

## CONSULTANCY ASSIGNMENTS

Forty seven projects were under way during the period, out of these, twenty one were completed and twenty six are in progress.

### Completed Assignments

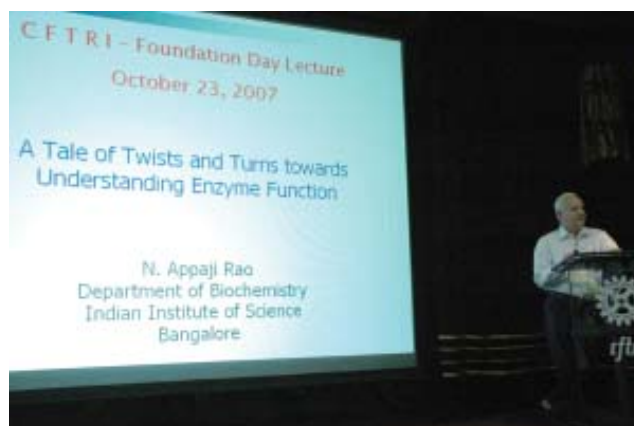
- Studies to evaluate protein powder samples
- Studies to determine the effect of additive on oil absorption by fried products
- Shelf life studies of nutritive food for two samples
- Global migration studies for one grade of PET bottle for food contact applications as per USFDA 177.1630 and IS 9845-1998
- Evaluation of coated packaging materials for global migration
- Study of food processing sector in Sultanate of Oman
- Consultancy assistance on maintenance of quality of wheat and milled wheat products
- Consultancy assistance on quality evaluation of biscuits
- Bioefficacy of mosquito coil against mosquito *Culex quinquefasciatus*, *Aedes aegypti*
- Shelf life evaluation of flavoured tea
- Application of membrane technology for clarification of tea extract
- Technical advisory assistance in the commercial production of aseptic packing of sugarcane juice
- Bioefficacy of transfluthrin liquid vaporizer against housefly, *Musca domestica*
- Consultancy assistance on maintenance of quality of biscuits
- Evaluation of GPPS and HIPS grades of polystyrene samples
- Evaluation of polyester film (metallized) as per USFDA 177.1630
- Literature survey on gelatin replacement in food and confectionery products
- Preparation of document on health benefits of selected herbs, spices and plantation products based on literature survey
- Deterpenation of lemon/lime oil
- Exploratory work on feed material purification and advisory assistance for standardization of machine parameters
- Training on modified atmosphere packaging (MAP) for banana products



## Assignments in Progress

- Consultancy assistance on maintenance of quality of wheat and milled wheat products
- Shelf life studies on candy samples
- Bioefficacy of five aerosol formulations against cockroaches (*Periplaneta americana* and *Blatella germanica*), mosquitoes (*Aedes aegypti* and *Culex quinquefasciatus*)
- Bioefficacy and persistence of all insect killers (Dual samples) against cockroaches (*Periplaneta Americana* and *Blatella germinaca*) mosquitoes (*Aedes aegypti* and *Culex quinquefasciatus*)
- Bioefficacy of X-Pel Aerosol and ACI Aerosol against cockroaches (*Periplaneta Americana*, *Blatella germanica*), mosquitoes (*Aedes aegypti* and *Culex quinquefasciatus*) and Houseflies (*Musa domestica*)
- Advisory assistance for the commercialization of value added products from lower grade cashew
- Bioefficacy and persistence of three aerosol formulations against three flying insects on four surfaces for 8 weeks
- Consultancy assistance on quality evaluation of biscuits
- Bioefficacy of mosquito coils against *Culex quinquefasciatus* and *Aedes aegypti* at different time points: and Bioefficacy of gel formulation against cockroaches *Blatella germanica* and *Periplaneta Americana*
- Study of technical procedures in processing of crab meat
- Consultancy assistance on quality evaluation of biscuits
- Consultancy assistance in determining the shelf life of nutritive food samples
- Technical consultancy assistance on global migration studies for three different grades of PET bottles for food contact applications
- Consultancy assistance for validation studies of retorts
- Consultancy assistance for evaluation of polyester films as per USFDA 177.1630 in contact with aqueous, alcoholic and fatty foods
- Consultancy assistance on maintenance of wheat and milled wheat products
- Technical consultancy assistance on global migration studies for one grade of PET bottle for food contact applications

- Bioefficacy and persistence of roach gels (Fipronil 0.05% and Imidacloprid 2.15%) against Cockroaches *Periplaneta americana* and *Blattella germanica*
- Consultancy assistance for Extraction of Thymoquinone from black cumin seeds (*nigella sativa* L.) by super critical CO<sub>2</sub> extraction
- Bioefficacy and persistence of cheapie crawlie aerosol against cockroaches, *Periplaneta Americana* and *Blatella germanica*
- Shelf life studies on confectionery products
- Demonstration of decaffeination enzyme in tea and coffee
- Global migration studies for four different grades of PET bottles for food contact applications
- Shelf life studies on green tea samples
- Evaluation of RIL grades of polyolefins (Polyethylene & Polypropylene) film/ moulded articles for food contact applications
- Shelf life evaluation of flavoured tea



Prof. N. Appaji Rao, Emeritus Professor, Department of Biochemistry, Indian Institute of Science, Bangalore and Member, CFTRI Research Council, delivering the CFTRI Foundation Day Lecture

## **SPONSORED RESEARCH PROJECTS**

Ten sponsored research projects were underway during the period. Out of these, six projects were completed and four are in progress as shown below:

### **Completed Assignments**

- Development of shelf stable sugarcane juice concentrate
- Studies on enzymatic hydrolysis of four different types of proteins
- Studies on polysaccharides as pectin substitute
- Improvement of shelf life of the papads
- Process optimization for puffed gram and pea and utilization of by products
- Studies to design a mill for decortication of small millets and the supply of a prototype mill

### **Assignments in Progress**

- Development of low fat chips and fried chips from broken rice
- Studies on corrosion and leaching of Iron, Chromium, Nickel and Copper in different food products when cooked in stainless steel containers
- Studies to develop seasoning mix containing MSG
- Processing of rice to lower its carbohydrate digestibility

