, FCIPT, Dr. S.K. Gupta, Engineer-SF, FCIPT; Mr AkshayVaid, Engineer-SD, and FCIPT visited College of FPT&BE on 17 December 2014. The group discussed on possible areas of interdisciplinary research on cold plasma in food processing, surface decontamination of fruits and vegetables. The IPR has shown desire to sign an MoU with AAU.

GOLDEN JUBILEE LECTURE SERIES



As a part of Golden Jubilee Celebration, Veterinary College is organizing Lecture series by inviting eminent persons to

speak on various topics. The 9th and closing lecture in the series was arranged in august presence of Hon.VC, Dr. N. C. Patel and Dean of Veterinary faculty Dr. A. M. Thaker on 9 December 2014 on “Bhagvad Geeta and Lessons of Life” by a well-known Writer, Columnist and Speaker of Gujarat Ms. Kajal Oza-Vaidya, who mesmerized the audience with intricacies of Bhagvad Geeta and the lessons which can be learnt in present context. Hon'ble Vice Chancellor Dr. N. C. Patel appreciated the efforts put by the Veterinary faculty in organizing this unique lecture series and expressed the significance of such events in strengthening the academic activities of Universities. A slide show with all the lectures arranged during the year was also shown during the function. The lecture attended in large numbers by the University Officers, Deans, Technical and administrative staff and students of the University were appreciated by all.



INVITED LECTURES / TALKS



- BoB Chief Manger Ahmedabad delivered a talk on “Overview of Banking and Project Appraisal”, to encourage students for making carrier in banking sectors.
- Dr. K.P. Patel, Dean faculty of Agriculture delivered a talk on “Agriculture: Current scenario, Growth & Development with special emphasis for new frontiers for market”. He provides the information about current agriculture status,



future prospects of agriculture and development of agriculture in business context.

- Dr. Mukesh Kumar Tiwari was invited as guest faculty/resource person to deliver 3 lectures: (i) Neural Networks for time series analysis (ii) Wavelet transformation for time series analysis and (iii) Uncertainty analysis using resampling and Bayasian methods, during 15-16 December 2014 in the ICAR sponsored 21 days winter school on "Application of Sensors, Nano-Sensors, Wireless Sensor Network and Instrumentation in Precision/ Conservation Agriculture" sponsored by ICAR, New Delhi during 3-23 December 2014 at CIAE, Bhopal.



- Mr. Shivang R. Vyas delivered a talk on "Growth and opportunity for management students at abroad", He provided information about the foreign company policies and their expectation from the management students.

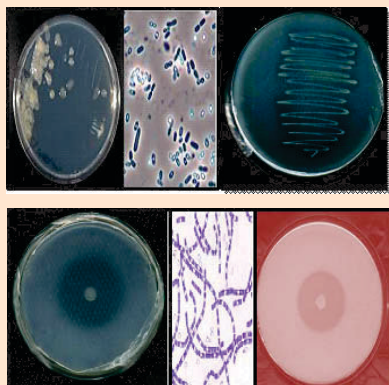


- Mr.Nazir Ahmed Moulvi from Mumbai delivered a talk on “An overview on Risk Management and Surveillance”,

LOKARPAN OF BIO NPK LIQUID BIOFERTILIZER BY HON. CHIEF MINISTER OF GUJARAT IN RABI KRUSHI-MAHOTSAV, 2014



Anand Agricultural University's new research product "Anubhav Bio-NPK consortium" was launched (*lokarpan*) with release of technical bulletin cum user manual by Hon. Chief Minister of Gujarat, Smt. Anandiben Patel on the occasion of *Rabi Krushi-Mahotsav* 2014 on 11 December 2014 at Village Chuda Dist. Surendranagar. The product is one in all solution for the macronutrients (NPK) requirement of crops and was provided free of cost by AAU as *Krushikit* during *Rabi Krushi-Mahotsav* for demonstrations to farmers with the support of Department of Agriculture and Co-operation, GoG at taluka level in 33 districts of Gujarat.



Last ten years have been phenomenal for Gujarat's agri-story. Gujarat witnessed an unprecedented double digit average agriculture growth. Taking march towards second green revolution and Gujarat's successful journey towards Agrarian Revolution a step further, Gujarat sowed the seeds of 'Rabi Krishi Mahotsav' this year. This year, Gujarat Government has launched the winter edition of *Krishi Mahotsav*. The maiden *Rabi Krishi Mahotsav* was held in 179 talukas across the state between December 11 and 21. The Anand Agricultural University has participated in *Rabi Krishi Mahotsav* effectively by providing technical inputs through Scientists in 47 talukas of erstwhile six districts of its jurisdiction. The details and glimpses of the same is given as below.



Details of taluka wise *Rabi Krishi Mahotsav* celebration

Sr. No.	Dates	District	Taluka	Place of program
1	11-12-2014	Ahmedabad	Ranpur/Barvala	Kundal, Swaminarayan Temple
2	12-12-2014		Dhandhuka	APMC, Dhandhuka
3	13-12-2014		Mandal, Detroj	Ashoknagar Gin, Detroj
4	14-12-2014		APMC,	APMC, APMC,
5	18-12-2014		Dholaka	APMC, Dholaka
6	19-12-2014		Sanand	APMC, Sanand
7	20-12-2014		Bavla	APMC, Bavla
8	21-12-2014		Daskroi	Kuchha Kadva Patidar samaj Trust, Pirana,
9	11-12-2014	Anand	Anand	Uma Bhavan, Anand
10	12-12-2014		Khambhat	APMC, Kmabhat
11	13-12-2014		Ankalav	Madhusudan Sanskrutik Hall, Ankalav
12	14-12-2014		Petlad	Town Hall, Petlad
13	18-12-2014		Umareth	Nasikwala Bhuðvan, Umreth
14	19-12-2014		Sojitra	Kisanbapani wade, Dabhau
15	20-12-2014		Borsad	Bharel Wadee, Bochasan
16	21-12-2014		Tarapur	APMC, Tarapur
17	11-12-2014	Dahod	Jhalod	APMC, Jhalod
18	12-12-2014		Dahod	APMC, Dahod
19	13-12-2014		Limkheda	APMC, Sub-Market Yard, Limkheda
20	14-12-2014		Fatepura	APMC, Sub-Market Yard, Fatepura
21	18-12-2014		Dhanpur	Ashramshala, Dhanpur
22	19-12-2014		Devgadhbaria	APMC, Sub-Market Yard, dev'baria
23	20-12-2014		Garbada	APMC, Sub-Market Yard, Garbada
24	11-12-2014	Panchmahal	Godhra	APMC, Godhra
25	12-12-2014		Halol	APMC, Halol
26	13-12-2014		Kalol	APMC, Kalol
27	14-12-2014		Ghoghmaba	APMC, Ghoghmaba
28	18-12-2014		Shahera	Aniyad chokadi, Shahera
29	19-12-2014		Lunavada	APMC, Lunavada
30	20-12-2014		Santrampura	Azad Medan , Santrampura
31	21-12-2014		Kadana	Divda High School medan, Kadana
32	11-12-2014	Kheda	Nadiyad	APMC, Nadiyad
33	12-12-2014		Mahemdavad	APMC, Mahemdavad
34	13-12-2014		Mahudha	APMC, Mahudha
35	14-12-2014		Kheda	APMC, Kheda
36	18-12-2014		Kapadvanj	APMC, Kapadvanj
37	19-12-2014		Kathalal	APMC, Kathalal
38	20-12-2014		Thasara	Khedut Taleem Kebdra,
39	21-12-2014		Balasinor	APMC, Balasinor
40	11-12-2014	Vadodara	Padra/Vadodara	APMC, sayajipura, Vadodara
41	12-12-2014		Karajan	APMC, Karajan
42	13-12-2014		Savli	APMC, Savli
43	14-12-2014		Dabhoi	APMC, Dabhoi
44	18-12-2014		Chhotaudepur	APMC, Chhotaudepur
45	19-12-2014		Kwant/Naswadi	APMC, Kwant/Naswadi
46	20-12-2014		Shinor	APMC, Shinor
47	21-12-2014		Vaghodia	Garba Ground,



SEED DISTRIBUTION PROGRAM BY PADDY RESEARCH STATION, DABHOI



Seed distribution program for Wheat (Var. GW-496) to the beneficiary farmers' was organized on 27-28 November 2014 by Paddy Research Station, Model Farm, Dabhoi. The distribution program was arranged at different villages, Vanadara, Timbi, Nada, Kasumbiya, Mavli and Pipaliya of Dabhoi Taluka. Total 250 beneficiary farmers got the benefits of Wheat Seed for the *Rabi* season 2014. The seeds are given to the farmers at 50% subsidized cost under Seed Village project.

APICULTURE TRAINING FOR FARM WOMEN AT JABUGAM



Two days training program on "Apiculture" during 13-14 October 2014 was organized by College of Agriculture, Jabugam/Training Centre, Jabugam and Dept. of Entomology, BACA, AAU, Anand jointly for women of the tribal area of Chhotaudepur. Total 40 women participated in this training program. Dr. P. K. Borad, Prof. & Head, Dept. of Agril. Entomology, Dr. C. C. Patel, Dr. T. M. Bharpoda, Dr. S. R. Patel, Dr. M. R. Dabhi, Dr. R. K. Thumar, Dr. Hiren Patel and Mrs. Jashodabhen (FTC, Chhotaudepur) delivered lectures on different aspects of apiculture. Prof. H. C Parmar and other staff members of Jabugam campus made hearty efforts for successful organization of the training program.

TRAININGS ON FOOD PROCESSING AT FPT&BE, ANAND



A two days short term training programs on "Food Processing Entrepreneurship" was organized at College of Food Processing Technology and Bio-Energy, Anand on 14-15 November 2014. 26 trainees had attended the program.

TRAINING ON VALUE ADDITION IN AONLA



KVK, Devataj organized Training Program on "Value addition in Aonla" on 31 December 2014. Total 102 farm women from Shekahdi village Ta. Petlad participated this training program. Prof. A.B. Parmar, SMS (Horticulture) gave training on preservation & processing techniques and value addition in Aonla. Different value added products like Murrabba, mukhwas, Aonla candy, Aonla-ginger juice etc. were prepared and demonstrated among participants.

ONLINE PEST MONITORING AND ADVISORY SERVICES (OPMAS)

Twelve *Khedut shibirs*, four on campus IPM trainings, three field assistants trainings, 11 field visits in different villages of Vadodara and Kheda districts were organized during October - December 2014 by Entomology Dept., B.A. College of Agriculture, AAU, Anand. 601 farmers took benefits of the *Khedut Shibirs* and IPM trainings. In all, total 4, 35,786 farmers took the advantage of the SMS uploaded by this Dept. through crop specific advisories Kisan Portal.



TRAININGS ON INTEGRATED PEST MANAGEMENT (IPM)



Under the scheme "Integrated Pest Management" supported by the Directorate of Extension Education and Financed by State Government, Seven IPM trainings at different centers of AAU were conducted during October to December, 2014 by the Dept. of Entomology, BACA, AAU, Anand. Total, 301 farmers participated from Vadodara, Ahmedabad, Kheda and Amreli districts.



FARMERS TRAINING PROGRAMS BY DWSR, ANAND



DWSR-Anand Centre organized three days training program for the farmers of Gujarat on Integrated Weed Management in Modern Agriculture during 28-30 October, 2014 at Aniket farmer's hostel, AAU, Anand. Dr. P. P. Patel, Director of Extension Education, AAU, Anand while inaugurating the training program and emphasized the importance of weed management in the modern agriculture. Dr. B. D. Patel, Agronomist, DWSR-Anand Centre, AAU, Anand explained various methods to manage weeds in the important crops and non-crop area during the training. Method demonstrations of spraying equipments of herbicide were shown at the farm by D. D. Chaudhari. Weed management kit was distributed to all the participants on successful completion of training.



AWARENESS TRAINING PROGRAM UNDER TSP



One day awareness training program on Integrated Weed Management under Tribal sub plan (TSP) was organized at Krishi Vigyan Kendra, Dahod on 20 December 2014. Method demonstration on spraying of herbicide was shown by D. D. Chaudhari, Jr. Agronomist, DWSR-Anand Centre, AAU, Anand.



ONE DAY TRAINING PROGRAM FOR TRIBAL WOMEN FARMER



One day training program on weed control in important crops of Dahod District and calculation of herbicides for precision in its use was organized at TWFTC, Devgadbaria on 12 November 2014 and 11 December 2014.

TRAINING PROGRAMS UNDER NARMADA IRRIGATION PROJECT, KHANDHA



On station one day following training programs were conducted at Narmada Irrigation Research Project, AAU, Khandha during the period from October to December-2014.

Sr. No.	Date	Village	Topic of Training	No. of participants
1	28.11.2014	Kanbha, Handod, Khandha	-Scientific cultivation of cotton and castor crop. -Importance of Bio-fertilizer -Water management technologies	33
2	29.11.2014	Pingalwada, Miyagam, Ananstu	-Scientific cultivation of cotton -Importance of Bio-fertilizer	20
3	9.12.2014	Raniyad, Usepur, Shahpura	-Importance of Bio-fertilizer -Soil health	38
4	18.12.2014	Kanbha, Khandha	-Water management in cotton and wheat crop. -Importance of Bio-fertilizer -Cotton- castor relay cropping system	41

Shri J.H. Chaudhari, Unit Officer, NIRP, AAU, Khandha provided brief information on different activities of the centre. Different speakers from Sardar Sarovar Narmada Nigam Ltd. briefed about activities run by Narmada Participatory Irrigation Cooperatives and interacted with the farmers for their problems as well as to take maximum advantages of agricultural universities for profitable farming and high-tech agriculture.



FIELD DAY ORGANIZED UNDER SSNNL BY KHANDHA

Field day has been organized on 27 November 2014 at Khandha village of Karjan taluka of Vadodara district.



KHEDUT SHIBIR AT KAMADI UNDER KHANDHA CENTRE



Khedut shibir was organized on 3 December 2014 at village Karmadi Ta. Karjan Dist. Vadodara and total 14 farmers participated in it.

HORTICULTURAL FRUITS PRODUCTION PROGRAM AT KANKANPUR FARM

Kankanpur, instructional farm under CAET, AAU, Godhra is developing horticultural crop plantation (Cashewnut, Mosambi, Pomegranate & Custard Apple) as well as carrying out various seed (Maize, Sweet corn, Popcorn, Castor, Green gram) production programs. All these activities on the farm also have provided employment to the local residents.



FARMER'S DAY AT ARS, THASRA



Agriculture Research Station, AAU, Thasra organized a farmers day on 13 October 2014. 700 farmers and farm women from surrounding villages remained present on the occasion. The farmers day was inaugurated by Dr. N. C. Patel, Hon. VC, AAU, Anand. He also released five folders related to latest package of practices on different crops prepared by scientists of Thasra farm. Dr. K.B. Kathiria, Director of Research, Dr. P. P. Patel, DEE and Prof. R. B. Maravia, Executive Director (Agri), SSNNL, Gandhinagar remained present on the occasion. Different subject matter specialists of Anand Agricultural University provided latest technical knowledge related to agriculture and livestock. They also solved questions raised by farmers.



FARMERS' DAY AT PADDY RESEARCH STATION, DABHOI



A Farmers' Day was organized on paddy crop and Irrigation management in farming" at Paddy Research Station, A.A.U., Dabhoi on 16 October 2014 by Sardar Sarovara Narmada Nigam Limited and AAU. About 600 farmers from different villages participated in the program. The various technologies viz. cultivation of new released paddy variety GAR-3 through SRI technique, Seed production plots of different Paddy varieties, State and AICRIP Trials, Reaper and Binder machine, Grading machine and Seed cum fertilizer drill were demonstrated to the farmers.

Different Stalls viz. (1) Main Rice Research Station, Nawagam. (2) Pulse Research Station, Vadodara. (3) Main Maize Research Station, Godhra. (4) "Krushigovidhya", Anand were also arranged.

Dr. N. C. Patel, Hon. VC, AAU while inaugurating the program stressed to adopt new agricultural technologies, seed varieties and justified use of water. Various dignitaries Dr. K. B. Kathiria, Director of Research, Dr. P. P. Patel, Director of Extension Education, Prof. R. B. Maravia, Executive Director (Agri.), SSNNL, Gandhinagar, Shri G. J. Rai, Executive Engineer, SSNNL, Vadodara, Scientists from AAU, Anand remained present. Scientists farmers interaction was arranged and scientists replied the questions of farmers. The literature on Importance of (1) Biofertilizer in Agriculture, (2) Importance of Mineral Elements in Animal feed (3) Common Problems and Solutions of Tractor (4) Importance of Micro elements in Agriculture and (5) book entitled *Vividh pakoni kheti paddhati ane tajagnata* was also distributed among farmers.

ON AND OFF CAMPUS TRAINING PROGRAMS BY KVK, DEVATAJ



KVK, Devataj conducted 10 on campus and 16 off campus training programs benefiting 489 farmers and 50 farm women during October-December 2014.

CELEBRATED OF FOUNDATION DAY AT KVK, DEVATAJ



KVK, Anand Agricultural University, Devataj celebrated "29th Foundation Day" on 20 November 2014. Dr. G. G. Patel, PC, KVK, Devataj warmly welcome all the farmers and invited guests for the program.

The guests Dr. P. P. Patel, Director of Extension Education, Dr. D. C. Joshi, Dean & Principal, FPT&BE, Dr. B. H. Patel, District Nodal Scientist, Anand, progressive farmer Shri. Harshadbhai R. Patel of Piplav remained present on the occasion.

TRAINING ON VALUE ADDITION OF FRESHWATER FISH



KVK, Devataj organized a Training Program on "Value addition in freshwater fish" during 17-18 December 2014. Total 21 farm women from Kasor village Ta. Anand participated in this training program. Prof. J. H. Bhatt, SMS (Fisheries) discussed about introduction of freshwater fishes, importance of fishes on Human health, identification of Fresh fish, fish preservation & processing techniques and value

addition. Different value added products like Fish Pickle, Fish Fingers (Ganthiya), Fish Cutlet, Fish Samosa were prepared and demonstrated among participants. Dr. G. G. Patel, PC, KVK, Devataj insisted to all participants for entrepreneurship for value addition of fish.

WORLD FOOD DAY CELEBRATION AT FPT&BE, ANAND



Anand Agricultural University commemorated World Food Day with a two days National Tech Fest on Food Processing, titled "ADROIT'14" organized by college of Food Processing Technology & Bio Energy. This year a National Seminar on 'Food Quality & Safety – New Technologies & Applications' was also organized. A students' rally was also organized in the Anand city on 16 October 2014. The event was co-organized by Food and Drugs Control Administration, GoG and Association of Food Scientists and Technologists (India), V V Nagar Chapter.



ORIENTATION PROGRAM FOR HIGHER STUDIES IN FRANCE

An orientation program was conducted at CAET, AAU, Godhra for final year undergraduate and postgraduate students by Ms. Dharti Dave, Education Advisor, Campus France Ahmedabad on 13 October 2014 for admission programs in France and funding options.

TRAINING/DEMONSTRATION PROGRAM AT CAET, GODHRA

A training / demonstration on OriginPRO for graphing, statistical and mathematical software was organized on 24 December 2014 at CAET, AAU, Godhra. It was attended by faculty members as well as UG and PG students of the college.

LEADERSHIP AND ENTREPRENEURIAL DEVELOPMENT PROGRAM



IABMI students participated in two days leadership and entrepreneurial development program organised by National Council for Climate Change Sustainable Development and Public leadership (NCCSD) on 18-19 November 2014. During this event, Role Play competition was organised. Mr. Hiren Patel got the 1st rank in individual performance within the group.

In the Valedictory Function, Hon.VC Dr. N. C. Patel and Executive Chairman of NCCSD, Dr. Kirit N Shelat, IAS (Rtd) and formerly Principal Secretary, GoG distributed trophies to the winners of the Role Play competition.



PARTICIPATION OF CAET STUDENTS IN TECH FEST



CAET students participated in Tech Fest on "Food Quality and Safety – New Technologies and Applications" during 15-16 October 2014 organized by College of Food Processing Technology and Bio Energy, AAU, Anand.



PLACEMENT OF CAET COLLEGE STUDENTS



Vocational, Undergraduate and Post graduate girl students of CAET, Godhra were interviewed on 31 December 2014 by All India Radio for their perceptions on futuristic use and prospects of Agricultural Engineering education.

PLACEMENT OF IABMI STUDENTS



Freshtrop Pvt. Ltd Company came to our college for placement and select two student for summer training and offer job.

TRAINING-CUM-PLACEMENT INTERVIEW FOR B.TECH/M.TECH (FPT) STUDENTS



College of Food Processing Technology and Bio-Energy, AAU, Anand organized Training-cum-Placement campus interviews for B.Tech/M.Tech (Food Processing Technology) final year students.



CLEAN INDIA ABHIYAN

- As part of clean India Abhiyan, all the staff members and 31 students of Horticulture College take the oath to keep the campus clean on 2 October 2014. All took part in cleaning of college campus and also boy's hostel.



- Under National Service Scheme, B. A. College of Agriculture, AAU, Anand arranged a cleanliness camp on 01 November 2014 to create an awareness among the students on most important cleanliness movement of Hon'ble Prime minister of India. The NSS volunteers of BACA actively participated in the camp by cleaning the college and hostel premises.



Though the institute has tradition of maintaining the campus clean and green, this was further reinforced through the "SWACHH BHARAT ABHIYAN" on 2 October 2014. On this day, any plastic/iron/glass/stone/building waste (debris) etc., scattered in and around the college building was handpicked collectively by students, faculty and non-faculty staff. The area around college building and main road to college was leveled, and grass and bushes were removed. The oath of maintaining cleanliness was taken by everyone.



- Swatchh Bharat Abhiyan was organized at College of Food Processing Technology and Bio-Energy, Anand on 2



October 2014. All the teaching, non-teaching staff and students of the college participated in the national level campaign by the GoI. General cleaning as well as cleaning in and outside laboratories, offices, pilot plants was planned and implemented through different teams. Besides normal cleaning, the sorting and rearrangement of the physical records, stores and other places was also scheduled.

- Students of IABMI Celebrated Swachh Bharat Abhiyan on 2 October 2014.



BLOOD DONATION CAMP



Blood Donation Camp was organized under National Service Scheme, B. A. College of Agriculture, AAU, Anand in collaboration with Red Cross Society, Anand on 15 November 2014 to emphasize the commitment of BACA to humanitarian activities. In the inaugural speech, Dr. M. N. Brahmbhatt encouraged the students to donate the noble and join hands with the nation for saving the life of the needy. Dr. K. P. Patel, Principal and Dean, BACA also appreciated the students for their participation in large numbers for such noble activity of social concern and extended his good wishes for success of the camp. Students from B. A. College of Agriculture and other associated colleges participated in the blood donation camp and total 72 blood units were collected in the camp.

SPECIAL NSS EVENT AT JABUGAM



The College of Agriculture, AAU Jabugam organized one day Special NSS event on 6 December 2014 at nearby hilly forest area called *Teliya Mata* Temple, in order to instill in them the wish and will for community service and thereby to develop their personality. All the enrolled 48 volunteers of NSS along with faculty members participated in this event. The NSS team started journey to *Teliya Mata* by walking and trekking the hill. While crossing the *Orsang* river, Dr. Hiren Patel, Dr. Mohammad Sajid and Dr. Dharmendra Patidar explained various aspects of cucumber cultivation found in the river-bed.

The premises of *Teliya Mata* Temple was cleaned by the NSS volunteers. Hostel warden Rajubhai guided the team through jungle route towards the temple.

THALASSEMIA AWARENESS PROGRAM

As a part of National Service Scheme, an awareness program on thalassemia was successfully organized at B. A. College of Agriculture, AAU, Anand in collaboration with Indian Red Cross Society, Ahmedabad on 12 Novmeber 2014. Dr. K. P. Patel, Principal and Dean, Dr. D. H. Patel, Chairman (SRC), Dr. Dipak A. Patel, NSS Officer of BACA remained present and encouraged the students in the programme. In all, 115 students of BACA were screened for thalassemia in the program.



INTERCOLLEGIATE BADMINTON TOURNAMENT AT CAET, GODHRA



- The Intercollegiate Badminton Tournament was organized by CAET, Godhra. Students of various colleges from



university participated. Mr. Sagar Vagashiya was selected in University team for Badminton competition.

- Students of 1st and 3rd semester of IABMI participated in Badminton Tournament organised by Engineering college of Godhara, AAU, Anand. First semester students, Vithani Forum and Daisy Pradyut Basumatary were selected at university level.



INTERCOLLEGIATE KHO-KHO AND KABADDI TOURNAMENTS

Participation of students in intercollegiate kho-kho and kabaddi tournaments were Intercollegiate Kho-Kho and Kabaddi Tournament was inaugurated by Dr. P.R. Vaishnav, Registrar and Dr. M.N. Brahambhatt, Director of Student's Welfare, Anand Agricultural University, on 16th October, 2014 at B.A. College of Agriculture, AAU, Anand. Students of various colleges participated and Mr. Nimesh Chauhan and Mr. Pankaj Dabhi were selected in University team for Kho-Kho Competition.

PARTICIPATION IN TRAINING / SEMINAR / WOKSHOP / SYMPOSIUM / CONFERENCE / WINTER SCHOOL ATTENDED

- Dr. A.J. Dhami, Prof. & Head, Dept. of Animal Reproduction Gynaecology & Obstetrics, AAU, Anand participated and presented a lead paper and research papers in Silver Jubilee Convention of ISAPM and National Seminar on “Revisiting management policies and practices for Indigenous Livestock & Poultry Breeds as Eco-friendly Economic Producers” at Vanbandhu Veterinary College, NAU, Navsari from 09-11 October, 2014.

Dr. Safi Vahora, Asso. Prof., Pashu Vigyan Kendra, TRTC, Devgadbaria attended and made presentation on “Effect of feeding formaldehyde treated (bypass) protein on growth performance and feeding economics in Surti Buffalo heifers” in above National Seminar.



- Shree D. D. Chaudhari, Junior Agronomist, DWSR-Anand Centre, BACA, AAU, Anand participated in the National Symposium on “ECM” technology for safe, secure and profitable food production held at GBPUA&T, Pantnagar (Uttarakhand) on 10-11 October 2014
- Dr. Navneet Kumar, Associate Prof.; Dr. Neeraj Seth, Asst. Prof., Er. Kamlesh Jethva, Asst. Professor participated in National Seminar on “Food Quality and Safety – New Technologies and Applications” during 15-16 October 2014 at College of Food Processing Technology and Bio Energy, AAU, Anand
- Dr. Mukesh Kumar Tiwari attended ICAR sponsored CAFT training program entitled “Recent Advances in Survey Design and Analysis of Survey Data using Statistical Software” held during 28 October 2014 to 17 November 2014, at Indian Agricultural Statistics Research Institute (IASRI), New Delhi.
- Er. R. C. Salunkhe, Asst. Prof. of Deptt. of FMPE, CAET, Godhra attended and presented a paper entitled

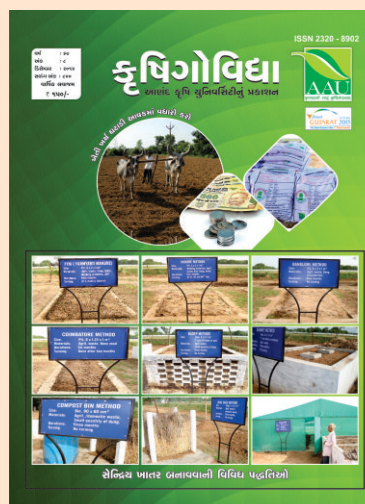
“Development of Vertical Feed Pedal Operated Maize Sheller” in National conference on “Emerging Technology Trends in Agricultural Engineering (ETTAE 2014)” organized by North Eastern Regional institute of Science and Technology, Nirjuli (Itanagar), Arunachal Pradesh during 07 - 09 November 2014.

- Er. Jogunuri Sravan Kumar, Asst. Prof. attended 41st Orientation Course conducted by UGC-Academic Staff College, Jawaharlal Nehru Technological University, Hyderabad during 10 November 2014 to 06 December 2014.
- Dr. B. D. Patel, Agronomist, DWSR-Anand Centre, BACA, AAU, Anand attended “National Symposium on Agriculture Diversification for Sustainable Livelihood and Environment Security.” organized jointly by Indian Society of Agronomy and PAU, Ludhiana on 18-20 November 2014 at Ludhiana.
- Dr. A.J. Dhami, Prof. & Head, Dept. of Animal Reproduction Gynaecology & Obstetrics, AAU, Anand participated and presented research papers in 30th ISSAR Convention and National Symposium on “Research and Innovations to Improve Animal Fertility and Fecundity” at Veterinary College, DUVASU, Mathura (UP) from 20 to 22 November, 2014. He also Chaired the Technical Session V.
- Three Scientists (Dr. P.K. Borad, Dr. T.M. Bharpoda & Dr. R. K. Thumar) and 13 PG students of Department of Entomology, B. A College of Agriculture, AAU, Anand participated International Conference on “Changing Scenario of Pest problems in Agri-Horti Ecosystem and their Management” organized by Entomological Research Association, Dept. of Entomology, Rajasthan College of Agriculture, MPUAT, Udaipur during 27-29 November 2014.
- Er. Vishal Mehra, Asst. Porf. attended winter school on “Application of sensors, neon-sensors, wireless sensor network and instrumentation in Precision/ Conservation Agriculture at Central Institute of Agricultural Engineering, Bhopal during 2-23 December 2014.
- Dr. Mukesh Kumar Tiwari attended and presented a research paper entitled “Impact Assessment of Land Use Change on Runoff Generation using Remote Sensing & Geographical Information System” in the 15 ESRI India User Conference “Geo-Enabling Digital India” held during 9-11 December 2014 at Delhi.
- Dr. G. G. Patel PC, KVK, Devataj attended the Workshop for Annual Action Plan of KVKs at Udaipur from 24-25 December 2014 organized by Zonal Project Directorate, Jodhpur.

AAU PUBLICATIONS



PUBLICATION OF FARM MAGAZINE



The publication unit, DEE, AAU, Anand publishes the monthly farm magazine "Krushigovidya" regularly for the benefit of the farming community since May 1948. There are 9250 subscribers registered for this farm magazine upto December 2014.

RETIREMENTS

October 2014

- 1 Dr. K. S. Prajapati, Professor Veterinary College, Superannuation
- 2 Dr. N. V. Upadhyay, Research Scientist, Vegetable Research Station, Superannuation
- 3 Shri Mohanbhai Shanabhai, Jr. Clerk, Regional Research Station, Superannuation

November 2014

- 4 Dr. P. S. Prajapati, Professor, Dairy Science College, Superannuation
- 5 Dr. Jethalal Ambalal Patel, Research Scientist, Regional Research Station, Superannuation
- 6 Shri Rameshchandra R. Patel, Asstt. Research Scientist, KVK, Arnej, Superannuation
- 7 Smt. Suja Senon, Assistant Professor, Dairy Science College, Resignation
- 8 Smt. Usha A. Patel, Assistant Extn. Edu., Directorate of Extn. Edu., Voluntarily retired
- 9 Shri V. B. Shah, Sr. Clerk, Executive Engineer, Superannuation
- 10 Shri S. S. Rathod, Sr. Clerk, Res. Scientist, Dahod, Death
- 11 Shri R. D. Vankar, Agriculture Officer, B. A. College of Agriculture, Superannuation
- 12 Shri S. K. Goswami, Sr. Clerk, Cotton Research Station, Viramgam, Voluntarily retired
- 13 Shri Milan Pandya, Sr. Clerk, Directorate of Extn. Edu., Voluntarily retired
- 14 Shri R. B. Hathila, Chokidar, Research Scientist, Dahod, Death

It is very easy to defeat someone, but it is very hard to win someone

Book-Post

To

From :
The Editor
AAU Newsletter
Directorate of Extension Education
University Bhavan, Anand Agricultural university
Anand-388 110

Published by Dr. P. P. Patel, Director of Extension Education on behalf of Anand Agricultural University and Printed at Asian Printery, Ahmedabad., Editors : Dr. N. V. Soni & Dr. V.V.Ushabala