

UNIVERSITY OF HORTICULTURAL SCIENCES, BAGALKOT


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Vice-Chancellor's Outlook....



Dr. D. L. MAHESWAR

The beginning months of new year action plan for 2018-19 witnessed several important activities like Dr. Manmohan Attavar Memorial workshop, Research and Extension Advisory and Project formulation workshops, exhibitions, melas, field days, world honey bee day and important days celebrations. Many scientists have undergone training in Israel and World Vegetable Centre, Taiwan during months under report. Meanwhile, previous year was a successful year with respect research as there were 43 new technologies and eight new varieties approved for release by the RHREA & PF committee. Our scientists have been successful in solving some of the problems encountered by farmers on various horticulture crops. But, still many problems faced by the farmers need to be addressed seriously on time bound basis. Responsible and committed actions are needed for this.

Padma Shri Dr. Manmohan Attavar Memorial workshop on “Prospects of Horticulture Seed Industry”



Padma Shri Dr. Manmohan Attavar Memorial workshop on “Prospects of Horticulture Seed Industry” was organized at Udyanagiri campus, UHS, Bagalkot on 30.04.2018. Dr. D. L. Maheswar, Hon'ble Vice Chancellor along with chief guests inaugurated the function by sowing the seeds in protray. Dr. R. C. Jagadish welcomed the guests, seed entrepreneurs, scientists, seed growers and students to the function and briefed about the importance of seed industry. Dr. V. Nachegowda gave introductory remarks highlighting importance of good quality seeds. The guest of honor Dr. G.V. Jagadish, IAHS, Bengaluru spoke about Dr. Manmohan Attavar and his contribution in development of horticulture seed industry in the country. Dr. Devaraj Achar, IAHS, Bengaluru briefed about role of biotechnology in crop improvement and overall development of seed industry. Dr. H. B Lingaiah, Director of Education released the compendium containing scientific information about all aspects of seed development and quality. In his presidential remarks, Dr. D. L. Maheswar, Hon'ble Vice Chancellor expressed his gratitude towards IAHS founder Dr. Manmohan Attavar for his legendary contribution for the development of horticulture sector in the country. He suggested the scientists to satisfy

the farmers with respect to quality seed requirement of horticulture crops. He briefed about the seed production activities of the university and asked the support of seed entrepreneurs in production of good quality seeds. Special Officer (Seeds) of all Farm Universities of Karnataka, Private seed companies, seed producers, Scientists and Post Graduate students of UHS, Bagalkot participated in the interactive sessions.

Inauguration of Computer lab and Bio-diversity Genetic Plot



Dr. D. L. Maheswar, Hon'ble Vice Chancellor, UHS, Bagalkot inaugurated the Computer Lab at College of Horticulture, Bengaluru and Biodiversity Genetic plot at Bioversity International on 09.04.2018, in presence of Dr. N. K. Krishna Kumar, Former DDG (Hort.), ICAR, New Delhi, Dr. S. B. Dandin, Former Vice-Chancellor, UHS, Bagalkot, Dr. K. Umesha, Dean, COH, Bengaluru and Dr. Ashok S. Alur, Special Officer (PPMC), Dr. M.K. Honnabyraiah, Professor of Fruit Science and Dr. V. Devappa, Professor of Plant Pathology, COH, Bengaluru. All staff and students participated in the function.

RHREA & PF Workshop (North Zone) at Bagalkot

Regional Horticultural Research and Extension Advisory and Project Formulation Workshop-2018 (Northern Region) was organized from 24th-26th April, 2018 at Udyanagiri Campus, Bagalkot. Dr. H. B. Lingaiah, Director of Education inaugurated the workshop and suggested the UHS scientists to review the available resources and budget before formulation of the new project proposal. He also suggested the scientists to initiate farmers' problem centric research experiments, doubling the farmers income by 2020 and directed UHS scientists initiate higher productivity oriented research in horticulture crops.

Dr. V. Nachegowda, 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 suggested the scientists to work on problem specific research activities to meet the farmers expectations and to initiate breeding work on orphan vegetables, leafy vegetables and flower crops and also to breed for climate resistant / tolerant crops. He also urged all the scientists to formulate external funded project proposals and submit soon for funding agencies. Progressive farmer Sri Mahadevappa Shivappa shared his experience in farming and gave feedback. Dr. K. M. Indires, Registrar, Dr. N. Basavaraja, Dean (PGS), Dr. K. N. Kattimani, Administrative Officer, Dr. M. S. Kulkarni, Dean (Students Welfare), Dr. H. B. Patil, Dean, COH, Bagalkot and Dr. D. R. Patil, ADRE graced the occasion. Totally 47 new project proposals, 26 technologies for POP and 5 varieties (Chilli- SRS-2, GPM-120-S-1, Hy-80, Fenugreek-DFC-21 and Turmeric-Suroma) were approved for release during the workshop.



RHREA & PF Workshop (Southern zone) at COH, Bengaluru

RHREA & PF Workshop for Southern zone was held at COH, Bengaluru from 3-5th May, 2017. Dr. Vishnuvardhana, ADRE, RHREC, Bengaluru welcomed all the guests, progressive farmers, scientists and department officers to the workshop. Inaugurating the workshop Dr M. S. Nataraju, Hon'ble Vice Chancellor, UAS, Bengaluru highlighted the importance of research and extension in increasing the sustainability of farmers resources and income through strengthening the lab to land programme; Importance of



extension personnel to get the feedback about the new technology interventions or problems in adoption of new technologies; Universities should revalidate the technologies on the farmers' fields. Doubling the farmers' income by 2025 being the biggest challenge, requested all farm scientific community to work with this agenda on top priority.

Dr D. P. Kumar, Emeritus Scientist and former Director of Education, UAS, Bengaluru stressed to focus the research and extension programmes on utilization of natural resources and their sustainable management, vertical and terrace gardening, nutritional security, dry land horticulture and varieties suitable for dry land horticulture, mechanization and waste water utilization in horticulture and value addition in horticulture. Dr. V. Nachegowda, Director of Research expressed the necessity for qualitative research for the betterment of the farming community and advised the young scientists to propose in-house research projects. Dr. Y. K. Kotikal, Director of Extension, Dr. K. Umesh, Dean, COH, Bengaluru, Dr. D. R. Patil, ADRE (HQ) and University Heads of all departments graced the occasion. Totally 42 new project proposals, 17 technologies for POP and 3 varieties (China aster, Jack and Tamarind) were approved for release during the workshop.

Mango and Jack : Diversity Exhibition and Mela



Two days 'Mango and Jack: Diversity Exhibition and Mela' was organized by UHS, Bagalkot in collaboration with ICAR-IIHR, Bengaluru on 28 & 29th May, 2018. Sri G. S. Goudar, Director, Karnataka State Mango Development and Marketing Corporation Ltd. inaugurated the exhibition in presence of Dr. V. Nachegowda, Director of Research, Dr. Y. K. Kotikal, Director of Extension, Dr. N. Basavaraja, Dean (PGS), Dr. M. S. Kulkarni, Dean (Students Welfare), Dr. H. B. Patil, Dean, COH, Bagalkot and Dr. D. R. Patil, ADRE, MHREC, Bagalkot. Around 120 varieties of Mango and 16 varieties of Jackfruit of indigenous and exotic types collected from different parts of the country, were displayed for the benefit of farmers, scientists, students, officers of horticulture department and public.

Cashew Field Day cum Interactive Meet

RHREC, Bengaluru in collaboration with Directorate of Cashew and Cocoa Development (DCCD), Cochin organized 'Cashew field day cum interactive meet' on 19th April, 2018 at Cashew orchard of Sri. Nagaraju at Chikkaballapura. The field day was organized primarily to create awareness among the farmers on improved cultivation practices, marketing and processing of cashew. Dr. S. V. Patil, Professor, RHREC, Bengaluru welcomed the gathering. Dr. Venkatesh N. Hubballi, Director, DCCD, Cochin



inaugurated the field day in presence of Dr. Gangadhara Naik, Director, Directorate of Cashew Research, Puttur, Dr. J. Venkatesh, Emeritus Scientist & Former Director of Education, UHS, Bagalkot, Dr. B. S. Kulkarni, Dean and Campus Head (I/c), COH, Bengaluru and Sri. Nagaraju, Progressive farmer, Chikkaballapura district. Dr. Vishnuvardhana, ADRE presided over the function. Scientists of RHREC, Bengaluru viz., Dr. T. H. Shankarappa, Dr. Anil Kumar, S., Dr. G. K. Ramegowda, Dr. Mamathalakshmi, N., Dr. Swetha, B. S. and Mr. Nagaraja, G coordinated the field day. Dr. G. K. Ramegowda proposed the vote thanks. After the inaugural session, 'Farmers-Scientists interaction session' was arranged. The discussion was held on cashew improved cultivation practices, soil and water conservation practices, nutrition plant protection and marketing and extension activities. A field visit was arranged to demonstrate planting methods, training, pruning, nutrition, disease and pest management focusing especially on T-mosquito, canopy management, soil and water conservation methods. During the occasion, an exhibition was arranged to display different nuts of cashew varieties, grades of cashew kernels, different types of fertilizers, disease specimens of T-mosquito and stem borer along with charts depicting the information on cashew cultivation practices. More than 150 cashew growing farmers from Kolar, Chikkaballapura, Tumkur and Bengaluru rural districts participated in cashew field day.

World Honey Bee day celebration at COH, Sirsi



College of Horticulture, Sirsi and HEEU, Sirsi jointly organized 'World Honey bee Day on 20.05.2018. Dr. V. I. Benagi, Vice Chancellor, UAS, Dharwad inaugurated the function. Sri S. L. Yogish, District Development Manager, NABARD, Karwar, Smt. Chaya N. Rajappa, Nector Fresh Pure Honey and Food Products, Mandya, Dr. Bhargava, H. R., Annapurneshwari Naturals, Bengaluru, Sri Ashok Meda, Bengaluru, Sri Shashikanth Kotimani, Deputy Director of Horticulture, Sirsi and Sri Madhukeshwara Hegde, Progressive Bee keeper, Sirsi graced the inaugural function. Dr. D. L. Maheswar, Hon'ble Vice Chancellor, UHS, Bagalkot presided over the function. Dr. J. B. Gopali, Professor of Entomology spoke on importance of World honey bee day celebration on eve of birth anniversary of Sri Anton Jansa, Father of Modern Apiculture. Dr. V. I. Benagi narrated the history of apiculture in India and importance of honey in medical field. He also said that role of honey bees in enhancing the productivity of horticulture crops through pollination. In his presidential remarks, Dr. D. L. Maheswar opined that even though bee rearing is an integral part of successful agriculture, farmers are not adopting in their farm. The programme is aimed to create awareness among the farmers. During the function, 'Honey bee Producers' Organization' and National Bee Board sponsored 'Honey Quality Testing Laboratory' were inaugurated. 'Madhu Mithra App' and book on 'Jenu Krishi' were also released during the occasion. Dr. Raghunath R., Dr. Pushpa and Dr. Shivananad Hongal co-ordinated the programme.

World Honey Bee day celebration at COH, Bengaluru



World Honey Bee day-2018 was organized at COH, Bengaluru. Mr. Sachin Hiremath, Jr. M.Sc. student welcomed all the guests. Dr. Gangadhar Narabench, Head, Dept. of Entomology delivered the introductory talk on World Honey Bee Day by emphasizing on significance of the celebrating World Honey Bee day on 20th May. Shri. Lakshmegouda, Progressive Bee Keeper presented a talk on "Bee Keeping, a potential component in Integrated Farming System". Dr. K.T. Vijayakumar, Head, AICRP on Honey bees, UAS, GKVK, Bengaluru delivered a lecture on "Causes for bee decline and measures to be taken for protecting them" wherein he elaborated the impact of pesticide poisoning of bees and possible methods of avoiding such incidents. Dr. K. Umesha, Dean, COH, Bengaluru presided over the function. Ms. Bharathi Bongale, Asst. Comptroller, COH, Bengaluru presented a poem on honey bees. Dr. G. K. Ramegowda, Assistant Professor of Entomology delivered vote of thanks.

World Honey Bee day celebration at COH, Mysuru



The Department of Entomology and HEEU, College of Horticulture, Mysuru in collaboration with National Bee Board (funded project on 'Development of nucleus stock of Indian bee, *Apis cerana* for promotion of bee keeping in Mysuru District') organized 'World Honey Bee Day -2018' on 31.05.2018. Dr. Tanveer Ahmed, Extension Leader in his introductory remarks highlighted the importance of World Bee Day. Dr. Janadhan, G. Dean, COH, Mysuru shared his views on Honey Bees. Dr. Mutthuraju G. P., Asst. Professor of Entomology delivered the lecture on "Importance of Bees and Honey Bees" to create awareness about the importance of bees in Agri-Horti-Forest ecosystems. An exhibition was also arranged about the bee keeping. Smt. Shaila, Teacher, Govt. High School, Yelalwala extended the vote of thanks. The programme was witnessed by Dr. Prasad Kumar, Professor & Head, Department of Entomology, Dr. Aravinda Kumar, J. S., Dr. Mangala K. P. and Dr. Yathindra, H. A. During the programme, participants enjoyed the taste of honey flavoured milk.

World Honey Bee Day celebration at HREC, Vijayapura



World Honey Bee Day was organized by HEEU, Vijayapur on 20th May 2018. The programme was inaugurated by Dr. D. A. Peerajade, Campus Head and Sri Annaray Bhimaraya Neraki, Progressive farmer of Tidagundi village by watering the sapling. In his inaugural speech, Dr. D. A. Peerajade said about the importance of honey bee in the horticulture and agriculture crops. Dr. A. M. Nadaf, Assistant Professor of Entomology explained about bee rearing, life cycle of honey bee, working nature and increasing the productivity of agriculture and horticulture crops. Mr. Siddanna Thoke, Extension Leader anchored the programme.

World Honey Bee Day Celebration at Bagalkot



World Honey Bee Day was organised jointly by HEEU, Directorate of Extension and Department of Entomology, College of Horticulture, Bagalkot on 20.05.2018 at Fruit orchard, Sector No. 70, UHS, Bagalkot involving bee keepers, horticulture farmers interested to take up apiary in the coming days, teachers, scientists and students undergoing diploma, graduate and post graduate degree programmes. The Honey Bee Day was flagged off by Shree Rama Honnappa Marate and Shree Ramachandra G. Bhat Progressive Beekeepers from Yellapura by offering honey to bee box as tradition.

The Honey Bee day was flamboyantly supported by Dr. Satish Pattepur, Asst. Professor of Fruit Science, Dr. B. Venkateshalu, Professor and Head, Department of Entomology, Dr. Vinaykumar, M. M., Dr. Ramanagouda S. H. and Dr. M. A. Waseem, Entomologists served as experts with great technical sagacity by delivering neoteric topics and also by involving in the discussions and planning future course of Honey Bee promotional activities and programmes. Dr. B. Venkateshalu presided over the function and elaborated the theme of world honey bee day celebration and shared many beekeeping techniques with students and farmers. In all, around 50 participants participated and learnt nouveau bee keeping science and programmes of state and central government in taking up Bee Keeping on their farms and backyards.

World Honey Bee Day Celebrated at Dharwad

At RHREC, Dharwad in HEEU, UHS, Dharwad and Department of Horticulture, Dharwad jointly celebrated World Honey Bee Day on 20.05.2018. Dr. R. K. Naik, Head, RHREC, Dharwad inaugurated the function and explained about the importance of honey bees in relation to human life, their role in agriculture, what would happen if they become extinct and also gave information on the financial assistance available in the department for bee keeping for farmers. Dr. Suvarna Patil, Extension Leader explained in detail about the life cycle of honey bees, their different castes, types of bees, their foraging nature, their division of labour etc. and also mentioned about the importance of honeybees in cross pollination which ultimately has significance in improving the yield and quality of fruit. More than 50 bee keeping farmers actively participated in the interaction session with the scientists.



Method demonstration: Raised bed maker cum planter in Potato



Method demonstration on Raised bed maker cum planter in Potato was organized at Horticulture Research and Extension Centre, Hassan in collaboration with ETC, Hassan on 10.04.2018. Dr. H. Amarananjundeswara, Assistant Professor & Head, HREC, Hassan, Dr. Prasad P. S., Asst. Professor of Plant Pathology, Mrs. Soumya Shetty, Technical Assistant and Ms. Sandhya G. C. Technical Assistant were present during the occasion. More than 30 farmers participated in the event.

Training cum field visit on “Integrated Farming System”

One day training cum field visit on “Integrated Farming System” was held on 28.05.2018 at the fields of progressive farmer Sri Sannayamunappa Rajapur, Pamaldinni village, Gokak Tq. for 25 beneficiary farmers of Madawal village, Gokak Tq. under the project entitled “Enhancing Income and Welfare of Farmers” sponsored by Karnataka Agriculture Price Commission, Bengaluru. Dr. Kanthraju V. Associate Professor and Extension Leader, HEEU, Arabhavi coordinated the field visit.



Training Programme: Water use efficiency in Horticulture crops



One day training programme on 'Water use efficiency in Horticulture crops' was organized at HREC, Vijayapura in collaboration with ATMA, Agriculture Department, Vijayapura on 13.04.2018. The programme was inaugurated by Dr. S. I. Hanamashetti, Dean (Rtd.), UHS, Bagalkot and addressed the farmers on water management. Dr. Jagadish Mayakonda, C.E.O., EXZA Green Solutions, Bengaluru explained the deep drip irrigation system and its application in managing the water requirement by the plants and also water purification in horticulture crops. Mr. Siddanna Thoke explained about water saving techniques in horticulture crops. Dr. M. B. Pattanashetti,

ATMA, Vijayapura, Dr. D. A. Peerjade and Dr. A. M. Nadaf were present during the programme.

Celebration of Anti-Terrorism Day at UHS, Bagalkot

Anti-Terrorism Day was organized by Directorate of Students Welfare, UHS, Bagalkot on 21.05.2018. Dr. M. S. Kulkarni, Dean (Students Welfare) proposed oath on Anti-Terrorism Day. Dr. H. B. Lingaiah, Director of Education, Dr. V. Nachegowda, Director of Research, Dr. Y. K. Kotikal, Director of Extension, Dr. N. Basavaraja, Dean (PGS), Dr. K. N. Kattimani, Administrative Officer, Dr. H. B. Patil, Dean, COH, Bagalkot and all the Teaching, Non-teaching staff and students took oath on Anti-Terrorism Day.



Celebrations



Ambedkar Jayanthi at COH, Kolar



Ambedkar Jayanthi at COH, Bengaluru



Ambedkar Jayanthi at COH, Mysuru



Labourers Day at COH, Mysuru



Labourers Day at COH, Bengaluru



Basaveshwara Jayanthi at COH, Bengaluru

Visits Abroad

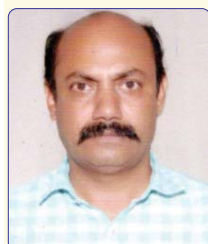


Dr. K. M. Indires, Registrar and **Dr. N. Basavaraja**, Dean (Post Graduate Studies), UHS, Bagalkot along with Ph. D. students of Vegetable Science viz., Ms. Kavita Pujari, Ms. Deepa A. Holer, Ms. Swetha A., Ms. Patil Supriya Suresh, Mr. Prashant R. N. and Mr. Thilak J. C. have attended International study tour cum training programme on "Advances in vegetable breeding techniques" from 30th April 2018 to 10th May 2018 at World Vegetable Centre (formerly AVRDC), Taiwan. During the period of stay, Dr. N. Basavaraja and Dr. K. M. Indires delivered lecture on

'Future vegetables for health and sustainability' and 'Academic excellence at UHS, Bagalkot' respectively on 08.05.2018.



Dr. B. V. Champa, Assistant Professor of FLA, COH, Bagalkot participated in the International R&D course on "Seed production and treatments for field and vegetable crops" from 29th April to 11th May, 2018 at Volcani Centre, Tel Aviv, Israel.



Dr. Manjunatha Reddy T. B., Assistant Professor of Plant Pathology, COH, Kolar attended the International R&D course on "Seed production and treatments for field and vegetable crops" from 29th April to 11th May, 2018 at Tel Aviv, Israel.



Dr. B. Doddabasappa, Assistant Professor of Entomology, COH, Kolar participated in 20 days MASHAV International R&D course on "Integrated Pest Management" held from 4th-23rd March, 2018 at Volcani Agricultural Complex, Tel Aviv, Israel.



Dr. Anita Ghandhe, Asst. Professor of Nano-Technology, COH, Bagalkot attended International Training Programme on "Clean Technologies – Environmental technology, innovation and management systems as a means for regional and local economic development" from 22nd April, 2018 to

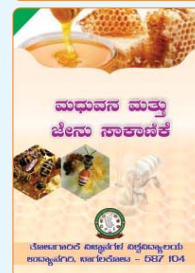
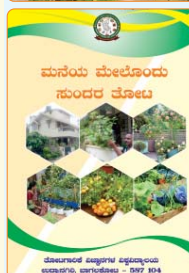
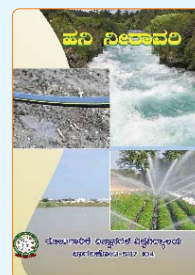
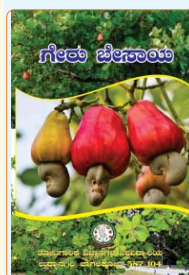
16th May, 2018 held at Rehovot, Israel.

Awards



Mr. Sanjeev Jakatimath, Ph. D. Scholar, Dept. of Plant Pathology, COH, Bagalkot got 'Best Research Scholar Award' at 3rd International conference on quality enhancement in academic research organized by Indian Academic Researchers Association (IARA), Trichy, on 21.04.2018.

New Publications



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