



Central Institute of Post Harvest Engineering & Technology Ludhiana

OUR SLOGAN: PRODUCE, PROCESS AND PROSPER

**CIPHET E - Newsletter for June 2011
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Director's Column



Dear All

To identify the researchable issues in post harvest processing and value addition and formulate the collaborative research projects among the ICAR institutes to address the identified post harvest problems, the first meeting of national committee on Post-harvest Technology and Value addition was held in the chairmanship of Dr. M.M. Pandey, DDG(Engg.), ICAR in New Delhi . Many important issues related to post-harvest emerged during deliberations.

Dr R.T Patil, completed his five year tenure as Director, CIPHET. He would always be remembered by the institute for his capacity to handle all situations with smile and showing a good example of leading the research useful to end users through practical approach. On behalf of CIPHET, I wish him further progress in his career and hope his continuous support to CIPHET with his valuable ideas which will help to the scientist of this institute to bring out newer post-harvest technology interventions in future.

Ministry of Food Processing Industries, New Delhi has granted Rs 220 lakhs for establishing a food testing laboratory in the institute. This laboratory will be well equipped with state of the art facilities and provide services in food testing for the northern region of the country. During the month, technology of processing soybean into soymilk and tofu (paneer) was licensed to Mr. Sansari Lal, a progressive entrepreneur.

The institute published Vision 2030 document. The institute would work under the strategic framework to accomplish the vision and the goals to reduce the post-harvest losses, enhance profitability of agricultural production system and income of farmers through post-harvest engineering and technological interventions for value addition and byproduct utilization.

With best regards

**R.K. Gupta, FIE
Director (Acting)**

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National Committee on Post Harvest Technology and Value Addition

The first meeting of national committee was held on 10-11 June, 2011 in New Delhi to assess the present scenario of post harvest technology of important agricultural commodities and research infrastructural facilities of the ICAR institutes. The purpose of the meeting was to identify the researchable issues in post harvest processing and value addition and formulate the collaborative research projects among the ICAR institutes to address the identified post harvest problems. The meeting was chaired by Dr.M.M.Pandey, Deputy Director General (Engg.) and attended by Dr. K.K.Singh, ADG (PE), Dr.R.T.Patil, Director, CIPHET, Ludhiana. Directors of CIAE, IINRG, CIRCOT, NIRJAFT, IIHR, IIVR, CISH, CPRI, CTCRI, CPCRI, DMAPR, CIFT, NRC on Meat and Head of the Divisions of CIPHET also attended the meeting.

Dr. M.M.Pandey, DDG (Engg.) urged all the institutes to identify and consolidate their post harvest researchable issues and prioritize them for formulation of collaborative research proposals after assessing their strength in order to attain tangible results. The important issues which emerged during deliberations are as under:

- With respect to prioritization, identified problems in quantifiable terms need to be taken up.
- Simple technology for the silage making and feed processing is required.
- Up scaling and Commercialization of developed technologies
- Acceptable climbing devices for coconut plantation need to be developed.
- Pilot plant facilities/Technology incubation centre at certain identified pockets need to be established.
- Every variety is to be tested for processing properties before releasing them.
- Efforts should be made for NABL accreditation of all institute laboratories.
- Technology for grain protection during rainy season is the need of the hour.
- As all 3600 slaughter houses are in bad shape, clean and hygiene neat production is very much needed.
- Difficulties and procedural wrangle in collaborative projects need to be addressed.

Dr. R.T.Patil Completes Tenure as Director, CIPHET

Dr R.T Patil, relinquished the charge of Director, CIPHET on completion of his five year tenure. During his tenure the institute witnessed a tremendous overall development. He would always be remembered by the institute for his capacity to handle all situations with smile and showing a good example of leading the research useful to end users through practical approach.



Dr. R.K Gupta Joins as Director, CIPHET

Dr. R. K Gupta, Head, Horticultural Crops Processing Division, CIPHET, Abohar has taken over charge of Director, CIPHET Ludhiana. Dr. Gupta has a vast experience on processing of horticultural crops, food grains and oil seeds with large number of publications and also patents to his credit. Dr. Gupta has vast national and international experience and it will definitely benefit CIPHET.

CIPHET Got a Mega Project from MoFPI

In its efforts to strengthen the safety and quality of public food and to serve the food industries, CIPHET has taken a major step towards establishing a food testing laboratory for the northern region. Recently, Ministry of Food Processing Industries, New Delhi has granted 220 lakhs for establishing a high sophisticated food testing lab in the AS&EC division. Dr. R.K.Gupta Director informed that laboratory will be equipped with highly sophisticated instruments for the testing of different food products which will serve the interests of food products manufacturers and consumers in the region. Dr. S.N. Jha, HoD (AS&EC) and Principal Investigator of the project informed that the proposed laboratory will be a unique food testing laboratory and will give service to the farmers, small scale entrepreneurs, food industry and this will cater to the growing needs of food products manufacturers, consumers and regulatory bodies. He further informed that this laboratory will be well equipped with state of the art facilities.

Hindi Sangoshti Organized

The institute organized hindi sangoshti on 24th June, 2011 in conference hall. Ms. Kamini Sahir, Lecturer (Hindi) from khalasa College for Women, Ludhiana was a special invitee to deliver a lecture entitled “Ludhiana Ke Mahavidhiyalayon Mein Raj-bhasha Hindi ki Vastu Sthiti”.

CIC Meeting Held

The 14th Consortium Advisory Committee (CIC) meeting of the NAIP sub-project on “Development of Nondestructive Systems for Microbial and Physico-Chemical Quality

Parameters of Mango” was held on June 8, 2011 in the committee room. Dr. S.N.Jha, CPI suggested that since the project is on the verge of completion, all the centers should speed-up the process of submission of research papers and/or patents if any.

Installation and Commissioning of Wind-Solar Hybrid System

A 5 kW wind-solar hybrid system has been installed by PEDA, Govt. of Punjab at CIPHET Guest House, Ludhiana to be used as power back up. The system consists of 30 m lattice tower, 3.2 kW aero generator, 1.8 kW mono crystalline panel, 5 kVA inverter, 2V600 AH battery (Tubular)-72 No, wind controller (48V, 3.2kW) and solar charger controller (48V, 1.8kW).

Licensing of Soymilk Technology by CIPHET

On 30th June 2011, the technology of processing soybean into soymilk and tofu (paneer) was licensed to Sh. Sansari Lal, an entrepreneur from Bhucho Mandi, Bathinda. Sh. Sansari Lal who intended to set up a soymilk unit in Bhucho Mandi, alongwith his partner Sh. Harjit Singh. CIPHET Director Dr. R. K. Gupta congratulated the entrepreneur and said that the institute is always encouraging farmers and entrepreneurs to enter food processing sector.



Dr. Devinder Dhingra, Senior Scientist, provided hands on training to the entrepreneur. Dr Dhingra added that Soymilk and tofu are free from lactose and cholesterol. Soybean is known to prevent cardio-vascular diseases and cancer. Consumption of properly processed soybean lowers blood cholesterol, relaxes constipation and is helpful in menopause and osteoporosis. Dr. Deepak Raj Rai, Head (TOT) interacted with the entrepreneur and apprised him of other CIPHET technologies which are ready for commercialization.

Publication of the Month - Vision 2030

The institute published the Vision 2030 document. The frontier areas identified are described here:

- Minimization of post-harvest losses through value chain approach.
- Modern temporary/permanent storage structures for grains, horticultural and livestock products.
- Livestock housing, feed management and product processing
- Modernization of meat processing sector-especially development of indigenous equipment and product development.
- Non-thermal / Non-chemical processing and preservation of high value food products.
- Utilization of agro-industrial byproducts and crop residues in value added products
- Bio-active compounds from co-products and crop residues, xylitol, herbal wine, anti-oxidants and poly phenols.
- Non destructive techniques for quality determination of raw and processed food in consortium mode.

- Quality and safety studies of Nutri-genomics foods
- Application of cutting edge technologies for high value end products.
- Biotechnological interventions (Probiotics) for shelf-life enhancement.
- Shelf life enhancement of perishables through packaging, enzymatic and microbial interventions.
- Automation of handling, packaging, filling, stacking, destacking operations to reduce human drudgery.
- Novel product development in all commodities.
- Nutritional security issues through interventions of engineering approach.
- Food quality and safety issues through engineering interventions
- Use of renewable energy for processing and storage of food products.
- Ergonomic analysis of post-harvest tools and equipment for human safety and comfort.
- Mechanisation of processes for manufacture of traditional and ethnic food products.
- Transfer of technologies and entrepreneurship development.

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