



CPCRI

News



Views and News on Advances in Coconut, Arecanut and Cocoa

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INSIDE



Hon'ble
Chief Minister
of Assam visited
exhibition stall ...



Dr. S. Ayyappan,
Hon'ble DG, ICAR
visited CPCRI stall
at Krishi Vasant...



Shri Mohammed
Sagir, IAS,
District Collector,
Kasaragod took
part in Honey Fest...



Dr. S. Dixit,
Zonal Project
Director visited
demonstration
village...

Inauguration of Bioinoculant Laboratory

Dr. S. Ayyappan, Honourable Secretary, DARE & DG, ICAR, New Delhi inaugurated the Bioinoculant Laboratory building of CPCRI, Kasaragod on 08-03-2014 in the presence of Dr. N.K. Krishna Kumar, Hon'ble DDG (Horticulture). ICAR, New Delhi. During the function, Dr. S. Ayyappan released two PGPR based bioinoculants, 'Kera Probio', a talc formulation of *Bacillus megaterium* effective for raising robust coconut seedlings and 'Cocoa Probio', containing *Pseudomonas putida* effective for raising healthy cocoa seedlings, developed by CPCRI for farmers, which were the output of ICAR funded network project on



Dr. S. Ayyappan, Director General, ICAR New Delhi inaugurating the bio-inoculant laboratory at CPCRI, Kasaragod.
Dr. N.K. Krishna Kumar, DDG (Hort.),
Dr. George V. Thomas, Director, CPCRI and
Dr. A. Gopalakrishnan, Director, CMFRI are seen

Application of Microorganisms in Agriculture and Allied Sectors (AMAAS).

Following this, Dr. N.K. Krishna Kumar released the draft genome sequence of coconut, cocoa and arecanut plant growth



Hon'ble DG addressing the gathering at CPCRI, Kasaragod

promoting rhizobacteria, an outcome of public-private partnership between CPCRI and SciGenom Lab Pvt. Ltd. Kochi. The draft genome sequences have been deposited with European Bioinformatics Institute (EBI).

Dr. S. Ayyappan also addressed the staff and farmers after the inauguration of the Bioinoculant Laboratory. Collection of 'Kalparasa' from the coconut inflorescence was demonstrated to the Hon'ble DG during the occasion. Dr. N.K. Krishna Kumar, DDG (Hort.) reviewed the ongoing research activities at the Institute and suggested points for improvement.

Kisan Mela Organized at CPCRI, RC, Kahikuchi

CPCRI, Research Centre, Kahikuchi in collaboration with Horticulture Mission for North East and Himalayan States organised Kisan Mela on 21-02-2014 at its Kahikuchi, Guwahati campus. Dr. S.V. Ngachan, Director, ICAR Research complex for NEH Region was the chief guest. In his inaugural address, Dr. Ngachan emphasized the need for popularizing integrated farming and cropping system approach to raise the output



Inauguration of Kisan Mela and release of technical bulletin during Kisan Mela at CPCRI, RC, Kahikuchi

CPCRI is ISO certified

The management system of CPCRI has been certified with ISO 9001:2008 standard for harnessing science and technology to enhance competitiveness in coconut, arecanut and cocoa through generation of appropriate technologies. The certificate was issued on 25-02-2014 and shall be valid for two years.



from unit area of land under coconut and arecanut. He also stressed the need to promote value addition of these crops for diversified uses in the North Eastern region of the country.

Dr. George V. Thomas, Director CPCRI, Kasaragod presided over the function. He briefed the activities of the Centre, research priorities, and technologies developed by CPCRI. Dr. Dilip Kumar Sarma, Director, NRC on Pig; Shri S. Bhattacharjee, Executive Director, NERAMAC; and Sri Rajeev P. George, Director, Coconut Development Board, East and

North East Region, Guwahati offered felicitations. More than 500 farmers from various parts of Assam attended the programme.

Extension publications on "Scientific cultivation of arecanut in Assam" (English and Assamese) and "Achievements & activities of CPCRI RC Kahikuchi" (English and Assamese) were released. Three farmers were honoured for their achievements on adoption of coconut/ arecanut based technology. Field visits and scientist-farmer interface programmes were conducted as part of Kisan Mela.

QRT visits

Quinquennial Review Team under the Chairmanship of Dr. S.P. Ghosh (Former DDG (Hort.), ICAR) reviewed the work done at CPCRI and AICRP on palms during the period 2008-2014 and suggested the future thrust areas in research of





A view of the meeting of the QRT with IMC held at Kasaragod

mandate crops. The report has been submitted to the Director General, ICAR for its consideration. The following were the members

- ❖ Dr. V.A. Parthasarathy, Former Director, IISR, Calicut
- ❖ Dr. R.D. Rawal, Former HOD, IIHR, Bangalore
- ❖ Dr. T.P. Rajendran, Former ADG (PP), ICAR, New Delhi
- ❖ Dr. D.M. Hegde, Former Director, DOR, Hyderabad
- ❖ Dr. K.B. Hebbar, HOD PB&PHT, CPCRI, Kasaragod, Member Secretary

Altogether 18 meetings of the Quinquennial Review Team (QRT) were held. QRT also had separate meetings with technical staff, supporting staff, administration and accounts staff and Institute Joint Staff Council (IJSC). At the end of the review before finalizing the report the QRT team had an interactive meeting with Institute Management Committee (IMC).

IMC meeting

The IMC meetings were held on 26-03-2014 at CPCRI Kasaragod, in which important decisions on research and development of the Institute were deliberated.



Dr. S. Edison, Former Director CTCRI and Chairman, RAC addressing scientists

The 7th meeting of the XII IJSC was held on 30-01-2014 at CPCRI, Kasaragod under the chairmanship of Dr. George V. Thomas, Director.

RAC Meeting

The RAC meeting of the Institute was held on 4th February 2014, followed by a field visit on 5th February 2014. Dr. S. Edison, Former Director, CTCRI, Thiruvananthapuram was the chairman, RAC. Dr. Subhash, Professor & Head, Tissue Culture Division, Anand Agricultural University, Dr. V.S. Korikantimath, Former Director, ICAR Res. Complex for Goa, Dr. T.M. Manjunath, Consultant in

Integrated Pest Management & Agri-biotechnology, Dr. Brahma Singh, Advisor, World Noni Research Foundation, Dr. S. Arulraj, Director, Directorate of Oil Palm Research, Dr. S.K. Malhotra, Assistant Director General (Hort.II) were the members present during the meeting. Dr. Anitha Karun, Head, Crop Improvement, CPCRI was the Member Secretary.

Dr. George V. Thomas, Director, CPCRI welcomed the chairman and members of the RAC and presented the activities and salient achievements of the Institute during 2013-14. The RAC reviewed the progress of research programmes and offered suggestions. Recommendations of the RAC were incorporated in the ongoing projects.

IRC Meeting

IRC meeting was held from 24th to 28th February 2014 at CPCRI, Kasaragod under the chairmanship



Members of RAC during laboratory visit at CPCRI, Kasaragod



Dr. George V. Thomas, Director, CPCRI chairing the plenary session of IRC, while Shri Sugata Ghose shared his opinion as chief guest and Dr. K. Subaharan, Member Secretary is also seen on the dias

of Dr. George V. Thomas, Director. Project leaders presented the progress of research under the respective research projects. Based on discussions and recommendations of this 42nd IRC meeting, technical programme for the year 2014-15 was formulated. Shri Sugata Ghose, Chief Coconut Development Officer, Coconut Development Board, Kochi, was the chief guest for the plenary session on 28-2-2014, with participation of farmer representatives, development agencies and State Department of Agriculture the recommendations were prepared in the final form.

PMEC Meeting

PMEC meeting was held for project evaluation during 30-31 January 2014. Dr. M.G. Bhat, Former Director, DCR, Puttur was the external expert for conducting evaluation. All the ongoing projects including externally funded projects were evaluated during this exercise.



Dr. George V. Thomas, Director addressing the farmers during the coconut interface programme

Interface on Advances in Coconut Farming

A "Face to Face" programme on "Advances in coconut farming" organized at this Regional Station on 22-01-2014 Prasara Bharati, Doordarshan Kendra, Thiruvananthapuram. The programme was recorded live and telecast at Krishi Darshan programme during January 27-30, 2014 at 18.00 hrs. Scientists from the CPCRI, RS, Kayamkulam under the leadership of Dr. George V. Thomas, Director participated in the programme which was anchored by Sri Sreekantan Thampi, Deputy Director, Spices Board. The programme included brief presentation on recent scenario in coconut varieties, nutrition, intercropping, integrated pest and disease management and value addition by expert scientists from the Institute.

Farmer's Workshop at Mohitnagar

A workshop on "Scientific cultivation of arecanut, coconut and plan-

tation based cropping system for better livelihood" was organized from 18-20th February, 2014 at CPCRI, RC, Mohitnagar. Dr. George V. Thomas, Director, CPCRI, Dr. Ravi Bhat, Head, Div. Crop Production, CPCRI and experts in the field of cropping systems and agriculture shared their knowledge with the farming community. More than 150 participants including tea growers and arecanut growers from different parts of North Bengal participated.

Hindi Workshop

Organized one day's "Hindi Workshop" on 18-02-2014 which was inaugurated by Dr. K.S. Ananda, Head of the Station in presence of Smt. Malathi Bhat, Asst. Director, Official Language Implementation Committee, Akashavani, Mangalore and Smt. Jayalakshmi, Asst. Director, OLIC, BSNL, Mangalore. Employees of this Station as well as from member organizations of TOLIC have par-



Dr. George V. Thomas, Director, CPCRI inaugurating the workshop at RC, Mohitnagar



Dr. George V. Thomas, Director, CPCRI addressing the participants of the workshop

ticipated. Smt. Malathi Bhat and Smt. Jayalakshmi took classes on Unicode, its installation and usage and Rules/amendments of Rajbhasha Vibhag, grammar and usage of Hindi in day-to-day administration.

Business Planning and Development

BPD Unit, CPCRI organized Entrepreneurship Development programme on 03-03-2014 and 04-03-2014 in "Food quality regulations and marketing" which was attended by 25 participants representing 22 registered incubatees of the Unit. M/s Synergy Systems, Kochi, conducted technical session on food quality



Transferring of coconut shell powder technology to Shri Mohammed Sinan K.S. of Adhur, Kerala

standards. Towards creating awareness on technologies and business opportunities in the coconut sector, technology awareness camps were conducted at Thiruvananthapuram on 07-02-2014 and at Goa (in collaboration with ICAR Research Complex for Goa) on 20-03-2014.

RESEARCH HIGHLIGHTS

Genetic Resources

Survey and prospection for coconut germplasm was undertaken from Tripura, Kerala and Lakshadweep Islands. In Tripura, the main coconut growing districts in Tripura and the erstwhile South and West Districts were surveyed and three accessions were collected for conservations.



A fruits of soft endosperm coconut collected in Kerala



A coconut garden in Gomati district of South Tripura

A targeted germplasm collection exploration was undertaken in Kozhikode district on intimation about the occurrence of soft

endosperm coconut palms. Mother palms and their progenies were found to produce nuts having soft endosperm. Nuts



Comparison of nut water from normal and soft endosperm nut from the same palm.

were collected and provided for embryo culture. The analysis of kernel indicated that the kernel is with lesser fibre, lesser oil and having very less sweetness. The tender nut water from soft kernel nuts is more viscous with suspended kernel cells having more TSS.

Exploration conducted in Minicoy island for diverse dwarf coconut types having compact crown revealed two variant types among Laccadive Green Dwarf (LGD). Nuts of Laccadive Green dwarf with round fruits, early flowering trait and thin stem was collected for further conservation at the national gene bank at Kasaragod.

A survey was conducted in Chavakkad and Thrissur area in Thrissur district to identify COD



Botanical cake for the management of rhinoceros beetle

and CGD palms for in situ characterization. Chittur and Mannarkad area in Palakkad district were explored to locate ecotypes in coconut and Meenakshipuram area in Chittur has been identified for further exploration.

Botanical cake for the management of rhinoceros beetle

A wedge shaped cake with botanical extracts of *Clerodendron infortunatum*, *Eupatorium* sp. and *Citronella* sp. mixed with sand was developed for the prophylactic leaf axil filling against feeding damage caused by rhinoceros beetle, *Oryctes rhinoceros*. Placement of two cakes on the top most two leaf axils on juvenile palms reduced leaf damage by rhinoceros beetle to the tune of 30-40%. This technique was found superior than leaf axil filling of chlorantriniliprole (6 g) admixed with 250 g sand under field

condition.

Association of phytoplasma in the weed, *Pedaliu murex* Linn. in coconut ecosystem of Onattukara region of Kerala

Random occurrence of phyllody in *Pedaliu murex* Linn. was observed in the weed commonly prevalent in coconut ecosystem of Onnattukara region of Kerala. Typical transformation of floral structures into vegetative parts was recorded. Molecular detection of *P. murex* with characteristic phyllody symptoms using universal primers P1/P7 nested with R16F2n/R16R2 revealed amplification for phytoplasma at 1250 bp level. Nucleotide sequence of the amplicon (Genbank accession number: KJ584566) showed 99% homology with *sesamum* phyllody phytoplasma. This is the first report of molecular characterization of phytoplasma associated with *P. murex* from

India. Identification of insect vectors associated with transmission is in progress.

AWARD

Dr. Jeena Mathew, Scientist (Soil Science) got the best poster award under the theme Science and Society for the poster entitled “

Development of Decision support System for Soil Test Based nutrient Recommendation in Coconut” at the 26th Kerala Science Congress held at Wayanad during 28th to 31st January 2014.

Dr. K. Subaharan, Sr. Scientist (Ag. Entomology) was conferred with

best oral presentation award for the paper entitled “Nanomatrix for delivering semiochemicals of red palm weevil” in the National Symposium on Emerging Trends in Pest Management held at TNAU Coimbatore during 22-24 January, 2014.

PUBLICATIONS

Research papers

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Chakrabarty, R., Acharya, G.C., and Sarma, T.C. 2013. Management of basal stem rot of arecanut (*Areca catechu* L.) under Assam condition. *The Bioscan* **8**(4): 1291-1294.

Thamban, C., Mathew, A.C., Subramanian, P., and Muralidharan, K. 2014. Soil and water conservation measures for sustainable coconut production: Impact of interventions under Farmers Participatory Action Research Programme. *J. Plantation Crops* **42**(1): 94-100.

Presentations in Conferences/Symposia/Seminars

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resource conservation by cryopreservation at Brainstorming meeting and training cum Demonstration on Cryopreservation and in vitro conservation in Horticulture crops on 21st February 2014 at IIHR, Bangalore. pp 11.

Hebbar, K.B., Arivalagan, M., Mathew, A.C., and George V. Thomas. 2013. Coconut Palm Sugar: Present status and future prospective for Indian sugar industries. *In: Proc. International Conclave on Sugar Crops*, 15-17 February, 2014, IISR, Lucknow. India. pp. 87-90.

Kesavan Subaharan, M. Eswarmoorthy, B.V.V.S. Pavan Kumar, Vibina Venugopal, K. Rajamanickam, S. Ganesan, T. Srinivasan, N.B.V. Chalapathi Rao, and Sanjeev Gurav. 2014. Nanomatrix for delivery of semiochemicals of coconut red palm weevil, *Rhychophorus ferrugineus*. *In: National*

Symposium on Emerging Trends in Pest Management, TNAU Coimbatore, 22-24 January, 2014. pp 42.

Manoj P. Samuel, S. Senthilvel and A.C. Mathew. 2013. Performance evaluation of a dual flow recharge filter for improving groundwater quality. *In: National Symposium on Climate Change and Indian Agriculture; Slicing Down the Uncertainties*, 22-23 January, 2013, CRIDA, Hyderabad. pp. 134.

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Prathibha, P.S, Subaharan, K., Kumar, A.R.V. 2013. Toxicity of

- newer insecticide molecules on palm white grub, *Leucopholis coneophora* Blanch. In: New Horizons in Insect Science (Abstract of papers) 4th International Conference on Insect Science 14-17 February, 2013. pp.114.
- Popular article**
- Acharya, G.C and Rabha, H. 2014. Coconut cultivation-Source of economic development of farming community of North East (in Assamese):. Ankur (January 2014) Assam State Nurserymen Association, pp 43-48.
- Josephraj Kumar, A., Merin Babu and Krishnakumar, V. 2014. A family which farms together stays together (Cover story International Year of family farming). *Kerala Karshakan e-journal* 1(8): 4-11.
- Josephraj Kumar, A. and Chandrika Mohan. 2014. Beware of pests (Agro-clinic) *Kerala Karshakan e-journal* 1(9): 25-33.
- Manojkumar, T. S., Leena, S. and Jayashree, M.P. 2014. Success Story of Women FoCTs at KVK, Kasaragod. *Indian Coconut J.* 56(8): pp 12-13.
- Nihad, K. and Krishnakumar, V. 2014. Integrated nutrient management. *Kerala Karshakan (E-Journal)*. 1(9): 36-37.
- Shareefa, M. and Thomas, R.J. 2014. Dwarf coconut varieties – Seed to seedling (Malayalam) *Kerala Karshakan* February Issue: 20-22.
- Shareefa, M. and Thomas, R. J. 2014. The journey of a seed: Seed nut collection and nursery management. *Kerala Karshakan (E-Journal)*. 1 (9): 20-24.
- Thamban, C., Jayasekhar, S., Chandran, K. P. and Muralidhran, K. 2014. Evolving tender coconut sector in Kerala: Need for upgradation in the value chain. *Indian Coconut J.* 56 (9): 16-21
- Thamban, C., Jayasekhar, S., Chandran, K. P. and Muralidhran, K. 2014. Ilaneer vipananavum moolya srinkhalayum Keralathil (in Malayalam). *Indian Nalikera J.* 5 (1): 16-18.
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- Extension folder**
- Acharya, G.C., Chowdhury, B. and Das, N.C. 2014. Achievements and activities (English). Extension folder no 223.
- Acharya, G.C., Chowdhury, B. and Das, N.C. 2014. Achievements and activities (English). Extension folder no 223.
- Manojkumar, T. S., Sanalkumar, R. and Jayashree, M.P. 2014. Mushroom cultivation. KVK, Kasaragod (in Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Komban chelli samyojitha keeta niyanthranam. Extension folder No. 216 (In Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Chemban chelli samyojitha keeta niyanthranam. Extension folder No. 217 (In Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Thengolappuzhu samyojitha keeta niyanthranam. Extension folder No. 218 (In Malayalam).
- Prathibha, P.S., Subaharan, K. and Rajkumar 2014. Mandari-samyojitha keeta niyanthranam. Extension folder No. 219 (In Malayalam).
- Book**
- George V. Thomas, D. Jaganathan, Nagaraja, N. R., K. S. Ananda, Ravi Bhat, Vinayaka Hegde, Rajkumar, K. B. Hebbar and C. Thamban 2014. Research-Farmer-Extension interface on coconut and arecanut - An effective strategy for bridging

the knowledge gap, CPCRI, Kasaragod, 69 p.

Book Chapter

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tyindia.com. Foretell Business Solutions Pvt Ltd. Bangalore. pp 63-66.

Technical bulletin

Acharya, G.C., Subramanian, P. and Shil Sandip 2014. Scientific cultivation of arecanut in Assam (English). Technical bulletin No. 83. 20 p.

Acharya, G.C., Bora Debajit. and Kolita Balen 2014. Scientific cultivation of arecanut in Assam (Assamese). Technical bulletin no 84. 20 p.

George V. Thomas, and Thamban, C. 2013. Thengu krishi reethikal (Malayalam). Technical bulletin No. 77. Central Plantation Crops Research Institute, Kasaragod. 31p.

TRANSFER OF TECHNOLOGY

Training Programme

A training cum awareness programme on PPV & FRA conducted at CPCRI, RC, Kidu on 25-03-2014 in which topic such as PPV&FR Act, 2001 & Farmers Rights, DUS testing in coconut, arecanut, cocoa, cashew, rice, spices, fruit crops and medicinal plants and endangered species of western ghats were highlighted. More than 140 participants from the locality got benefitted from the programme.

Training Programmes on various aspects of production and processing technologies of coconut were conducted during the year in collaboration with ATMA and other agencies at CPCRI, Kasaragod as per the following details.

A group of 50 farmers, from Cherthala were trained on advances in pest management techniques in coconut at the Regional Station, Kayamkulam on



Participants of the training programme on production and processing technologies of coconut

17.2.2014. They were exposed to various symptomologies, correct identification of pest damage and innovations in management tools. Hands on training were imparted on the mass production of *M. anisopliae* with emphasis on the farm-level production technologies and field delivery mechanisms.

Farm level GMF multiplication unit started at Bharanikkavu panchayath, Alappuzha district for

enabling access for rhinoceros beetle bio-control critical input and awareness. The women group members were provided skill up gradation training on 8-10-2013 at CPCRI, Kayamkulam.

Training programme on Coconut based integrated farming was organized at CPCRI, Kasaragod in collaboration with ATMA on 30.01.2014 in which 21 farmers and six extension personnel from Kotta

Date/s	Collaborating agency	Participants
06.01.14	Krishi Bhavan, Chengalayi	40 farmers from Chengalayi Grama Panchayat
06.01.14	ATMA, Kasaragod	39 farmers from Mangalpady Grama Panchayat
07.01.14	Hort. Dept. Karnataka	30 Officers from Karnataka Hort. Dept.
31.01.2014	ATMA Kannur	28 farmers from Ramanthaly panchayat
06.03.2014 to 07.03.2014	ATMA Malappuram	25 farmers from Tanur block
14.03.14 to 15.03.14	Velliangiri Uzhavan Producer Company, Coimbatore	28 farmers from Coimbatore
17.03.14 to 18.03.14	--do--	26 farmers from Coimbatore
19.03.2014	ATMA Palakkad	45 farmers from Palakkad district
20.03.14	Dept. of Agrl. Kasaragod	60 farmers from Kumbadaje village
21.03.14	Dharmasthala Grama Abhivridhi Yojana	40 farmers from Kumbala, Kasaragod

-yam district and on 05-03-2014 in which 23 farmers and five extension personnel from Idukky district attended.

An awareness programme on 'Coconut for health, nutrition and livelihood' with emphasis on coconut value addition techniques on 03-01-2014 at Chavara Grama Panchayath, Kollam district. The programme was inaugurated by Kollam District panchayath Vice President and attended by several people's representatives. 117 women farmers participated and in the programme a CD on publications 'Beneficial effects of coconut oil' compiled by Anithakumari P. and S. Thajudin was released along with the 'Training manual' in Malayalam

Off campus training programme

An off campus training programme

on Product diversification in coconut was conducted at Udayapuram in Kasaragod district in collaboration with Gramalakshmy farmers club on 27.01.2014 in which 50 farmers participated.

Two training programmes on "Friends of Coconut Tree (FOCT)" each were conducted during 27th Jan. -1st Feb. 2014 and 17th -22nd March, 2014 at CPCRI RC, Mohitnagar. The training programme was sponsored by CDB, State Centre Kolkata in which a total of 40 participants were benefitted.

Area-wide community approach for IPM of coconut

Eight awareness cum interaction programmes attended by more than 350 participatory members were organized in Bharanikavu panchayat and all stakeholders



Friends of coconut training programme at Mohitnagar

were sensitized on the early detection of red palm weevil infestation in the field along with digitizing the geographical positioning system. Lead sessions were conducted by Dr. P. Anithakumari, Principal Scientist and Principal Investigator of the project. Intensive alertness about the fatal nature of the concealed tissue borer was delivered to the scouting team in the panchayat. Women groups were sensitized on the systematic random surveillance surveys and methodical documentation pertaining to red

palm weevil infestation and digital mapping. In addition, awareness related to palm health management and integrated management of rhinoceros beetle was also highlighted in various on-farm

programmes.

Exhibitions

During the quarter, CPCRI participated in exhibitions conducted by different agencies in various parts of the country. The

details are summarized below.

RC, Kahikuchi participated in the 1st Assam International Agri-Horticultural show-2014 during 8th to 11th January 2014 at College of Veterinary Science Playground,

Exhibition	Organizing agency	Venue	Date
Kasaragod Fest	Malayala Manorama	Kasaragod	15 -19 Jan. 2014
26 th Kerala Science Congress National Science Exhibition	Kerala State Council for Science, Technology and Environment	Kalpetta	28 -31. Jan 2014
Kaliyatta Mahotsavam Exhibition	Mahotsava committee, Chervathur	Chervathur	1-11 Feb. 2014
Fruit & Flower show 2014	Kerala Agricultural University	Ambalavayal	2-12 Feb. 2014
'Krishi Vasanth 2014'	Ministry of Agriculture Govt. of India in collaboration with ICAR	CICR Nagpur	09 -14 February 2014



: Dr. S.Ayyappan, Hon'ble DG ICAR visiting CPCRI pavilion in the 'Krishivasanth-2014'

Khanapara, Guwahati, organized by Directorate of Agriculture & Directorate of Horticulture & FP, AAU, ICC and Assam Horticultural Society.

RC, Mohitnagar has participated in two numbers of Krishimela for 3 days duration at Jalpaiguri and Kalchini during 6-8 January 2014 and 15-17 January 2014

respectively. One lecture was also delivered by Dr. Arun Kumar Sit on different technologies of Plantation crops. Different Exhibits were displayed during these Mela.

RC, Mohitnagar has participated in "Technology Fair" at KVK, Ramsai, Jalpaiguri during 3-7 March 2014.

Radio/TV programmes

Dr. Anithakumari P., participated

in All India Radio programme on 17-02-14 on farmer participatory approaches in coconut technology transfer.

Dr. Rajkumar, Scientist, Nematology, participated in a TV interview on "Integrated pest and nematode management in coconut and arecanut" which was boardcast by DD Chandan, Karnataka on 25-11-2013 and on 26-11-2013.

KVK, KASARAGOD



Dr. George V. Thomas, Director inaugurating the awareness programme on melliponiculture and honey festival at CPCRI, Kasaragod



About 500 farmers attended the programme

State level workshop on Fresh water pearl culture technique

A State level workshop on Fresh water pearl culture technique was organized on 18th of February, 2014 at CPCRI, Kasaragod as a part of popularization of the technique. Farmers from all over Kerala participated in the workshop. In Kasaragod, a group of 10 women SHG members have nucleated around 100 mussels using coin pearl nuclei, positive results are expected after 8-10 months.

SAC meeting



Shri Muhammad Sagir, IAS, District Collector addressing the gathering during the closing ceremony of Honey Festival

Role of bio-control agents in the growth and performance of ginger

In this OFT, showed that technology option, basal application of Trichoderma + soil drenching with Pf twice at monthly intervals resulted in better growth characters, less disease and pest incidence and high yield. Yield recorded was 15.2 t/ha.

Integrating bee colonies for better pollination and yield enhancement in coconut gardens

FLD was carried out by integrating 20 bee colonies in an area of 4 ha. of coconut garden belonging to ten farm families of Kodavalam village (Pullur - Periy), Baradka (Badiadka) and Puluvinchi (Kuttikkol). The farmers were

trained on various aspects of bee keeping and colonies were established in their garden.

National Workshop and Awareness programme on Melliponiculture

A National Technology Transfer Conference and Awareness programme on Melliponi culture was organised at CPCRI during 11th and 12th March, 2014. The programme was organised in collaboration with National Bee Board, Kerala Agricultural University, Krishi Vigyan Kendra, State Horticultural Mission - Kerala and Kasaragod Rural Development Society. An exhibition was also arranged in connection with the programme.



A view of SAC meeting of KVK, Kasaragod

The 18th SAC meeting of KVK, Kasaragod was conducted on 22-03-2014 at DJ Hall of CPCRI. Dr. D.V.S.Reddy, Principal Scientist represented the Zonal Project Directorate, Bangalore. Dr. George V Thomas, Director of CPCRI chaired the meeting. A total of 23 members participated including Heads of Divisions from CPCRI, Sri. Thirumaleshwara Bhat, PAO of Kasaragod district and representatives from line departments.

Technology Meet

KVK in collaboration with ATMA and College of Agriculture, Padannakkad organised Techno - technology meet from 7-8 March 2014 at College of Agriculture, Padannakkad.

Exhibition

KVK participated in "Krishi Vasanth 2014"- an exhibition organised by ICAR and Ministry of Agriculture, Govt. of India during February, 2014.

KVK also put up a stall during "Agri fiesta" a South zone exhibition organised by KAU from 27-02-2014 to 06-03-2014.

KVK, ALEPPEY



Harvest festival of demonstration in paddy at Muttar



Demonstration of FFS in paddy

Harvest festival and Field Day

Harvest festival and field day of the technology demonstration on 'Integrated Crop Management in paddy' under the NICRA project was conducted at Mulavanakary padasekharam in Muttar on 13.03.2014. Technologies like soil test based dolomite and fertilizer application, use of drum seeder for sowing, use of bio-agents like *Pseudomonas* for disease management and trichocards for pest control were integrated under this technology demonstrations in an area of 13 ha with 10 partner farmers. Mr. Krishnaprasad, Cine

actor inaugurated the harvest festival in the presence of Adv. U. Prathibha Hari, Dist panchayath president, Smt. Rejimol Purushothaman, Muttar Panchayath President, Smt. Rajini Binu, Velianad Block Pachayath Vice President, , Sri, Sukumaran, Muttar panchayath Vice president, Dr. V. Krishankumar, Head, CPCRI (RS), Kayamkulam, and Dr. P. Muralidhran, Programme Coordinator, KVK - Alleppey. Agriculture Officer, Office bearers of Padasekhara samithies, representatives from district sectors, and partner farmers also

spoke on the occasion. About 200 farmers from Muttar and neighbouring areas attended the programme.

Training programme on agriculture and allied enterprises for block level coordinators of 12 blocks of Alleppey district was conducted with sponsorship from Kudumbasree Mission, Alappuzha from 28th to 31st January 2014.

Campaign against Foot and Mouth Disease (FMD) in Dairy cows

As part of the nationwide campaign against Foot and Mouth Disease (FMD) and based on initiative from the Zonal Project Directorate, Zone VIII, Bangalore, sixteen awareness camps against FMD were conducted with support from primary milk societies (APCOS) and Veterinary Hospitals in Alleppey district. Extension folder and poster were prepared detailing the cause, spread of the disease and importance of vaccination and distributed to the farmers during the campaign. In this programme 13 milk societies (Thaickal in Chertala, Muttar, Devikulangara, Kappil, Thuruthimel, Cheruvallur, Cheriyanad, Pennukkara, Venmony, Punthala,

Training	No of batches	Participants		
		Men	Women	Total
On campus	9	33	143	176
Off campus	9	95	136	231
Sponsored	1	4	7	11
Vocational	2	24	13	37
Total	21	156	299	455



Campaign against foot and mouth disease of cattle

Puthanambalam, Budhanur, Vadaickal) and three Veterinary hospitals (Devikul- ankara, Venmony and Thuruthimel) were

covered from 10th to 22nd March 2014 coinciding with the "Goraksha" (Government of Kerala programme on vaccination against FMD). Four special lectures were also arranged on FMD control programme during this period. A total of two hundred and sixty three farmers attended these camps. Through this campaign awareness could be created on the importance of vaccinating dairy animals against Foot and Mouth disease.

Field experience training (FET)

Field experience training for six ARS probationers of the 99th FOCARS from NAARM, Hyderabad was conducted from 24th February to 15th March 2014. The Scientist trainees conducted detailed PRA at Devikulangara panhayath and presented the findings and action plan in the village seminar and at the KVK. They were also exposed to the Coir industry in the district.

DISTINGUISHED VISITORS

Hon'ble Secretary, DARE and DG (ICAR); Dr. S. Ayyappan visited RC Kahikuchi on 26th March 2014.



Hon'ble DG interacting with scientists at RC, Kahikuchi



Hon'ble Chief Minister of Assam visiting CPCRI stall 1st International Agr-Hort show-2014 at Khanapara



Visit of ZPD to NICRA demonstration village



DDG (CS), Vice-Chancellor (AAU), Director (ICAR Research complex for NEH) visiting the CPCRI stall during 1st International Agr-Hort show-2014

CELEBRATIONS

Republic Day

Republic Day was observed in the headquarters, Regional Stations and Research Centres on 26-01-2014 in a befitting manner. Dr. George V. Thomas, Director, delivered Republic Day speech at Kasaragod.



Dr. George V. Thomas, Director, CPCRI addressing the gathering on the Republic Day

HUMAN RESOURCES DEVELOPMENT

HRD Abroad

Ms. Selvamani V., Scientist has undergone training in the area of sensor based applications

including Bio-indicators (Horticultural Sciences) at Centre for Landscape and Climate Research, University of Leicester,

UK for a period of two months from 29-01-2014 to 29-03-2014 funded by Component-1 of NAIP.

Name and Designation	Title of training course	Place and Duration
Dr. Alka Gupta, Principal Scientist (Microb.)	CAFT programme on "Computational and statistical advances in bioinformatics for 'omics' data"	IASRI, New Delhi Jan 21- 01-2014 to 10 -02 -2014
Shri Saran Kumar Rizal, Chief Technical Officer and Shri Pratap Kumar Sarkar, Technical Assistant	Capacity Building of Technical Personnel	IIPA, New Delhi February, 2014 10-02-2014 to 21-02-2014
Sri. S Thajudin, Asst. Chief Technical Officer (Library)	Attended the National Workshop on KOHA Professional training programme	TNAU, Coimbatore from 27-02-2014 to 01-03-2014
Chandra Nairy, Asst. Chief Technical Officer, Gopalakrishna A.S. Sr. Technical Officer	Pest surveillance course	NIPHM, Hyderabad 03-01-2014 to 10-01-2014

PARTICIPATION IN SYMPOSIA SEMINAR CONFERENCE AND MEETINGS

Personnel	Programme	Place and Duration
Dr. K. Subaharan, Sr. Scientist (Ag. Entomol.)	National Symposium on emerging trends in eco - friendly insect pest management	TNAU, Coimbatore 22-01-2014 to 24-01-2014
All scientists of CPCRI	Emerging technologies in e - library	CPCRI Kasaragod 01-03-2014
Dr. G.C. Acharya	Improving jhum cultivation	ICAR NEH, Barapani 22-03-2014
Dr. Jeena Mathew, Scientist (Soil Science)	26 th Kerala Science Congress	Wayanad, Kerala 28-01-2014 to 31-01-2014
Dr. Nagaraja, N. R. Scientist (Plant Breeding)	Seminar on Emerging Technologies in e - Library	CPCRI, Kasaragod, Kerala on 01.03.2014

PERSONALIA

APPOINTMENT

Name of the official	Designation	Location	w.e.f.
Smt. Arathi A.R.	Stenographer Gr. III	CPCRI, Kasaragod	15-01-2014
Dr. Muralikrishna K.S.	Technical Assistant	CPCRI, Kasaragod	10-03-2014
Smt. M.S. Nivedhitha	Technical Assistant (Farm Assistant)	CPCRI, Kasaragod	10-03-2014
Shri Santhosh Kumar P.	Technical Assistant (Farm Assistant)	CPCRI RS Vittal	11-03-2014
Smt. Gayathri T.	Technical Assistant (Field Investigator)	CPCRI, RS, Kayamkulam	19-03-2014
Smt. Jesmi Vijayan	Technical Assistant (Field Investigator)	CPCRI, Kasaragod	27-03-2014

TRANSFER

Name of the staff / Designation	From (Place)	To (Place)	w.e.f.
Dr. (Mrs.) R. Manimekalai	Sr. Scientist (Biotech.), CPCRI, Kasaragod	Sr. Scientist (Biotech.), SBI, Coimbatore	07-03-2014

PROMOTION

Name of the staff	From (Designation)	To (Designation)	w.e.f.
Dr. A.C. Mathew	Sr. Scientist (S&WC Engg.), CPCRI, Kasaragod	Principal Scientist (S&WC Engg.)	01-01-2011
Dr. B. Augustine Jerard	Sr. Scientist (Hort.), CPCRI, Kasaragod	Principal Scientist (Hort.)	27-12-2012
Shri S.N. Mohana Gowda	Sr. Technical Officer	Asst. Chief Technical Officer	01-07-2011

RETIREMENT

Name	Designation	Place	Superannuation on
Shri S. N. Mohana Gowda	Sr. Tech. Officer (Artist)	CPCRI, RS, Vittal	28-02-2014
Shri Sadhu Kunder	Skilled Support Staff	CPCRI, RS, Vittal	28-02-2014
Smt. Bagi Kemmale	Skilled Support Staff	CPCRI, RS, Vittal	31-03-2014



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