

# UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT


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## Vice-Chancellor's Outlook....



Dr. K. M. Indires

The year 2019-20 started with general elections. In spite of the restrictions imposed in the form of code of conduct, the University has organized several routine activities and new programmes. The period under report could be rightly said as time to look back what has been done in the previous year. The annual technical meetings followed by RHREA & PF workshops, board of studies, Academic council, Research council, Extension council and Sports and cultural council were conducted to review the progress and impact, and as well as planning for the next year. Several extension activities were organized during the period, like DAESI programmes, need based capacity building programmes etc.

## RHREA & PF Workshop for Southern Zone



Regional Horticultural Research and Extension Advisory and Project Formulation Workshop (RHREA & PF) for Southern Zone was conducted at COH, Mysuru from 9<sup>th</sup>-11<sup>th</sup> May, 2019. Dr. K. M. Indires, Hon'ble Vice Chancellor inaugurated the workshop on 09.05.2019 by lighting the lamp. Dr. N. Basavaraj, Director of Research, Dr. Y. K. Kotikal, Director of Extension, UHS Bagalkot, Dr. M. S. Nataraju, Director of Extension, UAS, Bengaluru, Dr. Nagaraj, Joint Director of Horticulture, Mysuru, Dr. Janaradhan, G., Dean, COH, Mysuru, Dr. Vishnuvardhana, ADR, RHREC, Bengaluru, Dr. D. R. Patil, ADR, RHREC, Bagalkot, Dr. T. B. Basavaraju, ADE (South), Mr. Chandrashekar, Progressive farmer, Ramanagara, Mr. Yogesh, Progressive farmer, Beluru, Hassan, Mr. Mahadeva Shetty, Progressive farmer, Gundlupet, Chamrajanagara, Mr. Chandrashekar, Progressive farmer, Nellamakanahalli, Kolar, Dr. Raju, Deputy Director of Horticulture, Mysuru and Scientists from UHS, Bagalkot and ICAR-IIHR, Bengaluru participated in the workshop. Totally 28 new project proposals, 7 new farm trials, 8 new MLTs have been approved. Two technologies accepted for commercialization and five varieties accepted for release.

## International Yoga Day celebration



Udyanagiri Campus



CHEFT, Devihosur



## RHREA & PF Workshop for North Zone at KRCCH, Arabhavi



Regional Horticultural Research and Extension Advisory and Project Formulation Workshop-2018 (Northern Region) was organized from 29<sup>th</sup>-31<sup>st</sup> May, 2019 at KRCCH, Arabhavi. Dr. K. M. Indires, Hon'ble Vice Chancellor inaugurated the workshop and suggested the scientists to formulate research programmes with specific objectives leading to the development of farmer friendly technologies. He urged the Scientists to work on climate change, organic farming, water saving technologies, drought mitigation strategies (dry land horticulture technologies) soil and water conservation.

Dr. N. Basavaraja, Director of Research briefed the importance of RHREA & PF workshop and insisted all the scientists for active participation and discussion. Dr. Y. K. Kotikal, Director of Extension said that new project proposals should be on alternative use of inputs such as bio-pesticides for the management of pest and diseases. Dr. M. S. Kulkarni, Dean (PGS), Dr. Nagesh Naik, Dean, KRCCH, Arabhavi, Dr. D. R. Patil, ADRE, Dr. M. S. Lokesh, ADE (N) and Dr. Vishnuvardhana, Dean & ADR, Bengaluru graced the occasion. Totally 32 new project proposals, 18 Farm trials, 11 technologies for POP and two varieties were approved for release during the workshop.

## Visit of UHS Scientists to Fruit Research Station, Sangareddy

Dr. Ravindra Mulge, Dean, COH, Bidar along with Dr. Srinivas N. Assistant Professor of Fruit Science and Dr. Ashok Suryawanshi, Asst. Professor of Crop Physiology visited FRS, Sangareddy, Telangana on 16.05.2019. Dr. Bhagwan, ADR and Head and Dr. Harikanth, Scientist, FRS, Sangareddy explained about the mandate programmes and activities of research station. Further, the team also visited the mango gene bank and demonstration blocks.



## 'Potato seed production and participatory varietal selection'



Two days training programme on 'Potato seed production and participatory varietal selection (PVS)' was organized at HREC, Hassan from 27<sup>th</sup>-28<sup>th</sup> May, 2019 under RKVY project on Potato. Dr. R. K. Singh, Head, Seed division, CPRI, Shimla and Dr. Sushma Arya, Research Agronomist, CIP, Delhi were the resource persons for the programme. Scientists from COH, Bengaluru, RHREC, Dharwad, DDH, Hassan and SADHs from all talukas of Hassan district, staff of ETC and farmers from different FPO's participated in the programme. Dr. H. Amarananjundeswara, Head, HREC, Hassan presided over the

function. On first day, Dr. R. K. Singh explained about potato seed production scenario in India highlighting the challenges of seed production in Karnataka. On the second day, Dr. Sushma Arya discussed about 'Participatory varietal selection and also stressed upon the important factors to be considered for varietal selection'.

## 'Importance of bivoltine sericulture for profit maximization'

One day training programme on 'Importance of bivoltine sericulture for profit maximization' was jointly organized by KVK, Kolar, REC Madivala and Department of Sericulture, Kolar at Nayakarahalli village, Kolar district on 10.05.2019. Dr. Shashidhar K. R, Scientist (Sericulture) delivered lecture on recent technologies in bivoltine sericulture. Dr. Noble Morison, Scientist, REC,

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Madivala briefed on 'Importance of productive bivoltine hybrids in quality cocoon production'. Sri. M. K. Prabhakar, Deputy Director of Sericulture, Kolar, Sri Manjunath, M., Assistant Director of Sericulture were the chief guests. More than 40 farmers participated in the programme.



## World Honey Bee day celebrated at COH, Bengaluru



COH, Bengaluru celebrated 'World Honey Bee day' on 27.05.2019. Dr. Gangadhar Narabench, Head, Department of Entomology delivered the introductory talk on World Honey Bee Day by emphasizing on significance of celebration of the Honey Bee day. Shri Lakshmegowda, Progressive Bee Keeper spoke on 'Bee Keeping- a potential component in Integrated Farming System'. Dr. Vishnuvardhana, Dean, COH, Bengaluru presided over the function.

## Krishi Jayanti -Exhibition celebration at Sirsi

Shree Swarnawalli Krishi Pratistana (R) sponsored "Krishi Jayanti-Exhibition" in collaboration with TSS Ltd., Sirsi and Gramabhyudaya (R), Sirsi and HEEU, Sirsi, was organized at Sonda village of Sirsi Tq. from 16<sup>th</sup>-17<sup>th</sup> May, 2019. The programme was inaugurated by Shri. Vishweshwara Hegde Kageri, Hon'ble MLA, Sirsi in presence of Dr. Indires K. M, Hon'ble Vice Chancellor, UHS, Bagalkot and Dr. M. K. Naik, Hon'ble Vice Chancellor, UAHS, Shivamogga. An exhibition stall depicting UHS technologies and publications was put up by HEEU, Sirsi.



## Field day on Menthol Mint at Hallur Village



Field day on Menthol mint was organized by HEEU in collaboration with RKVY Project on Menthol mint, KRCCH, Arabhavi and KSDH, Gokak on 04.05.2019 in the farm of Sri. Laxman Saptasagar at Hallur village of Mudalagi Tq. Dr. N. Basavaraja, Director of Research inaugurated the field day and suggested that menthol mint crop can be grown as intercrop in sugar cane and also grown as mono crop and gives nearly 80-90 litres of oil per acre with a net income of forty five thousand per acre. Dr. Y. K. Kotikal, Director of Extension, Dr. Nagesh Naik, Dean, Dr. Kantharaju, V., Extension leader, Mr. Srikantaprasad, Mr. J. S. Hiremath, Dr. Pushpa, T. N. and students of PSMA Department, KRCCH, Arabhavi graced the occasion.

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## NSS Camp at COH, Mysuru

Annual Special NSS Camp of NSS unit of the COH, Mysuru was organized from 20<sup>th</sup> -26<sup>th</sup> May, 2019 at Anagahalli village. The programme was inaugurated by Shri Malleshi, M., President, GP and P.D.O., Mysuru. Dr. Janardhan, G., Dean (I/c), COH, Mysuru presided over the programme and addressed the gathering. Dr. Krishna R. Yadav, Asst. Prof. of Physical Education and NSS Programme Officer coordinated the programme.





## Research Council Meeting



Tenth Research Council Meeting of UHS, Bagalkot was held on 9<sup>th</sup> July, 2019 at Udyanagiri Campus, Bagalkot. The Council meeting was chaired by Hon'ble Vice Chancellor Dr. K. M. Indires and attended by esteemed members of Research Council. Dr. N. Basavaraja, Director of Research and Member Secretary welcomed the members. He highlighted about the release of five new varieties and 14 technologies by the scientists of UHS, Bagalkot during 2018-19. Tomato-RFT-S-1 (DTS-1); Oriental pickling melon-BCMCO-04 (Prabha); Cluster bean-COHBCBC-35-S2 (Krishnaprabha Sangam); Sambar onion / Shallots onion - COHBSC-34 (Krishnaprabha Chitravathi) and Vegetable soybean-COHBSBM-26 (Krishnaprabha Pinakini) were approved for release. Totally 14 technologies were approved for inclusion in the package of practice viz., seven in Crop Production, one in Post Harvest Technology and six in Crop Protection. The action plan for 2019-20 was approved. Views of the invited members were sought for the improvement of quality of research activities in the University.

## Inauguration of ZBNF: Zone-8 (Horticulture) Office

Dr. K. M. Indires, Hon'ble Vice Chancellor, UHS, Bagalkot inaugurated the Office of Zero Budget Natural Farming (ZBNF): Zone-8 (Horticulture) at RHREC, Kumbapur, Dharwad on 29.07.2019. Four districts viz., Dharwad, Belgaum, Haveri and Gadag are included under the jurisdiction of ZBNF, Zone-8. Dr. N. Basavaraja, Director of Research, Dr. Y. K. Kotikal, Director of Extension, Dr. D. R. Patil, ADR, Dr. M. S. Lokesh, ADE (N), Dr. Ramachandra Madiwal, DDH, Dharwad, Dr. Shantappa Tirkannavar, Station Head, RHREC, Kumbapur, Dr. Anand B. Mastiholi, PI, ZBNF Project (Zone-8) and Dr. Kukanoor, Extension Leader graced the occasion.



## Cropping Plan Meeting of UHS, Bagalkot



Cropping plan meeting for Southern Region and Northern region for the year 2019-20 was conducted separately on 20.05.2019 and 04.06.2019 at HRES, Arasikere and RHREC, Dharwad respectively. The progress made during 2018-19 was reviewed and the programmes for the year 2019-20 were discussed and finalized. The details of the developmental activities proposed by different research centres and colleges were prioritized. The total amount of Rs. 386.15 lakhs was proposed for developmental activities by different research stations for the 2019-20.

## Signing of MoU by UHS, Bagalkot

On behalf of the University of Horticultural Sciences, Bagalkot, Dr. T. B. Allolli, Registrar signed MoU with Satva Health Solutions Pvt. Ltd. Bengaluru on 30.07.2019 at Udyanagiri Campus, UHS, Bagalkot.





## Signing of MOU with GIZ

Dr. K. M. Indires, Hon'ble Vice Chancellor signed MoU with Deutsche Gesellschaft Fuer Internationale Zusammenarbeit (GIZ), Project on Green Innovation Centres for the Agriculture and Food Sector (GIC) in India represented by Mr. Jonathan Ziebula, Project Director, Green Innovation Centre on 18.07.2019 with a purpose of inter-institutional cooperation in technical expert's support, knowledge sharing, research/studies and capacity development. Dr. Bindumadhava H, Project Manager, World Vegetable Centre, Taiwan, Dr. R.C. Jagadeesha, Dean, COH, Bengaluru and Dr. Vishnuvardhana, ADR, RHREC, Bengaluru witnessed the occasion.



## Hon'ble Vice Chancellor visit to HRES, Hogalagere



Dr. K. M. Indires, Hon'ble Vice Chancellor, UHS, Bagalkot along with Dr. B. G. Prakash. Dean, COH, Kolar and Dr. Vishnuvardhana, ADR, RHREC, Bengaluru visited HRES, Hogalagere on 17.07.2019 and reviewed the developmental activities of the farm and interacted with the Diploma students.

## Extension Education Council Meeting



Tenth Extension Education Council Meeting was held on 9<sup>th</sup> July, 2019 at UHS Bagalkot. Dr. K. M. Indires, Hon'ble Vice Chancellor chaired the meeting. Dr. Y. K. Kotikal, Director of Extension and Member Secretary welcomed the chairman and all the members. He presented the action taken report for the various agenda items of 9<sup>th</sup> EEC meeting and progress of the extension activities for the year 2018-19. In his presidential remarks, Hon'ble Vice Chancellor said that Extension wing of our university has contributed a lot for high ranking of UHS, Bagalkot at ICAR level. He also suggested to carryout extension activities in collaboration with State Govt. Departments and ICAR institutes so that the financial burden on the university can be minimized. The action plan for all the TOT centers for the year 2019-20 was got approved.

## Improved Production Technologies of Banana



Horticulture Extension Education Unit, COH, Mysuru in association with ATMA, KSDA, Mysuru organized one day training cum exhibition on "Improved Production Technologies of Banana" on 23.07.2019. The programme was inaugurated by Dr. D. S. Somashekar, Project Director (ATMA) and DDA, KSDA, Mysuru. He opined that, the training programme would help the farmers to rectify the lacunae in production practices and in increasing the productivity of banana. Dr. Janardhan, G., Dean,

COH, Mysuru welcomed the farmers to visit the campus and get solutions to their field problems. Progressive Farmers, Sri. Prabhakar, Sri. Srinivas and Sri. Nagabhushan shared their experiences on banana farming.



Lectures on 'Improved cultivation practices of Banana', 'IDM in banana', 'IPM in banana', 'Importance of soil testing' and 'Postharvest management and marketing in banana' were delivered by Dr. G. S. K. Swamy, Mr. Sudarshan, G. K., Dr. Mutturaju, G. P., Dr. Sheelarani, S., and Sri. K. S. Vishwas Shenoy, Future Consumer Limited, Bengaluru, respectively. During the occasion, an exhibition depicting different varieties of banana, tissue culture plants, diseases and pests identification and their control measures was organized. More than 170 farmers from Mysuru, Mandya, Chamaraanagara, Hassan, Tumkur and Ramanagara participated and got benefitted from the programme. Dr. Tanveer Ahmed, Extension Leader coordinated the programme.

### Graduation day for DAESI trainees

Graduation Day was organized for DAESI trainees at KVK, Kolar on 10.07.2019. The programme was inaugurated by Dr. G. R. Pennobalaswamy, State Nodal Officer, SAMETI (S), UAS, Bengaluru and briefed about role of input dealers for farming committee after distributing the certificates to the trainees. Dr. T. B. Basavaraju, ADE (S) presided over the programme and emphasized about organic method of cultivation along with use of bio-fertilizers besides enriching the soil by incorporating green manure crops. Sri K. Thulasiram, Senior Scientist & Head and SMSs of KVK, Kolar participated in the programme.



### Jal Shakthi Abhiyana-2019



*Jal Shakthi Abhiyana-2019* was organized jointly by ICAR-KVK and COH, Kolar on 22.07.2019. The programme was inaugurated by Shri J. Manjunath, Deputy Commissioner, Kolar. He said that Jal Shakthi Ministry has been started for water conservation as a jan andholan programme in 256 drought prone districts. In India we are receiving south west monsoon which accounts to be 80 percent of our rainfall. So, rain water harvesting and water conservation in this period is need of the hour to conduct primary, secondary and tertiary activities. The programme was presided by Dr. B. G. Prakash, Dean, COH, Kolar. Dr. T. B. Basavaraj, ADE(S), Dr. H. K. Shivkumar, JDA,

Kolar, Sri Thulasiram, K. Senior Scientist and Head, KVK, Kolar, Dr. Nayeem Pasha, DDA, Kolar and Dr. M. Gayatri, DDH, Kolar graced the occasion. About 250 students, teaching and non-teaching staff of COH, Kolar participated in the programme.

### Method demonstration: "Raising of single eye bud turmeric seedlings in pro tray"

"Method demonstration cum group discussion on raising of single eye bud turmeric (var. Prathibha) seedlings in pro tray and application of bio-agents" was organized by HEEU and Horticulture Experiential Learning Programme of KRC College of Horticulture, Arabhavi on 17.07.2019 in the field of Sri. Ravindra Hosur, at Tungal village of Jamakhandi.

Inaugurating the programme, Dr. Nagesh Naik, Dean, KRCCH Arabhavi said that use of bio-agents such as Trichoderma, Pseudomonas and VAM before planting of Single eye bud turmeric seedlings will help to manage the diseases and also provide the nutrients to plants. Dr. Deelipkumar Masooti, Assistant Professor of Seed Science and Technology spoke on "Cultivation practices of single eye bud turmeric var. Prathibha seedlings and their advantages". Dr. Kantharaju, V., Extension Leader, Smt. Laxmidevamma, Assistant Professor (GPB), Progressive Farmers, Sri. R. N. Biradar and Sri. Venkatesh Golabhav, students of HEL and farmers of Tungal village participated in the programme.





## Sasya Santhe : A unique programme of UHS, Bagalkot

Dr. K. M. Indires, Hon'ble Vice Chancellor inaugurated the 'Sasya Santhe'- a unique programme of university' by distributing the seedlings to the farmers on 26.06.2019. He requested all the farmers to make use of facilities rendered by the university under a single umbrella. Dr. N. Basavaraja, Director of Research, Dr. Y. K. Kotikal, Director of Extension, Dr. T. B. Allolli, Registrar, Dr. H. B. Patil, Dean, COH, Bagalkot and Dr. D. R. Patil, ADR graced the occasion. KVK, Bagalkot, Karnataka State Dept. of Agriculture and Horticulture and Forest Department, Bagalkot also exhibited their products during the *Sasya Santhe*. Farmers continued to visit *Sasya Santhe* programme up to 30<sup>th</sup> June, 2019.



## Inauguration of DAESI programme at UHS, Bagalkot



Dr. K. M. Indires, Hon'ble Vice Chancellor inaugurated the DAESI (Diploma in Agril. Extension Services for Input Dealers) programme on 02.07.2019. Dr. H. Venkatesh, Director of Extension, UAS, Dharwad, Dr. Shashidhar Halagalimath, Professor and Coordinator, SAMETI (DAESI-N), UAS, Dharwad Dr. N. Basavaraja, Director of Research, Dr. Y. K. Kotikal, Director of Extension and Dr. D. R. Patil, ADR graced the occasion. Dr. M. S. Lokesh, ADE (N) briefed about the aim and guidelines of DAESI programme. Dr. Shashidhar Halagalimath delivered the orientation lecture to the trainees. Mr. Sripad Visheweshwar and Dr. Vijaymahantesh, Co-ordinators, DAESI (I Batch) facilitated the programme.

## Improved Production Technology in Jasmine

A field day and training Programme on "Improved Production Technology in Jasmine" was organized on 25.07.2019 by HEEU, COH, Munirabad at Agalkera village, Koppal. The programme was inaugurated by Dr. K. M. Indires, Hon'ble Vice Chancellor. In his inaugural speech, he mentioned about the importance of Jasmine cultivation and scope of its export value. Dr. Y. K. Kotikal, Director of Extension was the chief guest who spoke about doubling of farmers' income through integrated farming and value addition to farm produce. Dean Dr. P. M. Ganghadharappa, presided over the function. Dr. Ravi Kumar, B., Extension Leader and Scientists of COH, Koppal viz., Mr. Srinivasulu. G. B., Dr. Jagadeesha, N., Dr. Gajanana Kustagi, Dr. Itagi Prabhakar, Dr. Yogeshappa, H., Dr. Ashoka, N., delivered lectures on various aspects of improved production technology of jasmine.



## NSS Special Camp at Challahalli village



NSS Special Camp-2019 was organized by COH, Bengaluru from 18<sup>th</sup> -24<sup>th</sup> June, 2019 at Challahalli village, Bangalore North Tq. in collaboration with HEEU, Bengaluru. Dean Dr. R. C. Jagadeesha visited the camp village and gave valuable suggestions for the success of camp. Various programmes viz., Shramadana, Free medical checkup, evening cultural programmes for the farmers, landscaping near village bus stop and installation of handmade dustbins across the village were carried out during the camp.



## "Recent advances in production technology of Chilli and Garlic"

HEEU, Dharwad in collaboration with CSS-MIDH Project organized one day training programme on "Recent advances in production technology of Chilli and Garlic" at RHREC, Dharwad on 29.07.2019. Dr. K. M. Indires, Hon'ble Vice Chancellor inaugurated the function and addressed the farmers about formation of FPO on chilli, adoption of improved chilli cultivars and value addition for more profitability. Dr. N. Basavaraja, Director of Research highlighted about the technologies developed by the University on chilli and garlic. Dr. Y. K. Kotikal, Director of Extension spoke on the scope of the crops in fetching higher income to farmers. Dr. D. R. Patil, ADR, Dr. M. S. Lokesh, ADE, and Dr. Shantappa T. Head, RHREC Dharwad graced the occasion. Dr. Laxman Kukanoor, Head, HEEU, Dharwad Co-ordinated the programme.



## Training cum Interactive meet on Pomegranate



HEEU, RHREC, Bengaluru, HEEU, Arsikere in collaboration with NRCP, Solapur organized 'Training cum Interactive meet on Pomegranate' at Chuttanahalli village, Kaduru Tq., Chikmagalur district on 15.07.2019. The programme was inaugurated by Dr. K. M. Indires, Hon'ble Vice Chancellor. During the inaugural address, he highlighted the research and outreach programmes of UHS, Bagalkot. Dr. Basavaraju, Director of Research and Dr. Y. K. Kotikal, Director of Extension highlighted about the importance of pomegranate and training programme and provided solutions to the queries of farmers. Dr. Vishnavardhana, ADR, Dr. Ashish Maithri, Scientist, NRCP, Solapur, Dr. Manjunath G., Dr. Ramanagowda, Dr. Kiran Kumar K.C., Dr. Chandrasekar, Dr. Siddappa R. and Dr. Swetha, B. S., Scientists of UHS, Bagalkot delivered lectures on various aspects of pomegranate cultivation.

## Visits Abroad



**Dr. R. C. Jagadeesha**, Dean, COH, Bengaluru participated in International Conference on Vegetables-SEAVEG 2019 held at Malacca, Malaysia and visited different Horticulture Institutes and Industries at Malacca from 9<sup>th</sup> -14<sup>th</sup> July, 2019.



**Dr. S. M. Prasanna**, Assistant Professor of Soil Science & Agril. Chemistry, COH, Bagalkot participated in the 'International Training on Project Analysis' held from April 1<sup>st</sup> to June 15<sup>th</sup> 2019 at The Egyptian International Centre for Agriculture (EICA), Egypt.



**Dr. Mallikarjun Awati**, Assistant Professor of Crop Physiology, COH, Bagalkot participated in I<sup>st</sup> International course on "Climate change and drought management" from 8<sup>th</sup> -12<sup>th</sup> July, 2019 at International Agricultural Research and Training Center, Menemen, Izmir, Turkey.

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