



Central Institute of Post Harvest Engineering & Technology Ludhiana

Our Slogan: Produce, Process and Prosper

CIPHET E - Newsletter for November - December, 2012
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Director's Column



Dear All,

Hon'ble Union Minister of State for Agriculture and Food Processing Industries, Dr. Charan Das Mahant visited CIPHET to get first hand information regarding research and extension activities taken by the institute in post harvest sector.

The institute licensed the technology of Evaporative Cooled (EC) room structure to state of Mizoram. CIPHET participated in India International Trade Fair at New Delhi. Dr. G.S. Vijaya Raghavan, James McGill Professor, McGill University of Canada visited CIPHET to deliver lecture and explore collaborative research areas. CIPHET organized Technology Exposure Day for poultry and fish retailers to demonstrate technologies related to fish and poultry processing. The CIPHET foundation day was celebrated on December 29, 2012. The 21st Institute Research Council Meeting was held during December 30-31, 2012.

Three training programmes on "Spectroscopy methods and data analysis for food quality evaluation", "Fermentation technology for production of value added products from agricultural residues" and "Post harvest & value addition technologies for production catchment areas" were conducted for participants from across the country.

I congratulate scientists of the Institute who have received various awards during these months.

With best regards,

U. S. Shivhare
Director

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Union Minister of State for Agriculture and Food Processing Industries Visited CIPHET

Hon'ble Union Minister of State for Agriculture and Food Processing Industries, Dr. Charan Das Mahant visited CIPHET on November 20, 2012 to get first hand information regarding research and extension activities of the institute in post harvest sector. He also attended national conference of KVKs jointly organized by Indian Council of Agricultural Research (ICAR) and Punjab Agricultural University, Ludhiana. Dr. N.P.S. Sirohi, ADG (Engg.) and Dr. V. Venkatasubramanian, ADG



(Ag. Extension) accompanied him. Dr. Mahant said that Government of India has now special focus on food processing industry and CIPHET could play a very important role in this regard. Appreciating survey conducted by the institute in figuring out post harvest losses, he said similar studies should also be carried out in future at large scale. He encouraged scientists to develop technologies and machinery which could help small farmers and enterprise in rural areas. Dr P.R Bhatnagar, officiating Director CIPHET, informed the minister about recent innovations and technologies developed at the institute. On this occasion, films on the research activities initiated by the CIPHET were screened and an institute visit was also coordinated for them.

MoU signed with Mizoram Govt. for Providing the Cost Effective Storage

Technology of Evaporative Cooled (EC) structure was licensed to state of Mizoram on November 22, 2012. Dr. U.S. Shivhare, Director CIPHET signed a memorandum of understanding with Sh. C. Lalniliana, Directorate of Agriculture (Research & Education), Government of Mizoram. Dr. Shivhare informed that evaporative cooled



structure is on-farm storage solution, which can store 5-7 tons of fruits and vegetables and requires minimum energy and very low maintenance to operate. The cost of construction of EC structure is Rs 2 to 4 lakh. Sh. C. Lalniliana said that initially they would construct two or three EC structures and other farmers would also be encouraged to adopt this easy and economic solution to reduce post harvest losses.

CIPHET Participated in India International Trade Fair

CIPHET developed technologies were displayed in India International Trade Fair at New Delhi during November 14–27, 2012. Technologies like pomegranate aril extractor (hand tool), banana comb cutter, maize cob sheller and lac scrapper were demonstrated to the visitors. Other process technologies of the institute were also explained to the visitors. They were also made aware about the trainings conducted by CIPHET on various topics and leaflets, brochures of CIPHET were provided to them. The CIPHET stall received huge response from the visitors for different technologies developed by the institute.



Canadian Expert Visited CIPHET

Sustainability in agriculture is a big issue to address because of fast reducing land size and challenges posed by climate change. These remarks were made by Dr. G.S. Vijaya Raghavan, James McGill Professor, McGill University of Canada, who visited CIPHET on December 13, 2012 to deliver special lecture and explore collaborative research areas. Dr. Raghavan said that membrane technology developed by his research team for extension of shelf life of fruits could be of immense use in Indian context also. He stressed that without maintaining quality, India could not tap global export potential. Director CIPHET Dr. U.S. Shivhare informed him about research initiatives taken by the institute and also told that they are looking for various collaborative areas with McGill University, Canada.



CIPHET Organized Technology Exposure Day

Around 30 retailers from the poultry and fish sectors attended the technology exposure day organized by the CIPHET on December 18, 2012 to demonstrate new technologies like fish descaling machine, descaling hand tool, fish processing table cum display unit and poultry processing table. During programme, Dr. Nilesh Gaikwad informed that fish descaling machine could remove the scales in less than 40 seconds as compared to conventional unsafe hand tool which takes more than two minutes. Dr. Tanbir Ahmed apprised the audience about stainless steel food grade poultry processing table which costs about Rs. 12000 for making entire process very safe and closed from public view. Dr. Suresh Devatkal, Senior Scientist, revealed about vegetable blended meat products and fish transport vehicle developed by the institute. Mr. Bhupinder Singh, President, Poultry Association, showed interest in buying these technologies. On the occasion, Dr S.N Jha, officiating Director



CIPHET, said that these technologies would especially benefit the consumers by providing safe and hygienic meat products.

CIPHET Foundation Day Celebrated

The CIPHET foundation day was celebrated on December 29, 2012 during which Dr. S. M. Illyas, Project Director, NIRD, Hyderabad graced the occasion as chief guest.

IRC Meeting Conducted

The 21st Institute Research Council Meeting was held during December 30-31, 2012 at CIPHET, Ludhiana under the chairmanship of Dr. U. S. Shivhare, Director, CIPHET. Dr. S.M. Illyas, Project Director, Distance Education, NIRD, Hyderabad was the expert. The completed, ongoing and new research project proposals were discussed. Dr. M.R. Manikantan, Senior Scientist & Member Secretary, IRC welcomed Dr. S.M. Illyas, Dr. U.S. Shivhare, Project Coordinators, Head of Divisions and scientists of both the campuses and presented the Action Taken Report of the last IRC. It was followed by division wise presentations of research projects. During IRC meeting, 16 RPF-I, 15 RPF-II and 21 RPF-III were presented and discussed. The IRC Meeting ended with formal vote of thanks by Dr. M. R. Manikantan, Member-Secretary & OIC PME Cell.

Scientists Awarded

- Dr. D.N. Yadav, Sr. Scientist (Food Science & Technology) attended the XXII Indian Convention of Food Scientists and Technologists during December 6-7, 2012 at CFTRI, Mysore. He received “Second Best Poster” award for the paper on “Utilization of partially de-oiled peanut cake for the preparation of peanut tofu”. In recognition to his contribution to Food Science & Technology, he was awarded “Young Scientist Award-2011” of AFSTI during the convention.
- Dr. Manisha Mangal, Sr. Scientist (Plant Biotechnology) received ‘Fellow of Society for Plant Research (SPR) award’ from Society of Plant Research in an International Conference on “Biotechnology: a rendezvous with basic sciences for global prosperity (BTBS-2012)” organised at NASC Complex during December 26-27, 2012.



Scientist Joined After Completing DBT-CREST Award Advanced Training

Dr. S.K. Devatkal, Senior Scientist (Livestock Products Technology) at CIPHET, Ludhiana recently worked at Ohio State University (ISU), Columbus (USA) for seven months (March 24, 2012 to November 5, 2012) on “Applications of pomegranate peel and tamarind pulp extracts in enhancing the lethality of thermal and pressure assisted thermal processing against *Bacillus amyloliquefaciens* spores suspended in deionized water and beef broth”. He had availed this award to get trained in the advanced field of High Pressure Processing under DBT–Cutting Edge Research in Science and Technology Award training.



Trainings Organized

- A training on “Spectroscopy methods and data analysis for food quality evaluation” was conducted during November 26 to December 1, 2012.
- A national training programme on “Fermentation technology for production of value added products from agricultural residues” under National Agricultural Innovation Project (NAIP) was organized during December 1-16, 2012 by Dr. H.S Oberoi, Principal Scientist in Agricultural Structures and Environmental Control division. Total of sixteen participants from across the country participated in the training. Dr Hung Lee, Professor, University of Guelph, Canada, was the international resource person. Experts from Delhi University, JNTU, NIPER, PAU, GADVASU and GNDU were invited as national resource persons.
- A model training course on “Post harvest & value addition technologies for production catchment areas” was conducted at CIPHET, Ludhiana during December 24-31, 2012. Eighteen officers from various agricultural and horticultural departments from across the country underwent the training programme. During inaugural, Dr. U.S. Shivhare, Director, CIPHET, apprised the participants about number of technologies in post harvest sector developed and transferred by CIPHET. He informed the participants that institute is regularly conducting entrepreneurship development programs for farmers and entrepreneurs. These programmes are especially designed to train them in the technologies by providing hands-on-training so that aim of creating self employment could be achieved. Dr. D.R. Rai, Head, TOT division was the course director of this training programme. Dr. Indu Karki, Scientist in Transfer of Technology (ToT) Division, coordinated the training.



Trainings/Meeting Attended

- Dr. M. R. Manikantan, Sr. Scientist & OIC PME Cell participated in the XVth Regional Meeting of State Science & Technology Councils and Departments (North East Region) during 19th-21st November, 2012 at Kohima, Nagaland to showcase the CIPHET developed North East specific postharvest technologies.
- Dr. S.K. Sharma, Sr. Scientist attended 21 days winter school on “Food safety management systems (FSMS) required in food chain” during November 21 to December 11, 2012 at Marathwada Krishi Vidyapeeth, Parbhani, Maharashtra.
- Dr. Pranita Jaiswal, Senior Scientist attended an International Conference on Food technology for health promotion at School of Social Sciences (SSS-I), Jawaharlal Nehru University (JNU), New Delhi during December 27-28, 2012.

Transfer/ Promotion

- Sh. J.S. Paul, Asstt. Admin. Officer was transferred on deputation from CIPHET, Abohar to Directorate of Wheat Research, Karnal.
- Dr. R.K. Vishwakarma, Scientist (SS), FG&OP Division was transferred from CIPHET, Ludhiana to CIPHET, Abohar.

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