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Message

The Indian Dairy Sector is flourishing like never before. Considered to be the growth engine of our Agriculture Sector, it is expected to post a gigantic milk production of around 180 million metric tonnes in the year 2018-19. In the last decade, while the world milk production has grown at around 1.8% per annum, the Indian milk production grew at a double pace registering a growth rate of around 4.8% per annum. Various sources claim that even with a most conservative estimate, the milk production in the country would reach 280 million metric tonnes in the year 2030.



The nutritional security provided by milk and milk products can never be ignored. With the increase in milk production, increase in the country's population, there is an urgent need to find newer ways to reap the numerous health benefits provided by functional milk products. It's a matter of great pride that some pioneering work is already done by the Anand Agricultural University in this area.

The government's support in dairy and animal husbandry sector has always been very positive and schemes like National Dairy Plan (I), Dairy Entrepreneurship Development Scheme (DEDS), Dairy Processing & Infrastructure Development Fund (DIDF) and many more are already underway and benefiting the dairy sector. These schemes aim at increasing milk production by way of improving cattle productivity, Modernizing Dairy Processing Infrastructure in the country, expanding rural milk procurement infrastructure, and providing entrepreneurial opportunities in the dairy sector.

For the academicians, these developments in the dairy sector will mean that they will have to ponder and devise ways to support the growth of the dairy sector by supplying highly competent Dairy Professionals which suit to the demands of the industry. If deemed appropriate they may also offer new academic programmes, increase the number of Industry-Academia Collaborations at National and International levels, thrust Research and Dairy Extension activities and so on. Moving forward in this direction, Anand Agricultural University has launched a new five years integrated programme leading to B.Tech. (DT) plus Post Graduate Diploma in Dairy Management (PGDDM) in collaboration with Institute of Rural Management, Anand (IRMA).

The entry of global players in the Indian dairy sector seems almost imminent. A recent report by global analytical company CRISIL estimates that milk sales in the next few years would be steady and Value Added Dairy Products will grow at a much faster pace. Attracted by the prospects of getting windfall gains, many national and international players are entering the Indian dairy sector and they have started widening their procurement networks and expanding their dairy portfolio.

Hence, the future of the dairy sector until the year 2030 seems to be most promising and hopefully, it will also bring along a sustainable livelihood for the small and marginal Indian farmers.

N. C. Patel

(N. C. Patel)
Vice Chancellor

XXV MEETING OF ICAR REGIONAL COMMITTEE-VI



XXV meeting of ICAR Regional Committee-VI was held on 04-05 February 2019 at AAU, Anand. Shri Parshottam Rupala, Union Minister of State, Agriculture, Farmers Welfare & Panchayati Raj, Government of India; Shri Jaydrathsinhji Parmar, State Minister of Agriculture and Panchayat, Environment (Independent Charge), Government of Gujarat; Dr. Trilochan Mohapatra, Secretary (DARE) & Director General (ICAR); Shri Sushil Kumar, Additional Secretary (DARE) & Secretary (ICAR); Shri B. Pradhan, Additional Secretary & Financial Advisor (DARE/ICAR), New Delhi; Shri Sanjay Prasad, Additional Chief Secretary, Govt. of Gujarat and other officials of ICAR, New Delhi were remained present in the inaugural function of the meeting. This was followed by



the business session of the meeting in which presentation of action taken report on the recommendations of previous meeting was made followed by discussion on state wise fresh agenda items, problems, research needs and developmental issues as well as the responses of various centres of ICAR in this region. The meeting ended with concluding remarks of Director General, ICAR, New Delhi.

NATIONAL SEMINAR ON VISION 2030 FOR DAIRY INDUSTRY AND 13th ALUMNI CONVENTION



A National seminar on Vision 2030 for Dairy Industry and Alumni Convention was organized jointly by SMC College of Dairy Science and Alumni Association on 4-5 January 2019 at SMC College of Dairy Science, AAU, Anand. The function was inaugurated by customary lamp lighting. Dr. J. B. Prajapati, Principal and Dean, SMC College of Dairy Science, welcomed the dignitaries and delegates from India and abroad. He briefed about importance of Anand for dairy development and explained about the contribution of SMC College of Dairy Science in dairy education and research in the country. Dr. N. C. Patel, Hon. Vice Chancellor, AAU, Anand, presided over the function. He emphasized the need to modernize the Indian dairy industry by using latest techniques like artificial intelligence. He suggested that the unorganized dairy sector needs to be tapped by professionals by providing them technical, educational and marketing support. Dr. K. B. Kathiria, Director of Research, AAU, Anand appreciated the selection of theme of the seminar. He opined that even though several technologies are being regularly developed in institutes, it is very important that it percolates down to the consumer. Prof. Hitesh Bhatt, Director, IRMA, Anand, pointed the major transformative role of dairy industry would be playing by 2030, namely increasing the productivity of the milch animals as well as ensuring the value of dairy commodity for the consumers. Dr. RRB Singh, Director, ICAR, NDRI, Karnal also graced the inaugural function as the Guest of Honour. He elaborated that since last decade, bovine and buffalo populations has increased by 0.8% and 1.8%, respectively. He stressed on the need to address issues related to non-productivity, semen sexing and reproductivity of milch animals. Dr. R. S. Sodhi, Managing Director, GCMF,

Anand, begun his address by acclaiming that dairy industry can play a major destressing role for farmers by providing them an alternative and lucrative source of income. He stressed on the changing diet habit of people with more inclusion of protein and fat rich diet, where dairy products offer a good option. The 13th Alumni Convention of SMC College of Dairy Science was organized on 5 January 2019 at SMC College of Dairy Science, which observed an august gathering of Graduates and Post Graduates of the year 1993 and 1994. This event is religiously organized every alternate year by SMC College and its alumni association to honour Alumni for their valuable contributions to their profession and to the society. At this event, Dr. J. R. Patel Memorial Awards for Education & Research were given. Best student awards for 2017 and 2018 were also presented. On this occasion, 33 Graduates and Post-graduates of 1993 and 1994 batches were felicitated for their contribution to dairy industry and society.

HON. VICE CHANCELLOR OF AAU ATTENDED THE INTERNATIONAL CONFERENCE AT DPDKV, AKOLA



A two-days International Conference on 'Agriculture and Industrial Development in Non traditional energy Field' was inaugurated by Dr. N. C. Patel, Hon. Vice Chancellor, Anand Agricultural University, Anand, Gujarat, which was organized under the aegis of National Agriculture Higher Education Project of Dr. Punjabrao Deshmukh Krushi Vidyapith at Dr. K. R. Thakre, DPDKV, Akola (M.S.)

Dr. V. M. Bhale presided over the function. Dr. S. R. Kalbande, President of the organizing committee delivered introductory remarks and elaborated the topic of the international conference. He said that various programmes for employees and capacity-building for students had been taken up and awareness about industrial development in non traditional energy fields being spread.



Prof. Indramani, President of Indian Society of Agri-Engineering, New Delhi was the Chief guest. While appreciating the topic of the conference, he elaborated on employment generation and industry development to create employment opportunities.

Dr. N. C. Patel elaborated on many opportunities in agriculture including bio fertilizers, bio-pesticides, agriculture tools, bio-fuel from algi, apiculture and horticulture, etc. He further focused on need of India concerned to energy generation and to expand it from 1.6 kilowatt to 2.5 kilowatt per hectare.

Prof. Dhiraj Karade and all other faculty associated with National Agriculture Higher Education Project took efforts to make the programme successful.



NATIONAL SEMINAR ATTENDED

Dr. A. J. Dhami, Professor & Head, and Dr. M. T. Panchal, Professor, Dept. of Gynaecology & Obstetrics, Veterinary College, AAU, Anand attended National Conference of Indian Society for Buffalo Development (ISBD) on 'Enhancing Rural Livelihood through Improved Buffalo Productivity and Health' organized by Vanbandhu Veterinary College, NAU, Navsari during 17-19 January 2019 and presented one lead paper and three research papers in a technical session on Animal Reproduction and Physiology, which were appreciated by the house.

AGRESKO MEETING



The meetings of eight different AGRESKO sub-committees of AAU, Anand were held during February-March 2019 during which recommendations, new technical programmes and on-going programmes were reviewed and discussed. The 15th Joint AGRESKO Meeting of AAU, Anand was held on 12-13 March 2019.

DISTINGUISHED VISITORS



- Delegates from Russia viz., Mr. K. A. Markelov, Acting Rector and Ms. Julia Petelina, Acting Head, Dept. of Oriental Languages from Astrakhan State University; Mr. Alekse Chesnokov, Head of Laboratory Engineering Centre, University of Technology, Korolev and Dr. V. R. G. Kurse, Executive Director, Star Overseas Ltd., Moscow, Russia visited AAU, Anand on 19th January, 2019. They had an interaction meeting with the Hon. Vice Chancellor, Dr. N. C. Patel, University Officers and all the Deans of respective Colleges.



- The 'Strategic Partnership Agreement' was exchanged between Mr. K. A. Markelov and Dr. N. C. Patel, Hon. Vice Chancellor, AAU, India in presence of all the worthy members from both the Universities. Then they visited Sardar Patel Agricultural Educational Museum, Biofertilizer Research Laboratory, Tissue Culture Laboratory, Pesticide Residue Laboratory, College of FPT & BE and Vidya Dairy. The Russian delegation appreciated the facilities and academic activities and showed keen interest to work in collaborative educational and research activities.
- Prof. Athula Ginige, Western Sydney University, Australia visited Anand Agricultural University, Anand on 1st March, 2019. He visited Sardar Patel Agricultural Educational Museum, Biofertilizer Research Project, Tissue Culture Laboratory, College of FPT & BE, IABMI, College of AIT, Pesticide Residue Laboratory and Vidya Dairy. He also had an interaction session with students of IABMI.



- Dr. V. P. Chahal, Assistant Director General (Agil. Extn.), ICAR New Delhi visited KVK- Devataj of AAU on 5 February 2019. He appreciated the activities of KVK and also interacted with farmers. He mentioned that KVK scientists work for the farming community and there is a good scope for developing an IFS model to demonstrate the integration of various equipments for increasing the income of farmers per unit area of Anand district.



- Shri O. P. Yadav, Director with group of scientists, CAZRI, Jodhpur visited Dept. of Agri. Microbiology on 5 February 2019 and appreciated the work carried out by the centre.

- Shri S. K. Chaudhari, ADG, NRM, ICAR, New Delhi visited Dept. of Agri. Microbiology on 5 February 2019 and appreciated the work on biofertilizer.



- Dr. Shushilkumar, Secretary, DARE along with Hon. Vice Chancellor, AAU, visited Dept. of Agri. Microbiology on 5 February 2019. He expressed his views about good research

on biofertilizer carried out by AAU especially in context to climate change.



- Padmshree Kanwal Singh Chauhan with progressive farmers of Haryana visited Dept. of Agri. Microbiology on 25 February 2019. He expressed his views on

use of biofertilizers for organic farming.



- Rajni Hatti-Kaul, Professor Biotechnology, as well as Dr. Angelini Triantafyllon, Angie Triantafyllou Deona Ltd Founder & CEO, Cyprus Food & Beverages, Sweden visited

Dept of Agri. Microbiology on 14 March 2019.

- Mr. Max Grell, Imperial College, UK, visited Dept. of Microbiology on 14 March 2019 and interacted with farmers group visiting the department.



MoUs SIGNED BY AAU DURING VIBRANT GUJARAT GLOBAL SUMMIT 2019

Three MOUs were signed by AAU with CSIR-CMCRI, Bhavnagar, NABARD, Ahmedabad and JAU, Junagadh for bilateral research collaboration, technology exchange and farmer services etc mutual benefiting activities in win-win relationship. The event was held at Mahatma Mandir,



Gandhinagar on 20 January 2019 in esteemed presence of Shri Parshottam Rupala, Union Minister of State for Panchayati Raj, Agriculture and Farmers Welfare Shri R.C. Faldu, Minister of Agriculture, Rural Development, and Fisheries, Govt. of Gujarat and other dignitaries.

CELEBRATION OF 70th REPUBLIC DAY



- Anand Agricultural University celebrated 70th Republic Day on 26 January 2019. All University Officers, staff, students of different faculties and family members remained present to grace this yearly celebration. Dr. N. C. Patel, Hon. Vice



Chancellor hoisted the flag. The National Anthem 'Jan Gan Man' and National song 'Zanda Uncha Rahe Hamara' sang by all.

- The College of Agriculture and Polytechnic in Agriculture, AAU, Vaso celebrated 70th Republic Day on 26 January 2019 at Vaso campus. The National Flag was hoisted by

Dr. Y. M. Shukla, Principal & Unit Head, followed by the National Anthem and National song. Students and staff members remained present to grace the occasion. Dr. Shukla delivered a speech on the importance of constitution of India as well as duties of every citizen to build a strong nation. The speech also covered the progress made in agriculture and allied sectors in Gujarat state and in India. The celebration was ended by Vande Mataram followed by distributing sweets to one and all present.



LIVE TELECAST OF NATIONAL YOUTH PARLIAMENT FESTIVAL



Live telecast of National Youth Parliament Festival organized at Vigyan Bhavan, New Delhi on 27 February 2019 was arranged at Sheth M. C. Polytechnic in Agriculture, AAU, Anand. Total 90 students and all the staff members of the polytechnic remained present in this programme.

GUEST LECTURE ON MAHATMA GANDHIJI



On the occasion of 150th Birth Anniversary year of Mahatma Gandhiji, a guest lecture was organized by Director of Students' Welfare office on 29 March 2019 at Auditorium, B. A. College of Agriculture, AAU, Anand. lecture on 'Gandhian Philosophy in context to Rural India with particular reference to Agriculture', was delivered by Padmashree Pro.(Dr.) Ravindra Kumar, former Vice Chancellor, Meerut University, Meerut (U.P.). Dr. N. C. Patel, Hon. Vice Chancellor, AAU, Anand remained present. All university officers, staffs and students

also attended the programme.



CELEBRATION OF INTERNATIONAL WOMEN'S DAY

Anand Agricultural University, Anand celebrated International Women's Day on 7th and 8th March 2019 with great enthusiasm and fervor. The theme of this year's International Women's Day was "Balance For Better". As a part of the celebrations, a cyclothon, marathon, competitions (*mehendi*, *rangoli* and best out of waste) and guest lectures related to empowerment of women were organized on 7th and 8th March 2019. Girl students participated in the marathon event. The event was flagged off by Mrs. Induben Patel, President, *Mahila Mandal*, AAU, Anand.

On 8th March, Dr. N. C. Patel Hon. Vice Chancellor greeted and addressed a gathering of about 450 girl students and female faculty members at Veterinary Science College. He flagged off the Cyclothon which started from Veterinary Science College and ended at Auditorium of B. A. College of Agriculture. The event was also attended by Dr. M. M. Trivedi, Director Students' Welfare, AAU and Principals and Deans of various colleges of the University. Four guest lectures were arranged at auditorium of B. A. College of Agriculture, AAU, Anand.



WOMEN'S AWARENESS PROGRAMME ON MENSTRUAL HYGIENE AND HEALTH

A Programme on Women's awareness regarding 'Menstrual Hygiene and Health' was organized in collaboration with Red Cross Society, Nadiad and Junior Chamber of India (JCI),

Nadiad at College of Agriculture and Polytechnic in Agriculture, AAU, Vaso on 18 March 2019.

An expert, Jc. Meghna Goswami delivered a talk on awareness regarding Menstrual Hygiene and Health. She also shared in depth information about their newly launch 'Pad bank' scheme and to install 'Pad Bank' at Vaso campus. All women staff members and NSS programme officers made extra efforts to make this programme interactive. All women staff members and 75 girl students actively participated in this programme and discussed various issues pertaining to women's health.



CELEBRATION OF INTERNATIONAL WOMEN'S DAY AT KVK, DEVATAJ

Krushvi Vigyan Kendra, Devataj celebrated International Women's day at KVK on 8 March 2019 in which 50 farm women participated. Dr. G. G. Patel, Senior Scientist & Head gave the information about importance of farm women in Agriculture and Animal husbandry. Dr. S. B. Katole, Scientist, Animal Science provided the information for clean and quality milk production and different nutritional practices to maintain animal health. Dr. Y. C. Lakum, Scientist, Agronomy suggested farm women to adopt value addition in different agricultural produce and to develop Self Help Group at Village level and increase the income and become self dependant. Dr. R. M. Patel, Scientist, Plant Protection shared the knowledge about stored grain pest management in farm produce.



BLOOD DONATION CAMP

A blood donation camp was organized in collaboration with Red Cross Society, Gujarat Branch at Vaso Campus on 14 March 2019. The camp was inaugurated by Dr. K. B. Kathiria,

Director of Research & Dean PG Studies, AAU, Anand and Dr. Y. M. Shukla, Principal & Unit Head, College of Agriculture & Polytechnic in Agriculture, AAU, Vaso. Total 63 students including 15 girl students participated with enthusiasm and donated blood.



SPECIAL NSS CAMP

The Special camp of NSS was organized during 14-20 March 2019 at Jitodia Village, Taluka and District Anand by Sheth M. C. Polytechnic in Agriculture, AAU, Anand. The students carried out various activities like village survey programme, *Beti Bhachao Beti Padhao Reli*, *Vyasan Mukti Rally*, *Swachchata Rally*, Cleanliness Campaign at Various Public places, roads, temples of the village, plantation programme at Swaminarayan temple, visit of progressive farmer's farm, interaction with *Anganvadi* children, Visit of *Yuvak mandal* office, Jitodia etc. Talk on different topics were also arranged for awareness among the NSS volunteers. Distribution and installation of sparrow nests in village were also carried out by NSS volunteers. Dr. Sureshbhai Solanki, Principal, Arts College, Borsad inspired the students for volunteer activities which may enhance social service, politeness, kindness and hard work among the students. NSS volunteers gave their feedbacks in detail about every activity organized during camp and delivered presentations individually on different topics related to NSS activities. Total 30 students of polytechnic participated in the NSS Special camp.



CALF/ HEIFER RALLY

Surti Buffalo Breeders Association of Gujarat project financed by the Department of Animal Husbandry, Govt. of Gujarat, Gandhinagar and Reproductive Biology Research Unit of



Veterinary College, AAU, Anand jointly organized 8 Calf/ Heifer Rally (*Tandurast Padi Harifai*) in the Kathana, Bagdu, Kahanwadi, Jaolnimuvadi, Ambav, Lolpura,

Rakhial, and Khorwad villages of Anand districts in each village, owner who ranked first, second and third got certificates and cash prizes of ` 3000, ` 2000 and ` 1000/- respectively. Kitbags & literature on animal husbandry were also provided to the buffalo owners.

KISAN GOSHTHI

Kisan Goshthi on 'Crop Production Technologies of various Summer Crops' was organized by Agricultural Research Station, AAU, Sansoli at Sankhej and Sadara villages of Kheda district during 21-25 January 2019. During the programme, lectures on different aspects viz., package of practices of various summer crops, micro irrigation, farm modernization and Integrated Pest Management (IPM) were delivered by the scientists of the centre. 43 farmers participated in this programme.



A WORKSHOP ON AWARENESS ON GENDER ISSUES AND THE ROLE OF YOUNG GENERATION

The Dept. of Basic Engineering and Applied Sciences, CAET, AAU, Godhra and Gender Resource Centre- State Resource Centre for Women, Ahmedabad jointly organized a one day workshop entitled 'Awareness on Gender Issues and the Role of Young Generation' on 16 February 2019 at CAET, AAU, Godhra. Dr. R Subbaiah, Principal and Dean, CAET, AAU,



Godhra, Mr. Amitbhai Dave, Consultant, GRC and Ms Himali Joshi, Training Specialist from GRC, Ahmedabad. Er. Kapil Mandloi, Assistant Professor & Head, BEAS, Prof Shefali K. Modi, Nodal teachers of Gender Champion, all HOD's of different department, faculties and students of CAET remained present.

DISTRICT LEVEL AWARENESS WORKSHOP ON ORGANIC FARMING

District level awareness workshop on organic farming was organized by KVK, Devataj at Kalamsar village of Khambhat taluka on 29 February 2019. This programme was organized as a part of Model Organic Farm Cum Training Center, the newly implemented project at KVK- Devataj. Main aim of this programme was to encourage farming community to adopt organic farming and to protect environment. More than 503 farmers attended the said workshop. Progressive farmer Shri Jayeshbhai Patel from village Zarola explained his experience about organic farming. On this occasion, farmers were encouraged by the programme president Dr. K. B. Kathiria, Director of Research and Dean PG Studies to adopt organic farming and increase their income by value addition. On this occasion five folders related to different subjects were also released. Further, Dr. K. P. Patel, Principal & Dean, BACA discussed with farmers regarding importance of organic farming in present situation. Dr. C. N. Patel, District Agril. Officer, Anand, explained about various government schemes related to organic farming. Dr. G. G. Patel, Senior Scientist & Head, KVK, Devataj made the farmers aware of organic farming and explained the different composting techniques to prepare organic fertilizer at farm level. In second session Dr. P. M. Patel, Agronomist, BACA explained about preparation of FYM by value addition under organic farming. Dr. Y. C. Lakum Scientist, Agronomy explained the details of registration process required for production and trading of organic products. Dr. S. B. Katole, Scientist, Animal Nutrition explained about key point to increase milk production. Method demonstration regarding preparation of compost was also



demonstrated by Shri. C. F. Makwana, Farm manager, KVK, Devataj. The programme was successfully anchored by Dr. R. M. Patel, Scientist, Plant Protection.

EXPOSURE VISIT OF FARMERS

A group of farmers from various talukas of Banaskantha district of Gujarat State under ATMA project visited Tribal Research cum Training Centre, AAU, Devgad Baria on 2 February 2019. Dr. G. J. Patel, Unit Head, TRTC, welcomed farmers and briefed them about different extension education and research activities carried out by Tribal Research cum Training Centre (TRTC), Tribal Farm Women Training Centre and Pashu Vigyan Kendra (Limkheda). Dr. Gunavant Thorat, Assistant Professor explained the seed production methods in Wheat and Gram as well as the experiments on effect of mulching and fertigation in Chilly through drip irrigation during the visit.



PASHUPALAK GOSHTHI AND ANIMAL HEALTH CUM FERTILITY CAMP

The College of Veterinary Science & Animal Husbandry, AAU, Anand in collaboration with Shroffs Foundation Trust, Vadodara under their Kamdhenu Project organized a 'Pashupalak Goshti' at Motil Sandhali Village, Ta/Dist. Chhotaudepur on 23 February 2019. Dr. A. J. Dhami, Dr. J. A. Patel, Dr. D. V. Chaudhari, Dr. J. K. Mahla, Dr. R. J. Modi, Dr. K. K. Sorathiya, Dr. D. B. Sadhu and Shri S. S. Pandya from Veterinary College delivered subject specific and farmer friendly tips on animal breeding, feeding, housing, health care, heifer raising, etc. including measures to control contagious diseases and infertility in their animals. The *Shibir* was very successfully organized and coordinated in the tribal belt by officers of Shroffs Foundation Trust, viz., Mr. Mahendra Patel, Mr. M. A. Makwana, Sr. Programme Officer, Mr. Ranjeet and others. Farmers were also invited to bring large number of their animals in 'Animal Health cum



Fertility Camps' organized by the same team at the same place next day. A very good interaction with farmers and faculty was held during this *Shibir* that motivated the poor folk of the region towards sound animal husbandry practices. More than 130 dairy farmers participated in the *Shibir*.

13th SCIENTIFIC ADVISORY COMMITTEE MEETING AT KVK, AHMEDABAD

13th Scientific Advisory Committee meeting for 2018-19 was organized at KVK, AAU, Ahmedabad on 11 March 2019. Dr. K. B. Kathiria, Director of Research, AAU, Anand was the Chairman of the committee. Dr. J. K. Patel, Senior Scientist and Head, KVK presented the annual progress report of KVK and all the scientists of the KVK presented the annual report of their respective subjects.



4th LAC MEETING OF PASHU VIGYAN KENDRA AT KVK, DAHOD

4th Local Advisory Committee (LAC) meeting of Pashu Vigyan Kendra, AAU, D'baria (Dist. Dahod) was organized at KVK, AAU, Muvaliya farm, Dahod on 7 March 2019. Dr. K. N. Wadhvani, Professor briefed about the activities carried out during the year 2017-18 and 2018-19 and action plan for the



year 2019-20 for developments of Pashu Vigyan Kendra. Dr. N. C. Patel, Hon. Vice Chancellor and Chairman of the 4th LAC, Dr. Arun Patel, Director of Extension Education, AAU, Dr. V. P. Ramani, Associate Director of Research, AAU, Dr. A. M. Thaker, Dean, Vety. College, AAU, Anand reviewed the activities and provided valuable guidelines and suggestions to boost up the activities of PVK. Two folders viz., 'Swachha Gunvattayukta Doodh Utpadan' and 'Pashu Samvradhan' of Animal Husbandry in Gujarati language were released on the occasion.

10th LAC MEETING OF TRTC, AAU, D'BARIA AT KVK, DAHOD



10th Local Advisory Committee meeting of TRTC, AAU, D'Baria was organized at KVK, Muvaliya Farm, Dahod on 7 March 2019. Dr. N. C. Patel, Hon. Vice Chancellor and Chairman of the 10th LAC, Dr. Arun Patel, Director of Extension Education, AAU, Dr. V. P. Ramani, Associate Director of Research, AAU, Anand reviewed the activities and provided suggestions to boost up the activities of the centre. Dr. G. J. Patel, Unit Head, briefed about the research and extension education activities carried out by the centre. On this occasion, six folders related to agriculture were released.



28th SCIENTIFIC ADVISORY COMMITTEE MEETING AT KVK, AAU, ANAND

28th Scientific Advisory Committee meeting of Krishi Vigyan Kendra, Anand was held on 11 March 2019. Dr. G. G. Patel, Senior Scientist and Head, Krishi Vigyan Kendra, Anand welcomed the Chairman and the members of SAC. He presented action taken report of the previous year and annual action plan of the KVK. Further, all scientists of KVK presented annual progress report, of their respective discipline. All Members visited different units and museum developed by

various scientists. Dr. G. G. Patel discussed various obstacles/difficulties in KVK with SAC members to solve issues.



KRUSHI MELA

Krushi Vigyan Kendra (KVK), AAU, Ahmedabad organized *Krushi Mela* in collaboration with ATMA Ahmedabad during 2-3 March 2019. Shri Devusinh Chauhan, Hon. Member of Parliament inaugurated the function with his inspirational speech. About 3000 farmers participated in the *Krushi Mela* and visited the *Krushi Pradarshan*.



KISAN SAMMELAN

Krushi Vigyan Kendra (KVK), AAU, Ahmedabad organized 'Pradhan Mantri Kisan Samman Nidhi Programme (PM-KISAN) on 24th February 2019. Hon. Minister of State (Chemical & Fertilizers, Road Transport & Highways, Shipping), Government of India, Shri Mansukhbhai Mandaviya had presided over the function. The live telecast of Hon. Prime Minister, Shri Narendra Modi from Gorakhpur was also organized. Total 810 farmers participated in programme.



CELEBRATION FIELD DAY ON WHEAT CROP FOR NEW VARIETY GW- 451

Krushi Vigyan Kendra, AAU, Anand celebrated 4 field day on Wheat crop for new variety GW- 451 at Tarapur village on 22 March 2019 in which 60 farmers participated. Dr. G. G. Patel, Senior Scientist & Head gave the information about new variety of wheat crop and difference between new variety and local variety on farmers' field. Dr. Y. C. Lakum, Scientist, Agronomy suggested farmers to cultivate new variety GW- 451 and explained the cultivation practices.



KHEDUT SHIBIR

- Paddy Research Station AAU Dabhoi organized a *Khedut Shibir* under Sardar Sarovar Project on 11 February 2019 at Vanadra. In this *Khedut Shibir*, Dr. K. B. Kathiria, Director of Research, AAU, Anand and Dr. H. P. Patel Unit Head, Pulse Research Station, AAU, Vadodara graced the occasion. The scientists from Anand Agricultural University gave their valuable inputs on the topic of Integrated Pest Management in Maize crop. Total 123 farmers of nearby villages of Dabhoi Taluka participated in the *Khedut Shibir*. The programme ended with concluding remarks by Shri R. L. Chotaliya, Unit Head Paddy Research Station, Dabhoi.



- Total 8 training programmes (4 on campus + 4 off campus), 3 *khedut Shibir* and 23 field days were organized / celebrated by Narmada Irrigation Research Project, AAU, Khandha during 11 February 2019 to 25 March 2019. More than 300 farmers benefitted.



- Karya Shibir* on 'Doubling Farmers Income through Precision Farming' was organized at Agricultural Research Station, AAU, Sansoli, (Dist. Kheda) during 6-7 February 2019. During the programme, discussion on application of remote sensing technology in agriculture was held. Later on, representative AMNEX Infotechnologies Private Limited, Ahmedabad demonstrated the application developed by them for GIS based crop cultivation record. 42 extension officers of Kheda district and representative of AMNEX Infotechnologies private Limited, Ahmedabad remained present.



QUALITY SEED GROWER TRAINING

A 25 days training programme on 'Quality Seed Grower' was organized at Agricultural Research Station, Sansoli under the project 'Skill Development Training Programme 2018-19' sponsored by Agriculture Skill Council of India during 07 February 2019 to 03 March 2019. During the training programme, lectures on crop production practices of various crops, seed certification standards as well as acts, post-harvest processing, precision farming, plant protection, marketing, etc. were delivered by the scientists of the centre. In addition to these, trainees were also oriented regarding crop production technologies by visiting various research as well as extension education institutes, private companies for upgrading their knowledge and practical exposure. Total 20 farmers from different villages of Kheda district enthusiastically participated.



ORGANIC FARMING TRAINING

- A total of 15 training programme on 'organic farming' for the farmers and 10 for extension functionaries as well as for para extension functionaries were organized by Agricultural Research Station, AAU, Sansoli (Dist. Kheda) under 'Establishment of Model Organic Farm cum Training Centre' project. During the training programme, lectures on different aspects of organic farming were delivered by the scientists of the centre and progressive farmers who adopted organic farming. In addition to this, demonstration units of compost for practical exposure and video films pertaining to various crop production technologies were also shown. Total 600 farmers and 450 extension personnels of Kheda district participated in this training programmes.



- Tribal Research cum Training Centre, AAU, Devgadhi Baria and B. A. College of Agriculture, AAU, Anand jointly organized training on 'Organic Farming' during 12 to 14 February 2019 at TRTC, AAU, D' Baria, Dist. Dahod. Dr. G. J. Patel, Professor and Unit Head, TRTC, in his lecture encouraged farmers to use agricultural chemicals critically and widely use organic matter for maintaining soil fertility. Dr. K. P. Patel, Chief Guest and Principal of BACA, AAU, Anand informed farmers about the bright future of organic farming and encouraged farmers for adopting organic farming to prevent environmental pollution for maintaining human health.

Dr. N. B. Patel, Training Assistant given comprehensive understanding of how the population of pests could be kept below ETL level by co-ordinating various biological systems of non-chemical pest control, which indirectly reduces the damages of crop. Dr. Gunavant Thorat, Assistant Professor gave guidance to the trainees about various organic fertilizers used in organic farming such as, farm compost, vermi compost, green manures etc.

Dr. B. D. Patel, Professor and Head, Dept. of Agronomy, AAU delivered a lecture on weed control in organic farming and Dr. P. M. Patel, Asso. Prof. delivered a lecture

on importance of various components of organic farming. 40 farmers from Dhanpur Taluka of Dahod district participated in this training.



TRAINING PROGRAMME AT CAET, GODHRA

- Department of FMPE, CAET, Godhra conducted one day farmers training cum demonstration programme on 28 February 2019. The training was conducted to promote awareness on Safety and Precaution while Operating Tractor and Other Farm Machinery. Dr. R. C. Salunkhe, Organizer and Assistant Professor, Dept. of FMPE mentioned some facts and figure about the accidents happened in Indian agriculture during operating various machinery. In his presidential address, Dr. R. Subbaiah, Principal and Dean, explained the cost of farm machinery and advised farmers to purchase the equipments which are suitable to their land holdings. Dr. R. Swarnkar, Professor and Head, delivered a lecture on safety and precaution while driving the tractor. He urged to use the safety gadget while working with agricultural machines. Dr. K. L. Dabhi, Assistant Professor delivered a lecture on precaution to be taken at the time of working with rotary machines like rotavator, chaff cutter, thresher, electric motor and plant protection equipments. Er. Rajesh Godhani, SRA conducted demonstration on how precaution should be taken at the time of working with various agricultural machines. Total 60 farmers participated in the training.



- Department of Farm Machinery and Power Engineering, CAET, Godhra organized one day farmers' training programme on 'Techniques to Increase the Farmers' Income through Farm Mechanization' on 08 March 2019.

Lectures on farm mechanization were delivered by Dr. R. Swarnkar, Professor and Head, Er. K. L. Dabhi, Assistant Professor, Er. R. S. Godhani, Senior Research Assistant of FMPE, Department. The other faculty members from various departments of the college also delivered lectures on various topics. At the end of the training programme, the staff of FMPE department demonstrated various farm machineries to the farmers. About 65 male and female farmers from Godhra and Shahera taluka participated in the training programme.



TRAINING PROGRAMME ON LEADERSHIP AND ENTREPRENEURSHIP DEVELOPMENT

Training Programme on Leadership & Entrepreneurship Development was organized during 7-8 February 2019 at College of Agriculture, Vaso. National Council for Climate Change Sustainable Development and Public Leadership (NCCSD), Ahmedabad provided training to the students of the College of Agriculture, Vaso. Dr. S. H. Akbari, DSW, AAU and Nisha Shah, CEO, NCCSD remained present in inaugural function.



AGRIUNISPORTS 2018-19

- 18th All India Inter Agricultural Universities Games and Sports Meet 2018-19 was organized by Punjab Agricultural University, Ludhiana during 2-5 January 2019. Total 18 girl students of AAU participated in Volleyball, Table Tennis and Badminton Tournaments. Table Tennis (Women) team



reached in Quarter Final, while Volleyball (Women) team reached in Pre-Quarter Final.

- Anand Agricultural University participated in 19th AGRUNIFEST held at Sardarkrushinagar Dantiwada Agricultural University, Sardarkrushinagar during 3-7 February 2019. Miss Shivani Mishra, a student of College of Dairy Science, AAU, Anand secured Gold Medal in Extempore event. Hon. Vice Chancellor, Dr. N.C. Patel and Director, Students' Welfare, Dr. S. H. Akbari congratulated all the participant students.



CAMPUS INTERVIEW



Campus Interviews were conducted by Tractors and Farm Equipment Limited (TAFE), Chennai and Mahindra and Mahindra Ltd., Mumbai, at CAET, AAU, Godhra. The campus interviews were conducted on 13 February 2019, respectively. During the session Dr. N. C. Patel, Hon. Vice Chancellor, AAU also interacted with the delegates of the companies. Both the renowned companies visited the campus and offered a very lucrative package to UG students.

EDUCATIONAL / INDUSTRIAL TOUR

- Educational tour of Final Year B. Tech. (Agricultural Engineering) students was organized by Processing and Food Engineering Department, CAET, AAU, Godhra from 26 December 2018 to 09 January 2019. The student got exposed to academic, research and extension activities. to some of the important institutions and universities. The students visited CTAE, MPUA&T, Udaipur; CAZRI, Jodhpur; ICAR - CIAH, Bikaner; Swami Keshwanand Rajasthan Agricultural University, Bikaner; Indian Agricultural Research Institute, New Delhi; IGNOU, New Delhi.



- Two days industrial study tour of 4th Semester B. Tech (Agril. Engg.) students was organized on 15-16 March 2019 by Department of FMPE, CAET, Godhra. First day, two private companies Viz. Captain Tractor Private Limited, Dharati Agro Engineering and Shapar (Veraval) were visited. The students observed complete assembling line of the mini tractor manufacturing and got acquainted with gear, differential, hydraulic, steering systems of tractor and other technical specifications of the 2WD and 4WD tractors manufactured by the company. At Dharati Agro Engineering, the students saw that the company had adopted so many new technologies in manufacturing seed drill for easy adjustment and precise dropping of the seeds in the soil. Second day, students visited the College of Agricultural Engineering and Technology, JAU, Junagadh, where they were oriented to implement shed, particularly the innovative equipments developed by the UG and PG students to overcome the specific problems of agriculture.



ALL INDIA VETERINARY PROFESSIONAL QUIZ COMPETITION

The students of College of Veterinary Science & Animal Husbandry, AAU, Anand participated in All India Veterinary College Table Tennis, Badminton Tournaments and Professional Quiz

competition organized by G. B. Pant University, Pantnagar from 14th to 16th March 2019. The students viz., Shri Goparam, Shri Pranav Anjaria, Shri Preet Shah and Shri Anoop Kumar secured 2nd position in All India Professional Quiz Competition and also won silver medal, where as in table tennis event boys' team of Veterinary College, Anand reached to semifinal round. Total 290 students from 16 veterinary colleges of the country participated in the events.



INTER COLLEGIATE AND POLYTECHNIC ATHLETIC MEET

Inter Collegiate and Polytechnic Athletics was held during 21-22 February 2019. Dr. N. C. Patel, Hon. Vice Chancellor, Shri Rohitbhai Panchal, Sardar Patel Award winner, Dr. S. H. Akbari, Director, Students Welfare, deans and university officers, staff and students remained present in the inaugural function. All the athletes showed stunning performance in Athletics event. Dr. S. H. Akbari, Director, Students' Welfare and Dr. K. P. Patel, Principal & Dean, Agriculture remained present in Closing Ceremony and distributed shields and certificates to the winners.



GUJARAT STATE INTER AGRICULTURAL UNIVERSITY POLYTECHNICS TOURNAMENT

Gujarat State Inter University Polytechnic Volleyball, Kho-Kho and Table Tennis tournament were organized by Junagadh Agricultural University, Junagadh on 1 March 2019. Anand Agricultural University became Runners-up in Volleyball and Table Tennis.



FACULTY NEWS

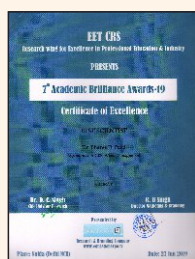
- Dr. R. V. Vyas, Professor & Head (Agri. Microbiology) acted as resource person in 49th Refresher Course: Biosciences at UGC HRD Centre, S. P. University and delivered two special talks to trainees of SAUs and traditional universities.
- Dr. Mukesh K. Tiwari, Assistant Professor and Head, Dept. of IDE, CAET, AAU, Godhra participated in 53rd Annual Convention of Indian Society of Agricultural Engineers (ISAE) and International Symposium on Engineering Technologies for Precision and Climate Smart Agriculture held during 28-30 January 2019 at Institute of Agricultural Sciences, Banaras Hindu University, Varanasi, UP. He presented two research papers in the symposium.

- 21 days ICAR sponsored training programme entitled 'Application of Advanced Instrumentation and Hydraulic Systems in Precision Agriculture for Crop and Environmental Sustainability' was organized from 15 February to 07 March 2019 at CIAE-ICAR, Bhopal (MP). Dr. Mukesh K. Tiwari, Assistant Professor and Head, Dept. of IDE, CAET, AAU, Godhra, delivered two expert lectures entitled 'Remote Sensing & GIS basics & application for natural resource management' and 'Introduction of soft computing techniques & its application in Agricultural Engineering.'

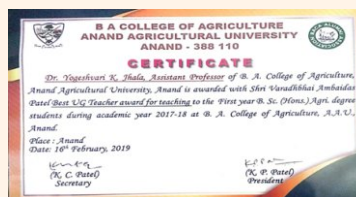
AWARDS



- Dr. Subrota Hati, Assistant Professor, Dairy Microbiology Department, SMC College of Dairy Science, Anand has been conferred the most coveted NAAS Young Scientist Award: 2017-18 in Animal Sciences sponsored by National Academy of Agricultural Sciences (NAAS), New Delhi. The award was given by Shri Radha Mohan Singh, Hon. Minister of Agriculture, Govt. of India during XIV Agricultural Science Congress held in NASC Complex, New Delhi on 20 February 2019 in presence of DG, ICAR and other dignitaries.



- 'Best Scientist Award' was awarded to Dr. B. D. Patel presented by EET CRS Research Wing for Excellence in Professional Education & Industry, Research & Branding Company, 7th Academic Brilliance Awards-19, Noida (Delhi NCR) on 27 January 2019.



Dr. Yogeshvari K. Jhala, Assistant Professor, Dept. of Agricultural Microbiology, BACA, received 'Shri Varadhbhai Ambaidas Patel Best UG teacher Award' of academic year 2017-18 for teaching to the first year B. Sc. (Hons.) Agri. students on 16 February 2019



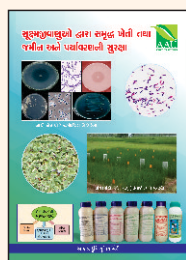
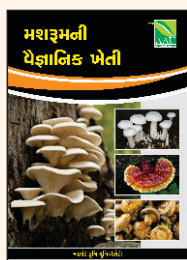
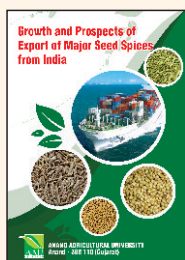
- Dr. N. M. Gohel, Associate Professor, Department of Plant Pathology, BACA, AAU, Anand awarded with 'Shri Varadhbhai Ambaidas Patel Best UG Teacher Award' for teaching to the Second Year B.Sc. (Hons.) Agri. students during academic year 2017-18 by BACA Alumni Association, BACA, AAU, Anand. The award was given during 8th Convention and Open Forum Discussion on 'Prospectus of Artificial Intelligence in Agriculture' organized by BACA Alumni Association on 16 February 2019 held at BACA, Anand.
- Dr. Dhara M. Paghdar, M. V. Sc. Scholar under the guidance of Dr. J. B. Nayak, Asso. Prof. & Head, Dept. of Veterinary Public Health and Epidemiology, Veterinary College, AAU awarded for the best oral presentation on the topic of 'Identification, Isolation and Molecular Characterization of ESBL Producing *E. Coli* from Raw Milk Samples' under the session of 'Antimicrobial Resistance' in the National Conference on 'Challenges and Opportunities for tackling Veterinary Public Health issues' at the Human, Animal & Environment Interface and XVI Annual Symposium of Indian Association of Veterinary Public Health Specialists organized on 26-27 February 2019 at Nagpur Veterinary College, MAFSU, Nagpur.



- Patel Hemaliben Bipinchandra, M.Sc. (Agri.) Plant Pathology student of B. A. College of Agriculture, AAU, Anand under the guidance of Dr. N. M. Gohel, Associate Professor was awarded with 'Shri Mukundbhai Varadhbhai Patel Best Master Degree Research Award' in Crop Protection Group for the academic year 2017-18 adjudged by BACA Alumni Association, BACA, AAU, Anand along with cash prize. The award was given during 8th Convention and Open Forum Discussion on 'Prospectus of Artificial Intelligence in Agriculture' organized by BACA Alumni Association on 16 February 2019 held at BACA, Anand.



AAU PUBLICATION



PUBLICATION OF FARM MAGAZINE



The Publication Unit, DoEE, AAU, Anand publishes the monthly farm magazine 'Krushigovidya' regularly for the benefit of the farming community since May 1948. There are 25,328 subscribers registered for this multicolored farm magazine upto March 2019.

RETIREMENTS

January 2019

- 1 Shri Pravinchandra Ambalal Patel, Jr. clerk, Office of the Executive Engineer, (Voluntary Rtd.)
- 2 Shri Bhanubhai Gotabhai Chauhan, Helper, Vet. Science College, Superannuation
- 3 Shri Kiranbhai Jashbhai Gajjar, Assistant Instructor, FPT&BE, (Voluntary Rtd.)
- 4 Shri Arunkumar Ramanbhai Patel, Agril Supervisor, BACA, (Voluntary Rtd.)
- 5 Dr. Navinchandra V. Soni, Professor(P), DEE, Superannuation
- 6 Shri Lorange Hiralal Christian, Sr. Clerk ,DEE, (Voluntary Rtd.)

February 2019

- 7 Shri Hirenkumar Manilal Patel, Junior Clerk, Dairy Science College Resignation
- 8 Dr. Kishorbhai Parsotambhai Patel, Principal, BACA, Superannuation
- 9 Shri Kanjibhai Maganbhai Vaghela, Peon, Vet. College, Superannuation
- 10 Shri Abhilash Ramanlal Gujarati, Head Clerk, Registrar Office, Voluntary
- 11 Shri Narendra Rashiklal Vyas, Peon, Comptroller Office, Superannuation
- 12 Shri Jashvantbhai Bhailalbhai Vasava, Asstt. Adm. Officer, Vet. College

March 2019

- 13 Smt. Hiraben Parsotambhai Harijan, Sweeper (Kalam-1), FPT&BE, Superannuation

When one door of happiness closes, another opens; but often we look so long at the closed door that we do not see the one which has been opened for us
- Helen Keller

Book-Post

To

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