

# UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT


**UDYANA VARTHE**
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## Vice-Chancellor's Outlook....


**Dr. K. M. Indires**

During the period under report, Karnataka farmers had suffered a lot due to floods in most of the districts owing to excess rainfall. Lakhs of hectares of standing crops were submerged in water leaving the farmers in a desperate situation. Our scientists could do their level best to visit the flood affected fields and suggest the remedies, for rejuvenation and re-establishment of damaged crops.

Several programmes were organized to enhance the confidence of the farmers. University has also celebrated its eleventh Foundation day, in which the best performing teachers, supporting staff and students were felicitated. Couple of our scientists could go abroad for widening their knowledge horizon.

## Celebration of 11<sup>th</sup> Foundation Day of UHS, Bagalkot



Eleventh Foundation Day of University of Horticultural Sciences, Bagalkot was celebrated on 22<sup>nd</sup> November, 2019. Dr. K. M. Indires, Hon'ble Vice Chancellor inaugurated the function by lighting the lamp and also presided over the function. Dr. T. B. Allolli, Registrar welcomed and briefed about the progress of the University. Dr. K. M. Indires, Hon'ble Vice Chancellor delivered the foundation day speech. The meritorious students who were selected for Donors Scholarships, the students who excelled in the State and National level sports, NSS and cultural events were felicitated. Dr. B. Fakrudin, Professor & Head, Dept. of BCI, COH, Bengaluru, Dr. Jagadeesh N.,

Assistant Professor of Agronomy, COH, Koppal and Dr. Vishnuvardhana, ADR, RHREC, Bengaluru were honored with "Best Research Scientist Award", "Dr. S. B. Dandin Best Extension Scientist Award" and "Project Incentive Award" respectively. Mr. Ramangouda Patil, Assistant Comptroller, Comptroller's Office, Mr. Manjunath Nidagundi, Senior Assistant, VC office and Shri Manjanappa, Field Assistant, COH, Bidar were awarded with "Best Non-Teaching Staff Award" for the year 2019-20. Dr. Y. K. Kotikal, Director of Extension proposed the vote of thanks.


**Dr. B. Fakrudin**

**Dr. Vishnuvardhana**

**Dr. Jagadeesh N.**

**Mr. Manjunath Nidagundi**  
**Mr. Ramangouda Patil**



## National Conference on “Recent advances and future prospects in mass multiplication of quality seeds”



UHS, Bagalkot in collaboration with Indo-American Hybrid Seeds Pvt. Ltd., Bengaluru organized Padma Shri Dr. Manmohan Attavar Memorial National Conference on “Recent advances and future prospects in mass multiplication of quality seed/planting materials in horticultural crops” from 6<sup>th</sup>-7<sup>th</sup> November, 2019. The conference was inaugurated by Shri. Govind M. Karjol, Hon'ble Deputy Chief Minister and Minister for PWD & Social Welfare, GOK in presence of Shri. V. Somanna, Minister of Housing and Horticulture, Shri. Veeranna C. Charantimath, MLA, Bagalkote, Shri. Doddanagouda G. Patil, MLA, Hungund, Dr. K. M. Indires, Hon'ble Vice Chancellor and Shri. Arthur Santosh Attavar, Chairman and Managing Director, IAHS, Pvt. Ltd., Bengaluru.

The conference was organized to assess the recent advances in quality seed/planting material production and to develop link among the scientific community to carryout research on these aspects. In the conference, four technical sessions were arranged on different aspects of seed/planting material production and certification. Fifteen lead lectures by scientifically skilled delegates of seed sector were arranged during the conference. Sixteen authors of research articles were invited for oral presentations and thirty scientists for poster presentations. More than 120 delegates from different parts of the country participated in the conference. Dr. D. R. Patil, Special Officer (Seeds) and Dr. N. Basavaraja, Director of Research were the Organizing Secretaries for the national conference, while Dr. Shivayogi Ryavalad and Dr. Bapurayagouda Patil, Assistant Professor of Seed Science and Technology were Co-organizing Secretaries.

## CAFT on "Advances in conservation and utilization of plant genetic resources in major flowers and ornamental plants"

ICAR sponsored 21 days training programme on "Advances in Conservation and Utilization of Plant Genetic Resources in Major flowers and Ornamental plants" was organized by Dept. of FLA, COH, Bengaluru from 20.11.2019 to 10.12.2019. Dr. T. Manjunath Rao, Principal Scientist & Head, ICAR-IIHR, Bengaluru inaugurated the programme on 20.11.2019 and in his inaugural speech, he briefed about the relevance of conservation of flowers and ornamentals. Dr. R. C. Jagadeesha, Dean, COH, Bengaluru presided over the function.

Dr. M. R. Dinesh, Director, ICAR-IIHR, Bengaluru participated as Chief Guest for valedictory function and distributed certificates to the trainees on 10.12.2019. He appreciated the programme and its importance as the conservation of germplasm in flowers and ornamental plants is very important for breeding programme. Dr. G. K. Mukund participated as Special invitee. Dr. R.C. Jagadeesha, Dean, COH, Bengaluru, Dr. M. K. Honnabyraiah, Professor & Head (FSC) and Dr. Balaji S. Kulkarni, Professor of FLA graced the occasion. Dr. Seetharamu, G. K., Coordinator of CAFT presented the report on 21 days training. Totally twenty three Scientists from SAUs and ICAR institutes of different states participated in the training.



## Development of technical advisory for revival of flood affected crops in Northern Karnataka



The five districts of Northern Karnataka viz., Belagavi, Bagalkote, Dharwad, Raichur and Gulbarga experienced an unexpected flood during the month of August 2019. UHS Scientists visited the flood affected pomegranate, grape, sapota and sugarcane fields on 27.08.2019 in Bagalkot district. The team lead by Dr. N. Basavaraja, Director of Research, Dr. Y. K. Kotikal, Director of Extension, Dr. D. R. Patil, ADRE, MHREC, Bagalkote and other scientists in batches visited the orchards damaged by flood and suggested the farmers to follow *ad-hoc* measures to rejuvenate the crops. After having detailed discussion with ICAR Scientists, technical advisory for revival of flood affected pomegranate and grape gardens was finalized. The revival package was developed for flood affected grapes, pomegranate, citrus, sapota, banana, papaya, mango and vegetables like watermelon, chilli, brinjal, ridge guard, tomato etc. The same was communicated through All India Radio, Doordarshan, Newspapers and circulated to extension staff of Dept. of Agriculture and Horticulture.

## Visit of UHS scientists to Green Innovation Centre, Bengaluru

Dr. N. Basavaraj, Director of Research, UHS, Bagalkot and team of UHS Scientists viz., Dr. Vishnuvardhana, ADRE, Dr. Amarananjundeshwara, Head, HREC, Hassan and Dr. Manjunath G. Assistant Professor of Plant Pathology visited Green Innovation Centre, Jayanagar, Bengaluru on 02.08.2019 and discussed the collaborative research work to be undertaken at UHS, Bagalkot.



## Potato Field Day at HREC, Hassan



AICRP on Potato, HREC, Hassan in association with KSDH, Hassan and Green Innovation Centre, Hassan organized 'Potato field day' on 19.08.2019. Dr. H. Amarananjundeswara, Head, HREC, Hassan welcomed the guests and farmers and delivered the introductory speech on advanced technologies in potato production and purpose of organizing potato field day. Dr. K. M. Indires, Hon'ble Vice chancellor inaugurated the field day. Dr. Y. K. Kotikal, Director of Extension presided over the function. Dr. Vishnuvardhana, ADRE, RHREC, Bengaluru, Mrs. Mangala K., Deputy Director, Centre of Excellence on

Protected cultivation of Horticulture crops, Somanahallikaval, Hassan, Dr. K. R. Vasudeva, Associate Professor of Post Harvest Technology, COH, Bengaluru, Dr. Siddappa, Assistant Professor, HREC, Arasikere, Mr. Ravindranath Reddy, Project Manager, CIP, Bengaluru, Mr. Suhas, Programme Co-ordinator, Green Innovation Centre, Hassan and Mr. Siddappa, President, FPO, Hassan graced the inaugural function. Dr. Prasad P. S., Scientist (Plant Pathology), AICRP on Potato proposed the vote of thanks.

The officers and farmers were taken to different experimental plots viz., potato varietal trial, net house potato seed production blocks and other AICRP experimental plots. Besides, field exposure visits, technology demonstration on boomer sprayer, result demonstration on paired row system with drip irrigation plus fertigation techniques, whole tuber sowing, foliar application of micronutrients and demonstration on new molecules of fungicides against late blight were also organized for the benefit of potato growers. Improved varieties of potato viz., Kufri Jyoti, Kufri Himalini, Kufri Pukhraj, Kufri Surya and special potato varieties (AICRP-P-35 & AICRP-P-14) were displayed. Farmers expressed their happiness over efforts made by the centre for production of potato seed tubers under net house.



## Tri-monthly Horticulture Workshop at COH, Bidar



HEEU, COH, Bidar and KSDH, Bidar jointly organized Horticulture Tri-monthly workshop for Horticulture officers of Bidar, Kalburagi and Yadagir districts at COH, Bidar on 06.08.2019. Sri Shrishail Diddimani, JDH, Kalburagi Division participated as chief guest and requested all officers to get the technical inputs from Scientists to address the problems associated with horticulture crops. Dr. Ravindra Mulge, Dean, COH, Bidar presided over the programme and in his presidential remarks, he suggested for selection of suitable varieties based on

growing conditions, need for mechanization and use of bio inputs for sustainable production. Scientists viz., Dr. Praveen Jholgiker, Dr. Praveen Naikodi, Dr. Satyanarayana C. and Dr. Arunakumar K.T. delivered various lectures on 'Canopy management and protected cultivation of horticulture crops'. Dr. Srinivas, N. Extension Leader coordinated in organizing the workshop.

## Tri-monthly Horticulture Workshop at College of Horticulture, Munirabad

Tri-monthly Horticulture workshop was also organized by HEEU, COH, Munirabad for discussing the field problems experienced by the staff and Officers of KSDH, Koppal, Raichur and Ballari districts on 20.08.2019. Sri S. Diddimani, JDH, Kalburagi Division inaugurated the workshop. Dr. Ravikumar, B. Extension Leader, Dr. D. P. Prakasha, Asst. Professor of Fruit Science, Dr. Yogeeshappa, H. Asst. Professor of SS & AC, Dr. Lingamurthy, K. R., Asst. Professor of Vegetable Science and Dr. Itigi Prabhakar, Asst. Professor of Agril. Extension delivered lectures on 'Management of pest and diseases in horticulture crops', 'Banana nutrient management and varietal characteristics, training and pruning in pomegranate and fig', 'Soil requirements and nutritional aspects of Banana crop', 'Cultivation aspects of drumstick' and 'Role of FPOs in Horticulture produce marketing' respectively. Dr. Ravikumar B., Extension Leader coordinated the programme.



## Tri-Monthly Horticulture workshop at KVK, Kolar



Tri- Monthly workshop on Horticulture was organized for Extension officers of KSDH on 03.08.2019 at ICAR-KVK, Kolar. Representative Officers of each taluk presented about the crop situation, pest and disease scenario of important crops. KVK, Kolar Scientists interacted with the department officials. A guest lecture was also arranged on production, utilization and scope of bio-fertilizers by Dr. T. H. Shankarappa. Dr. S.V. Hittalamani, Rtd. Additional Director of Horticulture gave detailed information on dry land Horticulture techniques, pruning techniques and nutrient management in various

horticulture crops. Mr. K. Thulasiram, Senior Scientist and Head, ICAR-KVK, Kolar coordinated the workshop.

## Training programme on “Improved Production Technologies in Coconut”

One day training programme on “Improved Production Technologies in Coconut” was organized by HEEU, Mysuru on 30.08.2019. The training programme was inaugurated by Dr. Maheshwarappa, H. P., Programme Coordinator, AICRP on Palms, Kasaragodu. In his inaugural speech, he said that the productivity of coconut is decreasing due to climatic variations. The farmers should adopt recent technologies to get higher yields. Dr. Janardhan, G., Dean, COH, Mysuru presided over the programme. The technical sessions were delivered by Dr. T. B. Basavaraj, ADE (S) on “Reasons for decline in coconut productivity and its remedies”, Dr. Mutthuraju, G. P. on “Management of pests in coconut”, Mr. Sudarshan, G.K. on “Management of Diseases in

coconut”, Sri. H. S. Harish, Managing Director, Essential Nectar, Hassan shared information on “Extraction of virgin oil from coconut”. Further, demonstration on Neera tapping, application of fertilizers, root feeding technique and coconut palm climbing were organized. In addition, different varieties of coconut, pests and disease specimens, management options, coconut palm climber and hand crafts of coir were exhibited for the benefit of farmers. More than 130 farmers from Mysuru, Mandya, Chamarajanagar, Bengaluru rural and Tumkur districts participated. Dr. Tanveer Ahmed, Extension Leader, HEEU, Mysuru coordinated programme.



### Training Programme on 'Enhancement of Farmers Income through Floriculture'



Regional Horticultural Research and Extension Centre and Horticulture Extension Education Unit, Bengaluru in collaboration with ATMA Project, KSDA, Nelamangala Tq. organized a training programme on 'Enhancement of farmers income through Floriculture' on 13.09.2019. Inaugurating the programme, Dr. R. C. Jagadeesha, Dean, COH, Bengaluru narrated about importance of 'World Flowers Day' and suggested the farmers to adopt suitable floriculture technologies to increase the farm income. Dr. Shwetha B. S., Extension Leader, HEEU, Bengaluru

informed the participants about importance of training programme. Various lectures viz., 'Modern cultivation practices in ornamental flowers', 'Marketing opportunities in major Horticulture crops', 'Integrated Nutrient Management in flower crops', 'Use of bio-fertilizers in Horticulture crops' and 'Integrated Pest and disease management in Flower crops' were delivered by Dr. Seetharamu, G. K., Dr. Arun M., Dr. Raghunathreddy, Dr. Shankarappa T. H., Dr. Ramegowda G. K. and Dr. Manjunath G. respectively. More than seventy flower growers from Nelamangala Taluka benefited from the training programme.

### Training programme on Organic Farming

Directorate of Extension, UHS, Bagalkot in collaboration with KFRC, Bagalkote organized three days training programme on 'Organic Farming and Integrated Farming System' at KFRC, Bagalkote from 11-13<sup>th</sup> Nov. 2019. Dr. M. S. Lokesh, ADE (North) inaugurated the programme and called upon the farmers to go for organic farming to enhance the soil productivity and quality of the farm production. Dr. Vijaymahantesh, Asst. Professor of Agronomy briefed about the purpose of organizing the programme. Various lectures viz., 'Importance of organic farming, and certification', 'Benefits of organic fertilizers' and Pest & disease management in organic cultivation of Horticulture crops' were delivered by Dr. Vijaymahantesh, Dr. Sanjeevraddi G. Reddi, Dr. Waseem M. A. and Dr. Mahesh Y. S. respectively. On third day, exposure visit to farmers' organic fields was arranged for more practical interactions.



### Workshop on under-utilized fruit crops



One day Workshop on “Exploration of processing and value addition prospects of under-utilized fruits” was organized on 13.09.2019 at KVK, Kolar. The workshop was inaugurated by Dr. K. M. Indires, Hon'ble Vice Chancellor. Sri. Manjunath J. DC, Kolar released the compendium. Dr N. Basavaraja, DR presided over the function. Dr. S. B. Dandin, Dr. D. L. Maheswar, Former VC, UHS, Bagalkot, Dr Vishunuvardhana, ADR, Dr T. B. Basavaraju, ADE (South) and Mr. Thulasiram K, Senior Scientist & Head, KVK, Kolar were present during the occasion.



## Farmers Scientists interaction on improved technologies in Horticulture

HEEU, COH, Mysuru organized 'Farmers Scientists Interaction on Improved Technologies in Horticulture' at COH, Mysuru on 17.09.2019 in association with ATMA, KSDA, Mysuru and KSDH, Mysuru. Inaugurating the programme, Dr. M. Mahanteshappa, Joint Director, KSDA, Mysuru said that the farm Universities and state developmental departments are functioning for the welfare of farming community. Hence, the farmers should regularly visit the universities and the departments to get the first hand information on recent technologies and various schemes in the field of agriculture. Dr. Ravindra, K. R. Deputy Project



Director, ATMA, Mysuru briefed about the importance and objectives of the workshop. Dr. G. S. K. Swamy, Dean (I/c), COH, Mysuru presided over the programme. A panel of scientists Dr. Aravindakumar, J. S., Mr. Harish, B. S., Mr. Sudarshan, G. K., Dr. Yathindra, H. A. and Dr. Mutthuraju, G. P. from COH, Mysuru, Dr. M. Venkatesh, from COA, Mandya and Dr. C. Govindarau, Extension Education Unit, Nagenahalli, Mysuru responded to the queries raised by the farmers. Shri M. Mahadev Shetty, Progressive farmer from Gundlupete shared his experience in integrated farming.

## Jal Shakti Abhiyana at COH, Kolar



"Jal shakti Abhiyana" was organized on 02.10.2019 at KVK, Kolar, Sri K. Srinivas Gowda, Hon'ble Member of Legislative Assembly inaugurated the programme and said that all sorts of measures to be taken up for conserving the water, otherwise it will be very difficult for the future generation to survive. Sri J. Manjunatha, Deputy Commissioner informed the public that the government is taking many activities to conserve water and create awareness among the public about importance of water. Sri H. V. Darshan, CEO requested everyone to join hands in conserving water by judicious use. Sri Manjunath Gowda, the President, Kolar District Krishik Samaja and Hon'ble Member,

BOM, UHS, Bagalkot, Dean, COH, Kolar and ADE (S) graced the occasion. All the KVK staff and more than 485 farmers participated in the programme.

## Field day cum Capacity Building programme on "Protected Cultivation of Vegetables"

Field day cum capacity building programme on "Protected Cultivation of Vegetables" was organized at COH, Sirsi on 04.10.2019. Dr. Y. K. Kotikal, DE inaugurated the event. Dr. S. I. Athani, Dean, Students Welfare, Dr. B. P. Satish, Deputy Director of Horticulture, Sirsi, Dr. Devaraj, Representative of Rijk Zwaan India, Pvt. Ltd graced the occasion. More than 100 farmers from different talukas of Uttara Kannada and students of COH, Sirsi participated in the field day.



## Training programme on "Recent production Technologies in Watermelon"



HEEU, Yadagiri organized training programme on "Recent production technologies in watermelon" on 19.11.2019. Dr. Revanappa, Extension Leader, HEEU, Yadagiri inaugurated the programme and explained about recent technologies in production of watermelon and other important cultivation practices to the trainees. Chief Guest, Sri. Anjanaiah, SADH, Yadagiri briefed about various govt. schemes available for the farmers. Progressive farmer, Sri Bheemaray Thanagundi suggested the farmers to get updated with knowledge of cultivation aspects to get more yield. Dr. Prashant, Asst. Professor of Entomology delivered a lecture on 'Management of insect pests of watermelon'.



## Horticulture Day celebration at COH, Bengaluru

On eve of the Birth Anniversary of Dr. M. H. Marigowda, a veteran of Horticulture sector of Karnataka, Horticulture Day was celebrated on 08.08.2019 at COH, Bengaluru. Dr. K. Umesha, Emeritus Professor (PSMA) participated as Chief Guest and shared his opinion about the contributions of Dr. M. H. Marigowda and how he visualized the importance of Horticulture in the Agricultural Economy to double the farmers' income. In his presidential remarks, Dean Dr. Jagadeesha indicated that there is a need for incorporating the life history of Dr. Marigowda in the course curriculum in a course for undergraduates.



## Horticulture Day Celebration at COH, Sirsi



'Horticulture Day' was celebrated on 08.08.2019 at COH, Sirsi on eve of birth anniversary of Dr. M H. Marigowda, Father of Indian Horticulture. Dr. N. K. Hegde, Dean, COH, Sirsi inaugurated the function by lightening lamp and addressed the staff and students about the importance of Horticulture in Karnataka. Dr. Chandan, K., Asst. Professor of PHT narrated the achievements of Dr. M. H. Marigowda in Horticulture. Dr. Shivanand Hongal, SMS, HEEU, COH, Sirsi co-ordinated the programme.

## Celebration of Addiction free Day at Bagalkote

Office of the Dean, Students Welfare, UHS, Bagalkot and NSS Unit, COH, Bagalkote jointly organized "Addiction Free Day" on 01.08.2019. Dr. K. M. Indires, Hon'ble Vice Chancellor inaugurated the programme and he said that contribution of Sri Mahantesh Swamiji is enormous in abolition of superstitions in the society and he also urged the youngsters to avoid bad habits to lead a good life. Dr. T. B. Allolli, Registrar, Dr. Y. K. Kotikal, Director of Extension, Dr. M. S. Kulkarni, Dean (PGS) and Dr. S. I. Athani, Dean, Students Welfare graced the occasion. All the staff and students participated in the programme.



## Participation of COH, Mysuru in "Raitha Dasara" Mysuru



College of Horticulture and HEEU, Mysuru participated in "Raitha Dasara" organized as part of Mysuru Dasara Festival from 1<sup>st</sup>-3<sup>rd</sup> October, 2019 by putting up UHS stall depicting the technologies. Shri V. Somanna, Hon'ble Minister for Horticulture and District In-charge Minister, Mysuru inaugurated the UHS stall in presence of Shri Pratap Simha, Hon'ble Member of Parliament, Mysuru on 01.10.2019. New UHS technologies and publications were showcased in the stall, which attracted lot of visitors.

## Celebration of 'National Sports Day' at COH, Bengaluru

On 29.08.2019, 'National Sports Day' was organized on eve of Birth Anniversary of Hockey Legend, Major Dhyan Chand to recognise the efforts of India and the world's greatest ever hockey player. Sri Sundar Raj Urs, Professor (Retd.), Dept. of Physical Education & Former Registrar, Bengaluru University, Bengaluru attended the function as chief guest. All the staff and students of College of Horticulture, Bengaluru participated in the programme.



## Independence Day celebration



COH, Bagalkote



COH, Bengaluru

## Awards & Recognitions



**Dr. I. B. Biradar**, Professor of Agronomy and Technical officer, office of the Vice-Chancellor, UHS, Bagalkot has received prestigious “**Dr. APJ Abdul Kalam Life Time Achievement National Award**” on 17.08.2019 at Ranga Mandinra, Bengaluru for his distinguished contributions to the development of the Nation, farmers and achieving outstanding excellence in the field of Agricultural teaching, research and publications.



**Dr. Sanjeevraddi G. Reddi**, Assistant Professor of Agronomy, COH, Bagalkote has received “**Best oral paper presentation award**” for the research article entitled “Effect of chemical seed treatments on quality of oil palm” at National Conference on 'Recent advances and future prospects in mass multiplication of quality seed / planting material in Horticulture crops' held at UHS, Bagalkot from 6<sup>th</sup>-7<sup>th</sup> November, 2019.



**Dr. Mahantesha B. N. Naika**, Asst. Professor of Molecular Biology, Dept. of BCI, KRCCH, Arabhavi received “**Quarterly Franklin Membership- 2019**”. The recognition given by Editorial Board of London Journals Press, London, United Kingdom for his impactful research contribution on 'Transcriptome profiling of coriander: a dual purpose crop unravels stem gall resistance genes'.

## Scientists' Visits Abroad



**Dr. Vijaymahantesh**, Assistant Professor of Agronomy, DE office, UHS, Bagalkot has attended an International course on 'Sustainable Agricultural water management' from 5<sup>th</sup>-9<sup>th</sup> August, 2019 held at International Agricultural Research and Training Centre (IARTC), Izmir, Turkey.



**Mr. M. A. Waseem**, Assistant Professor of Agricultural Entomology, DE office, UHS, Bagalkot has participated in 9<sup>th</sup> International course on “Alternative methods for reduction of pesticide use” from 14<sup>th</sup>-18<sup>th</sup> October, 2019 at IARTC, Menemen, Izmir, Turkey.

## Celebration of 'Sadbhavana Divas'



COH, Koppal

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