



Central Institute of Post Harvest Engineering & Technology Ludhiana

OUR SLOGAN: PRODUCE, PROCESS AND PROSPER

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



Dear All

One day training programme on Post Harvest Management and Value addition of Aonla fruit under Network Project on 'Assessment of gender issues and identification and refinement of selected women specific technologies in horticultural crops' was organized at CIPHET, Abohar.

To provide exposure of global best practices in packaging, the 14-day NAIP sponsored National training on "*Smart Packaging Techniques for Shelf Life Enhancement and Retention of Bioactive Compounds in Food*" was conducted.

Dr Manisha Mangal, Senior Scientist has been conferred with Young Scientist Award, 2011 by the Hi-Tech Horticultural Society for her outstanding contribution in the field of Plant Biotechnology.

Dr. S. K. Nanda, Project Coordinator, AICRP on Post Harvest Technology, CIPHET, Ludhiana, attended the 16th Management Development Programme in Agricultural Research for Zonal Coordinators/Project Coordinators organized at National Academy of Agricultural Research Management (NAARM), Hyderabad

The technology of soya milk and paneer was transferred to one entrepreneur of Ludhiana, Punjab.

With best regards

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

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Training on Postharvest Management and Value Addition of Aonla Fruit



Hands on training of participants on Aonla processing plant at CIPHET, Abohar

CIPHET, Abohar organized one day training programme on Post Harvest Management and Value addition of Aonla fruit under Network Project on ‘Assessment of gender issues and identification and refinement of selected women specific technologies in horticultural crops’ on 18th October, 2011. In this training programme 30 farm women participated from the Nihal Khera village under block of Khuia Sarwer Tehsil Fazilka district Fazlika with the prominent presence of Dr. A. K. Shukla, PI & PS, DRWA Bhubaneswar and Dr. Dilip Jain, I/C Head, HCP Division, Abohar.

During training programme, lectures were delivered on Post Harvest Management and Value addition of selected horticultural crops and role of processing pilot plant in development of value added products. During practical session hands on training was imparted on development of aonla based value added product at pilot plant. All farm women self operated the aonla pilot plant machine such as aonla grader, pricker, shredder, juicer dryer etc. At last participants developed different kinds of aonla product such as aonla mouth freshner, aonla candy, aonla powder and juice etc.

National Training on Smart Packaging Techniques

With aim to provide exposure of global best practices in packaging, Institute conducted the 14-day NAIP sponsored National training on “Smart Packaging Techniques for Shelf Life Enhancement and Retention of Bioactive Compounds in Food” during 11-24 October, 2011.

The training programme was a part of the Indian Council of Agriculture Research (ICAR) strategy to multiply learning and capacity building by using small pool of scientists, who were recently trained in the state of the art laboratories around the globe in packaging techniques, to further train the scientists in India to develop human resource and create larger pool of trained researchers. Dr Deepak Raj Rai, Head Transfer of Technology Division was the course director of the training programme.

Dr B.S Ghuman, Director, Punjab Horticulture Post Harvest Technology Centre (PHPTC), was the chief guest during inauguration of the programme. He emphasized that without use of smart packaging, potential of the emerging processed food market cannot be tapped. Smart packaging techniques could also help in bringing down post harvest losses and extension of shelf life. Sixteen scientists/researchers across the country took part in the training programme. Dr. Eva Almenar, Assistant Professor, School of Packaging of Michigan State University, USA was invited as an expert and shared knowledge about new technological developments in smart packaging.



During the training, the participants were made aware about the food packaging concepts, controlled atmosphere technology, storage structures for perishables, micro-perforation mediated improvement of package environment, need and techniques to establish suitable space, packaging of perishables using bio-based appropriate plastics in food packaging, antimicrobial active packaging of food, antioxidant active packaging of food, metallic oriented framework and permeability of thermo plastic polymers etc. Dr Shashi Pal, Ex-Director School of Energy Studies, PAU, Ludhiana, presided over the valedictory. He said that packaging had very crucial role to play in shelf life extension of food products. Hoping that participants would have updated their knowledge on packaging during the training programme, Director CIPHET Dr. R. K. Gupta said that they should use the gained knowledge in their respective areas and regions to benefit the country.

Awards/Recognition



Dr. R. K. Gupta has received the Hon. Fellowship Award from Hi-Tech Horticultural Society on the occasion of International Conference on Issues for climate change, land use diversification and bio-technological tools for livelihood security organized during 8-10th October 2011 at SVP UA&T, Meerut.

Dr. Manisha Mangal, Senior Scientist has been conferred with Young Scientist Award, 2011 by the Hi-Tech Horticultural Society on October 8, 2011 during the International Conference “Issues on Climate Change, Land use diversification and biotechnological tools for livelihood security” at SVP University of Agriculture and Technology-Meerut for her outstanding contribution in the field of Plant Biotechnology.



16th Management Development Programme in Agricultural Research

Dr. S. K. Nanda, Project Coordinator, AICRP on Post Harvest Technology, CIPHET, Ludhiana, attended the 16th Management Development Programme in Agricultural Research for Zonal Coordinators/Project Coordinators organized at National Academy of Agricultural Research Management (NAARM), Hyderabad during 20 - 25 October 2011.



Bottom Row (L-R): Dr. Radha Lakshmanan, Dr. R. Kalpana Shastry, Dr. K.H. Rao (Programme Coordinator), Dr. B.S. Sontakki (Programme Director), Dr. N. H. Rao (Acting Director, NAARM), Dr. D. Rama Rao, Dr. R.V.S. Rao, Dr. R. Venkat Kumar, Dr. Kavitha K. Mydin
Middle Row (L-R): Dr. P. Murugesan, Dr. V. K. Gupta, Dr. S. K. Nanda, Dr. P. Rakkiyappan, Dr. Paresh C. Golder, Dr. Ram Awadh Ram, Dr. V. S. Chandrasekaran, Dr. Vilas K. Kharche, Dr. Avtar Rana
Top Row (L-R): Dr. K.S. Ananda, Dr. Satyavan Rampal, Dr. N. P. Singh, Dr. Shailendra Rajan, Dr. Dhurjati Chaudhuri, Dr. Prakash K. Nagre, Dr. U. Sreedhar

The MDP was organized by Dr. B.S. Sontakki (Programme Director) and Dr. K.H. Rao (Programme Coordinator). Lectures, case studies and tests were conducted in the areas of Leadership development, Team building, Personality profiling, Emotional intelligence, Stress Management and Conflict resolution. Invited guest lecturers included eminent personalities, viz. Dr. Pramod Kumar, Sr. Interventional Cardiologist, Yashoda Hospitals, Hyderabad, Dr. J. Challa, Retd. faculty, NAARM, Prof. B.R. Virmani, Founder Director, CORD-M, Hyderabad, Prof. S. Venku Reddy, President & Executive Director, Participatory Rural

Development Initiatives Society, Hyderabad and Padma Shri Prof. E. A. Siddiq, Honourary Professor of Biotechnology, ANGRAU, Hyderabad.

It is essential to instill and leadership and managerial qualities for the scientists as they move up in the organization. The MDP study course helps one to know one's strengths and weaknesses better so that with this new self-awareness one would seek improvement through self-regulation and is able to perform better and a research manager, when the opportunities come.

CAC Meeting held

The 4th CAC meeting of NAIP-sub project entitled 'Studies on Cryogenic Grinding for Retention of Flavour and Medicinal Properties of Some Important Indian Spices' (Component-4) was held under the chairmanship of Prof. Sunil K. Sarangi, Director, NIT, Rourkela on October 22, 2011 at IASRI, New Delhi. Dr. P. Barnwal, CPI and member secretary welcomed the CAC chairman, members and experts. The CPI presented the action taken report on the recommendations of the last CAC and CIC meetings, the overall progress of the sub- project, for the Lead Centre (CIPHET, Ludhiana). Dr. R.K. Gupta, Director, CIPHET, Ludhiana



suggested for proper documentation of the outcome of the project including database on different properties of selected spices etc.

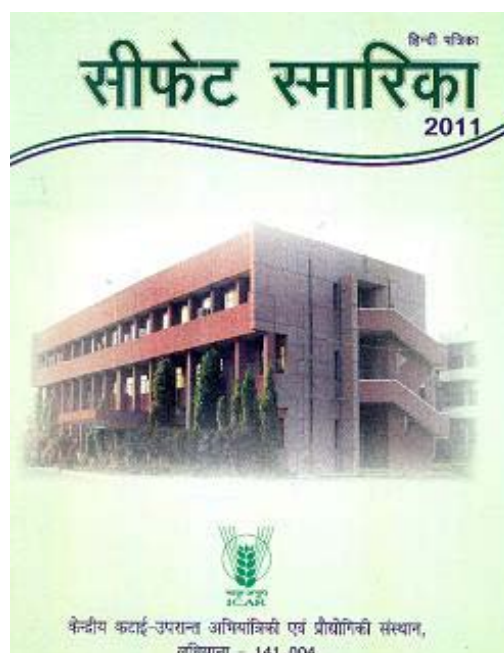
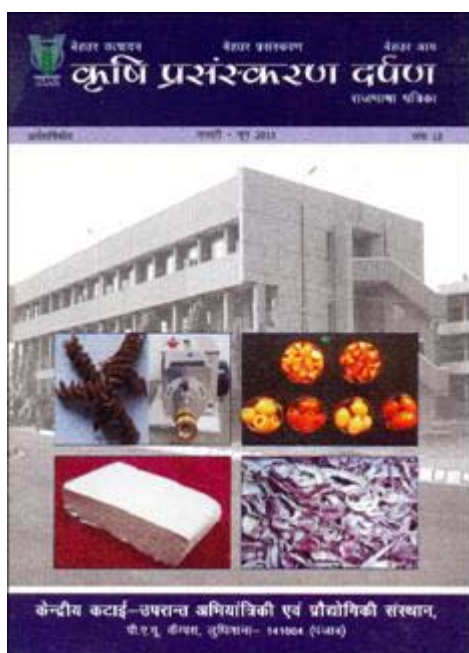
Transfer of Technology to Entrepreneur

The scarcity in milk supply in developing countries has led to efforts towards the development of alternative milk like products from groundnut or soybean. Groundnut and soybean are two major raw material used for preparation of imitation milks. Both have a potential role to play in combating malnutrition, the present low level in their consumption, especially in the developing countries, should be increased. Preparation of peanut and soybean extract (milk like product) and its utilization in the development of dairy analogues such as flavoured beverage, curd, yoghurt, lassi and paneer may be one such area of utilization. Technology of the production of soymilk & paneer was transferred to Sh. Amandeep Singh S/o Sh. Gurmail Singh VPO: Kartarpur, PO: Lehal , Teh. Payal on 04-10-2011.

Transfer/Retirement

- Dr. D. Dhingra, Sr. Scientist (AS&PE) transferred from CIPHET, Ludhiana to Head Quarters, KAB-II, New Delhi.
- Dr. S. N. Bhowmik, Sr. Scientist (Microbiology) transferred from CIPHET, Ludhiana to Tripura Centre of ICAR RC for NEH Region, Lembucherra, Tripura.
- Dr. Dilip Jain took over the charge as I/C Head at CIPHET, Abohar
- Sh. V.K. Garg, T-9 got retired on 31st October, 2011.

Publications of the Month



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