

NEWSLETTER

Chaudhary Charan Singh Haryana Agricultural University

From Vice-Chancellor's Desk

The agriculture and allied sector of India continues to play a pivotal role for the sustainable growth and development of economy. Not only it meets the food and nutritional requirements of 1.3 billion Indians, it also contributes significantly to production, employment and demand generation through various backward and forward linkages. India has traversed its destination from “begging bowl” to self sufficiency in food production after green revolution and now the focus is shifting from food security to nutritional security. It is hoped that Food Security Act passed by the Government along with entrepreneurship schemes will certainly help to attain food and nutrition security.

Haryana is one of the smallest states in India with 4.4 million hectares of land but the size of holdings is decreasing with sub-divisions. At present, more than 67.58 per cent of the farmers are having less than 1.5 ha of operational holdings and cannot derive adequate benefit from production activity alone. Emphasis on secondary agriculture and entrepreneurship seems to be one of the solutions to this problem. Haryana is a major producer of food grains, arid-horticulture crops, milk, poultry etc., however, the post harvest management and marketing of produce is a challenge. There is a dearth of organized small and medium enterprises in the state and lack of know-how with regard to technology, quality assurance, safety and other management issues. Therefore, it is emphasized to promote and develop strong entrepreneurship programmes in the state through skill development and setting up of business incubators to start-ups. In order to strengthen the entrepreneurial activities in the agricultural related fields in the state and to fill up the exiting gap, CCSHAU has taken an initiative to set up an Agri Business Incubation Centre in collaboration with NABARD for which NABARD has granted assistance of Rs. 1174.85 lakhs to CCSHAU with the aim to promote agri business and entrepreneurship development through innovation, upgradation of technology and skill development. This Centre will provide guidance, technology infrastructure and platform to youth/ budding entrepreneurs for start-ups in different areas of agriculture and its allied fields for speedy commercialization of technology and build wealth to small and medium entrepreneurs resulting in economic development of the state.

The project, duration of which is 4 years, will develop University-entrepreneur/industry linkages, provide platform to entrepreneurs/ industries for Research and Development in process/ product development to improve the quality of their product, provide infrastructure and technical expertise to entrepreneurs in different areas of agriculture and allied disciplines along with assistance in commercialization and to incubate start-ups in establishing business through consultancy, trainings, business advisory services and synergy to a level of stability and success.



Prof. K.P. Singh

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Top 100 Stakeholders Agri Meet-2018



The University hosted Top 100 Stakeholders Agri Meet on February 23 with Minister of Agriculture and Farmers Welfare, Mr. O.P. Dhankar as Chief Guest. Mr. Manish Grover, Minister of State, Cooperation; Prof. K.P. Singh, Vice-Chancellor, CCSHAU and MHU; Dr. Gurdial Singh, Vice-Chancellor, LUVAS; Ms. Navraj Sandhu, Addl. Chief Secretary, Cooperation; Mr. Abhilaksh Likhi, Principal Secretary, Agriculture were special invitees on the occasion. Progressive farmers/ agri-preneurs, scientists and officers/ policy makers were also present. This Meet was organised to discuss the issues of doubling the farmers' income, straw management, climate smart agriculture and promotion of micro-irrigation and organic farming.

Addressing the meet, Mr. O.P. Dhankar, presented the agriculture scenario of the state and gave important tips for achieving the goal of doubling the income of the farmers. He also presented blueprint for the prosperity of the farmers. He suggested strengthening of low income generating cropping patterns with allied activities; adoption of mixed farming, selecting crops with high return, practicing dairy with crop production, value addition, packaging, branding, direct marketing, cutting down input cost and adoption of integrated farming systems as means for doubling the farmers' income by 2022. He highlighted

the initiatives taken by the Haryana government in this direction like making farmers risk free; launching Pradhan Mantri Fasal Bima Yojna; Bhavantar Bharpai Yojna; establishing centres of excellence; connecting grain markets to e-National Agriculture Market (e-NAM).

The Minister further said that emphasis should be given on peri-urban farming, filling of grain basket with fruits, flowers, vegetables, milk, eggs and fish; Haryana fresh; value addition, packaging, direct marketing, opening of agri-business schools, promoting agro forestry, climate smart agriculture institutes; bringing 10% land under organic farming; straw management; maintaining soil health; cow rearing; making Haryana No.1 in milk production; promoting poultry and fish farming; fashionable farming and increasing marketing facilities.

Speaking on the occasion, Prof. K.P. Singh said that challenge before Haryana is to maintain the No.1 status in agricultural production and household income. He highlighted the strength of Haryana in terms of the best coordination among scientists, farmers and officers and stressed that there is need of minimizing technology gap by selecting appropriate technologies for farmers. He suggested the action points like promoting soil-less cultivation by using indigenous materials to manage

soil borne pathogens/ nematodes; use of saline water after treatment, customized fertilizers for organic farming; strengthening of pesticide residue testing of agri-produce like honey, milk etc. to match the international standards; policy support for promoting use of drones in agriculture; clear cut policy/ guidelines on GM crops and separate budget by State Government for research projects based on state needs. He revealed that CCSHAU has initiated a project on solar based greenhouses and the University is working with the tagline "Destiny of Agri-preneurs" for attracting youths in agriculture.

An open session was held during the workshop, in which farmers/ agri-preneurs, scientists and officers/policy makers were invited to present their views. The deliberations were held regarding policies, problems and suggestions related to vegetable, mushroom, medicinal plant & strawberry cultivation; dairying; fisheries; marketing, loaning and subsidy; intercropping; supply of inputs; extension services; organic farming; minimum support price; breeding of Desi cows, crop insurance; FPOs; linkages of farmers' organisations with the Department of Agriculture and Farmers' Welfare etc.

This meet was coordinated by Dr. S. S. Sindhu, Additional Director of Research of the University.

Pt. Deendayal Upadhyaya Krishi Protsahan Puraskar to KVK Kurukshetra



Sh. Mukul Sangma, Director General, ICAR, Dr. Trilochan Mohapatra and DDG (Agril. Extension), ICAR, Dr. A.K. Singh also graced the occasion.

Delighted with this honour, Prof. K.P. Singh said that this award is a matter of pride for Haryana State and the faculty, staff and students of

This University, which has been conferred with the Best Institution Award at the national level twice in the past, is proud to receive this year the prestigious Pandit Deendayal Upadhyaya Krishi Protsahan Puraskar-2017 for the outstanding work done by its Krishi Vigyan Kendra, Kurukshetra in agriculture sector in Zone II of the country.

Hon'ble Prime Minister, Sh. Narendra Modi presented this award to the Vice-Chancellor, Prof. K.P. Singh at

the Krishi Unnati Mela – 2018 organised by the Indian Council of Agricultural Research at IARI, Pusa, New Delhi from March 16-18. The award carried a cheque of Rs. 2.25 lakh and a plaque.

Union Minister of Agriculture and Farmers Welfare, Sh. Radha Mohan Singh, Ministers of State for Agriculture, Sh. Parashotam Rupala, Smt. Krishna Raj and Sh. Gajendra Singh Shekhawat, Chief Minister of Madhya Pradesh, Sh. Shivraj Singh Chauhan, Chief Minister of Meghalaya,

this University. To top 60 KVKs under Zone II is very remarkable achievement. This award is the testimony of the significant work done by the KVK, Kurukshetra in promoting Zero Budget Natural Farming, transforming the Yari village of Shahabad into Khumb Gram (mushroom village) and making nearly 100 Scheduled Caste families self-reliant, apart from several other accomplishments. He congratulated Dr. Hariom, Coordinator of KVK, Kurukshetra and his team for this award.

CCSHAU Signs MoU with Nepal Farm Varsity

CCSHAU and Agriculture and Forestry University (AFU), Rampur, Nepal will collaborate with each other in the field of education and research in agriculture and allied sciences.

A Memorandum of Understanding (MoU) in this regard has been signed by Prof. K.P. Singh, Vice-Chancellor, CCSHAU and Prof. Ishwari Prasad Dhakal, Vice-Chancellor, AFU, Nepal, on February 3.

Besides undertaking collaborative research work, the MoU would also pave the way for exchange of students and researchers of these universities, participation in scientific seminars and academic meetings and the exchange of



academic information.

On this occasion, Prof. K.P. Singh said that a process of collaboration with academic and research institutions within and outside the country has been initiated by CCSHAU to strengthen its academic and research pursuits.

Prof. M. Kolakshyapati and Prof. N.R. Devkota, Registrar and Director, AFU, Nepal, respectively and CCSHAU officers including Dr. M.S. Sidhpuria, DHRM; Dr. Atul Dhingra, CAU; Dr. K.S. Grewal, Dean, COA and Dr. Rajvir Singh, Dean, COBS were present on the occasion.

Agriculture Need to be Developed as Enterprise: Chief Secretary



The Chief Secretary, Haryana, Sh. D.S. Dhesi said that in the changing world scenario, agriculture is needed to be developed as an enterprise and the young agricultural graduates can play a significant role in this. Sh. Dhesi was addressing as the Chief Guest in the seminar on the topic 'Nurturing Business Incubation and Entrepreneurial Approach in Agriculture' organised by the University on its 49th Foundation Day on February 2.

He said that the youth of India have proved their worth in several sectors like IT, transport and energy. But the number of agricultural graduates who want to become entrepreneurs in agriculture sector is far less compared to other areas. He said the agriculture sector has immense potential at the professional level. He called upon the students pursuing studies in agriculture to develop a sense of becoming entrepreneur instead of seeking employment after completion of their study.

He said that the Agri Business Incubation Centre (ABIC) being set up in the University with the financial grant of NABARD would be very useful for the students, agri entrepreneurs and farmers. In this Centre, several departments including CCSHAU, Banks, Agriculture Department, Science and Technology Department will have an

important role to play.

Congratulating CCSHAU fraternity on the Foundation Day of the University, he said that this University has contributed significantly, since its inception, in agriculture and rural development of Haryana. He also complemented the Vice-Chancellor, Prof. K.P. Singh for his deep knowledge about how to develop agriculture by using technology.

Prof. K.P. Singh, in his presidential remarks, informed that 130 companies are associated with the University and initiative has been taken for setting up ABIC with the aim to promote agribusiness and entrepreneurship development, for which NABARD has approved and sanctioned grant assistance of Rs. 1174.85 lakhs for establishing ABIC at CCSHAU, Hisar. The

ABIC will provide guidance, technology and infrastructure and focus on capacity building through counselling, training and business advisory services related to agriculture and allied areas for helping the students, farmers, unemployed youth and entrepreneurs for starting, running and sustaining the business in different areas of agriculture.

Dr. Harsh Kumar Bhanwala, Chairman, NABARD, said that the ABIC being setup at CCSHAU with the financial assistance of NABARD will be the first such centre in North India. He said the development of agriculture and farmers is the priority of NABARD. Keeping in view the well equipped laboratories and technology available at CCSHAU, we have selected this University for this Centre. He said this Centre will also assist the farmers in marketing of their farm produce.

Earlier, the Chief Guest, Sh. D.S. Dhesi, inaugurated High Mast National Flag measuring 60 ftX90 ft fluttering atop 207 ft tall flag mast in the lawns of centrally located Fletcher Bhawan- the administrative block of the University.

On this occasion, Vice-Chancellor, LUVAS, Dr. Gurdial Singh; Nodal Officer, Dr. Raj Bala Grewal; Commissioner, Hisar, Mr. Rajiv Ranjan; Deputy Commissioner, Mr. Nikhil Gajraj; CGM, NABARD, Mr. A.K. Shukla, other officers and scientists of the University were present.



Chief Secretary Lays Foundation Stone of ABIC

NABARD has approved and sanctioned grant assistance of Rs.1174.85 lakh to CCSHAU for establishing NABARD Agri Business Incubation Centre on its campus. The Chief Secretary, Govt. of Haryana, Sh. Depinder Singh Dhesi laid the foundation stone of this Centre on February 2. Dr. Harsh Kumar Bhanwala, Chairman, NABARD and Prof. K.P. Singh, Vice-Chancellor accompanied him.

The aim of this Centre is to develop university-entrepreneur/industry linkages; provide platform to entrepreneurs/ industries for Research and Development in process/ product development to improve the quality of their product; provide infrastructure and technical expertise to entrepreneurs in different areas of agriculture and allied disciplines along with assistance in commercialization; and to incubate start



ups companies in establishing business through consultancy, trainings, business advisory services and handholding to a level of stability and success.

Provision of continuous handholding support in terms of

capacity building, knowledge dissemination, business development, marketing etc. by the Centre is expected to benefit many budding entrepreneurs in the state over a period of time and generate gainful employment.

KVKs be Developed as Activity Centres: V-C



A one-day State Level Mid-term Plan Workshop of Krishi Vigyan Kendras (KVKs) of Haryana and Delhi states was organised by the University on January 4. Senior Co-ordinators of 14 KVKs under the ICAR, NDRI, Karnal, New Delhi and Co-ordinators of Self Help Groups participated in the workshop and presented work plan of their KVKs.

Prof. K.P. Singh, Vice-Chancellor, who inaugurated the workshop, called upon the participants to intensify efforts to come upto the expectations of the farmers. He also called for developing

an effective and sustainable plan should be prepared by the KVKs. He said from time to time various welfare schemes for the farmers are launched by the government, the KVKs should ensure that the benefits of these schemes are availed by the farmers. He emphasized that the Incharges and Scientists of KVKs should make efforts to reduce their administrative work to spare more time and energy to work for the welfare of the farmers.

Dr. Rajbir Singh, Director, Agricultural Technology Assessment &

K V K s a s activity centres for the all-round development of the farmers. He said that keeping in mind the interests of the farmers,

Research Institute, Ludhiana said that KVKs in Haryana are pioneer in the extension of technology. The commendable work that these KVKs have done recently for the crop residual management, has been appreciated by several Ministries of the Centre Government. He said that in future, all the KVKs of the Northern states will work together on Basmati rice, white fly prevention in cotton and crop residue management, whereas, they have already started work on Integrated Farming Systems to double the income of the farmers.

Dr. S.K. Singh, Director, Agricultural Technology Assessment & Research Institute, Jodhpur, said that for food security of the country, the KVKs have been preparing a crop-wise action plan for different areas. He said the priority of KVKs should be to develop agriculture as business. Earlier, Dr. R.S. Hudda, Director Extension Education, welcomed the guests and the participants.

Krishi Mela on the Theme: Doubling Income of the Farmers – A Big Draw



Over 44 thousand farmers from Haryana and adjoining states of Punjab, Rajasthan and Delhi thronged the Krishi Mela (Kharif) – 2018 hosted by the University from March 27-28. As the theme of the Krishi Mela was “Doubling Farmers' Income by 2022”, the visiting farmers were acquainted by the University scientists with the technologies which can enhance their income.

Lt. Gen. D.P. Vats (Retd.), Member of Parliament, inaugurated the Krishi Mela, while Prof. K.P. Singh, Vice-Chancellor, presided over the function. Capt. Bhupinder Singh, OSD to Chief Minister, Haryana, graced the occasion as Guest of Honour. Dr. A.K. Singh, DDG (Agricultural Extension), ICAR, New Delhi delivered the keynote address on the occasion.

Addressing the farmers, Lt. Gen. D.P. Vats called upon them to develop rapport with agricultural scientists and learn technologies, which are useful in increasing farm production and their income. He said that there was a time when our country depended on other countries to meet its requirements of foodgrains. But today the scenario has reversed. Now the country is not only meeting its own requirement of foodgrains, it is also exporting it to other

countries. This could happen with the efficient agricultural technologies developed by the scientists and pro-agriculture policy of the Government.

He said that to double their income, the farmers need to adopt advanced technology, storage, processing, conserve natural resources and balanced use of chemical fertilizers along with selling their produce directly in the market to get good value.

Capt. Bhupinder Singh said that the State Government is fully devoted to the cause of farmers and doing every bit for their welfare. He lauded the contributions of agricultural scientists in making the country self-sufficient in foodgrains and said that all farmers should attend such

programmes as they get to know about the technologies capable of enhancing their income. Further, he urged them to use drip and sprinkler irrigation systems to save water.

Dr. A.K. Singh said that the government is bringing more and more crops under MSP to benefit the farmers. He, however, expressed his concern over the falling ground water table and poor management of paddy straw by the farmers.

Prof. K.P. Singh said that the government is going to set up more than one thousand Bio Energy Plants for management of paddy straw and other crop residues. Expressing his happiness over the provision of funds to set up agro processing units and to tax-free the farmers producer company by the government, he said that the government is making all efforts to double the income of the farmers.

Earlier, Dr. R.S. Hudda, Director Extension Education welcomed the dignitaries and the farmers, while Dr. K.K. Yadav, Joint Director Extension conducted the stage.

Progressive Farmers Honoured

The Chief Guest accompanied by the Vice-Chancellor visited the stalls in the Agro-Industrial Exhibition put up at the Mela venue. He also honoured as

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Pearl Millet Biofortified Hybrid HHB 299 Released; HHB 311 Identified

Pearl Millet Biofortified Hybrid HHB 299 developed by the scientists of Bajra Section of the University has been released and notified for cultivation, in the 79th Meeting of Central Sub Committee on Crop Standard, Notification and Release of Varieties for Agricultural Crops held on January 20.

This high iron (73 ppm) biofortified Pearl Millet hybrid has been recommended for general cultivation in the irrigated areas of Haryana, Rajasthan, Delhi, Punjab, Gujarat, Madhya Pradesh, Maharashtra and Tamil Nadu states. The earheads of this hybrid are conical, compact and medium long. The average grain and dry fodder yield is 39.5 and 108.75 q/ha. It takes 81 days to mature. This hybrid has a yield potential of 49.0 q/ha under good management conditions. The grains are hexagonal shaped, grey in colour with 1000-seed weight of 11.3 g. It is resistant against downy mildew and blast diseases. This biofortified hybrid is first of its kind in the country.

Yet another biofortified Pearl Millet

hybrid HHB 311 with high grain iron content, has also been identified for cultivation in Zone A & B (Rajasthan, Haryana, Gujarat, Madhya Pradesh, Punjab, Delhi, Maharashtra and Tamil Nadu) of the country, in the 53rd Annual Group Meeting of All India Coordinated Pearl Millet Improvement Project held at Agriculture University, Jodhpur from March 22-24. This hybrid has an average grain and dry fodder yield of 40.0 and 87.0 q/ha, respectively, under Haryana conditions. The hybrid has high grain iron content (81-87 ppm) and zinc content (39-42 ppm). This hybrid matures in 75 to 80 days and has high degree of resistance against downy mildew and other diseases and insect-pests.

This bajra hybrid is the result of devoted efforts of scientists of Bajra Section including Drs. Ramesh Kumar, Dev Vart Yadav, Anil Kumar, L.K. Chugh, Narendra Singh and Kushal Raj. Two ICRISAT, Patancheru scientists, Drs. Govindraj and Anand Kunatti have also their contribution in the development of this hybrid.

Agri Leadership Summit



Third Agri Leadership Summit was organised by the Ministry of Agriculture and Farmers' Welfare at Rohtak from March 24-26. In this meet, CCSHAU, Hisar was one of the partners. The sessions viz., approaches for doubling of farmers income; organic village and zero budget agriculture and interaction among experts and farmers were chaired by the Vice-Chancellor, Prof. K.P. Singh. Dr. S.K. Sehrawat, Director of Research and Dr. R.K. Jhorar, Dean, COAE&T were the Moderators of these sessions. Dr. Raj Bala Grewal, Director, CFST, Dr. V.K. Batra, Head, Department of Vegetable Science, Dr. K.K. Kundu, Professor Agril. Economics, Dr. Pawan Kumar, Principal Agronomist and Dr. Hari Om, Sr. Coordinator, KVK Kurukshetra delivered lectures on the occasion.

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many as 19 progressive farmers drawn from different districts of Haryana state.

Highlights of Krishi Mela

- Over two dozen farmers from Nepal also visited the Krishi Mela.
- Farmers purchased certified seeds of different Kharif crops, vegetables and fruit saplings worth Rs. 2.15 crore and farm literature worth Rs. 32 thousand from the counters set up by the University at the Mela venue. They also got tested 214 soil samples and 195 water samples.
- Guided visits of farmers to the experimental area of the University were conducted to show them latest

varieties/techniques pertaining to Rabi crops.

- Live/dummy demonstrations on innovative farm technologies were laid out to educate farmers about 'know-how' and 'do-how' of the technology useful to double their income.
- Scientists-farmers meets were held to give opportunity to the farmers to have face-to-face interaction with the University

scientists.

- The Agro-Industrial Exhibition that housed stalls by public and private companies as well as University departments, was the major attraction of the farmers.



CCSHAU Wins Rs. 24.83 Crore IDP Project

CCSHAU has won a prestigious Rs. 24.83 crore project entitled "Strengthening Institutional Capacity to Produce Skilled Professional for Market Driven Agriculture" under Institutional Development Plan (IDP) of recently launched National Agricultural Higher Education Project (NAHEP). The duration of this project is four years (2017-18 to 2020-21) and it is funded by ICAR with the assistance of World Bank and Govt. of India on a 50:50 cost sharing basis.

The project aims to develop resources and mechanism for supporting infrastructure, faculty and student advancement and providing means for better governance and management of agricultural universities, so that a holistic model can be developed to raise the standard of current agricultural education system that provides more jobs and is entrepreneurship oriented and on par with the global agriculture education standards, which could ultimately build a high ranked world class university.

Prof. K.P. Singh, Vice-Chancellor and IDP Project Leader told that the focus in this project will be on generation of market demand based highly skilled agricultural professionals. To give effect

to this, innovative courses and training programmes in partnership with industry and universities abroad will be started to enhance employability and nurturing entrepreneurial skills to produce the next generation of graduates and leaders for climate resilient market driven sustainable agriculture in a global context. Our international partner institutions, namely Michigan State University, USA and Wageningen University and Research, The Netherlands have given their consent to be the collaborating partners with CCSHAU in the implementation of this project. Besides, the newly established Agri Business Incubation Centre and our partner NABARD will also play a key role in creation of skilled start-ups and entrepreneurs in production, inputs, processing, value addition and marketing. Project investment will be made on infrastructure, competency development of faculty, attracting talented students to agriculture and providing more relevant and higher quality education to students of this University.

Dr. K.S. Grewal, Dean, College of Agriculture, is the Principal Investigator of this project.

Rs. 538.44 Crore Budget Approved

The Board of Management of the University approved the budget proposal of the University for Rs. 538.44 crore for fiscal year 2018-19.

In the meeting held on March 30, Dr. Atul Dhingra, Comptroller, presented the budget of CCSHAU to the tune of Rs. 538.44 crore for the financial year 2018-19 in the meeting of Finance Committee held on March 30. The State Govt. share under Agri.(B) (earlier Non-plan Agri.) scheme is Rs. 15000.00 lakh and under Agri. (A) is Rs. 32698.20 lakh. In ICAR scheme, provision has been made for Rs. 3706.80 lakh. In centrally sponsored

scheme, the provision is Rs. 200.00 lakh and in schemes of other miscellaneous agencies, the provision is of Rs. 277.44 lakh. Remaining amount of Rs. 1962.26 lakh is internal accrual.

Out of the total budget, 11% would be spent on research activities, 11% on teaching activities, 4% on extension activities, 67% on administration (including salary, retiring benefits of the whole University and pension of the retirees) and students/employees welfare & miscellaneous, 6% on building maintenance and service unit and 1% on SCSP.

Induction Training for Faculty

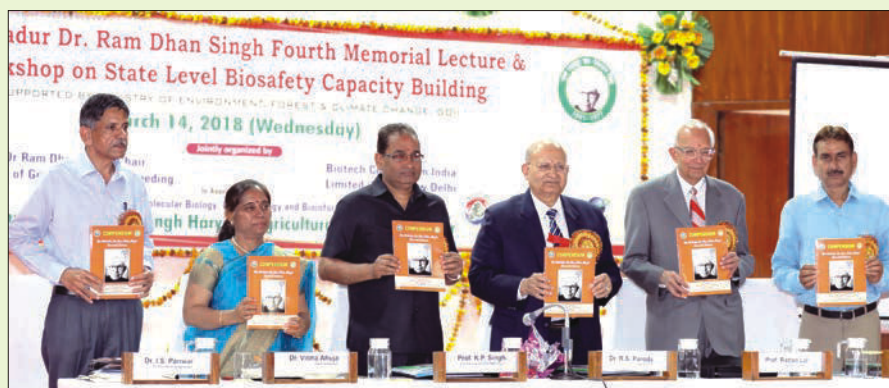


Reputation of educational institutions depends on their faculty's capability and skill. So faculty has an important role in earning national and international recognition to an educational institution, said the Vice-Chancellor, Prof. K.P. Singh while addressing the participants of one-month Induction Training Course for newly appointed faculty of the University on January 6. In this training organised by Directorate of Human Resource Management of the University, 30 newly appointed teachers, scientists and extension specialists participated.

He said that this University has many expectations from the newly appointed faculty. He encouraged the faculty members to do the best research and publish every year at least 2-3 research papers in prestigious journals with high NAAS rating or impact factor. They should also develop cooperation with the industry and make the University self sustainable. He said that for prosperity of the farmers, the extension specialists should go an extra mile to make them entrepreneurs.

Earlier, Dr. M.S. Siddhpuria, Director Human Resource Management welcomed the Chief Guest and the participants. He also highlighted the different activities undertaken by the Directorate for the development of human resource of the University. Dr. Aparna, Joint Director Human Resource Management and Dr. Satnam Kaur were also present.

Rao Bahadur Dr. Ram Dhan Singh Memorial Lecture



Fourth Rao Bahadur Dr. Ram Dhan Singh Memorial Lecture was organised in the University on March 14. On this occasion, former Secretary, DARE and former Director General of ICAR, Padamshi Dr. R.S. Paroda was the Chief Guest, while the Vice-Chancellor, Prof. K.P. Singh presided over. President of the International Union of Soil Sciences and Director, Carbon Management and Sequestration Centre, Ohio State University, Columbus, USA, Prof. Rattan Lal was the keynote speaker and Chief General Manager, Biotech Consortium India Ltd. (BCIL), Dr. Vibha Ahuja graced the occasion as Guest of Honour.

Addressing the participants, Dr. R.S. Paroda expressed concern over lack of organic carbon content in the soils of Haryana and Punjab. He said if timely attention is not given to maintain soil

health, then it will have serious consequences. He further said that after the Green Revolution, White Revolution and Blue Revolution, there is need of ushering evergreen revolution in the country. He also laid stress on developing technology that cut down the cost of cultivation for doubling the farmers' income by 2022. He released a book on this occasion.

The Vice-Chancellor, Prof. K.P. Singh said that the University is working on the Zero Waste System, under which the University's waste material will be recycled right here and reused. He revealed that in the report on doubling the income of farmers handed over to the State government, it has also been suggested to set up Rural Waste Compost Unit in villages, so that the organic matter prepared in this unit can be used in the village itself. Appreciating

the Ujjwala Yojana implemented by the Government, he said that it will reduce fuel consumption on one hand and air pollution on the other. He advised the young faculty and students to imbibe the habit of working hard for finding solution of current problems of agriculture. He also commended Prof. Rattan Lal for instituting a Gold Medal for postgraduate students of Soil Science Department of the University.

Prof. Rattan Lal in his keynote address on the topic 'Soil Degradation in India and the Positive Role of Plant Breeding' emphasized on research interventions for sustaining soil health of the State.

On this occasion, a Workshop on State Level Biosafety Capacity Building was also organised by BCIL in association with Department of Molecular Biology, Biotechnology and Bioinformatics of the University. The Hisar Chapter of Indian Society of Soil Science, Department of Soil Science, CCSHAU, Hisar felicitated the dignitaries on the occasion.

On this occasion, Dr. Kaushak Majumdar, Vice-President, International Plant Nutrition Institute, gave away 2000 dollars prize awarded under the IPNI to Mr. Suresh Kumar, Ph.D. student of Agronomy Department of the University.

Bajra Section Wins Awards

Bajra Section, Department of Genetics & Plant Breeding of the University has been bestowed with Outstanding Partnership Award – Asia for the year 2017 for Pearl millet Biofortification Research and Development Partnership for Improved Human Nutrition in India (Harvest Plus Project) by ICRISAT, Patancheru.

Besides, in recognition of outstanding contribution in the field of Pearl Millet improvement, this Section has also been conferred the Best ICAR-AICRP Centre Award (2013-18), at the

53rd Annual Group Meeting of All India Coordinated Pearl Millet Improvement Project held at Agriculture University, Jodhpur, from March 22-24. This award has been made possible due to the concerted efforts of Bajra Scientists, namely,

Drs. H.P. Yadav, S.K. Pahuja, Anil Kumar, L.K. Chugh, Virender Malik, Dev Vart Yadav, Ramesh Kumar, K.D. Sehrawat, M.S. Dalal, Kushal Raj,



Narender Singh, Yashpal Yadav, R.A.S. Lamba and Yogender Kumar who contributed in various capacities during this period.

University Confers Best Teacher Awards



Three Professors of the University have been felicitated in recognition of their performance and significant achievements. They were presented the Best Teacher Awards at the Award Ceremony held on March 21.

The awardees include Dr. Ashok Kumar Sarial, College of Agriculture, Kaul, (Presently, Vice-Chancellor of CSK Himachal Pradesh Agricultural

University, Palampur), Dr. Urnil Verma, Mathematics and Statistics Department, College of Basic Sciences & Humanities and Dr. Chandrakala Singh, Human Development & Family Studies Department, College of Home Science. While, Dr. Sarial was conferred upon the award for the year 2007-08, the awards presented to other two Professors pertained to the year 2014-15.

The awards were presented by the Vice-Chancellor, Prof. K.P. Singh. Congratulating the awardees, Prof. Singh said that teachers are the backbone of a country and they contribute a lot in the nation building. Every teacher should perform his duty with full devotion and dedication. He appreciated the ICAR for instituting this award. He said such honours are necessary to maintain high academic standards in educational institutions as they motivate the awardees and inspire others to achieve excellence.

Dr. Asha Kawatra, Dean, Postgraduate Studies and Convener of the Award Ceremony, Deans of constituent colleges, Directors, Registrar and faculty were present on the occasion.

Students Bring Laurals in Sports Meet



The University secured second position in the 18th All India Inter Agricultural University Sports Meet held at University of Agricultural Sciences, Bangalore.

Out of 42 students of CCSHAU, who competed in different sports events, 40 had won medals and brought second position to the University.

The Vice-Chancellor, Prof. K.P. Singh congratulated the varsity team for its glorious performance in this Sports Meet and hosted tea party in honour of these players. The detail of the medals won by CCSHAU players is as follows:

Aarushi: Gold Medal 800 M, 1500 M and Silver Medal 400 M; **Amit:** Gold Medal 100 M, 200 M, 400 M; **Dinesh:** Gold Medal Triple Jump, Long Jump; **Rakesh:** Gold Medal 800 M; Gold Medal 4X400 Relay (Male Category); Gold Medal 4X100 Relay (Male Category); **Yugwinder Goyat:** Silver Medal 100 M, 200 M, 400 M; **Mukul:** Silver Medal Jevlion Throw; Silver Medal 4X400 Relay (Women Category); Silver Medal 4X100 Relay (Women Category); **Akash Saroha:** Bronze Medal Discus Throw; **Anand:** Bronze Medal 1500 M; **Lokesh:** Bronze Medal 800 M; Volleyball: Silver Medal.

Raya Variety RH 725 Notified

A new raya variety RH 725 developed in the University has been identified for release under timely sown and rainfed conditions of Zone-II (Jammu, Punjab, Haryana, Delhi and northern Rajasthan). Its proposal for notification was submitted to the Central Sub-Committee on Crop Standards, Release and Notification of Varieties. The committee in its meeting held in the month of January, 2018 under the chairmanship of DDG (Crop Science), ICAR, New Delhi, approved the proposal and the variety has now been notified for cultivation.

Raya variety RH 725 showed about 22.8% superiority over the latest released variety RH 406 with 25-26 q/ha average seed yield in trials under rainfed conditions. This variety has long main shoot, bold seed (>6.0 g 1000-seed weight) and long semi-appressed siliqua. It matures in 140-145 days.

Athletic Meet: COA and COHS Win Championship Trophies



In the 48th Annual Athletic Meet of the University, College of Agriculture, Hisar bagged the Championship Trophy in men category and College of Home Science won the championship trophy in women category. Mr. Amit of College of Agriculture, Hisar and Ms. Aarushi of

College of Home Science were declared the Best Athletes in their respective category and presented with Satya Prakash Arya Best Athlete Trophy.

Nearly 450 students of constituent colleges of CCSHAU and LUVAS participated in the Athletic Meet

organised by Directorate of Students' Welfare from January 24-25. The Vice-Chancellor, Prof. K.P. Singh, who inaugurated the Athletic Meet, also gave away prizes to the winners of different athletic events at the closing ceremony.

Speaking on the occasion, the Vice-Chancellor called upon the students to give importance to sports at par with academics as sports keep them fit and inculcate the habit of hard work and discipline. He said this University provides the best sports facilities and students should avail them. He also revealed that the University has been allocated a grant of Rs. 4.75 crores for the restoration of Synthetic Athletic Track and another Rs. 8 crore for construction of Multipurpose Hall by the Government.

Dr. D.P. Nandal, DSW, who presided over the function, lauded the students for the discipline and sportsmanship shown by them in the Athletic Meet.

Book Exhibition Marks Foundation Day

A two-day Book Exhibition was organised by Nehru Library on the occasion of Foundation Day of the University on February 2. The Chief Secretary, Government of Haryana, Sh. D.S. Dhesi inaugurated the exhibition. Dr. Harsh Kumar Bhanwala, Chairman, NABARD, Prof. K.P. Singh, Vice-Chancellor, CCSHAU and Dr. Gurdial Singh, Vice-Chancellor, LUVAS, were also present.

Sh. Dhesi, accompanied by the Vice-Chancellor, Prof. K.P. Singh and University Librarian, Dr. Saroj S. Jeet Singh took round of the Book Exhibition. Sh. Dhesi praised the Book Exhibition and said that despite the ever increasing use of internet, the importance of books and book fairs has not diminished.

Prof. K.P. Singh said that Nehru Library is a world class library as far as facilities and collection of books,



scientific journals etc. are concerned.

In the Book Exhibition, about eight thousand books in the field of agriculture science, basic science, home science, food science & technology,

nanotechnology and business management subjects, general knowledge etc., were displayed by around 15 well known publishers and distributors.

Participation in Conferences/Workshops/Trainings

- Dr. Dev Vart Yadav, Assistant Scientist, Bajra Section, participated in the Review and Planning Meeting of Harvest Plus Project (Pearl Millet Biofortification Research and Development Partnership for Improved Human Nutrition in India) at ICRISAT, Patancheru, on February 22.
- Dr. R.S. Kanwar, Professor & Head and Dr. Anil Kumar and Dr. P. Banakar, Assistant Scientists, Department of Nematology, participated in XX Biennial Group Meeting of All India Coordinated Research Project on Nematodes in Agriculture at Anand Agricultural University, Anand, Gujarat, from February 15-17.
- Drs. S.K. Pahuja, Anil Kumar, L.K. Chugh, Virender Malik, Dev Vart Yadav, K.D. Sehrawat and Kushal Raj, Scientists from Bajra Section, attended 53rd Annual Group Meeting of All India Coordinated Pearl Millet Improvement Project at Agriculture University, Jodhpur, from March 22-24.
- Dr. Anil Kumar, Assistant Scientist, Department of Agril. Meteorology along with Dr. S.C. Bhan, DGM (Agro-Advisory Service Division) IMD, New Delhi, participated in the 3rd Agriculture Leadership Summit-2018 at Rohtak on March 25.
- Drs. C.S. Dagar and Anil Kumar, Department of Agril. Meteorology participated in 5th In-service capacity building training programme on "Development of Dynamic Crop Weather Calendar for Operationalizing Weather Forecasting" of AICRPAM at JNKVV, Jabalpur, Madhya Pradesh, from February 21-28. They also attended VII QRT meeting of AICRPAM and AICRPDA Centres at JAU, Junagadh, Gujarat, from March 12-13.
- Dr. D.P. Malik, Department of Agril. Economics, attended and presented research paper at International Congress on Cotton and other Fibre Crops held at Umiam, Meghalaya, from February 20-23.
- Dr. Krishna Rolania and Dr. Sushil, Department of Entomology attended International Congress on Cotton and other Fibre Crops at Umiam, Meghalaya, from February 20-23.
- Dr. Manoj Kumar, Department of Mathematics and Statistics attended training on Recent Development in Statistical Modeling and Forecasting in Agriculture from December 28 - January 17.
- Dr. Tarun Verma, Department of Entomology attended Annual Review Progress Meeting of Farmer FIRST Programme at IARI, New Delhi, from February 21-22.
- Dr. Indu Arora, Assistant Scientist, Department of Vegetable Sciences attended National Seminar on "Hi-Value Vegetable Crops held at NAU, Navsari, Gujarat, from February 1-3. She received the third Best Oral Presentation Award in the seminar.
- Dr. Satpal, Department of Agronomy, presented a paper entitled, "Response of Single Cut Forage Sorghum Genotypes to Different Fertility Levels" in National Agronomy Congress-2018 held at Govind Ballabh Pant University of Agriculture & Technology, Pantnagar, from February 20-22.
- Dr. Shweta, Department of Agronomy presented a paper entitled "Redesigning Agronomy for Nature Conservation and Economic Empowerment" in National Agronomy Congress-2018 held at GBPUAT, Pantnagar, from February 20-22.
- Dr. Meena Sewhag, Department of Agronomy presented a poster paper on "Smart Nitrogen Management for Improving Nitrogen Use Efficiency in Wheat" in National Seminar on Transforming Agriculture to Doubling of Farmers' Income held at Babasaheb Bhimrao Ambedkar University, Lucknow, from February 10-11. The poster paper that was co-authored by Drs. Parveen Kumar, Shweta and V.S. Hooda was declared the Best Poster Paper.
- Dr. Samunder Singh, Prof. & Head, Department of Agronomy delivered a lead lecture on Integrated Weed Management in Cotton in the International Congress on Cotton and other Fibre Crops held at Umiam, Meghalaya, from February 20-23.
- Dr. S.S. Punia, Principal Agronomist, Department of Agronomy delivered lecture on Weed Management in Cotton in the International Congress on Cotton and other Fibre Crops held at Umiam, Meghalaya, from February 20-23.
- Dr. Sunita Mehla, Professor, Department of Business Management presented paper entitled "Restructuring of Primary Market – The Resource Mobiliser" in the National Seminar on Indian Financial Services – A Way Ahead' held at Osmania University, Hyderabad, from February 16-17. She also presented paper entitled "Challenges for Agricultural Economy in Haryana" in the 30th Annual Conference of Haryana Economic Association held at NIT, Kurukshetra, from March 9-10.
- Dr. Yadvika, Assistant Scientist, attended XIXth Annual Workshop of AICRP on Energy in Agriculture and Agro-based Industries held at Tamil Nadu Agricultural University Coimbatore, from January 17-19.

News From Krishi Vigyan Kendra

Farmers-Scientist Interaction and Field Day

Under the auspices of ACIAR (Australian Centre for International Agriculture Research) project, a farmer-scientist interaction & field day on zero tillage wheat in non-wheat system was organised at village Fatehpur, district Mahendergarh.

Dr. Dharam Bir Yadav, Project Director, CCSHAU, Hisar, asked the farmers to adopt zero tillage technology on large scale. He said that this leads to savings in cost of cultivation by about Rs. 4000-5000/ha, in addition to saving of diesel required for sowing

operations. He said sowing of wheat can be done without field preparation after cotton, bajra and guar also. He appreciated the efforts of KVK, Mahendergarh and the farmers in demonstration of this technology at farmers' fields.

Dr. Sudha Chhikara, Sr. Coordinator, KVK, Mahendergarh welcomed the guests and thanked the farmers for their cooperation in on-farm trials on zero tillage wheat.

Dr. Ashok Yadav, a pioneer of this technology, discussed his experiences

and asked the farmers to come forward to adopt it on large scale.

Dr. Ramesh Kumar, organiser of the programme, elaborated do-how of the technology and past experiences.

On this occasion, visit to farmers' fields was also conducted to see the wonderful crop under zero tillage.

The programme was attended by about 200 farmers of nearby villages. A quiz competition was also held, in which women participated with enthusiasm. Progressive farmers were honoured on the occasion.

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College of Agriculture, Hisar

- Department of Horticulture organised two trainings for farmers on Fruit Production Technology and Post Harvest Handling of Fruit Crops from March 13-21 and March 19-21 under the project-Farmers First Programme, in which 30 farmers participated.

- The Precision Farming Development Centre, Department of Horticulture organised four trainings viz. Use of Plastics in Horticultural Crops (16.03.2018); Nursery Raising in Polyhouse (17.03.2018); Micro-Irrigation and Use of Plastics in Horticultural Crops (22.03.2018); and Drip Irrigation and Fertigation in Horticultural Crops (24.03.2018). Out of these four trainings, one was organised exclusively for women, one for farmers of adjoining Rajasthan state and other two for Haryana farmers.

- Department of Seed Science & Technology demonstrated the different classes of seed and seed production & testing techniques to the farmers in the Krishi Mela (Kharif)-2018, organised by

the University from March 27-28. The scientists of the department motivated the farmers to enhance their income by participatory seed production programme. In the Krishi Mela, Department of Agrometeorology registered about 2000 farmers for Weather Forecast SMS.

- An Extension booklet titled "*Haryana Me Paye Jane Wale Mukhya Padap Sutrakrimi Tatha Unka Parbandhan*" written by Drs. R.S. Kanwar, Sardul Mann and Anil Kumar, was released in the XX Biennial Group Meeting of All India Coordinated Research Project on Nematodes in Agriculture held at Anand Agricultural University, Anand, Gujarat, from February 15-17.

- Department of Nematology in association with KVK, Fatehabad organised Molya Field Day on March 15.

- Three PG students of Department of Nematology, namely Vinod Kumar, Ajay Singh Sindhu and Babita Kumari participated in International Conference on Bio and Nano Technologies for Sustainable Agriculture, Food, Health,

Energy and Industry held at GJUS&T, Hisar from February 21-23. Besides, another PG student, Harjot Singh Sidhu, presented a poster titled "Screening for Resistance of Root-Knot Nematode, *Meloidogyne incognita* race 3 on Bt cotton in International Congress on Cotton and other Fibre Crops at Umiam, Meghalaya, from February 20-23.

- Two PG students, namely Vinod Kumar and Babita Kumari of Department of Nematology presented a paper in International Conference on Vision 2022: A New India held at University of Lucknow, Lucknow, from January 27-28. They also presented a paper in National Conference on Sustainable Agriculture, Food and Nutritional Security organised by School of Agriculture, Lovely Professional University, Jalandhar, Punjab, from February 16-17. Besides, Vinod Kumar presented a paper in Recent Trends in Science & Technology: A Computational Approach at Faculty of Physical Science, Ch. Bansi Lal University, Bhiwani, Haryana, on March 23.

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- Department of Vegetable Science organised two training programmes on



Production Technology of Spice Crops on February 27 and March 6. In each training 75 farmers participated.

- Department of Nematology organised a guest lecture by Dr. Gautam Chawala, Principal Scientist, IARI, New Delhi, on Molecular Diagnostic of Plant Parasitic Nematodes on January 5.
- Department of Vegetable Science stall was awarded First Prize in the Krishi Mela (Kharif) - 2018 organised by CCSHAU, Hisar, from March 27-28.
- Dr. Samunder Singh, Head, Department of Agronomy and Dr. S.S. Punia, Principal Agronomist, delivered lecture on Herbicide Spray Technique and Efficient Weed Management by Using Herbicides in Different Crops, respectively in the training organised by KVK, Fatehabad on February 9. Dr. Samunder Singh also delivered a talk on Importance of Forage and Fodder Crops in Improving Milk Yield in the training organised by KVK, Panipat on February 13.
- Department of Agricultural Economics has been sanctioned research project on Resource Use Planning for Sustainable Agriculture by the ICAR with an outlay of Rs. 33.62 lakh for three years (2017-20).
- Two Ph.D. students of Department of Agricultural Economics, Sanjay Bhyan and Kavita and one M.Sc. student, V. Mehesh qualified UGC Net. Apart from

this, an M.Sc. student, Naveen has been selected as Agriculture Officer in the Union Bank of India and Vivek Garg has been selected for admission in IRMA. Two Ph.D. students, Raj Kumar and Sumit have joined as SRF in NIAP-ICAR funded research project in the Department.

- Two Ph.D. scholars of Department of Genetics & Plant Breeding, Reena Rani and Hridayesh Anuragi have qualified ARS-2016 and got selected for Agricultural Research Service (ARS) in the discipline of Genetics & Plant Breeding.
- Four students of the Department of Soil Science, namely Sangam Badesra, Mukesh, Sushmita Boora and Amit Kumar have been placed in Oriental Bank of Commerce and Indian Bank, respectively.
- The team of Drs. Satyavan, S.K. Sharma and Ram Prakash working in AICRP on Management of Salt Affected Soils and Use of Saline Water in Agriculture, Hisar Centre, has contributed significantly in the multi-location evaluation trial (IVT, AVT-1 and AVT-2) of Indian Mustard (Salinity Varietal Trial) that led to the identification of new genotype of Indian Mustard CS 60 for salt tolerance.
- Dr. Amita Girdhar and Mr. Subodh Agarwal, Faculty members, Department of Business Management, accompanied MBA (Agribusiness) and MBA (General) students for Industrial visit to several Agro-based industries and other enterprises situated in Nainital and its surrounding areas, from February 1-7.

College of Agricultural Engineering & Technology

- Department of Farm Machinery & Power Engineering organised a Technology Demonstration Mela at village Kalwas, Distt. Hisar on February



16. It was inaugurated by the Vice-Chancellor, Prof. K.P. Singh. Lectures on different aspects related to Agricultural Engineering were delivered by Drs. R.K. Jhorar, Y.K. Yadav, Sanjay Kumar, Vijaya Rani and Er. S. Mukesh. The farmers were enlightened about the latest equipments and given live demonstrations. A total of 400 farmers participated in the Mela.

- Haryana Chapter of Indian Society of Agricultural Engineers got the Best Chapter Award at the 52nd Annual Convention of ISAE held at Anand Agricultural University, Anand, Gujarat, from January 8-10.
- Er. Nitin Karwasra got Best Paper Award for M.Tech. research work at the 52nd Annual Convention of ISAE held at Anand Agricultural University, Anand, Gujarat, from January 8-10.

College of Basic Sciences & Humanities

- To mark the National Science Day, the College organised a programme on February 28, in which students of different schools, CCSHAU and LUVAS participated in large numbers. On this occasion, Prof. K.P. Singh, Vice-



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Chancellor, was the Chief Guest. Prof. J.P. Singh, Director, Surajmal Institute of Technology, New Delhi graced the occasion as Guest of Honour. Competitions on essay writing, science quiz and poster making were organised and the winners were given away prizes.

Prof. K.P. Singh emphasized the need of promotion of science among the school children and providing the best facilities to the scientists and young researchers for the development of the country. Prof. J.P. Singh recalled several scientists of the world who had made important inventions and urged the students to get inspiration from these scientists. Dr. Rajvir Singh, Dean, COBS&H and Dr. Pushpa Kharab, Coordinator of the programme, also spoke on the occasion.

- Department of Molecular Biology, Biotechnology & Bioinformatics organised one-day lecture on Biotechnology Ignition Grant (BIG) under Biotechnology Industry Research Assistance Council (BIRAC): An excellent opportunity for innovation and technology commercialization, on February 2. Ms. Kriti Taneja from Foundation for Innovation and Technology Transfer, IIT, Delhi and Dr. Aarti Sharma from BIRAC made presentations regarding scientific research and entrepreneurship on the occasion.

- State Level Biosafety Workshop on Transgenics was organised by MBB&B Department in association with Biotech Consortium India Ltd. under sponsorship of Ministry of Environment, Forest and Climate Change, on March 14.

- Centre of Food Science & Technology (CFST) assisted in conducting a training on Fruits & Vegetables Preservation for SC/ST

unemployed women of Ludas and Mangali villages organised by the Department of EECM, College of Home Science from February 12-17. Dr. Rakesh Gehlot acted as Course Coordinator.

- A training programme on Fruits and Vegetables Processing for SC/ST youth was organised by the CFST from



February 20-27. A compendium on Fruits and Vegetables was released on the occasion.

- Dr. R.B. Grewal, Director, CFST, delivered two lectures on Role of Value Addition in Peri Urban and Processing - Millet Crops for Value Added/Fortified Foods in Kisan Karyashala in Agricultural Leadership Summit-2018 held at Rohtak on March 24.

- Dr. Rakesh Gehlot, CFST, delivered two lectures and gave demonstrations on RTS and Nector of Guava and Kinnow and Pine Apple Squash in a training organised by SNIATTE, CCSHAU, Hisar, on March 1.

I.C. College of Home Science

- A health camp for rural women was organised by Department of Extension Education & Communication



Management (EECM) in village Shahpur with the support of doctors and para medical staff of Lifeline Hospital, Hisar on February 2. In the camp, approximately 200 rural women were benefitted, who were advised on common health problems. A lecture on painless delivery was delivered by Dr. Yashveer Arya on this occasion.

- Department of Foods & Nutrition conducted a training on Pearl Millet Based Products for rural and urban women in collaboration with SNIATTE, from February 5-7. The participants were given knowledge of different types of biscuits, cakes and traditional sweets with value addition of Pearl Millet.

- Department of Family Resource Management conducted a rally and Nukkad Natak for generating awareness about Green Consumerism and Swachh Bharat Abhiyan in village Mangali from February 5-6.

- EECM Department in collaboration with Directorate of Students' Welfare, CCSHAU, Hisar, organised a training on Extension Tools and Enhancement of Handicrafts Skills for Entrepreneurship from January 6-12. As many as 82 students of B.Sc final year attended the training. During this training, students were given exposure on entrepreneurship development and skills on different types of handicraft viz. lamasa art, candle making, dry flower making, wall hangings, paper mache, artistic pottery, bag making etc.

- A training on Fruit and Vegetable Preservation was organised for 20 SC/ST unemployed women of Ludas and Mangali villages in the Department of EECM, from February 12-17. In the training, demonstrations were given on preparation of RTS and nectar, squash and syrup, pickles, tomato sauce and chutney, vinegar making, canning and

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bottling, fruit and vegetable candies. Besides, lectures were also delivered on marketing avenues for fruit and vegetable preservation, post harvest handling of fruits and vegetables, principles and methods of fruits and vegetable preservation, enterprise development through food processing and empowering farm women through SHGs.

- Matri Bhasha Diwas was celebrated in EECM Department in collaboration with NSS Unit of the College on February 21. Dr. Vandana Verma Trar explained students about diversity of cultures in India and encouraged them to respect not only mother tongue but other Indian languages as well. Dr. Sushma Kaushik, HoD, EECM Department appreciated the participants and encouraged the learning of mother tongue. She also highlighted the linguistic diversity of our country. On this occasion, debate and singing competitions were held.

- EECM Department organised two trainings for rural women under State Scheme. A four-day training on Embellishment Techniques of Garments was conducted for 20 rural women of village Shahpur from February 23-27. During this training, the participants were exposed to various embellishment techniques such as embellishment through laces, mirror work and patch work etc. by experts and faculty of TAD Department.

- On February 26, a counselling session was organised in HDFS Department by Ms. Nisha Mehta, a

Clinical Psychologist as well as a Consultant Psychologist from "My Fit Brain" under the course "Child and Family Counselling" with a purpose of giving a live demonstration to students on how counselling sessions are being performed.

- International Women Day was celebrated in EECM Department on March 8. Dr. Asha Kawatra, Dean, COHS



was the Chief Guest on the occasion. She highlighted power of women, acknowledged woman's contribution to the society and the family. Dr. Sushma Kaushik emphasized that everyone should endeavor for building a better world where men and women live harmoniously, free of violence and discrimination. On the same day, poster and debate competitions were also organised. International Women day was also celebrated by the NSS Unit of the College in collaboration with EECM Department in village Arya Nagar. An exhibition as well as poster making and slogan writing competitions were organised on the occasion.

- World Consumer Day was celebrated by Department of Family Resource Management in village Mangali on March 15. About 70 rural women participated in the programme. On this occasion, expert lectures, exhibition on the theme: Jago Grahak Jago and a rally on Jagruk Upbhogta were the highlights of the celebration. Expert lectures on consumer protection act and malpractices prevailing in the



market was delivered by Dr. Sudesh Gandhi; consumer rights and responsibilities by Dr. Kavita Dua and faulty weight and measures by Mrs. Mamta Dilbaghi.

- Training on Tie and Dye for 20 unemployed women of Kaimri and Rawat Khara villages was organised in



EECM Department from March 13-16. Lectures and demonstrations on techniques of tying, knotting, marbling, preparation of colours for dying, natural and chemical dying, object dying, pegging and clipping techniques were organised for the participants.

- Training on Embellishment of Clothing through Embroidery was conducted by EECM Department for SC women of Mangali, Moth Rangran and Patan villages from March 17-22. During this training, the participants were exposed to various embellishment techniques such as different types of stitches, hand work, machine work, mirror work, patch work etc.

- The stall of TAD Department won 3rd position in the Krishi Mela (Kharif) - 2018 held from March 27-28.

Dean Postgraduate Studies

- The admission to Ph.D. programme

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was completed in 2nd Semester 2017-18 in different departments of College of Agriculture, College of Basic Sciences & Humanities, I.C. College of Home Science and College of Agricultural Engineering & Technology. In all, 118 students were admitted in all the colleges, out of which 60 were male and 58 were female.

- As many as 450 M.Sc. and 400 Ph.D. students were on rolls during 2nd Semester 2017-18.
- Presentation by Ph.D. students was held on January 19 for their selection for V.D. Kashyap Gold Medal, Silver Jubilee Gold Medal for Women and Dr. R.N. Pal Memorial Gold Medal for the year 2015-16 was held on January 1. Similarly, presentation by M.Sc. students for their selection for Dr. (Mrs.) Saroj Kashyap Gold Medal for the year 2015-16 was held on March 21.

Nehru Library

- Nehru Library in collaboration with ICAR-IARI, New Delhi, organised one-day Training on Strengthening of Digital Library in NARES Using KOHA Platform for Northern and Western region of India on March 6. Library professionals from Haryana, Punjab, Rajasthan, Gujarat, Himachal Pradesh and other north-western parts of India participated in this training. The training was inaugurated by the Vice-Chancellor, Prof. K.P. Singh. He emphasized the library professionals to make e-resources available to the academic community. Dr. Amrender Kumar, PI E-Granth gave a brief overview of the training and Dr. K.S. Grewal,



University Librarian welcomed the Chief Guest and the participants and explained the utility of KOHA software. Lectures as well as hands on training on Koha-Open Access Library Management Software were given to the participants under the supervision of Training Coordinator, Dr. Seema Parmar, Assistant Librarian.

- A one-day Training on Scopus Database- a largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings, was organised by Nehru Library in collaboration with Scopus team on January 15. As many as 65 faculty members of different colleges of the University participated in the training which was conducted by Dr. Seema Parmar, Assistant Librarian.

SNIATTE

- Saina Nehwal Institute of Agricultural Technology, Training & Education (SNIATTE) organised a total of 13 trainings in different fields for a variety of clientele during January-March, 2018. These include nine trainings for the farmers, unemployed youth and rural women in various fields of agriculture like bee keeping, crop production technology, cutting & tailoring, fruit & vegetable preservation and safe and judicious use of pesticides. These trainings also include a Training of Master Trainers conducted in collaboration with Agriculture Skill Council of India (ASCI) for the faculty of the University under *Pradhan Mantri Kaushal Vikas Yojana*. One training on crop production technology was also



conducted for the students of Govt. Sr. Sec. School, Dhobi and Balak. Besides this, the institute also organised one each T&V and ZREAC Workshop for the State Agriculture/Horticulture Officers and Extension Specialists of KVKs of Hisar Zone. Twenty-one exposure visits were also conducted for the farmers (842) of Haryana and adjoining states. A total of 1238 beneficiaries got benefited from different extension activities of this Institute during the said period.

ATIC

- Agricultural Technology Information Centre (ATIC) sold University products viz. seeds, planting material, publications, technological products etc. worth Rs. 1893000/- during January-March, 2018. Besides, 1655 beneficiaries were guided through personal contacts (642) and toll free helpline (1013). As many as 47 girl students of B.Sc. (Hons.) Agriculture were placed in 7 villages (Daya, Kaimri, Mangali Jara, Bhiwani Rohilla, Chaudharywas, Rawalwas Khurd and Harita) under RAWE programme and monitored from time to time. A two-day training was also organised for these students at ATIC. During RAWE programme, a total of 14 trainings were organised for farmers in allocated villages. Lectures on different aspects including vegetable production, insect-pests and disease management, soil health, promotion of bee keeping and mushroom production were delivered by scientists of ATIC at Dhansu, Sacha Khera, Sesai, SNIATTE, Gurana and Chaudharywali.



Retirements

The following faculty and staff members of the University retired on attaining the age of superannuation during January-March, 2018 :

Retirements on 31st January, 2018

S. No.	Name	Designation	Department
1	Dr. Parveen Punia	Dean	College of Home Science
2	Dr. Devi Singh	Professor	College of Agriculture, Kaul
3	Dr. D.S. Dahiya	Principal Scientist	Soil Science Department
4	Dr. Sewak Ram	Principal Scientist	Nematology Department
5	Dr. M.S. Punia	Professor	Genetics & Plant Breeding Department
6	Mr. O.P. Bhadu	Athletic Coach	Directorate of Students' Welfare
7	Mrs. Lalita Rani	Assistant	Comptroller Office
8	Mr. Satbir Singh	Senior Laboratory Assistant	Family Resource Management Department
9	Mr. Satpal Singh Mor	Laboratory Technician	Centre of Food Science & Technology
10	Mr. Rohtash Kumar	Laboratory Technician	Family Resource Management Department
11	Mr. Onkar Nath	Technical Assistant	Seed Science & Technology Department
12	Mr. Gulab Singh	Assistant Foreman	College of Agricultural Engineering & Technology
13	Mr. K.R. Rajan	Water Pump Operator II	XEN (PH)
14	Mr. Hari Ram	Electrician Gr.-II	XEN (E)
15	Mr. Bhagwan Singh	Electrician	College of Agriculture, Kaul
16	Mr. Gurucharan Singh	Daftri	Comptroller Office
17	Mr. Ram Chander	Helper	XEN (C-1)
18	Mr. Vijay Pal Singh	Beldar	Regional Research Station, Bawal
19	Mr. Mukhtyar Singh	Beldar	Regional Research Station, Karnal
20	Mr. Ramchander	Beldar	Regional Research Station, Bawal
21	Mr. Kehar Singh	Agriculture Inspector	Agricultural Economics Department

Retirements on 28th February, 2018

S. No.	Name	Designation	Department
22	Dr. Sunita Sheokand	Professor	Botany & Plant Physiology Department
23	Mr. Hardwari Lal	Teacher	Campus School
24	Mr. R.N. Sharma	Tractor Driver	Horticulture Department

Retirements on 31st March, 2018

25	Dr. Ashok Kumar	Professor (Agronomy)	College of Agriculture, Bawal
26	Dr. Jagdev Singh	Professor	Agronomy Department
27	Dr. G.S. Yadav	Professor	Entomology Department
28	Dr. Pala Ram	Principal Scientist	Entomology Department
29	Dr. S.S. Siwach	Principal Scientist	Cotton Section
30	Dr. Ved Kumar Phogat	Principal Scientist	Soil Science Department
31	Dr. Onkar Singh Dahiya	Professor	Seed Science & Technology Department
32	Dr. O.P. Sagwal	Principal Scientist	Krishi Vigyan Kendra, Karnal
33	Dr. B.K. Sharma	Principal Extension Specialist	Krishi Vigyan Kendra, Mandkola
34	Mr. Jagdish Chander	Steno	Dean, College of Basic Sciences & Humanities
35	Mr. Bir Singh	Plant Observer	Medicinal & Aromatic Plants Section
36	Mr. S.S. Kashnia	Architect	EO-cum-SE
37	Mr. Matu Ram	Electrician	XEN (E)
38	Mr. Rattan Singh	Beldar	Landscape Unit
39	Mrs. Shanti Devi	Beldar	Forage Section
40	Mr. Sube Singh	Agriculture Inspector	Agronomy Department
41	Mr. Khazan Singh	Messenger	Entomology Department
42	Mr. Bhagat Singh	Daftri	Directorate of Students' Welfare
43	Mr. K.S. Rathi	Assistant	Genetics & Plant Breeding Department
44	Mr. Tek Chand	Plant Observer	Genetics & Plant Breeding Department
45	Mr. Ram Niwas	Laboratory Technician	Soil Science Department
46	Mr. Mohan Lal	Beldar	Landscape Unit
47	Mr. Dharm Pal	Beldar	Regional Research Station, Kaul
48	Mr. Raj Pal	Water Pump Operator-II	Regional Research Station, Karnal
49	Mr. Raghubir Singh	Animal Attendant	College of Agriculture, Kaul

HAU push for agribusiness start-ups

HISAR, FEBRUARY 2
Chief Secretary Deepinder Singh Dhesi today laid the foundation stone of NABARD Agribusiness Incubation Centre (AIBC) at Chaudhary Charan Singh Haryana Agricultural University here.

Chairman of NABAI Harsh Kumar Bhanwala a HAU Vice-Chancellor Singh were present on the occasion. Addressing a seminar, the CS said the incubation centre would help promote agribusiness through innovation, upgrading technology and skill development. The AB would provide guidance, technology and infrastructure needed by youth/entrepreneur start-ups in different areas.

कुलपति ने किया खुम्ब उत्पादन केंद्र का उद्घाटन

हिसार, 23 जनवरी (का.प्र.) चौधरी चरण सिंह हरियाणा कृषि विश्वविद्यालय में बाबासाहेब आश्रम, कुशीन के माध्यम से नव निर्मित बाबासाहेब के अंतर्राष्ट्रीय कृषिप्रदर्शन, यहाँ एक खुम्ब उत्पादन केंद्र का विद्यार्थियों के द्वारा उद्घाटन किया।
उद्घाटन के बाद चौधरी चरण सिंह विश्वविद्यालय के प्रमुख अतिथि प्रो. के. पी. सिंह ने उद्घाटन किया।
उद्घाटन के बाद चौधरी चरण सिंह विश्वविद्यालय के प्रमुख अतिथि प्रो. के. पी. सिंह ने उद्घाटन किया।
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इस अवसर पर चौधरी चरण सिंह विश्वविद्यालय के प्रमुख अतिथि प्रो. के. पी. सिंह ने उद्घाटन किया।
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शिक्षण और शोध पर मिलकर होगा काम

जम्मू संसदीय विभाग : चौधरी चरण सिंह हरियाणा कृषि विश्वविद्यालय और एचएयू के बीच सहयोग के तहत काम करने का हुआ समझौता।
उद्घाटन के बाद चौधरी चरण सिंह विश्वविद्यालय के प्रमुख अतिथि प्रो. के. पी. सिंह ने उद्घाटन किया।
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Nabard chief lays stone of agri business centre in Hisar varsity

HT Correspondent

HISAR: National Bank for Agriculture and Rural Development (NABARD) chairman Harsh Kumar Bhanwala laid the foundation stone for NABARD-supported Agribusiness Incubation Centre (AIBC) at Chaudhary Charan Singh Haryana Agricultural University (CSHAU) on the occasion of foundation day of

country after Madurai district of Tamil Nadu and has sanctioned a grant assistance of ₹1.75 crore towards the capital and recurring expenditure of this centre. Addressing a gathering, Bhanwala mentioned how NABARD, with responsibilities for finance, development and supervision of RPTs in the last 35 years, has made a difference in the lives of rural people through

crore has been sanctioned financial assistance to the state governments since 1985-86 which has helped create additional irrigation potential of 4.28 lakh kms and built rural bridges," he added. Speaking on the occasion, Haryana chief secretary, J. Dhesi said the youths who have completed graduation in

कृषि विज्ञान केंद्र बनेंगे गतिविधि केंद्र तभी किसानों का होगा विकास:

एचएयू में राज्यस्तरीय मध्याह्नि योजना विषय पर एक दिवसीय कार्यशाला का आयोजन किया गया।
उद्घाटन के बाद चौधरी चरण सिंह विश्वविद्यालय के प्रमुख अतिथि प्रो. के. पी. सिंह ने उद्घाटन किया।
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हकृति में शुरू हुआ खरीफ मेला, नेपाल के किसान भी कर रहे शिरकत

हिसार, 23 जनवरी (का.प्र.) चौधरी चरण सिंह हरियाणा कृषि विश्वविद्यालय में आज 2 दिवसीय खरीफ मेला (कार्फ मेला) का उद्घाटन किया।
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देश के 73 कृषि विश्वविद्यालयों की डिजिटल लाइब्रेरी में पढ़ सकेंगे एचएयू के विद्यार्थी

डिजिटल लाइब्रेरी को मजबूत करने के लिए कोल नामक स्वचालित साफ्टवेयर तैयार किया गया।
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दो बार बेस्ट इंस्टीट्यूशन अवार्ड हासिल करना एचएयू के लिए गौरव की बात-प्रो. सिंह

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कुलपति केपी सिंह पीएम के हाथों सम्मानित

अमर उजाला न्यूज

चौधरी चरण सिंह हरियाणा कृषि विश्वविद्यालय के कृषि विज्ञान केंद्र कुरुखेत्र को जून-2 में कृषि क्षेत्र में उत्कृष्ट कार्यों के लिए कुलपति केपी सिंह को पंडित दीनदयाल उपाध्याय कृषि विज्ञान प्रोत्साहन पुरस्कार-2017 से नवाजा गया है।

प्रधानमंत्री नरेंद्र मोदी ने यह अवार्ड भारतीय कृषि अनुसंधान परिषद द्वारा हॉटिंग एपीकएनएच हकृति परिसर में स्थापित किया। 105 फुट ऊंचाई पर तिरंगा ध्वज



एचएयू कुलपति केपी सिंह पीएम नरेंद्र मोदी से अवार्ड हासिल करते हुए

कृषि को उद्यम के रूप में विकसित करने की जरूरत

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मेहनत ज्यादा व आमदनी कम इसलिए युवा हो रहे खेती से दूर : प्रो. केपी सिंह

हिसार, 23 जनवरी (का.प्र.) चौधरी चरण सिंह हरियाणा कृषि विश्वविद्यालय में आज 2 दिवसीय खरीफ मेला (कार्फ मेला) का उद्घाटन किया।
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जीडीपी में कृषि सेक्टर का 49 फीसदी भाग होना चाहिए : केपी

एचएयू के कृषि विभाग के प्रमुख अतिथि प्रो. के. पी. सिंह ने उद्घाटन किया।
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गीता और साक्षी म्हाारी आइडियल, इनसे प्रेरणा लें महिलाएं : संजेश

हिसार, 23 जनवरी (का.प्र.) चौधरी चरण सिंह हरियाणा कृषि विश्वविद्यालय में आज 2 दिवसीय खरीफ मेला (कार्फ मेला) का उद्घाटन किया।
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होम साइंस कालेज ने जीती चैंपियनशिप

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एचएयू के खिलाड़ियों ने जीते 40 पदक

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इन खिलाड़ियों ने जीते पदक

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Feedback

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Tel. : 01662-255000, 256000, Fax : 01662-234613
Website : www.hau.ernet.in



Chaudhary Charan Singh Haryana Agricultural University

From Vice-Chancellor's Desk

Cotton is one of the most important economic crop species of the world and a renewable resource providing raw material for textile manufacturing, mulch and cattle feed. Cotton plays a major role in Indian economy, providing employment directly and indirectly to about 60 million people and earning foreign exchange for the country. India has a pride place in the global cotton scenario due to several distinct features such as the largest area under cotton (122 lakh ha) representing more than one-third of the global cotton area (333.8 lakh ha), productivity of India is low (524 kg/ha) as against world (792kg/ha), mainly because about 70 per cent area under cotton being rainfed. In Haryana, cotton is grown in an area of 6.56 lakh ha with production of 25 lakh bales and productivity of 648 kg/ha against national average of 524 kg/ha (Cotton Advisory Board 2017-18).



Chaudhary Charan Singh Haryana Agricultural University (CCSHAU) being one of the lead centres of All India Coordinated Research Project (AICRP) on Cotton, is continuously taking care of research mandates of national and state interests. The Cotton Section, CCS HAU has released a number of desi and American varieties/hybrids. AAH-1 released at National level in 1999, is the landmark first GMS based hybrid of desi cotton. Desi cotton variety HD 123 was released in 2000 at national level and still is very popular among the farmers. Another notable variety HD 432 was released in 2009 with strong stem, resistant to lodging and shedding of kapas which is a peculiar characteristic of this variety. Cotton section has filed a patent for removal of gossypol from cotton seed products. E-kapas project on cotton was completed in 2017, under which thirty four thousand cotton growing farmers were registered with the objective to deliver advisories related to cotton through regular voice messages to the registered cotton growers.

India has also the unique distinction of growing commercially all the four cultivated species of cotton, including varieties, conventional and Bt cotton hybrids, with a coverage totalling a record 122 lakh hectares. Cotton cultivation has the full potential to offer livelihood security to millions of marginal and small farmers; such an enterprise has to be knowledge-based and market-driven and needs to evolve continuously through innovations in frontier sciences to break yield and quality barriers for satisfying present and future national needs and attaining global competitiveness with larger spin-off benefits to India.

However, the situation is not as bright as perceived. There remain greater challenges for Cotton Scientists like low per unit productivity, leaf curl virus threat, white fly menace, pink bollworm problem, leaf reddening problem, recurrent drought and water logging stress in important tracts of cotton growing areas in the country and threat of newer pests and diseases besides lack of awareness among cotton farmers about specific varieties/hybrids and their characteristics and suitability to their agro ecological situations. There is an urgent need to enhance the productivity from present levels to moderately higher levels (i.e.) under irrigated conditions from the existing range of 600 - 700 kg lint /ha to 900 - 1000 kg / ha and under rain fed conditions from the present range of 300 – 350 kg / ha to 500 - 600 kg lint per hectare. The need for overcoming the gap between potential yields and realized yields still exists and efforts have to be made by all concerned for recording overall growth. The need of the hour is to keep pace with projected target of productivity of the state. Besides, there is also need to emphasize on the transfer of technology to the end users i.e. farmers and for developing a transfer of technology model using ICT which can help the end users by establishing a strong linkage between researchers to enhance the production and productivity of cotton crop.

Prof. K.P. Singh

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Hon'ble Governor Chairs Workshop on Institution Development Project



Hon'ble Governor of Haryana, Prof. Kaptan Singh Solanki inaugurated Workshop on Institution Development Plan (IDP) organised by the University at Haryana Raj Bhawan, Chandigarh on May 31. The objective of this plan is to strengthen institutional capacity for preparing skilled professionals for market driven agriculture.

Agriculture and Farmers' Welfare Minister, Haryana, Mr. O.P. Dhankar; Assistant Director General, ICAR, New Delhi, Dr. P. Ramasundaram; Vice-Chancellor, Prof. K.P. Singh; Secretary to Governor, Dr. Amit Kumar and a delegation from Michigan State University, University of Illinois and University of Massachusetts, USA were among the dignitaries present on the occasion.

On this occasion, CCSHAU and Michigan State University, USA joined hands by signing an MoU for cooperation in the design and implementation of Institutional Development Plan. Dr. K.S. Grewal, Dean, College of Agriculture on behalf of CCSHAU and Dr. Douglas D. Buhler on behalf of Michigan State University signed the MoU.

Congratulating for the MoU, Hon'ble Governor said that this initiative made by both the universities will bring significant results in agriculture sector. He said that

agriculture plays a major role in state's economy. This sector provides employment to approximately half of the working population. Due to farmer friendly policies of the Haryana government, the farmers of the state have produced additional grains. This is evident from the fact that since this state came into existence in 1966, the foodgrain production has increased almost seven times, which is a matter of pride. But there is yet much scope of increasing the agriculture production. He said the joint efforts of both these universities would bring desired results.

Agriculture and Farmers' Welfare Minister, Mr. O.P. Dhankar said that CCSHAU has been playing a leading role

in agriculture development and it has earned an international recognition with its achievements. As a result of these achievements, the state has become one of the leading states in production of foodgrains, vegetables etc.

The Vice-Chancellor, Prof. K.P. Singh said that the Institution Development Plan is an ambitious project granted to the University by the ICAR, which signifies its academic and research excellence as well as its leading role in agriculture development of the state.

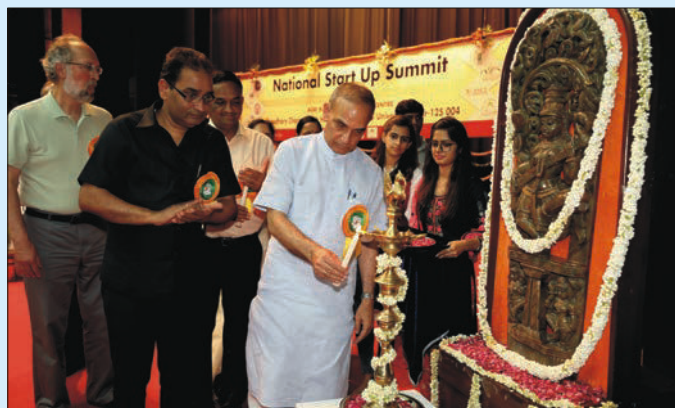
Dr. P. Ramasundaram, ADG, ICAR said that IDP is a huge project funded by ICAR with the assistance of World Bank and Govt. of India on a 50:50 cost sharing basis. Its objective is strengthening institutional capacity to produce skilled professionals for market driven agriculture.

Dr. Douglas D. Buhler, Sr. Associate Dean, Michigan State University said that it is a matter of pride that two institutes known for their landmark contributions in the field of agriculture, have joined hands to work together for agriculture development.

Two books, viz. A Strategic Document for Doubling Farmers Income in Haryana and Medicinal Plants of Uttarakhand were released on the occasion.



National Start-up Summit Organised



The Centre of Food Science & Technology of the University organised 1st National Start-up Summit-2018 from June 1-2. Approximate 600 participants from 22 states and 32 institutes attended the summit. The summit was inaugurated by Dr. Satya Pal Singh, Union Minister of State for Human Resource Development (Higher Education).

Addressing the gathering, Dr. Satya Pal Singh commended the Prime Minister Sh. Narendra Modi for his initiative of Start-up India announced with the motive of providing strength and incentives to the talented young generation of India to do something new for the country and humanity. He said the priority of the Government of India is to promote the economic development and employment opportunities in the country through start-up and entrepreneurship. He said getting an entrepreneurial mindset is actually a lifelong learning process. In order to develop an entrepreneurial mindset in the students, there is an urgent need to provide them the right guidance during the study period. He released two books on this occasion.

Union Railway Minister, Mr. Suresh Prabhu who because of his busy schedule could not make himself present on the occasion sent his message through video clips. He said that instead of running after the jobs the young people should start their own business and be able to provide employment to others.

The Vice-Chancellor, Prof. K.P. Singh in his presidential remarks said that today most unemployed educated youth have innovative ideas, but generally there is lack of expertise and infrastructure to start a business unit. Despite the good academic background, most of our graduates lack the necessary courage and confidence to start a new venture. In this context, the summit has been organised.

Earlier, Dr. N.S. Rathore, DDG (Education), ICAR, New Delhi, in his address asked the participants to remember ABCD and RMTU i.e. Any Body Can Do and Raw Material Trading Utility to become a successful entrepreneur. He revealed that for the promotion of entrepreneurship, the ICAR will start a one year PG Diploma Course for B.Sc. Agriculture students in near future. Dr. Douglas and Dr. Karim Meredia, Michigan State University, USA; Dr. Raj Bala Grewal, Convener of the Summit and Dr. Seema Rani, Organising Secretary were present on the occasion.

The summit included four technical

and two poster sessions, keynotes and panels ignite talks, pitch stage, mentoring and networking sessions to give participant opportunities to acquire skill and relationships that will help their ventures to grow. Prominent speakers including Dr. Srinivas, CEO, TBI (A-Idea), NAARM, Hyderabad; Dr. Milind R. Aggarwal, Director, MSU Alumni Club in India; Dr. Narendra Dagar, former Consultant IFFCO; Dr. Neelam Chaudhary, Assistant Director and Chartered Accountants from different institutes shared their views on the occasion.

A total of 50 start-up ideas were displayed by the students and best 10 start-up ideas given prizes. The event concluded with sharing of some of the best start-up practices advocated and practiced in the country by Dr. M.L. Madan, former DDG (Animal Sciences) & former Vice-Chancellor, Dr. Punjabrao Deshmukh Agriculture University, Akola, Maharashtra; Dr. Balraj Singh, Vice-Chancellor, Agriculture University, Jodhpur and Dr. Chindi Vasudevappa, Vice-Chancellor, NIFTEM, Sonapat.



Annual Group Meeting of AICRP on Cotton



The University hosted a two-day Annual Group Meeting of All India Coordinated Research Project on Cotton from April 9-10. About 250 cotton scientists from Cotton Research Stations of State Agricultural Universities, Central Cotton Research Stations located at Sirsa, Nagpur, Mumbai and Coimbatore and representatives from cotton industry participated in the group meeting.

Inaugurating the meeting, Dr. A.K. Singh, DDG (Crop Science), ICAR, New Delhi, said that cotton cultivation is being done by nearly 6 million farmers in India. They should follow the advice of the scientists and make judicious use of fertilizers and insecticides. This practice will reduce the cost of

cultivation and, thus, increase the profit of the farmers. He also urged the scientists to launch awareness campaign for the farmers to educate them to follow this practice.

He also emphasized the need to develop the varieties of cotton with high lint index for different climatic zones of the country. They should also immediately find solutions to any new disease or insect that appear on cotton crop. He hoped that this University in collaboration with Indian Council of Agricultural Research and private companies will be moving forward in giving new dimension to cotton cultivation. He released a booklet on Cotton Cultivation on the occasion.

Dr. A.H. Prakash, ADG, ICAR, New Delhi and Project Coordinator, AICRP on Cotton presented the last year's annual report of cotton. He informed that in North India, the production of cotton has increased by 28% compared to previous years, in which Rajasthan has the highest contribution. He said that due to the adoption of integrated measures by the farmers this year, the outbreak of pink boll worm was only 5 to 10 per cent.

Dr. R.K. Singh, ADG, ICAR, New Delhi, said that India has a special place among the major cotton producing countries including Australia, USA, China, Pakistan, Bangladesh, Brazil, Uzbekistan and Turkey. Dr. Y.N. Waghmare Director, CICR, Nagpur; Dr. S.K. Sehrawat, Director of Research and Dr. K.S. Grewal, Dean, College of Agriculture, CCSHAU, Hisar also spoke on the occasion.

During the meet, apart from holding different technical sessions, the meeting of Central Variety Identification Committee was also convened.

Process of Biodegradable Plastic Production Awarded Patent



A technique of producing a biochemical-Poly Hydroxy Butyrate (PHB), which is useful in making eco-friendly, cheaper and self degradable bioplastic, developed by the scientists of the University, has been granted a patent (No. 296744) by the Patent Office, Govt. of India.

A team of scientists of Molecular Biology, Biotechnology and

Bioinformatics (MBBB) Department of the University led by Dr. Virendra K. Sikka has produced high value PHB by molecular manipulations of strains of eco-friendly microorganism, *Rhizobium* species. Using this technique, 50-60 per cent of the biomass can be harvested as PHB that has properties like plastics.

The PHB can be processed along with additives like starch to convert it into mouldable low density bioplastic which is fully biodegradable. Blends of PHB with conventional plastics can be an easy means to tackle the choking generated accidental problems in animals and sewage arising from polyethylene.

Ch. Charan Singh Remembered on Death Anniversary



Rich tributes were paid to the former Prime Minister of India, Ch. Charan Singh on his death anniversary on May 29. At a function organised on the occasion, Dr. M.S. Dahiya, Registrar was the Chief Guest. He garlanded the statue of the late leader. Deans of all the constituent colleges of the University, Directors and other officers, faculty, staff and students also offered flowers at his statue.

MoU with Taiwan University to Promote Research



On the invitation of Ministry of Education, Taiwan Government, a delegation of Vice-Chancellors from Indian Universities led by Association of Indian Universities, visited Taiwan on June 19. Prof. K. P. Singh, Vice-Chancellor, CCSHAU, Hisar represented the Indian Agricultural Universities as a member of Taiwan-India Presidents Forum-2018.

Inspired by the common objectives to promote and accelerate the progress of research and training in various disciplines of agricultural research, an MoU was signed between CCSHAU and

National Chung Cheng University of Taiwan. Prof. K.P. Singh and President, National Chung Cheng University, Dr. Zhang-Hua Fong signed the MoU.

In the MoU, it has been agreed upon to exchange faculty, students, farmers, industrialists and technologists; exchange germplasm and breeding material of mutual interest; exchange scientific literature, information and methodology as available and required in programme of common interest. Under the students exchange programme, UG and PG students of CCSHAU will visit

Taiwan and vice versa. Dual degree and joint degree programme will be started with Taiwan University. Besides, the progressive farmers of Haryana will also visit Taiwan University to get modern agricultural information. Similarly, farmers of Taiwan will visit CCSHAU and will be able to learn technologies developed by CCSHAU.

Apart from this, each party will ensure appropriate protection of Intellectual Property Rights (IPR) generated from cooperation.

Noted Plant Breeder, Dr. Ram Dhan Singh Remembered



The 127th anniversary of Rao Bahadur Dr. Ram Dhan Singh was celebrated by the University on May 1. On this occasion, Vice-Chancellor, Prof. K.P. Singh was the Chief Guest.

Prof. Singh while recalling the achievements of Rao Bahadur Dr. Ram

Dhan Singh described him Plant Breeder par excellence. He had developed 25 improved varieties of wheat, rice, barley and pulses in his lifetime, which resulted in unprecedented increase in food production in the Indian sub-continent. The Basmati rice of which India is a

leading exporter today, has also been developed from the Basmati 370 variety developed by Dr. Ram Dhan Singh. Such great scientists can never be forgotten, he said, adding that the scientists and students should draw inspiration from him and work for providing food and nutritional security to the country. On this occasion, he honoured two postgraduate students, namely Rina Rani nad Hridayesh Anuragi for their selection as Agricultural Research Scientist (ARS).

Dr. K.S. Grewal, Dean, College of Agriculture in his welcome address said that for ever lasting memory of this great scientist, a chair and a seed farm have been established in the University.

Dr. I.S. Panwar, Head, Department of Genetics & Plant Breeding proposed a vote of thanks on the occasion.

Members of Panchayati Raj Institutions Imparted Training



A three-month certificate course on Panchayati Raj and Rural Development conducted by Department of Sociology of the University for the elected members of Panchayati Raj Institutions concluded with the certificate distribution function where the Vice-Chancellor, Prof. K.P. Singh was the Chief Guest. Director, Haryana Rural Development Institute, Nilokheri, Mr. Atar Singh Sheoran was also present on the occasion as Guest of Honour.

Addressing the participants, Prof.

K.P. Singh said that as we know, the Panchayats have been given statutory status by the 73rd amendment in the constitution of the country, the Haryana Government has made important

amendments in the Haryana Panchayati Raj Act, 1994 to strengthen the Panchayati Raj. He said that it is a matter of pride that today 100 per cent Panchayat representatives in Haryana are literate and to make them more efficient, the Haryana Government has planned to conduct this quarterly course for them. It is notable that under the leadership and guidance of Agriculture, Development and Panchayat Minister, Mr. O.P. Dhankar, this course has been started in few selected universities of

Haryana state. He appreciated the contribution of the Head and faculty of the host department to make this programme a success. He also distributed certificates to the participants on the occasion.

Dr. Vinod Kumari, Head, Department of Sociology said that this course has been prepared in collaboration with Panchayat Department, Haryana, Haryana Rural Development Institute, Nilokheri and various universities of Haryana. During the course, the elected representatives of Panchayati Raj were exposed to Panchayati Raj and Rural Development programmes, good governance and planning and management.

One of the participants, Mrs. Rabindra Kaur described this course as very useful. She said that with the practical knowledge gained in this course she would be able to do the work of Panchayati Raj and Rural Development more efficiently.

Governor Felicitates NSS Volunteers



Hon'ble Governor of Haryana, Prof. Kaptan Singh Solanki felicitated NSS Officer and volunteers of NSS Unit of College of Agriculture of the University in recognition of their valuable contributions to the society, at a function organised by Higher Education Department, Haryana at Raj Bhawan, Chandigarh on June 11. Hon'ble Chief Minister of Haryana, Sh. Manohar Lal and Education Minister, Sh.

participants of Republic Day parade, Mr. Charan Singh and Mr. Rohit Kumar. They were presented a certificate of merit, a memento and cash prize of Rs. 11000/- each.

It may be mentioned here that this award function was held to honour those NSS volunteers who have brought laurels to the state at the National level during last three years.

Ram Bilas Sharma also graced the occasion.

Those felicitated included NSS Officer, Dr. Bhagat Singh, winners of Indira Gandhi National NSS Award, Mr. Surender Mittal and Poonam Dahiya and

Wheat Variety WH 1184 Identified

Wheat variety WH 1184 has been identified by CCSHAU Variety Identification and Release Committee on the basis of three years average yield.

This variety gave 4 to 14% higher grain yield than the check varieties in station varietal trials and 4 to 18% in coordinated trials. It is also highly resistant against yellow and brown rusts and better in sedimentation value (60 ml).

In agronomic trials, the variety WH 1184 was significantly higher yielder (59.72+1.76 q/ha) to the check variety WH 1105 (56.84 q/ha), HD 2967 (55.34 q/ha) and DBW 88 (54.09 q/ha) with 4.82%, 7.33% and 9.43% increase, respectively, at different rates of fertilizers application. This variety was also numerically superior to the check variety HD 3086 (58.44 q/ha) in overall mean of the different rates of fertilizer applied in wheat.

Humanity Pours in Blood Donation Camp



misconceptions about blood donation. He lauded the organisers for organising this camp.

Dr. Kawatra highlighted the importance of blood donation. Explaining blood

A Blood Donation Camp was organised by Directorate of Students' Welfare of the University in collaboration with Indian Red Cross Society, Hisar on April 19. Faculty, staff and students of constituent colleges of the University voluntarily donated 150 units of blood in the camp. Dr. K.S. Grewal, Dean, College of Agriculture was the Chief Guest while Dr. Asha Kawatra, Dean, Postgraduate Studies graced the occasion as special guest.

Describing blood donation as noble cause, Dr. Grewal said that everyone should voluntarily donate blood to save precious lives. He said people have

donation as a safe and healthy process, she said that the amount of blood donated gets recovered in just 21 days and the person can redonate blood every three months.

On this occasion, Dr. D.P. Nandal, Director Students' Welfare welcomed the guests and participants. He also thanked the doctors of General Hospital, Hisar, Medical College, Agroha and Campus Hospital for rendering services in the camp. The Coordinator of the programme and President of the University's Red Cross Society, Dr. Bhagat Singh also spoke on the occasion.

Over 100 Students Qualify National Level Exams



Students of constituent colleges of the University have made a landmark achievement in various National level competitive exams conducted by ICAR, UGC and CSIR for employment or admission to higher education programmes.

Of these students, as many as 80 from different departments of College of Agriculture have qualified ICAR-NET

examination. Likewise, 11 students from different departments of College of Basic Sciences & Humanities have cleared the National level exams including UGC-NET, UGC-JRF, CSIR-NET, ICAR-JRF, CSIR-JRF and DBT (C.2).

From College of Home Science, 12 students have qualified UGC-NET, three students have cleared SRF exam and two students have qualified JRF exam.

Patent for Estimation of Multi Residue in Butter/Ghee

The University has been granted patent for the analytical technique entitled "A Method for the Estimation of Multi Residue in Butter/Ghee". The Patent Office, Govt. of India, has issued patent no. 296648 for 20 years to this technique.

This technique has been developed by Dr. Beena Kumari, Sr. Analytical Chemist (Retd.) and her fellow Research Associates, Dr. Shashi Singh, Dr. Jagdeep Singh and Dr.T.S. Kathpal, Sr. Pesticide Chemist (Retd.), Department of Entomology of the University.

The pesticide residue in the environmental components and food commodities particularly in the present scenario of agriculture, is a serious global problem and threat for health. The estimation technique for single pesticide only cannot be followed for detection of residues of all categories of pesticides. Therefore, a rapid, simple and authentic technique has been developed to determine the contaminants of all the four major groups of pesticides belonging to organochlorines, synthetic pyrethroids, organophosphates and carbamates, simultaneously in butter/ghee using gas liquid chromatography.

As this technique is quite simple, sensitive and less time consuming, it can be adopted by dairy industries and milk plants producing butter and ghee along with milk. With this analytical technique, presence as well as level of residues can be identified. So they can further use already existing decontamination processes for removal of pesticide residues which in turn may provide butter and ghee to the consumers either residue free or with residues below the maximum residue limits (MRL) set by Food Safety and Standards Authority of India (FSSAI).

International Yoga Day Celebrated



The University celebrated 4th International Yoga Day on June 21. On this occasion, a programme was organised on the campus in which the varsity fraternity enthusiastically participated in large number and performed yoga exercises.

Director of Research, Dr. S.K. Sehrawat who led the Yoga Day celebration, congratulated the faculty, staff and students of the University on the occasion. He said that it is a matter of pride for all Indians that the entire world is celebrating Yoga Day today.

He said that yoga is a complete science and key to live a healthy and peaceful life. Therefore, it should be performed by everyone everyday.

Earlier, Dr. D.P. Nandal, Director Students' Welfare, welcomed the participants and expressed gratitude to

the local Patanjali Yog Samiti for the cooperation.

On this occasion, Mr. Rohtash, Yoga Instructor, Sports Authority of India (SAI) and members of Patanjali Yog Samiti, Hisar highlighted the importance of yoga and demonstrated various yoga exercises as per protocol prescribed by the Ministry of AYUSH, Govt. of India. Officer on Special Duty, Dr. M.K. Garg; Director Human Resource Management, Dr. M.S. Sidhpuria; Comptroller, Dr. Atul Dhingra; Dean PGS, Dr. Asha Kawatra; Dean, College of Basic Sciences & Humanities, Dr. Rajvir Singh; Dean, College of Agricultural Engineering & Technology, Dr. R.K. Jhorar and President, HAU Yoga Club, Dr. Sandeep Arya who graced the occasion, also performed yoga.

World Environment Day



The University celebrated World Environment Day on June 5. To mark the occasion, tree plantation drive was launched by the Vice-Chancellor, Prof. K.P. Singh. He planted a sapling of Molsari near Sawarn Jayanti Dwar (Gate No. 4) of the University.

The Vice-Chancellor said that World Environment Day is celebrated specially to create awareness on issues related to the environment and to solve the problems related to it. He said that due to the rising population and industrialization, the emission of greenhouse gases is at its peak, which is causing global warming and threatening the environment. To avoid this, it is necessary to plant more trees.

Dr. Rajbir Brar, Director, ATARI, Zone-I, Deans, Directors and other officers of the University present on the occasion, also joined the plantation drive.

Participation in Conferences/Workshops/Trainings

- Dr. Satyavan, Principal Scientist and Dr. Ram Prakash, Assistant Scientist, Department of Soil Science attended Annual Review Meeting of AICRP on Management of Salt Affected Soils and Use of Saline Water in Agriculture at CSSRI, Karnal, from June 4-5.

- Drs. V.K. Batra, A.K. Bhatia, D.V. Duhan and Kuldeep Kumar, Department of Vegetable Science attended the 36th All India Co-ordinated Research Project (Vegetable Crops) Group Meeting held at

RARI, Durgapura, Jaipur, from May 18-21.

- Dr. Gurnam Singh, DES, Department of Agricultural Economics attended one-day workshop under the project Institutional Development Plan at Haryana Raj Bhawan, Chandigarh on May 31.

- Dr. Nitin Bhardwaj, Department of Agricultural Economics attended workshop under Cost of Cultivation Scheme at Shimla from June 8-9.

- Drs. R.S. Sangwan, Omender Sangwan, Karmal Singh, Manmohan,

S.R. Pundir and Shiwani Mandhania, Cotton Section, attended Annual Group Meeting held at CCSHAU, Hisar, from April 9-10.

- Er. Anil Kumar and Er. Sundeep Kumar attended summer school on Adaptation of Energy Efficient Agricultural Technology for Climate Change Mitigation held at College of Agricultural Engineering & Post Harvest Technology, Ranipool, Sikkim, from June 4-24.

Contribution of Dr. B.R. Ambedkar Recalled on his Birth Anniversary



To mark the 127th birth anniversary of Bharat Ratna Dr. Bhim Rao Ambedkar, a seminar was organised by Dr. B.R. Ambedkar Chair in association with Department of Sociology on April 13. The contributions of Dr. Bhim Rao Ambedkar to the Indian constitution, upliftment of the weaker sections and bringing social

change were recalled on the occasion.

The Vice-Chancellor, Prof. K.P. Singh who was the Chief Guest on this occasion said that the contribution of Dr. Bhim Rao Ambedkar in the upliftment of Indian society is unforgettable. He is an ideal for the younger generation as a writer, politician, social reformer, law

expert, educationist and critic. Without having a crave for any high position he through out his life fought to eradicate the social evils like inequality and illiteracy besides seeking upliftment and justice for the weaker sections. He has left an indelible mark as the creator of the Constitution of India.

Dr. Rajvir Singh, Dean, College of Basic Sciences & Humanities in his welcome speech thanked the Vice-Chancellor for establishing Dr. B.R. Ambedkar Chair in the University.

Dr. Balwan Singh, Incharge, Dr. B.R. Ambedkar Chair, highlighted the objectives of the Chair.

On this occasion, sewing machines and other material were distributed to 60 SC&ST women.

News Briefs

College of Agriculture, Hisar

- AICRP (STCR), Hisar Centre organised an interface meeting with the farmers at village Sadalpur, Hisar on June 29 in collaboration with AICRP (Dryland Agriculture) emphasizing the importance of soil test based nutrient management, soil health card as well as enhancing the preparedness for agricultural contingencies in kharif 2018.

- Dr. C.S. Dagar, Assistant Scientist and Advisor, Mountaineering Club, College of Agriculture, Kaul along with Dr. R.S. Garhwal accompanied the



Adventure Sports Tour of 30 UG students (boys and girls). During the tour, the students accomplished various adventure activities such as jungle

camping, mountain trekking, rock climbing, rappelling, swimming, cliff jumping, river rafting etc.

- The *G.hirsutum* genotype H 1518 has been promoted in advance AICRP trial under high density planting system Br 06 of North Zone. Similarly, *G. arboreum* hybrid AAH 40 has been promoted in advance AICRP hybrid trial Br 25 for rainfed condition of Central Zone for its higher yield potential.

College of Basic Sciences & Humanities

- Department of Molecular Biology, Biotechnology & Bioinformatics



(MBB&B) conducted a three-week training on Enhancing Crop Productivity

through Biotechnological Tools and Techniques (June 19 to July 9) and a six-week training on Molecular Breeding and Plant Tissue Culture Approaches for Crop Improvement (June 19 to August 1). These trainings were inaugurated by Dr. S.K. Sehrawat, Director of Research.

- Two applications- one on an efficient method for transformation in pigeon pea by Drs. Pushpa Kharb, Rakshita Singh and Parveen Batra (Application No. 201811012099) and another on an efficient method for transformation in monocots By Drs. Pushpa Kharb, Rakshita Singh and Upendra Kumar (Application No. 201811012100), have been filed with the Patent Office, Govt. of India for grant of patent. Besides, one application for grant of patent on an instant probiotic Lassi powder and method thereof by Drs. Anju Gaina, Kritika Rawat, Rakesh Kumar, Rakesh Gehlot and Raj Bala Grewal, CFST, has also been filed with Patent Office, Govt. of India.

- Two new research projects viz.

News Briefs

Setting up of plant tissue culture unit at CCSHAU Campus, Hisar, submitted by Drs. Upendra Kumar (PI) and Pushpa Kharb (Co-PI) with a funding of Rs. 2.50 crore and Establishment of facility for virus diagnosis genetic fidelity testing of micro-propagated horticultural crops submitted by Drs. Upendra Kumar (PI) and Pushpa Kharb (Co-PI) with a funding of Rs. 2.13 crore have been sanctioned by MIDH, Govt. of India and RKVY, respectively.

- Environment day was celebrated in Botanical Garden on June 5. Dr. Rajvir Singh, Dean of the college chaired the programme. He planted a tree sapling on the occasion.

- A total of 5084 biofertilizers vials (50 ml) comprising Azoteeka (1020), Rhizoteeka (1222), Phosphoteeka (2742) and Bioteeka (100) were produced and sold to the farmers and farm agencies by the Department of Microbiology.

I.C. College of Home Science

- Department of Human Development & Family Studies (HDFS) celebrated World Health Day at Moksha Vridh Ashram, Hisar on April 7. On this occasion, Dr. C.K. Singh and Dr. Santosh Sangwan delivered lectures to senior citizens on depression and its coping up strategies.

- A workshop on issues related with old age was organised by Dr. C.K. Singh, Professor, HDFS Department at Moksha Vridh Ashram, Hisar on April 13. About 30 elderly persons and PG students of HDFS Department participated in this workshop.

- Department of Family Resource Management celebrated Earth Day on



April 23. On this occasion, lecture on Save our Planet Earth was delivered and slogan writing and poster making competitions were held in the college.

- Dr. Sheela Sangwan and Dr. C.K. Singh, HDFS Department organised tour of professional elective and P.G. students of Family Welfare Institutes at Panchkula and Chandigarh on April 27.

- A two-day training on Drudgery Reducing Technologies for Women in Agriculture was conducted at village



Mangali, District Hisar from May 10-11 in which Mr. Sanjeev Kumar, Block Co-ordinator, Hisar-I of Gramin Vikas Vibhag, Family of Sarpanch and 60 rural women of village Mangali participated. • Family Resource Management Department established Nodal Resource Centre under All India Coordinated Research Project on Home Science on May 11. Mrs. Sumitra Rai Bahadur was nominated as Nodal Centre Incharge with other two rural women, namely Ms. Tarawati and Ms. Reena by the community of village Mangali.

Dean Postgraduate Studies

- The process of admissions to M.Sc./M.Tech./MBA/Ph.D./PG Diploma programmes for the session 2018-19, was started by inviting applications.

Directorate of Students' Welfare

- The following professional and skill development training programmes were conducted by Students' Counselling & Placement Cell during April-June, 2018: Comprehensive Course UGC-NET Exam-2018 (April 30 – May 9); Personality Development Training (May 2-16); Motivation Lecture on Enhancement of



Working Efficiency and Productivity of Youth (April 2); Career Counselling Session on Computer Aided Design in Landscaping (April 20-21); Pre Placement Talk for Campus Interview (April 23); and Career Counselling Session on Empowerment of Farmers and Agripreneurs in Horticulture and Agriculture.

- The Annual Training Camp of NCC was held in the University from June 7-16. As many as 32 students participated in this camp. One student, CPC Harsh Dagar was selected for firing competition held at NCC Academy, Ropar from June 22 – July 2. He was further promoted to the ensuing camps also. In the above camps, University students won several prizes.

Registrar Office

- For admission to various UG and PG programmes during academic session 2018-19, online applications were invited from the candidates. A total of 21619 admission forms were received from the candidates. In B.Sc. (Hons.) Ag. 4 year programme 13618, B.Sc. (Hons.) Ag. 6 year programme 6142, M.Sc. Basic Sciences 662, M.Sc. Agriculture 540, M.Sc. Home Science 108, M.Tech. 26 and Ph.D. 523 candidates had applied. In B.Sc. (Hons.) Ag. 4 year programme 11610, in M.Sc. Agriculture 408 candidates and M.Sc. Home Science 91 candidates appeared in the Entrance Test-1 which was held successfully on 9.6.2018. No case of impersonation was noticed during Entrance Test. The videography of all the candidates appearing in ET was got done to curb the cases of impersonation at the time of counselling apart from other remedial measures.

Retirements

The following faculty and staff members of the University retired on attaining the age of superannuation during April-June, 2018 :

Retirements on 30th April, 2018

S. No.	Name	Designation	Department
1	Dr. S.P. Goyal	Senior Extension Specialist	Krishi Vigyan Kendra, Kaul
2	Dr. K.K. Dahiya	Principal Scientist	Genetics & Plant Breeding Department
3	Dr. N.K. Thakral	Head	Forage Section
4	Mr. Mohd. Hussain	Deputy Superintendent	Directorate of Extension Education
5	Mr. Hoshiar Singh	Laboratory Attendant	Textile & Apparel Designing Department
6	Mr. Vishnu Prasad	Laboratory Attendant	Botany & Plant Physiology Department
7	Mr. Narender	Painter	XEN (C-I)
8	Mr. Dharam Veer	Electrician	XEN (E)
9	Mrs. Veena Vasudeva	Staff Nurse	Campus Hospital
10	Mr. Sube Singh	Beldar	Krishi Vigyan Kendra, Bhiwani
11	Mr. Kalamudin	Beldar	Landscape Unit
12	Mrs. Chandra Devi	Beldar	Landscape Unit
13	Mrs. Kamla Devi	Beldar	Cotton Research Station, Sirsa
14	Mrs. Shakuntala Devi	Beldar	Krishi Vigyan Kendra, Sirsa
15	Mr. Balbir Singh	Assistant	Dean, College of Agriculture
16	Mr. Jai Singh	Tractor Driver	Director Farms
17	Mr. Nar Singh	Sub-Inspector	Security Office
18	Mr. Raj Kumar	Technical Assistant	Seed Science & Technology Department
19	Mr. Paras Singh Sangwan	Assistant	XEN (C-I)

Retirements on 31st May, 2018

20	Dr. M.S. Dahiya	Registrar	Registrar Office
21	Dr. Veena Jain	Principal Scientist	Chemistry & Biochemistry Department
22	Dr. S.S. Dhanda	Principal Scientist	Genetics & Plant Breeding Department
23	Mr. Ram Phal	Technical Assistant	Oilseeds Section
24	Mr. Lal Singh	Go-cum-Daftri	Dean, Postgraduate Studies
25	Mr. Madan Lal	Electrician	XEN (E)
26	Mr. Chander Parkash	Assistant Engineer	Computer Section
27	Mr. Bir Singh	Assistant	Directorate of Students' Welfare
28	Mrs. Birmla Rani	Steno Typist	Associate Director (Publications)
29	Mr. Suva Lal	Blacksmith	Farm Machinery & Power Engineering Department
30	Mrs. Indrawati	Beldar	Landscape Unit
31	Mr. Om Parkash	Beldar	Agronomy Department
32	Mr. Jagdish Chander	Laboratory Technician	Agronomy Department

Retirements on 30th June, 2018

33	Mr. Chaman Lal	Assistant	Regional Research Station, Bawal
34	Mr. Kansi Ram	Junior Engineer	XEN (PH)
35	Mr. Lilu Ram	Carpenter	XEN (C-II)
36	Mrs. Ram Rati	Go-cum-Daftri	Directorate of Students' Welfare
37	Mr. Vinod Kumar	Generator Operator	XEN (E)
38	Mr. Sube Singh	Electrician Gr. II	XEN (E)
39	Mrs. Ram Kali	Beldar	Landscape Unit
40	Mr. Ramesh Chander	Beldar	Landscape Unit
41	Mr. Jokhu Lal	Laboratory Assistant	Entomology Department
42	Mr. Balwan Singh	Beldar	Agronomy Department
43	Mr. Bala Krishan	Laboratory Attendant	Nematology Department
44	Mr. Jagmandar Singh	Superintendent	Directorate of Students' Welfare
45	Mr. Balwinder Singh	Messenger	Cotton Research Station, Sirsa
46	Mr. Ram Sanjeevan	Plant Observer	Pulses Section



Chaudhary Charan Singh Haryana Agricultural University

From Vice-Chancellor's Desk

Haryana is an agriculture-dominant state and it has made incredible progress in the field during last five decades since its inception. Before green revolution, organic manure like FYM, crop residues and incorporation of pulse crops in soil was the source of plant nutrients. Over the years, with high requirements of nutrients, the chemical fertilizers have replaced the organic manures. It has become the common practice to burn the crop residues at field, which results in losses of large quantity of plant nutrients present in the crop residues. Burning also causes great loss to environment and soil available nutrients.

Appropriate management of crop residues assumes a great significance in maintaining soil health and environment. It can be economically beneficial to farmers as it also reduces the cost of crop production. Paddy, maize, sugarcane, wheat and mustard crops leave large quantity of residues in the field. The quantity of crop residues depends on crop produce. Food grain crops produce large quantity of residue as compared to pulse crops. The availability of potash as plant nutrient is higher in residues, followed by nitrogen and phosphorus.

Crop residues are a valuable resource and have several advantages. These can be used as mulch in widely spaced crops and vegetables which helps in maintaining soil temperature and conserve moisture. After decomposition these act as manure in the soil. Retaining of crop residues in the field increases the microbial population in the soil and their activity, saves soil from natural calamity like snow and hot winds, reduces the losses from weeds, increases chemical fertilizer efficiency and water conservation in field, apart from preventing environment from pollution. Besides, small and marginal farmers can use them in making household articles like toys, flower pots and other decorative articles.

Despite so many advantages of crop residues, the farmers are forced by the prevailing situation to burn it which causes ill effects like damage to soil micro and macro flora, pollution of environment by carbon dioxide, nitrous oxide and other harmful gases which lead to breathing problems in children, old, weak and ill people. Burning of crop residues destroys 20 to 25 per cent plant nutrients from soil, mainly carbon up to 80 per cent, nitrogen 25 per cent and sulphur 50 per cent.

Chaudhary Charan Singh Haryana Agricultural University, Hisar is doing commendable job on crop residue management. Krishi Vigyan Kendras of the university are holding camps and conducting trainings, seminars, workshops to create awareness among masses through participation of schools, colleges, gram panchayats, government functionaries, NGOs etc. Krishi Vigyan Kendras have adopted villages and are organizing farmers-scientists interactive meetings in the villages and also organizing Kisan Melas at district level to mobilize farmers. Crop residue management machineries like Rotary Slasher, Reversible Mould Board, Paddy Straw Chopper-Trailed type, Happy Seeder and Rotary Mulchers are being provided to the farmers to manage the crop residues by the KVKs of the University.

It is high time that awareness be created among various sections of the society, particularly the farming community of Haryana, Punjab, Rajasthan and Western Uttar Pradesh. Due to the untiring efforts of farmers, extension functionaries of CCSHAU, State Department of Agriculture and Farmers Welfare, ICAR and other institutes, there was a dip of 70-80 per cent in burning of crop residues this year. The university extension functionaries and the farming community of the state deserve appreciation for this achievement. I am confident that in coming years, with the efforts of CCSHAU, Hisar, the crop residue burning which causes environmental pollution and is hazardous to human health will be managed 100 per cent and will make life better on the earth.

Prof. K.P. Singh



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Indo-US Brain Storming Workshop on Industry Needs



A two-day Indo-US Brain Storming Workshop on Identification of Industry Needs and Skill Gaps for Market Driven Agriculture was organised from September 14-15. In the workshop, representatives of agro-industries, entrepreneurs, undergraduate and postgraduate students and alumni of CCSHAU alongwith scientists of Michigan State University, USA and CCS Haryana Agricultural University participated.

Inaugurating the workshop, the Vice-Chancellor, Prof. K.P. Singh called upon the industry to join hands with agricultural universities for the rapid development of agriculture in the country. He said that the agro-based industry always needed skilled professionals. Most agricultural graduates in India work for the agriculture based industry and they make significant contributions in the development of the industry. The cooperation between the two will help re-design research and revise curriculum

as per the needs of the agro-industry, which will also improve the skills of the agricultural graduates.

The Vice-Chancellor further said that this University has been sanctioned a project worth Rs. 24.83 crores on Strengthening Institutional Capacity to Produce Skilled Professionals for Market Driven Agriculture under the National Agriculture Higher Education Project (NAHEP) by the Indian Council of Agricultural Research (ICAR). It will further facilitate to strengthen the manpower skills required by the industry for better employability of our graduates, greater possibility of students to take up entrepreneurship and create employment.

Dr. P. Ramasundaram, ADG, ICAR, New Delhi, said that IDP is the first project granted by the World Bank in education sector. In this project, equal amount will be provided by the Government of India and the World Bank. Dr. Ramasundaram, who is also the National Coordinator of this project, said

that in North India, this project has been granted to only CCSHAU, Hisar and NDRI, Karnal. He hoped that this project would prove a milestone in improving quality of agricultural education.

Dr. Steven Hansen, Dean, International Studies and Programmes, Michigan State University and Dr. R.K. Jhorar, Dean, College of Agricultural Engineering and Technology, CCSHAU, apprised the participating representatives of the agro-industry about strengths of their respective university in teaching and research alongwith their significant achievements and priorities.

Earlier, Coordinator of IDP project and Dean, College of Agriculture, Dr. K.S. Grewal welcomed the participants and the guests. Apart from Dr. Steven Hansen, the other dignitaries from Michigan State University who attended the workshop were: Dr. Sanjay Gupta, Dr. Douglas Buhler, Dr. Kelly Millenbah, Dr. Karim Maredia, Dr. Vibha Dhawan, Dr. Milind Agarwal and Mr. Keiichi Higuchi.

CCSHAU Training Institute Accredited by ASCI

Saina Nehwal Institute of Agricultural Technology Training & Education (SNIATTE) of the University has been made an authorized centre of Agriculture Skill Council of India (ASCI) to award certificate / diploma of skill development in 19 different disciplines. It has been granted the registration no. ASCI-Regist. No 16670 and Training Centre ID 107787.

It may be mentioned here that

CCSHAU and ASCI have signed an MoU some time ago under which trainings will be conducted by CCSHAU as per National Skill Qualification Framework (NSQF) in the areas of farm mechanization, horticulture, seed production, crop production etc. and the trainees will be awarded certificates after their evaluation by the ASCI.

Apart from SNIATTE, these courses

will also be organised at Regional Research Stations and Krishi Vigyan Kendras of the University. The knowledge imparted in these training courses will help farmers, women and unemployed youth, especially those young people who fail to complete their studies, start their own small business and get employment. This will reduce the existing problem of unemployment in the country.

Sensitization Workshop on Promotion of Agricultural Mechanization



The University in association with ICAR-ATARI, Zone-II, Jodhpur organised a one-day Sensitization Workshop on Promotion of Agricultural Mechanization for In-Situ Management of Crop Residue on August 10. Scientists of 15 KVKs and 150 opinion leader farmers of Haryana and Delhi participated in this workshop.

On this occasion, Prof. K.P. Singh, Vice-Chancellor was the Chief Guest. While addressing the participants, he said that the burning of crop residues not only adds to the levels of pollution but

also adversely affects the human health as well as health of the soil by lowering the level of micronutrients in the soil. He said that instead of burning crop residues, the best option is that the farmers should mix it in the soil with the help of machines. This practice, he said, will also improve quality of the soil.

Dr. V.P. Chahal, ADG (Agril. Extension), ICAR, New Delhi, said that burning of crop residues is a serious problem particularly in Punjab, Haryana, Delhi and U.P. which needs to be

immediately resolved. The ICAR, in order to address this problem, has implemented project through KVKs for promotion of agricultural mechanization for in-situ management of crop residue.

Dr. S.K. Singh, Director, ICAR-ATARI, Jodhpur, said that this project will be implemented in participatory mode by involving all stakeholders so that awareness can be created through trainings and demonstrations on farm mechanization.

Dr. Rajbir Singh, Director, ICAR-ATARI, Ludhiana, called upon the farmers to take a pledge that they would never burn the crop residues, rather mix it in the soil. Earlier, Dr. R.S. Hudda, DEE, CCSHAU, in his welcome speech highlighted framework of the workshop.

The KVKs involved in this project will implement various activities like purchase of farm machinery and implements, conducting demonstrations or crop residue management (CRM) technologies and practices, training of farmers and activities to create awareness on CRM during 2018-19.

Oats Variety Identified for Cultivation in South Zone



A new variety of oats – HFO 427 developed in the University has been identified for release in South Zone of the country. This variety is better in yield and nutritional quality. The Varietal Identification Committee of the Indian Council of Agricultural Research (ICAR)

has identified this variety for cultivation in the Southern states of Telangana, Andhra Pradesh, Karnataka, Tamil Nadu and Kerala.

The variety HFO 427 has been developed by a team of scientists of Forage Section of the University which comprises Drs. D.S. Phogat and Yogesh Jindal in collaboration with Drs. Satpal and Jayanti Tokas.

HFO 427 is a single cut variety suitable for cultivation under irrigated and timely sown condition. It gave 302

q/ha green fodder yield which was 12.6% and 12.5% more than the National checks Kent (284.5 q/ha) and OS 6 (284.7 q/ha), respectively in the South Zone. It also showed superiority of 13.5% green fodder yield over the South Zone check variety JHO 2000-4 (282.2 q/ha).

As far as the dry matter yield is concerned, variety HFO 427 (67.4 q/ha) out yielded the best National checks Kent (61.9 q/ha) by 8.9% and OS 6 (62.3 q/ha) by 8.2 %. Besides, this variety also out yielded the zonal check JHO 2000-4 (56.9 q/ha) by 18.4 %. This variety has better nutritional qualities with 9% of crude protein and capable of giving seed yield of 10.4 q/ha.

Women Need Better Nutrition: Prof. K.P. Singh



Despite being better than many countries of the world in the consumption of food grains, people in India, especially women are victims of malnutrition. This was stated by the Vice-Chancellor, Prof. K.P. Singh, while speaking as the Chief Guest at the valedictory function of National Nutrition Month at College of Home Science on September 28.

Nutrition Must for Healthy Life

He said the highest need of nutrition is to the earth which produces food and the women who bears children and shoulder the responsibility of household. Although women spend most of their time in the kitchen, they do not pay attention to their diet. He said for a healthy life there is a need to pay attention to nutrition of body from the childhood stage. Studies show that due to low nutrition diet in childhood, the chances of fatal diseases such as cardiovascular disease and diabetes increase in old age. He said people should have diversified diet to supply all essential nutrients to the body. While expressing concern over gender discrimination prevailing in the society in the upbringing of children, he called upon the nutrition experts to make people

aware of this social evil and work for its eradication.

Stop Food Wastage

The Vice-Chancellor also expressed concern over the wastage of food taking place in social ceremonies such as weddings and stressed that it should be stopped. He said such issues can be interesting topics of research for the research scholars.

Don't Get Swayed by TV Ads.

Dr. Bimla Dhanda, Dean of the College said that people should consume

only nutritious food items, fruits, green vegetables and clean water, without influenced by TV advertisements. She lauded the team of All India Coordinated Research Project and Woman and Child Welfare Department, Hisar for conducting awareness programmes in different villages during National Nutrition Month.

On this occasion, Dr. Darshan Poonia, Head, Department of Foods and Nutrition presented the details of the programmes conducted during month-long celebration. Dr. S.C. Sindhu conducted the stage while Mrs. Parnita from the Women and Child Welfare Department extended vote of thanks to the audience.

Prizes to Winners

An exhibition of entries for slogan writing, poster making and nutritious recipes competitions conducted during the month, was put up on the occasion. The Vice-Chancellor gave away prizes to the winners of these competitions. Mrs. Sumitra of Mangali village was given special prize for her valued services.

In the programme, a skit on 'Save Food - Stop Wastage of Food' presented by the students of the College of Home Science received applause of the audience.



MoU Signed for Biofertilizer Production



The University signed a Memorandum of Understanding (MoU) with M/s HABITAT Genome Improvement Primary Producers Company Pvt. Ltd. on July 4.

In the presence of the Vice-Chancellor, Prof. K P. Singh, Director of

Research, Dr. S.K. Sehrawat and Head, Department of Microbiology, Dr. Rajesh Gera on behalf of CCSHAU and Chairman, M/s HABITAT Genome Improvement Primary Producers Company, Mr. Satish Kumar and Mr. Anand Dudi signed the MoU.

Under the MoU, the above company under the supervision of the scientists of Department of Microbiology, will prepare different biofertilizers in the Biofertilizer Production Laboratory of this department and market them to the farmers and different agencies. Besides, this company will also develop skill through the training of students and entrepreneurs.

It may be mentioned here that the Department of Microbiology of the University has developed a number of biofertilizer cultures such as Azotobacter, Rhizobium, Phosphotica etc. for different crops. The biofertilizers produced by this department are in much demand.

Japanese Students Visit CCSHAU



The University is moving forward in earning an international image for itself as its synergy is growing fast with reputed universities of several countries of the world for bilateral cooperation in academic and research pursuits.

In this sequel, a team of four undergraduate students comprising three boys and one girl of Tokyo University of Agriculture, Japan came to

this University on a week-long visit. It was led by Dr. Babil Pachakil, Assistant Professor in the International Development Agriculture Section of Tokyo University of Agriculture. During stay in the University, they closely watched academic, research and extension activities as well as facilities available in the laboratories of the University. They also visited villages near

Hisar to see agriculture practices performed by Haryana farmers.

The visit of Japanese students is the outcome of the agreement for mutual cooperation between the above Japanese University and the CCSHAU.

Earlier, to welcome the Japanese team, the foreign students of the University hosted a Students Meet where they depicted culture of their own country and also gave a detailed account of the agriculture, research and extension programmes of the University. Chairing the meet, the Vice-Chancellor, Prof. K.P. Singh said that the Tokyo University of Agriculture, Japan has invited graduate and postgraduate students of this University for a degree programme and soon they will visit Japan and study modern agriculture. He said that admission fee, tuition fee, student activity charges, laboratory expenses etc. of these students will be borne by Tokyo University of Agriculture. Apart from this, they will also be given 45 thousand yen as scholarship.

University Speeds up Efforts for Crop Residue Management

The University in a bid to contain environment pollution taking place due to burning of crop residues, will speed up its efforts for management of crop residue. For this, an action plan has been prepared and the Indian Council of Agricultural Research (ICAR) has also sanctioned a grant of Rs. 4 Crore to the University.

This project will be implemented through Krishi Vigyan Kendras of the University located in Ambala, Bhiwani, Fatehabad, Hisar, Jind, Jhajjar, Karnal, Kaithal, Kurukshetra, Panipat, Rohtak, Sonapat, Sirsa and Yamunanagar districts of the state. Under this, two villages will be adopted by each Krishi Vigyan Kendra. Out of the funds provided by the ICAR, the machines useful in crop

residue management will be purchased. For each Krishi Vigyan Kendra, two Happy Seeder, Paddy Straw Chopper / Shredder / Mulcher, Sharb Master / Cutter cum Spreader, one Reversible MB Plough and three Zero Till Drill will be purchased. These machines will be installed on custom hiring centres in the adopted villages. With the help of these machines, scientists in each of the above districts will lay 100 demonstrations for the farmers in the Rabi season crops. During this programme, Farmer Change Agents will be identified which will help in spreading crop residue management technologies among the farmers.

To impart practical knowledge about crop residual management to the farmers, two 5-day courses will be

organised in each district. In each course, 25 farmers will be included. Besides farmers, rural women and commoners will also be involved during each extension activity to create awareness among the people about crop residue management. Apart from this, in each district farmer fair and awareness campaigns will also be organised. Using the Information Technology, knowledge will be disseminated to every village of the district. School and college students will also be made aware about crop residue management for which essay writing, painting and debate competitions will be organised in two schools and one college of each district. Awareness will also be brought through Prabhat Pheri and Nookar Natak.

Workshop on Capacity Building in Fishery



A one-day Workshop on Capacity Building in Fishery was organised by College of Basic Sciences and Humanities of the University on July 16.

On this occasion, Dr. O.P. Chaudhary, Joint Secretary, Department of Animal Husbandry, Dairying and Fisheries, Government of India, was the Chief Guest. While addressing the workshop, he said that fishery is advantageous for social and economic development. The Government of India has been promoting fisheries for the upliftment of farmers and providing funds under various schemes for this purpose. He said that by promoting

fisheries not only the income of the farmers will increase, the employment opportunities in rural areas will also increase. Apart from this, it will also contribute to GDP of the country.

The Vice-Chancellor, Prof. K.P. Singh in his presidential remarks said that fisheries can play an important role in achieving the goal of doubling the income of farmers by the year 2022. He said that Haryana is primarily a vegetarian state but the farmers here are adopting fisheries as a business and today the state stands second in the per hectare production of fish. In many parts of Haryana, the underground water is saline, which can be utilized for the fish production. Efforts will be made to strengthen the host department to make it the Centre of Aquaculture, in which the farmers and unemployed youth will be

trained.

Mr. Shankar Laxman, Joint Commissioner (Fisheries), Govt. of India said that in order to promote fisheries, rivers, canals, natural and man made lakes, reservoirs, micro water sheds and village ponds can be utilized. In Haryana, in 1966, fish farming started with just 58 hectares of ponds which has now increased to 17454.58 hectares.

Dr. Rajendra Kumar Sangwan, Director, Fisheries Department, Haryana said that Haryana state has been declared a disease free state in fish farming by the ICAR. He highlighted various schemes of the government for promotion of fisheries.

Earlier, Dr. Rajvir Singh, Dean of the College in his welcome speech said that nearly 350 scientists, officers of Fisheries Department and farmers participated in the workshop. Dr. Rachna Gulati, Head of the host Department and Organising Secretary of the workshop and Dr. Dharambir Singh, Co-organising Secretary also spoke on this occasion.

Peer Review Team of ICAR Visits CCSHAU

The Peer Review Team (PRT) of Indian Council of Agricultural Research (ICAR) visited the University from July 13-16 to assess the teaching, research and extension activities as well as infrastructure facilities available in the University and its constituent colleges.

The PRT led by Dr. B. Venkateshwarlu, former Vice-Chancellor, VNM Krishi Vishvavidyalaya, Parbhani, included Dr. (Mrs.) Shashi Jain, Dean, College of Home Science, MPUAT, Udaipur; Dr. S.K. Dash, Dean, College of Agricultural Engineering & Technology, OUAT, Bhubneshwar; Dr. S. Mahimairajan, Dean, Agriculture College & Research Institute, TNAU, Coimbatore and Dr. P.P. Shastri, Dean, BM College of Agriculture, RVSKV, Khandwa as members. Dr. K.P. Tripathi, Principal Scientist, ICAR, New Delhi accompanied the PR as Member Secretary.

The PRT apart from UG programmes including B.Sc. Agriculture, B.Sc. Home Science, B.Tech. Agricultural Engineering, also made assessment for masters and doctorate programmes offered in different disciplines of Agriculture, Home Science, Agricultural Engineering and Basic Sciences & Humanities. Presentations based on self study reports were made by the Deans of respective colleges. The team also visited classrooms and laboratories to review the facilities provided by the departments. It also visited central facilities of the University which among others include University Library, Campus Hospital, Sports Complex, Research Farm, Auditorium and Hostels.

The PRT interacted with faculty, non-teaching staff and students to know their observation and level of satisfaction about scholastic and co-scholastic activities of the University. The PRT will submit its report to the ICAR for renewal of accreditation to the University.

New High Yielding Mustard Variety Developed



Oilseeds Section of Department of Genetics and Plant Breeding has developed a new mustard variety RH 761 which has been identified for release in the meeting held under the chairmanship of DDG, ICAR at New Delhi on August 16.

This variety has been identified for release under timely sown rainfed conditions in Zone-II comprising the states of Haryana, Punjab, Jammu, Delhi and northern Rajasthan. This variety possesses 17.8 to 24.7 % yield advantage over the existing high yielding varieties owing to

long and thick siliquae with more number of seeds per silique. It gave average yield of 26-27 q/ha with 136-143 days maturity in the trials conducted under timely sown rainfed conditions in the zone. The seeds of this variety are bold having about 40.0% oil content.

The team of scientists who have developed RH 761 variety includes Drs. Ram Avtar, R.K. Sheoran, N.K. Thakral, Yashpal Yadav, Minakshi Jattan, A.S. Rath, Sunita Yadav, Suresh Kumar, Nisha Kumari and Anita Kumari.

National Sports Day



National Sports Day was celebrated in the memory of Hockey wizard, Major Dhyan Chand on August 29. On this occasion, cross country races (men and women) and basketball and hockey matches were organised by the Directorate of Students' Welfare in which 250 students of CCSHAU, LUVAS and Sports Authority of India (SAI) participated.

Director Students' Welfare, Dr. D.S Dahiya was the Chief Guest on this occasion. He gave away prizes to the winners.

In the cross country race (women category), Ms. Aarushi secured first position whereas Sudesh and Rabina secured second and third place, respectively. In men category, Mr. Rakesh, Mr. Anand and Mr. Rajbinder stood first, second and third, respectively.

In hockey match played between women teams of CCSHAU and SAI, the latter team stood the winner.

The basketball match was played between girl students and teachers (female). It was won by girls team.

MoU for Technical Collaboration on Vegetable Grafting



Department of Vegetable Science, entitled "Vegetable Grafting for Mitigation of Biotic & Abiotic stresses in Green House Vegetable Production System" to mitigate biotic and abiotic stresses in

The University signed an MoU with VNR Seeds Pvt. Ltd., Raipur on September 5 for their technical support to foster vegetable grafting in Haryana and to establish production facility for grafted vegetable plants in the University with the objective to overcome biotic and abiotic

stresses in vegetable production.

VNR Seeds will provide the identified rootstocks along with technical support for one year at University to initiate this work.

It may be mentioned here that a RKVY project has been sanctioned in the

vegetable production (nematodes, soil-borne diseases & salinity, high and low temperature extremes in the region) and to provide healthy and quality planting material to farmers for increasing quality production and doubling income with vegetable production in Haryana.

Workshop on Elsevier Empowering Agriculture Research



Nehru Library organised a one-day Workshop on Elsevier Empowering Agriculture Research in India in association with Consortium for e-Resources in Agriculture (CeRA), ICAR and Elsevier Pvt. Ltd. on August 24. As many as 20 Nodal Officers/ Librarians from different Agricultural Universities and ICAR Institutes of North India, 52 faculty and 167 students of CCSHAU participated in the workshop.

Prof. K.P. Singh, Vice-Chancellor who was the Chief Guest on the occasion, said in his address that in every university of the country a lot of research work is going on but the quality of the research outputs still need to be improved. Researchers must focus on

the quality of their research publications rather than the quantity so that they could be published at global level. However, to improve the quality of research outputs, researchers should use reference manager tools like Mendely, citation databases like Scopus and plagiarism software. They should review the good literature available on big consortia like CeRA.

On this occasion, Dr. S.K. Singh, Project Director, DKMA, ICAR was the Guest of Honour. He said that all the scientists and students under NARS should utilize the e-resources available under CeRA consortium. Teachers should promote their use among students so that they could use the rich literature related to agriculture and allied

sciences.

Dr. S.K. Joshi, Incharge, CeRA, ICAR said that more and more quality content in form of journals and magazines will also be made accessible in CeRA for agricultural academic community. He congratulated Dr. Seema Parmar and Dr. Rajinder, Coordinators of the workshop for organising this workshop.

Earlier, Dr. Balwan Singh, University Librarian welcomed the dignitaries and participants of the workshop. He said that the objective of the workshop is to show the CeRA's research productivity and how Science Direct/Scopus can be useful tools in effectively supplementing research and academic activities at the CeRA member institutes.

National Group Meet on Fodder Crops and their Utilization



The University hosted a two-day National Group Meet on Fodder Crops and their Utilization from September 7-8. On this occasion, Dr. O.P. Chaudhary, Joint Secretary, National Livestock Mission, Govt. of India, was the Chief Guest.

Speaking on the occasion, Dr. Chaudhary emphasized on increasing the availability of seed of fodder crops for which coordination with different private enterprises /seed companies should be

good quality seed, its import could be reduced.

Dr. Dharambir Yadav, Project Director, said that there are about 20% livestock in India but due to the cultivation of fodder on only 4% of the total cultivation land, there is a shortage of around 31% green fodder and 12% of dry fodder. In Haryana, fodder is cultivated on only 9% of the land which is far less to meet the need of livestock.

established. Besides, cultivation of fodder crops needs to be encouraged at the level of farmers so that by producing a

Dr. Khem Chand, Director, Fodder Research Institute, Jhansi and Special Guest on the occasion, said that more than 200 varieties of different fodder crops have been developed so far in the country.

Dr. A.K. Roy, Project Coordinator, Jhansi, informed that a data base has been prepared on varieties of different fodder crops.

In the group meet, scientists from 22 centres of AICRP on Fodder Crops across the country participated. On this occasion, CCSHAU, PAU and TNU Centres were honoured for developing different varieties of fodder crops whereas Talengana and Srinagar Centres were conferred awards for their significant achievements in fodder research. Two books on fodder crops and Annual Report of AICRP (2017-18) were released on the occasion.

Independence Day Celebrated with Fanfare



The Independence Day was celebrated in the University with great fanfare and glee on August 15. On this occasion, the Vice-Chancellor, Prof. K.P. Singh hoisted the National flag and congratulated the University community.

Speaking on the occasion, the Vice-Chancellor remembered the freedom fighters who laid down their lives for the freedom of the country. He said that due to their supreme sacrifices we are living with tranquility. Every citizen should draw inspiration from

these martyrs and work with commitment for development of the country. The country has many expectations from the younger generation. The teachers and parents should instill in them good values and nationalism, he said.

On this occasion, students of Campus School presented a colourful cultural programme filled with patriotic feeling. The Vice-Chancellor also inaugurated Vanmahotsav in the Campus School on the occasion.



Tiranga Yatra

To spread the message of unity and integrity of the country as well as respect for the National flag among the masses, Tiranga Yatra was also organised on this occasion. It was flagged off by the Vice-Chancellor.

The NSS volunteers who joined the Tiranga Yatra, holding tricolour high in their hands and shouting patriotic slogans, passed through the University campus and different localities around the University.

VC Honours ICAR-NBPGR Director



Indian effort in decoding the wheat genome has participation of 18 scientists spearheaded by Dr. Kuldeep Singh, Director, ICAR-National Bureau of Plant Genetic Resources. For this great achievement, Prof. K.P. Singh, Vice-

Chancellor, felicitated Dr. Kuldeep Singh during his visit to the University on August 27. Director of Research, Dr. S.K. Sehrawat, Head, MBBB Department, Dr. Pushpa Kharab and the faculty were present on this occasion.

New Grape Varieties Introduced



Grape plants of four varieties, viz. Manjri Medika, Flame Seedless, Early Perlette and Manjri Naveen brought from National Research Centre on Grapes, Pune, have been planted in research area of Horticulture Department. These plants have been planted under high density and improved training system. This was launched by the Vice-Chancellor, Prof. K.P. Singh on August 13.

Participation in Conferences/Workshops/Trainings

- Dr. Indu Arora, Scientist, Vegetable Science Department, attended International Seminar on Innovative Theories Practices for Sustainable Development in Changing World Scenario held at Kuala Lumpur, Malaysia from July 10-13. She was presented the Best Oral Presentation Award in the seminar.
- Drs. A.K. Bhatia, V.P.S. Panghal and Kishor Chand, Vegetable Science Department, attended 36th Group Meeting/National Workshop of AICRP (Potato) held at SDAU, Sardar Krushi Nagar, Gujarat, from September 8-12.
- Dr. Manju Tonk, Incharge, IPR & BPD Cell, participated in the 5-day training programme on Employability, Entrepreneurship and Life Skills organised by Haryana Viskwakarma Skill University (HVSU), Gurugram at NIESBUD Office, Dehradun, Uttarakhand, from July 23-27.
- Dr. N.M. Rose, Professor, Textile &

Apparel Designing Department, attended training on Basic Research Tools for Textile Chemistry organised by ICAR-Central Sheep and Wool Research Institute, Avikanagar, Rajasthan, from August 13-24.

- Drs. D.P. Malik, V.P. Luhach, Nitin Bhardwaj and Nirmal Kumar, faculty and Mr. Manohar, Agriculture Inspector, Agricultural Economics Department, attended National Workshop on Cost of Cultivation Scheme at Kerala University, Thiruvananthapuram, from September 13-15.

- Er. Anil Kumar and Er. Sundeeep Kumar attended Summer School on Adaptation of Energy Efficient Agricultural Technology for Climate Change Mitigation held at COAE & PHT, Ranipool, Sikkim, from June 4-24.

- Dr. V.K. Madan, Principal Scientist (Phytochemistry), Dr. Rajesh Kumar Arya, Asstt. Scientist (PB) and Dr. Jhabar Mal Sutaliya, Jr. Agronomist, attended 5th Rabi Group Meet of AICRN on Potential

Crops held at PAU, Ludhiana, on September 10.

- Dr. V.K. Madan, Principal Scientist (Phytochemistry), Dr. Rajesh Kumar Arya, Asstt. Scientist (PB) and Dr. Jhabar Mal Sutaliya, Jr. Agronomist, attended 26th Group Meeting of AICRP on Medicinal & Aromatic Plants and Betelvine held at Assam Agricultural University, Jorhat, from September 28-30.

- Drs. Ram Avtar, A.S. Rathi, Vineeta Rathore and Vinod Goyal, Oilseeds Section, attended 25th Annual Group Meeting of Rapeseed-Mustard Workers held at BHU, Varanasi, from August 4-6.

- Dr. R.K. Sheoran, Sr. Scientist and Head (Oilseeds) and Dr. Suresh Kumar, Asstt. Agronomist, attended the 8th QRT meeting on oilseeds at Bharti Vidyapeeth, Pune, from September 7-8. In the meeting, they presented the research work of AICRP on Sunflower for the period 2012-13 to 2016-17.

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College of Agricultural Engineering & Technology

- A two-week training programme on Robotics and Automation was



conducted in collaboration with Directorate of Human Resource Management, CCSHAU, from July 17-30. In this training, about 20 faculty members of the University participated.

- Mr. Jaideep, an alumnus who passed B.Tech and M.Tech from the College secured 1st rank in the ICAR-JRF/SRF (PGS)-2018 in the Agricultural Engineering discipline.
- The farmers of Karnal district and field functionaries of Agriculture and Farmers Welfare Department of district Hisar were sensitized on the use of crop residue management machinery.
- An awareness programme on biogas technology was organised in association with an NGO, Jambh Shakti in the adopted village Dubeta on July 3. The villagers were made aware of the various advantages of biogas technology and Govardhan Yojna of the government along with vermicompost technology. The programme was organised by Dr. Yadvika and Dr. D.K. Sharma, Incharge of the adopted village.
- Dr. Sanjay Kumar, Prof. and Head, Soil and Water Engineering Department, attended 3-day Academic Leadership Programme at NITTTR, Chandigarh, from September 8-10.
- Teachers' day was celebrated in the College on September 5.
- Freshers Day was celebrated in the

College on September 20. Activities like introduction of 1st year students, dance, skit, singing, poem recitation etc. were performed by the students on this occasion.

College of Agriculture, Hisar

- Department of Horticulture in collaboration with Students' Counselling & Placement Cell organised a training on Post Harvest Technology of Horticultural Crops for the students from August 28 to September 10. A total of 20 students participated in this training. They were exposed to various aspects of post harvest handling of horticultural crops, maturity indices, pre-cooling, sorting, grading, waxing, packaging, storage etc. They were also taken on tour to expose them to post harvest technology of temperate horticulture at YSPUH&F, Solan, NRC Mushroom, Regional Research Station, Chamba Ghat, RRS, Mushobhra, COA, Kaul etc.
- Department of Nematology organised a programme on Nematode Management in Protected Cultivation and Fruit Crops on September 21 at KVK Fatehabad under the aegis of AICRP on Nematodes. About 75 farmers and officers of Horticulture Department of district Fatehabad participated in this programme. Er. C.P. Ahuja, Member Board of Management, CCSHAU, Hisar, was the Chief Guest of this event. On this occasion, Dr. R.K. Walia, Project Coordinator, AICRP (Nematode) gave a presentation on nematode problem in fruit crops and solution. Scientists of the Department and KVK Fatehabad also delivered lectures on the occasion. A similar programme was also organised at KVK Jhajjar on August 9.
- Quinquennial Review Team (QRT) visited the AICRP on Sorghum, Hisar Centre (CCSHAU, Hisar) from September 3-4. The team reviewed the research work of forage sorghum of this

Centre from 2012-13 to 2017-18. Dr. K.S. Khokhar, former Vice-Chancellor, CCSHAU chaired the four member review team.

- ICAR-QRT team comprising Dr. Raghava P. Reddy (Chairman), Dr. M.L. Lodha, Dr. D.C. Uprety, Dr. R.K. Pannu and Dr. C. Tara Satyavathi visited Bajra Section from September 15-16 and reviewed the research work during the last five years (2012-17). The team appreciated the work of this Centre.
- Presentation and Execution of Monitoring of Hisar Centre to QRT on Cotton on September 4 for the period from 2012-13 to 2016-17 of all disciplines.
- MAP Section organised two-day Farmers' Training on Cultivation of Aromatic and Medicinal Plants at Saina Nehwal Institute of Agricultural Technology Training & Education, CCSHAU, Hisar from September 22-23. A total of 50 farmers were benefitted from this training.
- Mr. Vijay and Mr. Hemant Saini, Ph.D. students, Horticulture Department, have joined as Sr. Research Fellow at KVK, Sadalpur. Likewise, another Ph.D. student, Mr. Shahroon Khan has joined as Assistant Professor at Maharishi Markandeshwar University, Mullana (Haryana).
- Ms. Soniya Dagar, M.Sc. student, Soil Science Department, who secured 7th position in JRF, got admission in IARI, New Delhi.
- Mr. Gagan Deep, Ph.D. student, Soil Science Department, has been selected as Soil Conservation Officer, Department of Agriculture, Punjab.
- Ms. Saroj Yadav, Ph.D. student, Nematology Department, has joined as Assistant Professor, Suresh Gyan Vihar University, Jaipur.

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College of Basic Sciences & Humanities

- MBBS Department organised a Workshop cum Hands-on-Training on



Recent Trends in Bioinformatics and its Applications in Crop Improvement from July 17-21. About 33 students participated in this training.

- Mathematics & Statistics Department organised essay competition on the topic: Importance & Application of Mathematics and Statistics in Agriculture on September 15 and talent search programme on October 16.
- A total of 43921 biofertilizers vials (50 ml each) comprising 18060 Azoteeka, 21961 Phosphoteeka, 3900 Rhizoteeka were produced by Habitat Genome Improvement Primary Producer Company Pvt. Ltd., Hisar through PPP mode and sold to farmers and other farm agencies.
- Dr. Vinod Goyal, Assistant Scientist, Plant Physiology Department, attended a two-week training programme on Robotics and Automation jointly organised by College of Agricultural Engineering & Technology and AAREM, Directorate of Human Resource Management of the University from July 17-30.
- Dr. R.K. Gupta, Zoology Department, visited Italy to participate in the CFS-45 (Committee on World Food Security) meeting held from October 12-28.
- Ms. Rakshita Singh, Ph.D. student, Molecular Biology, Biotechnology & Bioinformatics (MBBS) Department, participated in 6th Annual South Asia

Biosafety Conference held in Dhaka, Bangladesh, from September 15-18. In the conference, she gave oral as well as poster presentation on the topic: Genetic Engineering for Development of Salt-Tolerant Pigeon Pea Plants. For participation, she was awarded Travel Grant by International Life Sciences Institute (ILSI) Research Foundation, Washington, USA.

- Ms. Preeti, Ph.D. student, Sociology Department, qualified UGC-NET Exam.

College of Home Science

- Department of Extension Education & Communication Management (EECM) organised awareness programme on Swachh Bharat Mission in Govt. Girls Secondary School, village Gawar on July 21. On this occasion, a lecture on health and hygiene was delivered by Dr. Rita Goel in which students were encouraged to keep themselves and their surroundings clean. Dr. Vandana Verma Trar guided them on how to segregate solid waste from non-degradable waste.
- Department of Human Development & Family Studies (HDFS) organised two brainstorming sessions on July 27 and August 4, chaired by Dr. Sudha Katyal, Principal, Government College of Home Science, Chandigarh and Dr. Jatinder Gulati, Dean, College of Home Science, PAU, Ludhiana, respectively. During these sessions, latest research areas, viable research ideas and prospective funding agencies in the field of HDFS were discussed by faculty and PG students.
- Department of Foods & Nutrition (FN) celebrated World Breast Feeding week from August 1-7. During the week, lectures and demonstrations were held in different villages of Hisar district. Rural women were made aware of benefits of breast feeding, importance of diet of lactating women and proper methods to breast feed and weaning. Besides, HDFS

Department also organised a lecture on Importance of Breast Feeding in Ludas village on August 3.

- Department of Textile & Apparel Designing (TAD) organised a brainstorming session on August 28. It was chaired by Dr. A. Padma, Professor and Head, Department of Apparel and Textiles, College of Home Science, PJTSAU, Hyderabad. During the session, recent developments in non-conventional fibres and their applications were discussed by faculty, PG and professional elective students.
- Lectures were organised for rural women on August 28. Dr. Rajesh Dahiya delivered lecture on crop residue management for sustainable development. Several trainings, demonstrations, campaigns and competitions were organised for school girls and rural women. Dr. Kanta Sabharwal told the women about personal and environmental hygiene and emphasized on household as well as community cleanliness through water and waste management. A lecture on climate resilient practices with respect to water and energy saving was also delivered.
- HDFS Department organised lectures on Infant and Child Care and



Nutrition for Mother and Child at village Tokas on September 7. Dr. Meenakshi, CCSHAU Campus Hospital, delivered a lecture on Antenatal Care and Breast feeding.

- The AICRP team of HDFS Department held Swachhta Rally at

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village Mangali on September 13. After the rally, a lecture on Importance of Cleanliness was also delivered. Likewise, a lecture on How to Maintain Household Hygiene was also held at village Gangwa on September 15. Besides, under *Swachhta Hi Sewa* campaign various activities were organised in Ganwa, Tokas, Ludas and Mangali villages adopted under AICRP, from September 15-October 2.

- Department of Family Resource Management celebrated Teachers Day on September 5 and Hindi Diwas on September 21.
- AICRP team of HDFS Department held a function at Mangali village to celebrate the National Nutrition Month and *Swachhta Hi Sewa* campaign on September 21. Dr. S.K. Sehrawat, Director of Research, was the Chief Guest on the occasion.
- A poster competition on Good Nutrition and Health was organised by HDFS Department in Govt. Girls Middle School, Gawar, on September 29.

Dean Postgraduate Studies

- The admissions to Masters and Doctoral programmes in different disciplines in College of Agriculture, College of Basic Sciences and Humanities, College of Home Science and College of Agriculture Engineering and Technology were done during July-September, 2018. In all, 230 and 106 students were admitted in M.Sc./M.Tech and Ph.D. programmes, respectively.
- As many as 526 M.Sc. and 433 Ph.D. students were on rolls during 1st Semester 2018-19. During the period July-September, 2018, 85 M.Sc. students and 22 Ph.D. students completed their degree.
- Admissions to different Postgraduate Diploma courses were also carried out. Five students have been

admitted in Diploma Course in English Hindi Translation and six students in Communication Skill in English offered in College of Basic Sciences and Humanities. Ten students have been admitted in Remote Sensing & Geographical Information System offered by College of Agriculture.

- Ms. Anuradha, Ph.D. student, Department of Horticulture and Ms. Seema Dahiya, Ph.D. student, Department of Agronomy, attended Food and Security Summer Institute at Telaviv University, Israel, from June 27-July 20.
- Ms. Pooja Sangwan, Ph.D. student, Department of Plant Pathology attended International Congress of Plant Pathology held at Boston Massachusetts (USA), from July 20-August 3.
- Ms. Annie Khanna, Ph.D. student, Department of Plant Pathology attended World Congress of Plant Pathology and Plant Biotech held at Dallas (USA), from September 24-25.

Directorate of Human Resource Management

- A Refresher Course on Educational Technology was organised by the Directorate of Human Resource



Management from July 21-August 10. A total of 21 faculty members from the streams of Agriculture, Home Science, Engineering, Management and Veterinary Science participated in this course. The participants were sensitized about latest issues and trends in education management. The objective of this course was to develop competence in curriculum design and development,

planning of agricultural education and develop competency in the use of audio visual aids. Dr. K.S. Grewal, Dean, College of Agriculture who chaired the valedictory function of the course, distributed the certificates to the participants.

- Prof. K.P. Singh, Vice-Chancellor, visited Prague, Czech Republic and signed a MoU with Czech University of Life Sciences for cooperation in Agricultural Research and Education, on September 7.
- Due to the initiatives taken by the IPR & BPD Cell of the Directorate to make the stakeholders aware about the prospective technologies of the University, two new companies were enrolled as members of this Cell.

Directorate of Students' Welfare

- Students Counselling & Placement Cell in the Directorate of Students' Welfare, organised following professional and skill development training programmes for University



students during July-September, 2018. They were given certificate on successful completion of training programmes: Post Harvest Handling of Horticultural Produce (August 28-September 10), Life Skills – Facet to Lead a Dynamic Life (September 10-22) and Awareness and Use of Library Resources and Services in Digital Era (September 15-26).

- Students Counselling & Placement Cell organised following motivational lectures and career counselling sessions: Durga Mob. App for Girl

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Students by Haryana of Police, Hisar (August 13); Present Status in Crop Protection and Future Challenges in Indian Agriculture by Dr. Rajeshkhar Sakhalkar, Head, Bayer Crop Science Product Development and New Innovation in Plant Protection by Dr. Rahul Edoliya, Head, Innovation, PI. India (August 20); Robotics & Automation in Agriculture by Mr. Anurag and Mr. Vikas, Faculty in Robospecies, Noida (August 28); Ill Effects of Over Population by Mr. Manu Gaur, President, TAXAB (September 18); Avenues in SKF for Engineers and Management Graduates by Ms. Jaya Arora, Channel Development Manager (September 15); Expectations of Corporate Sector from Budding Engineers by Mr. Ankur Bali, Product Manager-Escorts (September 15); Skill Development in English Speaking at COA, Kaul by Dr. (Mrs.) Veenita, Assoc. Prof., CISKMU, Dhand, Kaithal (September 29) and Parenting & Education by Dr. Devender Balhara, Director Expanding Horizons (September 29).

- On the occasion of NSS day, one-day cleanliness campaign was organised. The Dean, COHS led this

campaign. While addressing the teachers and the students, she appealed everyone to become a part of this campaign and contribute their bit to make the drive a big success.

- A total of 97 students of the University enrolled and successfully completed the Swachh Bharat Summer Internship (SBSI)-100 Hours of Swachhata under the guidance of Dr. Satpal, Nodal Officer SBSI-2018 from May 1- July 31. These students created awareness in different villages, viz. Kirtan, Ludas, Chandan Nagar etc.

- Mr. R.S. Dagar, B.Sc. student, participated in shooting competition on behalf of 5 Har BN Hisar and Mr. Parteek, B.Sc. student, was selected for participating in the camps for promoting the cadets in Pre RD and RD parades.

- Besides the regular activities, following competitions were organised to inculcate the feelings for special occasions among the students: Mehendi competition on the occasion of Teej Festival (August 10), Patriotic song competition on the occasion of Independence Day (August 14),

Sadbhavana Pledge (August 20) and Poem recitation competition (August 20).

Registrar Office

- In B.Sc. (Hons.) Ag. 6 Year (2+4) Programme, 5296 and in PG Basic Sciences (Medical-382, Non-Medical-102 and Sociology-338), PG Agricultural Engineering-18 and Ph.D.-373 candidates appeared in the Entrance Test-II held on July 1. During July 1-September 30; 333 students were admitted through counselling on the basis of entrance test and qualifying examination in various UG programmes. Total 1437 students are on rolls in UG programme. Result notification of 2nd semester 2017-18 of all UG classes was issued along with final result notification of students who have completed the UG degrees.

Comptroller Office

- About 60 GPF and 8 CPF (Final Payments) and 185 GPF and CPF (Loan Advances) were cleared during July-September, 2018. As many as 40 employees retired during the above period. They were honoured by the Vice-Chancellor, Prof. K.P. Singh.

Retirements

The following faculty and staff members of the University retired on attaining the age of superannuation during July-September, 2018:

Retirements on 31st July, 2018

S. No.	Name	Designation	Department
1	Dr. Sudesh Gandhi	Principal Scientist	Family Resource Management Department
2	Dr. Rita Goel	Professor	Extension Edu. & Comm. Management Department
3	Dr. V.P. Singh	Principal Extension Specialist	Krishi Vigyan Kendra, Mohindergarh
4	Dr. Sudesh Jood	Professor	Foods & Nutrition Department
5	Mr. D.K. Bhandari	Deputy Public Relations Officer	Vice-Chancellor Secretariat
6	Mr. Mohinder Singh	Driver	Dean, College of Home Science
7	Mr. Dharam Singh	Water Pump Operator	XEN (PH)

S. No.	Name	Designation	Department
8	Mr. Dharam Pal	Beldar	Chemistry & Biochemistry Department
9	Mrs. Krishna Devi	Attendant	Directorate of Students' Welfare
10	Mrs. Sushma Datta	School Lecturer	Campus School
11	Mr. Keshav Ram	Plant Observer	Forage Section
12	Mr. Dhup Singh	Mechanic	College of Agricultural Engineering & Technology
13	Mr. Ved Parkash	Jeep Driver	Entomology Department
14	Mr. Jeet Singh	Beldar	Forestry Department
15	Mrs. Veena Kumari	Senior Scale Stenographer	Associate Director Training
16	Mr. Arjun Singh	Agriculture Inspector	Agricultural Economics Department
17	Mr. Naresh Kumar Madan	Superintendent	Genetics & Plant Breeding Department
18	Mrs. Sunita Singh	Teacher	Human Development & Family Studies Department

Retirements on 31st August, 2018

19	Dr. A.P. Kaur	Principal Extension Specialist	Krishi Vigyan Kendra, Bhiwani
20	Dr. Virender Singh	Senior Technical Assistant	Vegetable Science Department
21	Mr. S.S. Taneja	Private Secretary	Registrar Office
22	Mr. A.R. Saini	Executive Engineer	XEN (C-I)
23	Mr. Dharam Pal	Assistant	Horticulture Department
24	Mr. Sant Lal	Assistant	Nematology Department
25	Mr. Ram Niwas	Plumber	XEN (PH)
26	Mr. Lal Chand	Black Smith	XEN (C-I)
27	Mr. Khazan Singh	Helper	XEN (C-II)
28	Mr. Ved Ram Singh	Beldar	Director Farms
29	Mr. Darwan Singh	Cook	Associate Director Training
30	Mr. Rajender	Messenger	Directorate of Extension Education

Retirements on 30th September, 2018

31	Dr. R.K. Grover	Associate Director	Directorate of Human Resource Management
32	Dr. Sneh Goyal	Professor	Microbiology Department
33	Dr. Suneel Sharma	Principal Scientist	Horticulture Department
34	Dr. Surjeet Singh	Principal Scientist	Plant Pathology Department
35	Mr. Phool Kumar	Assistant	Associate Director Training
36	Mrs. Kamlesh Sachdeva	Steno-Typist	Dean, College of Home Science
37	Mrs. Kamla Devi	Mahila Sevika	Krishi Vigyan Kendra, Sirsa
38	Mr. Mohender Singh	Plumber	XEN (PH)
39	Mr. Hawa Singh	Sub-Inspector	Security Office
40	Mr. Sohan Singh	Beldar	Seed Science Technology Department



Chaudhary Charan Singh Haryana Agricultural University

From Vice-Chancellor's Desk

Education is one of the most important investments a country can make in its people as education is fundamental to growth & development of any society but unfortunately today agricultural education system acts as a root for a rat race where millions of students compete with each other working tirelessly seeking white collar jobs. Education should be meant to open doors of opportunity to discover, learn new things & pursue self employment. There is a dire need for revolutionary changes in the system. In an effort to reorient agricultural education for employability, Indian Council of Agricultural Research (ICAR) developed and launched a programme named Experiential Learning Programme (ELP) to facilitate learning through experience for professional development and equipping the students with entrepreneurial skills. The programme is mandatory for undergraduate students and offered during the final year of the degree programme. Through the programme it was envisaged that basic knowledge and conceptual aspects would be integrated with hands-on training and practice in a real life work environment, leading to more confident, and competent graduates to meet the needs of private sector and self-employment.



CCS Haryana Agricultural University introduced Experiential Learning Programme in 2006 with a grant assistance of Rs. 141 lakh from ICAR on Hi- tech Agriculture, Food processing, Tissue culture and production of Bio-fertilizers. In 2008-09, ELP on designing information material was sanctioned with an assistance of Rs. 88.00 lakh and two more projects on food processing and Home furnishing were received in 2013-14 with an assistance of Rs. 125.75 lakh from ICAR. Thus a total of seven ELP projects with a grant of Rs. 341.75 lakh were sanctioned from ICAR. In addition to these, six more projects on Peri-Urban Agriculture, Agri Business, Digital Agriculture, Centre for Agro Processing & Engineering Services (CAPES), HAU e-Mart and Fisheries were started by the University with State funds with the aim to provide hands on trainings to students and help them to develop competence, capability, capacity building, acquiring skills, expertise and confidence to start their own enterprise and turn "Job Creators instead of Job Seekers". Alongside the programme, a curriculum was also developed to instill entrepreneurial knowledge, attitudes, skills and culture among agricultural undergraduates. Till today, a total of 250 students have been trained for setting up of production unit right from procurement of items to preparation, packaging, storage and sale of products under Experiential Learning Programme.

ELP provides the students an excellent opportunity to practise what they have learnt, see the application of theoretical concepts in practice and process that application. It also helps to develop analytical and entrepreneurial skills and knowledge through meaningful hands on experience, confidence in their ability to design and execute project work which leads to development of skills for lifelong learning encouraging them to reflect, conceptualize & plan for next step. CCS HAU took a lead in starting HAU e-MART which was launched on February 2, 2019 on global level. It has received a very good response not only from the local area but also from far off places. The products prepared by different units are sold online on this site. This experiential learning facility is also being utilized for demonstration purposes to progressive farmers participating in various trainings organized by the university and state department, UG students, participants of various trainings and for research by post-graduate students of the University.

Prof. K.P. Singh

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Krishi Mela on the Theme: Crop Residue Management Attracts 60 K Farmers



A two-day Krishi Mela-Rabi on the theme: 'Promotion of Agricultural Mechanization for *In Situ* Management of Crop Residue' was organised from October 4-5. Over 60 thousand farmers from Haryana and neighbouring states attended the Krishi Mela which was inaugurated by Dr. Trilochan Mohapatra, DG, ICAR, New Delhi. Dr. J.K. Jena, DDG, ICAR, was the Guest of Honour on the occasion and Prof. K.P. Singh, Vice-Chancellor presided over the function.

While addressing the farmers, Dr. Mohapatra expressed concern over the pollution caused due to burning of paddy straw and other crop residues by the farmers and stressed on their proper management. "Crop residues if ploughed in the soil will not only save the environment but it will also improve fertility and quality of soil", he said. He also called for bringing diversification in agriculture to double the income of the farmers. He said that the Central Government, ICAR and SAUs have jointly initiated efforts in this direction.

The Vice-Chancellor, Prof. K.P. Singh, in his presidential address said that rapport between farmers and agricultural scientists is very important for the development of agriculture. He also emphasized on management of crop residue by the farmers. The Guest of Honour, Dr. J.K. Jena, said that fish and shrimp farming can prove very fruitful in increasing income of the farmers. Earlier, Dr. R.S. Hudda, Director Extension Education, welcomed the dignitaries and the farmers.

Farm Machinery Flagged Off

On this occasion, Dr. Mohapatra flagged off the machinery for management of crop residues and released a pamphlet and booklet on *In-situ* Management of Paddy Straw through Farm Machinery published by Farm Machinery & Power Engineering Department of the University.

Highlights

During the Mela, farmers purchased certified seeds of various rabi crops,

vegetables and fruit saplings worth Rs. 1.30 crore. University publications to the tune of Rs. sixty thousand were also sold in the Mela. Besides, an Agro-Industrial Exhibition, Scientists-Farmers Meets (Buzz Sessions), live/dummy demonstration on innovative farm technologies, soil & water sample testing and crop competition were other highlights of the Krishi Mela. As many as 19 progressive farmers from different districts of Haryana were also honoured on the occasion in recognition of their significant achievements in agriculture.

Seed Bank Inaugurated

Dr. Mohapatra also inaugurated Modern Indigenous Seed Bank at the University on this occasion. This Seed Bank has been set up with the financial support from Education Division of ICAR, New Delhi and is useful for medium term storage of germplasm and other precious material of field crops, vegetables and horticultural crops species.



'Incorporate New Knowledge in Agriculture' : Prof. K.P. Singh



The Vice-Chancellor, Prof. K.P. Singh called upon the agricultural scientists and officers of the State Agriculture and Farmers Welfare Department to move forward with new thinking for the development of agriculture.

Inaugurating the two-day Agricultural Officers' Workshop organised by Directorate of Extension Education of the University on December 22, he said that in order to make agriculture profitable, apart from focusing on agricultural production, there is a need to incorporate new knowledge in agriculture and developing trained human force. CCS Haryana

Agricultural University has taken initiative in this direction and in order to provide guidance, training, technology and infrastructure to youth, farmers and entrepreneurs, it has started an Agri Business Incubation Centre with the financial support of NABARD and soon a College of Agripreneurship and Business Management will also be set up in the national capital region. Besides, to popularize organic farming and to encourage students for agribusiness, Deendayal Upadhyay Centre of Excellence for Organic Farming and a Agritourism Centre have been established in the University. He said that

work in the new areas of science like artificial intelligence, robotics and nanotechnology has also been initiated. In addition to this, the University has taken up a project to provide disease and nematode resistant grafted plants of vegetables to the farmers.

On this occasion, Dr. Suresh Gehlawat, Additional Director, Department of Agriculture and Farmers Welfare highlighted the production targets set for the upcoming rabi season crops by the state government. He said that preparations have been made to supply seeds and fertilizers to the farmers on time.

Dr. R.S. Hudda, Director Extension Education presented the report of extension activities organised in the state to increase the yield of crops as well as income of the farmers, while Dr. K.S. Grewal, Director of Research (Additional charge) apprised the house about significant research achievements of the University made during last year.

Diagnostic Technique to Identify Sex of Date Palm Plants Granted Patent

The University has been granted patent by the Patent Office, Govt. of India, on a diagnostic technique (polymerase chain reaction) developed to identify sex of date palm plants at the nursery stage.

This diagnostic technique has been developed by Prof. Pushpa Kharb, presently Head, Department of Molecular Biology, Biotechnology & Bioinformatics of the University under a project sponsored by Department of Science and Technology, Govt. of India. Her Ph.D. student, Charu Mitra, also worked in this project.

This is the first technique of its kind developed to identify the sex of date palm plants. It may be mentioned that the ratio of male and female plants of date palm, which emerge from seeds, is almost equal. The identification of sex at seedling stage would help the date palm growers world over to remove the unwanted male plants.

This is the 16th patent granted to the University, whereas a total of 43 applications for patents of different technologies have been filed with the Patent Office.

Institution Innovation Council Established

Ministry of Human Resource Development (MHRD), Govt. of India, has awarded certificate to the University for the establishment of Institution Innovation Cell (IIC) as per the norms of MHRD's Innovation Cell (MIC) to systematically foster the culture of innovation amongst all Higher Education Institutions across India. The primary mandate of this Institution Innovation Council is to encourage, inspire and nurture young students by supporting them to work with new ideas while they are in formative years.

Dr. Seema Rani, President of the Institution Innovation Cell added that the IIC will routinely interact with MIC and will have the opportunity to participate in various innovation initiatives and Atal Ranking of Institutions on Innovation Achievements (ARIIA) by Govt. of India.

Seminar on Intellectual Property Rights



A one-day seminar on Intellectual Property Rights- a Mechanism for Social Economic Growth was organised by IPR & BPD Cell of Directorate of Human Resource Management in

collaboration with DST, Panchkula, Haryana on November 22. About 135 students and faculty members of the University participated in this seminar.

This seminar was chaired by Prof. K.P. Singh, Vice-Chancellor. Speaking on the occasion, he said that protection of IPR leads to academic and socio-economic growth of the country as a whole, in general, and of institution in particular. In the era of commercialization, it can be a source of income to the farmers too.

Resource persons from different organisations including Patent Information Centre, DST, Panchkula and TIFAC, New Delhi delivered lectures on IPR.

On this occasion, the innovators of the University whose technologies have been patented, were also felicitated.

CCSHAU to Develop Sports Infrastructure in PPP Mode



CCSHAU and JSW Sports will jointly operate and develop infrastructure at the Giri Centre of the University for students' welfare and activities. They have signed an agreement in this regard on December 25. Dr. D.S. Dahiya, Director Students' Welfare and Mr. Parth Jindal, Director, JSW Sports signed the MoU in presence of the Vice-Chancellor, Prof. K.P. Singh.

Under the agreement, JSW Sports will fund the renovation and refurbishment of the boxing and wrestling halls and the gymnasium

among other sporting facilities at the Giri Centre. Welcoming this partnership with JSW Sports, the Vice-Chancellor said that having been home to several national and international sports stars of India like Saina Nehwal,

Vijender Singh, Savita Malik, Poonam, Jaibhagwan, Manoj Kumar, Sweetie Boora, Geetika Jakhar and Pooja Dhanda in the past, this partnership will provide a boost to our efforts to further develop talent from the region.

"The Giri Centre at CCSHAU is one of the most renowned sporting institutes in the region. This institute will serve as a feeder centre to our high performance training institute - Inspire Institute of Sports (IIS)", said Mr. Parth Jindal.

Rashtriya Ekta Diwas Celebrated



The birth anniversary of Bharat Ratana Sardar Vallabhbhai Patel was observed as Rashtriya Ekta Diwas on October 31.

The celebrations began with Run for Unity that was flagged off by the Vice-Chancellor, Prof. K.P. Singh. He along with officers of the University also participated in the Run which passed through various localities of the city spreading the message of unity of the country.

On this occasion, a declamation contest and a special cleanliness drive were held in the College of Agriculture of the University. An oath of unity was also administered by Deans, Directors and Officers to the staff of their respective colleges, directorates and offices.

Birth Anniversary of Ch. Charan Singh Celebrated as Kisan Diwas



The birth anniversary of former Prime Minister, Ch. Charan Singh was celebrated as Kisan Diwas in the University on December 23. Nearly two thousand farmers and farm women across the state participated in the programme.

Dr. Kamal Gupta, Chairman, Haryana Bureau of Public Enterprises was the Chief Guest on the occasion, while Prof. K.P. Singh, Vice-Chancellor, presided over the function. Dr. P.C. Sharma, Director, Central Soil Salinity Research Centre, Karnal, Dr. S.S. Dahiya, Director, Central Institute for Research on Buffaloes, Hisar and Dr. B.N. Tripathi, Director, National Research Centre on Equines, Hisar were the Guests of Honour on the occasion.

Addressing the farmers, Dr. Gupta urged them to do farming on modern lines to double their income. He said that as far as agriculture technology is concerned, the CCSHAU has done a commendable work by developing innovative technology for different agro-climatic regions of the state to benefit the farmers. Paying tributes to Ch. Charan Singh, he said that like this legendary leader, the Haryana Government is devoted to the cause of the farming community and has launched several innovative schemes for its welfare. He released a book on Weed Management in

Major Crops authored by Dr. Samunder Singh and Dr. Satbir Singh Poonia of Department of Agronomy of the University.

The Vice-Chancellor, Prof. K.P. Singh in his presidential address commended the people of Haryana by saying that whether it is the country's defence or the food security, these people are always ahead. He said that this University is constantly working for the progress of the farmers. Apart from developing improved crop varieties and other agriculture technologies to make the farmers get high crop yields several initiatives including establishment of Agro Tourism Centre, Agri Business Incubation Centre and Pt. Deendayal Upadhyaya Centre of Excellence for Organic Farming have been made to provide guidance, training, technology and infrastructure to unemployed youth, farmers and entrepreneurs for multi-enterprise and start-up in different areas of agriculture. He said sales counters are also being set up at different KVKs of the University to help farmers as well as farm women to sell their products.

Dr. P.C. Sharma urged the farmers to use appropriate techniques to save water whereas Dr. B.N. Tripathi asked them to adopt such models in agriculture that are

able to provide food security as well as good returns to be farmers. Likewise, Dr. S.S. Dahiya said that farmers of Haryana are lucky as despite being a small state there are largest number of agriculture and veterinary research institutes in the state. The farmers should take advantage of these institutes. Earlier, Dr. R.S. Hudda, Director Extension Education welcomed the guests and the farmers.

Farmers Honoured

The progressive farmers and farm women from different districts of the state who have made significant achievements in agriculture and allied fields were honoured on the occasion.

Floral Tributes

Led by the Vice-Chancellor, Prof. K.P.



Singh, officers, faculty, staff and students of the University offered flowers at the bust of the late leader Ch. Charan Singh in the morning.



Recognize Contributions of Women in Agriculture : VC



On the occasion of Women in Agriculture Day, the Department of Extension Education and Communication Management organised a workshop for women farmers on December 4. About 650 women farmers and 26 women group entrepreneurs from Ambala, Faridabad, Fatehabad, Jhajjar, Jind, Kurukshetra, Mahendergarh, Mewat, Palwal, Rewari, Rohtak, Sonapat, Sirsa and Yamunanagar districts of the state participated in the workshop.

Prof. K.P. Singh, Vice-Chancellor, inaugurated the workshop. Addressing the participants, he said that as women are the major contributor in various agricultural activities, it is important to recognize their contributions, make the

society and stakeholders aware about their contributions and honour the enterprising women farmers. He also emphasized the need and importance of entrepreneurship in agriculture and honoured the women entrepreneurs.

Dr. Bimla Dhanda, Dean, College of Home Science in her welcome address, highlighted the importance of Women in Agriculture Day. She said that Indian Council of Agricultural Research has decided to celebrate Women in Agriculture Day every year on December 4 for recognizing the role and contributions of women in agriculture. Dr. Beena Yadav, Organizing Secretary, proposed the vote of thanks. The queries related to home science, agriculture, animal husbandry,

financial schemes, entrepreneurship etc. raised by the participants were answered by the concerned technical experts.

A technical session was held on the occasion which was chaired by Dr. Sanjesh Singh, first lady of the campus. She took round of the exhibition put up on the occasion and interacted with the women entrepreneurs. The exhibition showcased the products of women entrepreneurs; activities of NGOs working for farmers and activities/ technologies of various departments of CCSHAU including Extension Education and Communication Management, Family Resource Management, Foods and Nutrition, Human Development and Family Studies, Textile and Apparel Designing, Food Science and Technology, Plant Pathology, Processing and Food Engineering, Renewable and Bio-energy Engineering and planting material prepared by students of College of Agriculture under Experiential Learning. A cultural programme was also staged on the occasion in which rural women and students of College of Home Science participated.

Workshop on Career Opportunities



The Vice-Chancellor, Prof. K.P. Singh said that the students should acquire knowledge and sharpen their skills and start their own venture rather than running after the job. He said that only average students seek job whereas extraordinary students become

job providers.

Prof. Singh was speaking as the Chief Guest at the inauguration of a two-day

Workshop on Career Opportunities: Fellowships, Scholarships, Awards organised by Students' Centre for Career Excellence of the University on October 16. Describing this workshop as important and extremely relevant, he

hoped that it would help the students to successfully compete for careers in agriculture and related fields.

Presiding over, Director Students' Welfare, Dr. D.S. Dahiya said that the students must attend this type of trainings and workshops to improve their competence.

Earlier, Dr. R.K. Nanwal, In-charge of the Centre, welcomed the participants and highlighted the objective of the workshop. More than 350 students of the University participated in this workshop.

Chrysanthemum Flower Show



A two-day Chrysanthemum Flower Show & Competitions was organised in the Botanical Garden by the Department of Botany & Plant Physiology in collaboration with Landscape Unit and RDS Seed Farm under the auspices of the College of Basic Sciences & Humanities of the University from December 23-24.

It was inaugurated by Dr. Kamal Gupta, MLA, Hisar and Chairman, Haryana Bureau of Public Enterprises. The Vice-Chancellor, Prof. K.P. Singh accompanied him. Dr. Gupta was very

impressed with the blooming chrysanthemums and the evergreen indoor plants, cacti, succulents and bonsai displayed in the exhibition.

In this mega

event, 40 chrysanthemum varieties were exhibited by the Botanical Garden. Apart from this, on-the-spot drawing and painting competition, rangoli competition,

mehandi rachao contest and declamation contest for school and college students were also organised on the occasion. The winners were

given away prizes by Dr. Rajvir Singh, Dean, COBS&H and Dr. Neeraj Kumar, ADR. The stalls put up by various departments of the University i.e. Department of Microbiology, Plant Pathology, Food & Nutrition, Centre of Food Science & Technology, Banks including SBI, HAU Branch, Sarva Haryana Gramin Bank and private concerns like Modern Automobiles, Hisar added attraction to the show. The host department earned Rs. 65 thousand from sale of potted chrysanthemums on the occasion.



Honour

NAVS Fellowship to Dr. Sharma



The National Academy of Veterinary Sciences (India) conferred Fellowship on Dr. R.K. Sharma, former Professor

and Head, Department of Extension Education of the University in its 17th Convocation held at Odisha University of Agriculture & Technology, Bhubaneswar on December 19. He was admitted as Fellow of the Academy in recognition of his outstanding achievements in teaching, research, field extension and training.

Dr. Sharma has significantly contributed to the establishment of Krishi Gyan Kendras (KGKs) at district

headquarters in Haryana which are known to have contributed significantly in ushering green and white revolutions in the State. He also developed Veterinary Extension Programme for the University which brought livestock keepers, field veterinarians and veterinary scientists of the University on a common platform. Also a recipient of Visionary Veterinarian Award from Natural Remedies India, Dr. Sharma has to his credit as many as 80 research papers published in national and international journals. The development of scale for measurement of constraints in cattle development and crop production has been his unique contribution.

Dr. Dhankar Nominated to WMO

Prof. Surender S. Dhankar, Principal Scientist, Department of

Agricultural Meteorology, has been nominated as expert member of Switzerland based World Meteorological Organization's



(WMO) Commission on Agricultural Meteorology (CAgM) for four years. Dr. Dhankar will represent the region including India, China, Japan, Russia and other Asian countries in the Commission. As per communiqué received in this regard from WMO Headquarter, Geneva, Prof. Dhankar will participate and contribute for drought monitoring systems, outlooks, impacts, assessment of possible agricultural losses and preparedness in the WMO regions under broader theme of agrometeorological risk management.

Dr. B.R. Ambedkar Remembered on Samvidhan Diwas



of an independent country in the world which is not typeset but handwritten and calligraphed in both English and Hindi. Its original copies are kept in special helium-filled cases in the Library of the Parliament of India. He said that the Indian Constitution stood the test of the time as India has been a successful democracy unlike many other countries

To spread the importance of the Constitution of India and thoughts and ideas of its architecture, Dr. Bhim Rao Ambedkar, Samvidhan Diwas was celebrated on November 26. In the function organised on the occasion, Dr. Ramesh Chandra, former Vice-Chancellor, Bundelkhand University, Jhansi was the key speaker and CCSHAU Vice-Chancellor, Prof. K.P. Singh presided over. Dr. R.B. Chowdhary from Ministry of AYUSH, Govt. of India, was the Guest of Honour.

Speaking on the occasion, Dr. Ramesh Chandra said that Dr. B.R. Ambedkar was not an individual but an

institution. He was a social reformer, politician and jurist. Due to caste discrimination, he had to face a lot of discrimination in the society from time to time. He believed that the gap between different classes was important to equalize to maintain the unity of the country that's why he emphasized on religious, gender and caste equality. He introduced the reservation system to create a social balance amongst the classes.

Recalling contributions of Dr. B.R. Ambedkar, Prof. K.P. Singh said that drafting Constitution of India is one of them. This is longest written constitution

who had become independent in the same time.

Dr. R.B. Chowdhary said that India is an agrarian country. By giving place to agriculture in the Constitution, Dr. Ambedkar has done a commendable work.

Dr. Rajbir Singh, Dean, College of Basic Sciences & Humanities and Dr. Balwan Singh, University Librarian and Incharge, Dr. Ambedkar Chair threw light on the life of Dr. B.R. Ambedkar.

On this occasion, the Vice-Chancellor presented a shawl and memento to Dr. Ramesh Chandra as mark of honour.

News From Krishi Vigyan Kendra

SAC Meeting

Krishi Vigyan Kendra, Fatehabad organised 20th SAC meeting on October 31. Prof. K.P. Singh, Vice-Chancellor chaired the meeting.

In the beginning, Dr. Sardul Singh Mann, Coordinator, KVK Fatehabad presented the action taken report of the previous 19th SAC meeting and the progress report of 2017-18. He presented the salient findings and achievements of KVK particularly of

various On Farm Trials, Front Line Demonstrations and different training, extension activities conducted during August 2017 to September 2018. He also highlighted the annual action plan of the KVK for the year 2018-19.

The Vice-Chancellor appreciated the work of the KVK Fatehabad and advised the scientists to conduct more demonstrations and OFT's of the latest crop varieties and technologies developed by the University.

Er. C.P. Ahuja, Member, BOM of the University said that efforts of the scientists should be to produce more at less cost. Dr. R.S. Hudda, DEE urged the farmers to adopt new techniques advocated by the University scientists for conserving the natural resources and boosting productivity of different crops. Progressive farmers who attended this meeting also expressed their views and expectations from the KVK.

News From Regional Research Station

NGT Team Visits RRS

A high powered team of the Hon'ble NGT on crop residue burning visited the RRS, Uchani, Karnal.

The NGT team comprised Dr. Nagresh Singh Chairman, Head Poverty, Ministry of Rural Development, Dr. Ashwini Kumar, Joint Secretary

(Agriculture), Gol, Dr. Arvind Mishra, Deputy Commissioner, Ministry of Agriculture, Gol and Dr. Rajbir Singh Chahal, Joint Director (Agricultural Engineering), Haryana. Dr. Manmohan Kalia, Nodal Officer-cum-Joint Director (Agricultural Engineering), Punjab, Er. Vinit Marwaha, Dr. Sunil Kumar, SDAO

and Dr. Aditya Dabas, DDA, Karnal also accompanied the NGT team.

On this occasion, Dr. Dharam Bir Yadav and Dr. Vijay Kumar showed and explained experiments on crop residue management in rice and sugarcane crops which were appreciated by the visiting team.

Participation in Conferences/Workshops/Trainings

- Dr. Dharam Bir Yadav and his student got Best Poster Award (1st) for their paper : Residue management in no-till and raised beds influences the weed dynamics and productivity of kharif maize (*Zea mays* L.) in the ISWS Golden Jubilee International Conference held at Jabalpur from November 21-24. In this conference, Dr. Ankur Chaudhary was presented the Best Poster Award (2nd) for his paper : ALS/AHAS (group B/2) inhibitors resistance in *Rumex dentatus* L. and *Chenopodium album* L. halting future wheat productivity of Haryana and Punjab.

- Dr. O.P. Chaudhary and his student got Best Oral Presentation Award for their research work on Protein and calorific value estimates of diverse pollen pellets from *Apis mellifera* L. colonies under Haryana conditions, in the Indian Science Congress held at GBPUAT, Pantnagar, from October 13-14.

- Dr. Omender Sangwan, Cotton Section, attended and gave presentation in National Congress on Climate Smart Agricultural Technologies: Innovations and Interventions held at College of Agriculture and Post-Harvest Engineering Technology, Ranipool, Sikkim, from November 15-17.

- Dr. S.K. Pahuja, Controller of Examinations, attended National Workshop on Examination Reforms in Higher Education held at Integral University, Lucknow, from October 8-10.

- Dr. Manju Singh Tonk participated in Advanced Workshop on IPR Management organised by patent facilitating centre,

TIFAC, Department of Science & Technology, Gol, in collaboration with DRDO at NASC Complex, New Delhi, from December 5-7.

- Dr. Dalip Kumar Bishnoi and Neeraj Panwar, Agricultural Economics Department, attended one-day Workshop on Development & Institutionalization of Capacity for Forecasting of Prices of Agricultural Commodities in New Delhi on December 27. Dr. Dalip Kumar Bishnoi also attended Socio-economic Impact Assessment of Research Programmes held at NAARAM, Hyderabad under Farmer's First Programme from October 25-27.

- Drs. D.P. Malik, K.K. Kundu, Dalip Kumar Bishnoi and J.K. Bhatia Agricultural Economics Department, attended WUMN (World Union of Wholesale Market) Conference at Gurugram from October 10-12.

- Drs. D.P. Malik and K.K. Kundu, Agricultural Economics Department attended 100 Agri-Meet 2018 held in Chandigarh on December 10.

- Dr. Ram Niwas, Professor, Dr. M.L. Khichar, Professor and Dr. C.S. Dagar, Assistant Scientist, Agricultural Meteorology Department, attended 12th Annual Review Meeting of Gramin Krishi Mausam Sewa (GKMS) and FASAL Project at ANGRAU Regional Agricultural Research Station, Tirupati, Andhra Pradesh, from December 3-6.

- Drs. C.S. Dagar and Anil Kumar,

Assistant Scientists, Agricultural Meteorology Department attended XV Biennial Workshop-AICRP on Agrometeorology at UAS, Dharwad, Karnataka, from November 15-17.

- Dr. Pummy Kumari, Assistant Scientist, Forage Section, attended 4th International Plant Physiology Congress at NBRI, Lucknow, from December 2-5 and presented a poster on Identification of combining ability patterns for forage sorghum hybrid breeding in Western Haryana. She also attended First National Genetics Congress on Genetics for Sustainable Food, Health and Nutrition Security from December 14-16 and presented a poster on Genetic divergence studies in forage sorghum genotypes.

- Dr. Satpal, Assistant Agronomist, Forage Section, attended XXI Biennial National Symposium of Indian Society of Agronomy on Doubling Farmers' Income Through Agronomic Interventions Under Changing Scenario from October 24-26. He also made a poster presentation on the topic: Response of multi-cut forage sorghum genotypes to different fertilizer levels.

- Drs. Dalvinder Pal Singh, Satyawar Arya and Satpal, Forage Section, attended Annual Group Meet on Arid Legumes (Guar, Mothbean and Cowpea) for spring, summer and rice fallow cultivation held at ICAR Research Complex for NEH Region, Tripura Centre, Agartala (Tripura), from November 24-25.

News Briefs

College of Agricultural Engineering & Technology

- A brain storming session on Research Opportunities in Drone



Technology for Enhancing Efficiency of Agricultural Production System was organised in collaboration with industry on December 6. Mr. Shashank Tandon, Co-Founder, Agrotech Solutions (Kisan Ki Udaan) gave a presentation on drone technology on the occasion. Dean, College of Agricultural Engineering & Technology, HODs of various departments and faculty members took part in the session and discussed about the application of drone technology in various sectors of agriculture. This session was coordinated by Dr. Ravi Gupta.

- Dr. Alex E. Winter-Nelson, Director, Office of International Programme, Dr. Vijay Singh and Dr. Raunch D. Kent, University of Illinois, USA, visited the College on November 30 to identify the common research areas to make Thematic Faculty Group.
- A two-day training was imparted to the students of Soil Testing and Crop Tech Trade from Government Industrial Training Institute, Hisar, from December 11-12. In this training, the students were given theoretical and practical knowledge about the working of tractor and its different systems, machinery used in agriculture and their maintenance.
- Faculty members of Department of Farm Machinery & Power Engineering delivered expert lectures on paddy straw management machinery in farmers'

training programmes conducted by KVKs and Department of Agriculture & Farmers Welfare, Haryana. They also gave demonstrations of this machinery in different districts of the state.

- Dr. Sanjay Kumar delivered a lecture on Application of Micro Irrigation in Forestry in one-day Workshop on Application of Micro and Sub Surface Irrigation in Forestry organised by Department of Forestry, Haryana at Forest Complex, Pinjore, on October 16.

College of Agriculture, Hisar

- Department of Plant Pathology organised National Mushroom Day at Agro Tourism Centre and Mushroom



Technology Lab, AICRP CCSHAU Centre on December 23. More than 1000 farmers who attended the programme, were sensitized on mushroom cultivation with the theme: Mushroom in Vertical Farming. An exhibition was organised at Agro Tourism Centre. Dr. Kamal Gupta, MLA, Hisar along with the Vice-Chancellor, Prof. K.P. Singh and Deans/Directors visited the exhibition. Professor and Head of the Department, Dr. Anil Kumar advised the farmers to cultivate edible mushrooms like white button, oyster, milky and paddy straw mushroom in vertical farming. Dr. Surjeet Singh, Consultant Faculty, said that the farmers can increase their income by adopting mushroom cultivation. Dr. Rakesh Chugh described the method of vertical farming in mushroom cultivation. Dr. Satish Kumar said that mushrooms are rich source of proteins, vitamins, minerals, amino acids etc. and the farmers should include

mushroom in daily diet for nutritional security.

- A one-day Workshop on Digital Field Book was organised by Forage Section and Dr. Ram Dhan Singh Chair,



Department of Genetics & Plant Breeding in collaboration with Directorate of Human Resource Management of the University on December 10. Nearly 100 scientists and PG students of the University attended the workshop.

- MAP Section, Department of Genetics & Plant Breeding, conducted a two-day training on Medicinal and Aromatic Farming-Opportunities, Problems & Solutions from October 22-23.
- Department of Entomology organised an advanced training course: Recent Trends in Pests Status, Pesticide Usage and Pest Management Strategies in Agriculture for scientists of different SAUs and ICAR Institutes under Centre of Advanced Faculty Training functioning in the Department, from October 5-25.
- Dr. M.L. Khichar, Professor, Agril. Meteorology has taken over the charge as Head, Department of Agricultural Meteorology of the University w.e.f. December 19.
- Dr. C.S. Dagar, Assistant Scientist, Department of Agrometeorology has been nominated as President, CCSHAU Cycle Yatri Club.
- Department of Soil Science celebrated World Soil Health Day at village Dobhi on December 12.
- Ms. Namita Soni, Department of Plant Pathology, was awarded Scientist

News Briefs

Associate Award in International Conference on Global Research Initiatives for Sustainable Agriculture & Allied Sciences (GRISAAS-2018) held at Rajasthan Agricultural Research Institute, Durgapur, Jaipur, from October 28-30.

- The stall of Department of Genetics & Plant Breeding won first prize in SAUs/State Departments/ICAR Institutes group for demonstration of valuable goods and technologies in Agro-Industrial Exhibition during Krishi Mela (Rabi) organised by CCSHAU from October 4-5.

College of Basic Sciences & Humanities

- Dr. B.K. Hooda, Professor, Mathematics & Statistics Department, delivered invited talk on Applications of Jackknife and Bootstrap Methods in Statistical Inference in International Conference on Emerging Innovation in Statistics and Operations Research (EISOR-2018) organised by Department of Statistics, MDU, Rohtak from December 27-30. He also delivered expert lecture on the topic: SSPS Overview in the UGC sponsored Refresher Course on Research Methodology held at Human Resource Development Centre, GJU, Hisar on November 28. Besides, Dr. Hooda delivered a lecture on Role of ICT in Agriculture in the training programme on Extension Strategies for Bridging up Technology Gap at EEI, Nilokheri (Karnal), on November 16.

- Ms. Aarti Soni, Ph.D. student, Botany & Plant Physiology Department, attended International Workshop on Viruses & RNAi organised by Vector Borne Diseases Group, ICGEB, New Delhi, from October 4-6. Another Ph.D. student of the Department, Ms. Priyanka Mathur participated and presented a poster in Workshop on Plant Responses to Light and Stress: Emerging Issues in Climate Change held at ICGEB, New

Delhi, from October 10-12.

- Ms. Priyanka, Ph.D. student, Department of Chemistry, qualified CSIR-NET examination whereas another Ph.D. student, Ms. Sukriti Nehra got selected as PGT Chemistry in Haryana Government.

I.C. College of Home Science

- AICRP team of the college organised *Swachhta Hi Sewa* programme in Govt. Senior Secondary School, village Shahpur on December 12. Lectures on health and hygiene were delivered and students were encouraged to keep themselves and their surroundings clean.

- EECM Department conducted two campaigns of two days each on Awareness of Hygiene and Sanitation under RKVY project in village Shahpur from November 26-27 and village Gawar from November 28-29. A total of 100 BPL rural women and girls actively participated in these campaigns. Sanitary kits were distributed among the participants to encourage health hygiene and sanitation among them.

- Dr. Veenu Sangwan attended Mahila Kisan Diwas organised by Department of Agriculture, Cooperation & Farmers Welfare, GOI at NASC Complex, PUSA, New Delhi, from October 14-15.

- A two-day training on Bead Jewellery Making was conducted by FRM Department at village Mangali from October 16-17 in which 15 rural women participated.

- Students of FRM Department organised various events such as Karwa Choth on October 26, Haryana Day November 2, Birthday and Bachelor Party on November 15 and Inter State Harmony Day on November 27 under course FRM-402.

- FRM Department organised 'Creations' to showcase the articles prepared by students under course FRM-405 on October 30. On this occasion,

Dr. Sanjesh Singh wife of Vice-Chancellor, Prof. K.P. Singh was the Chief Guest. She was taken on round of the



exhibition by the Dean, Dr. Bimla Dhanda. She was all praise for the talent of the students.

- Preschool Laboratory of HDFS Department celebrated Children's day on November 14. On this occasion, Director of Research, Dr. S.K. Sehrawat was the Chief Guest. Various competitions including puzzle fixing, poem recitation,



drawing and colouring and fancy dress were organised. Prizes were given to all the participants by the Chief Guest.

- Dr. Santosh Sangwan and Dr. Saroj Yadav attended multidisciplinary Refresher Course on Research Methodology at Guru Jambheshwar University, Hisar, from November 15-December 5.

- FRM Department organised the visit of UG & PG students to TERI on November 16.

- A delegation from University of Illinois, USA visited Experiential Learning Lab. and Centre of Excellence Lab. on December 1.

- Technology related posters and value added products of Department of Foods & Nutrition were displayed in

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Krishi Mela (October 4-5), Women in Agriculture Day (December 4) and Chrysanthemum Flower Show (December 23-24) organised in the University.

- Dr. Saroj Yadav and Dr. Santosh Sangwan delivered lectures on career opportunities in Home Science at Govt. Sr. Secondary School, Badon Brahman, Hisar, on December 17 and December 19, respectively.

- Department of Foods & Nutrition put up a stall for display and sale of products under Experiential Learning Programme at IG Auditorium on the occasion of celebration of Kisan Diwas on December 23.

Centre of Food Science & Technology

- Centre of Food Science & Technology (CFST) celebrated World Food Day on October 23. On this occasion, Dr. R.S. Dabar, former Dean, College of Dairy Technology, LUVAS, Hisar was the key speaker. He delivered lecture on Job Opportunities in Food Sector.

- Ms. Tanu Malik, Ph.D. student, FST received AFST (I) Education and Publication Trust Scholarship (2018) in the 8th International Food Convention held at CSIR-CFTRI, Mysore, from December 12-15.

- The Centre displayed and sold its food products in the exhibitions put up on the occasion of Krishi Mela organised by the University from October 4-5. Its stall won the 2nd prize. The Centre also displayed and sold its food products in the exhibitions put up on the occasion of Women in Agriculture Day celebrated by College of Home Science on December 4; Kisan Diwas on December 23 and Chrysanthemum Flower Show from December 23-24.

Dean Postgraduate Studies

- A panel discussion/debate on Appraisal of Swaminathan Commission recommendations by grassroot

innovators on the topics: Crop production, productivity and farmers' income; Biodiversity in relation to sustainable agriculture; Soil health in relation to suitability of production system; and Climate change and resilient agriculture, was organised on October 20. Approximately 40 students of



various colleges of the University participated in the debate. Eminent scientists from CCSHAU and other institutes also attended this programme. Among the students, the best performers were presented mementoes and certificates.

- As many as 526 M.Sc. and 433 Ph.D. students were on rolls during 1st Semester 2018-19. During October-December, 2018, 8 M.Sc. students and 31 Ph.D. students completed their degree.

- Ms. Exta Kapri and Ms. Garima Yadav, Ph.D. students, Department of Family Resource Management attended TEQIP III sponsored short term course on Ergonomics in Design and Engineering Education held at Department of Design, IIT, Guwahati, Assam, from November 26-30.

- Four Ph.D. students, namely Ms. Sonia Rani, Ms. Seema, Ms. Kavita and Mr. Mohammad Amim Bhatt attended 83rd Annual Convention of Indian Society of Soil Science held at Anand Agricultural University, Anand, Gujarat from November 27-30.

- Ms. Anshul Chhachhiya, M.Sc. student, Department of Nematology, has been awarded the Best Thesis Award in the International Conference on Global Initiative for Sustainable Agriculture and

Allied Sciences organised by Aastha Foundation at Durgapur, Rajasthan, from October 28-30.

Directorate of Students' Welfare

- The Literary and Debating Society of the University organised a declamation contest on the occasion of National Unity Day and Haryana Day, on October 31. Students from various colleges of the University participated in the contest with great enthusiasm. The contest was held in both Hindi and English languages. Ms. Divya Kapoor from College of Basic Sciences & Humanities and Ms. Harshita from College of Agriculture won first prize in Hindi and English, respectively.

- On the occasion of Haryana Day, the CCSHAU Cycle Yatri Club organised a cycling tour to Agroha Dham on November 1, in collaboration with Society for Rural Mental Health, Haryana on the theme Physical & Mental Fitness. In this tour, 62 students and 17 faculty members participated. The members of the Club participated in the cycling tour



to Salasar Dham (200 km) organised by Hisar Rodies on November 11. Mr. Vinod, the student member of the Club secured 4th position in this event.

- Students' Counselling & Placement Cell of the Directorate organised following professional and skill development training programmes for University students during October-December, 2018. The students were given certificates on successful completion of these training programmes: Workshop on Career Opportunities: Awards/Fellowships/Job Opportunities (from October 16-17); Specialized Course on Comprehensive

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Learning Programme in Agriculture (from October 29-November 11); Training Programme for the Preparation of UGC/CSIR NET-2018 from November 24-December 1); Personality Development Training (from October 4-23 and October 30-November 20); Personality Development Training for the students of COA, Bawal (from November 15-29); Awareness and Use of Library Resources and Services in Digital Era (from October 15-27 and November 12-22); Training Programme on Agripreneurship for SC/ST Students (from November 12-24); Training on Protected Cultivation of High Value Flower Crops for PG Students (from November 26-December 6).

- Students' Counselling & Placement Cell conducted three motivational lectures- two on Ignite Your Mind for boys and girls and one on Publishing in International Journals & Study Opportunities in Australia during October-November, 2018. Besides, it also organised Career Counselling sessions for students of the University on the topics: Use of Spatial Meteorological Data for Precision Agriculture; Indian Ancient View for Modern Higher Education; and Future Prospectus in Escorts, during November-December, 2018.

- As many as five students, namely Mr. Kartikeya Sharma, Mr. Manoranjan Kumar Jha, Mr. Ajay, Mr. Makhan and Mr. Rahul Yadav got placement as Field Officer in Escorts Ltd.

- NSS Unit, College of Agriculture, celebrated Gandhi Jayanti on October 2.

Director Students' Welfare, Dr. D. S. Dahiya flagged off the rally of NSS volunteers held on the occasion. The rally started from I.G. Auditorium and passed through old and new campus, gate no. 4 and Jawahar Nagar area. The students recited slogans in the memory of Mahatma Gandhi and *Swachhta Hi Seva*. After the rally, the students did cleanliness in areas around Directorate of Students' Welfare and College of Agriculture.

- NSS Unit, College of Agriculture, celebrated National Unity Day on October 31. Dr. K.S. Grewal, Dean, College of Agriculture was the Chief Guest on the occasion. He administered oath of unity to the NSS volunteers and the faculty members. Four NSS volunteers delivered speeches about the contribution of Sardar Vallabh Bhai Patel in Nation Building. After the function, the students participated in the cleanliness drive.

- As per the guidelines of DG Higher Education, Haryana, the NSS Unit, College of Agriculture, celebrated Pledge for Life on December 10. Dr. R.K.



Godara, Associate Dean, COA who was the Chief Guest on the occasion, administered oath to the students regarding not consuming any tobacco product.

- The CCSHAU Cricket team participated in QUASAR, 2018 held at B.K. Birla Institute of Engineering & Technology, Pilani, from October 24-27. The team got 1st position and was also awarded Fair Play Trophy.

- The CCSHAU Shooting team (M&W) participated in All India Inter-University

Shooting Championship organised by Punjab University, Chandigarh, from October 31 to November 5.

- The Directorate organised Inter-College Tournaments in different sports from October 11-November 24.

- Mr. Harshvardhan (14A18BVI) and Mukesh (14A30BVI) attended army attachment camp at Abohar Cantt. from October 15-27.

- CPL Parteek (14A38BVI) attended the Republic Day camp organised in Delhi Cantt. from January 1-29.

Directorate of Human Resource Management

- To help newly appointed faculty of the University to settle down quickly in the new environment by familiarising them with the organization's work culture, vision, mission and goals, Academy of Agricultural Research and



Education Management of the Directorate organised an Induction Training from November 29 to December 29. A total of 32 scientists participated in this training. They were made to understand the administrative procedures, organizational behaviour and the system followed at CCSHAU. The programme included a blend of lectures, group discussions, assignments, presentations etc. Dr. K.P. Singh, Vice-Chancellor, addressed and motivated the participants in the valedictory function.

- The IPR Unit & BPD Cell organised IPR Quiz competition at DHRM on November 15. Two teams from each

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college participated in the Quiz competition. The team from College of Agricultural Engineering & Technology secured 1st prize and the team from College of Basic Sciences & Humanities secured 2nd prize.

- A new technique- 'A renewable resource drives starchy raw materials to ferment fast into ethanol' developed by Drs. S.S. Dhamija and Seema Sangwan, College of Basic Sciences & Humanities has been granted patent no. 303453 by the Patent Office, Govt. of India.

- An Invention – Hands Free Honey Bee Observation Grid Frame made by Sumit Saini, Om Pal Chaudhary and Vadde Anoosha, Department of Entomology, has been filed with Patent Office, Govt. of India for grant of patent.

Directorate of Farms

- A one-day Workshop on Farmers Participatory Research for Increasing Wheat Production in Haryana was organised by the Directorate under the RKVY Project on November 30. In this workshop, 50 progressive farmers from different districts of Haryana participated. On this occasion, scientists working on wheat research including Dr. I.S. Panwar, Dr. R.P. Saharan, Dr. Divya, Dr. Priyanka from Department of Genetics & Plant Breeding and Dr. Ram Niwas and Dr. Rajesh Arya from Directorate of Farms discussed about the future plan to increase the wheat production in Haryana by adopting the newly released varieties and technology. On

this occasion, seed of new wheat varieties WH1105, WH1142 and WB-2 were distributed to the participating farmers for conducting trials at their fields.

Nehru Library

- Two short training programmes on Awareness & Use of Library Resources and Services in Digital Era were organised by Nehru Library for



undergraduate girl students of the University in collaboration with Directorate of Students' Welfare from October 15-27 and November 12-22. In these training programmes, useful contents regarding use of different e-Resources were taught to the participants. A visit to two Delhi based libraries viz. GGSIPU and IARI was conducted to give exposure to the students. Dr. Seema Parmar, Senior Assistant Librarian and Dr. Bhanu Pratap, Assistant Librarian were Coordinators of these trainings.

Associate Director Publications

- During October-December, 2018, Annual Reports of the University for the year 2015-16 and 2016-17 were published. Besides, Telephone Directory,

New Year Diary, Calendar and Table Calendars were also got printed. A special issue of the monthly magazine - Haryana Kheti on knowhow regarding crop residue management for farmers was also published. The Department put up stalls on the occasion of Krishi Mela-Rabi, Kisan Diwas and Agricultural Officers' Workshop where different publications of the Department were displayed and sold.

EO-Cum-Chief Engineer

- The facility for establishment of Agribusiness Incubation Centre covering an area of 5460 sq.ft., has been created in the Gandhi Bhawan of the University. The facility consists of 14 cabins for incubators, one idea room and one conference room. Required furniture has also been provided.

Transport Workshop

- The Transport Workshop of the University organised Bhandara (public



mess) on the occasion of Vishavkarma Day on November 12. Approximately 2300 officials of CCSHAU and LUVAS joined the Bhandara. The Vice-Chancellor, Prof. K.P. Singh and officers of the University also graced the occasion.

Retirements

The following faculty and staff members of the University retired on attaining the age of superannuation during October-December, 2018 :

Retirements on 31st October, 2018

S. No.	Name	Designation	Department
1	Dr. Satyavir Singh	Principal Scientist	Regional Research Station, Bawal

S. No.	Name	Designation	Department
2	Dr. Satnam Kaur	Associate Director	Directorate of Human Resource Management
3	Dr. J.K. Sandooja	Professor	Botany & Plant Physiology Department
4	Dr. Asha Batra	Associate Professor	Associate Director Training
5	Mrs. Sunita Tehri	Personal Assistant	Directorate of Students' Welfare
6	Mr. Ram Saran Yadav	Attendant	College of Agriculture, Kaul
7	Mrs. Kalawati	Mate	College of Home Science
8	Mr. Rameshwar	Beldar	Horticulture Department
9	Mr. Satyanarayan	Beldar	Plant Pathology Department
10	Mr. Mahender Singh	Tractor Driver	Regional Research Station, Kaul
11	Mr. Kartar Singh	Beldar	Landscape Unit
12	Mrs. Shanti Devi	Beldar	Regional Research Station, Bawal
Retirements on 30th November, 2018			
13	Dr. S.S. Sindhu	Professor	College of Basic Sciences & Humanities
14	Dr. P.K. Verma	Principal Scientist	Forage Section
15	Mr. Sumer Singh	A&AO	College of Agriculture
16	Mr. Hoshiar Singh	Senior Laboratory Assistant	MBBB Department
17	Mr. Ram Chander	Tractor Driver	Director Farms
18	Mr. Suraj Bhan	Plant Observer	Agronomy Department
19	Mr. Gian Chand	Generator Operator	XEN(E)
20	Mr. Karam Singh	Plant Observer	Regional Research Station, Kaul
21	Mr. Sadhu Saran	Beldar	Landscape Unit
22	Mrs. Poonam Pahuja	Assistant	Soil Science Department
23	Mr. Sultan Singh	Projector Operator	Extension Education and Comm. Management Deptt.
24	Mr. Ram Kishan	Animal Attendant	Agronomy Department
25	Mr. Kartar Singh	Jeep /Car Driver	College of Home Science
26	Mr. Jai Singh	Jeep Driver	Dryland Agriculture
Retirements on 31st December, 2018			
27	Mr. Jagdish Chander	Assistant Professor	Directorate of Students' Welfare
28	Mr. Vinod Kumar Goldi	Harmonium Performer	Directorate of Students' Welfare
29	Mrs. Indrawati	Attendant	Directorate of Students' Welfare
30	Mr. Ram Kumar	Security Guard	Landscape Unit
31	Mr. Chander Bhan	Water Pump Operator	Landscape Unit
32	Mr. Babu Lal	Beldar	Landscape Unit
33	Mr. Dev Dutt Sharma	GO-cum-Daftri	Genetics & Plant Breeding Department
34	Mr. Ajmer Singh	Beldar	Regional Research Station, Kaul
35	Mr. Tara Chand	Sweeper	College of Agriculture, Kaul

