

## SEAFAST Center Facilities

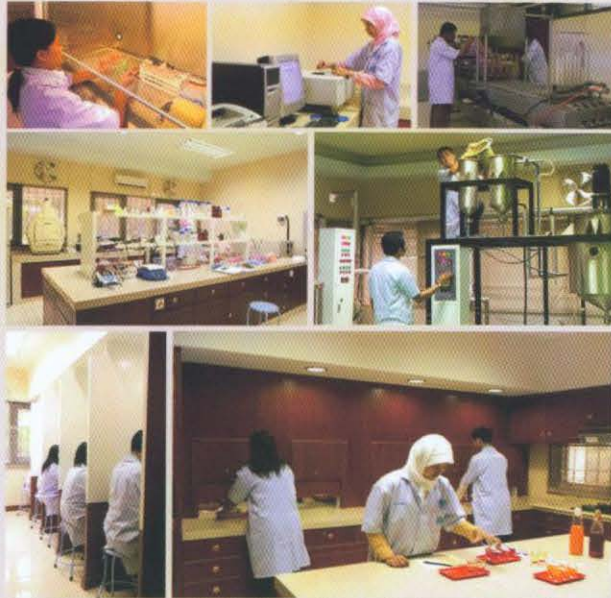
To perform its mission, SEAFAST Center is equipped with modern laboratories and pilot plant to support research in the area of food quality, nutrition and food safety improvement. Beside to support research SEAFAST Center facilities is suitable for training and new product development in food and agriculture product.

SEAFAST Center laboratory include:

- Food Quality & Safety laboratories (Microbiology and Chemistry)
- Food Biotechnology Laboratory
- Fungal Fermentation Laboratory
- Bacterial Fermentation Laboratory
- Food Sensory Evaluation Laboratory
- Fats & Oils Pilot Plant
- Food Processing Pilot Plant equipped with processing line to support product development such as thermal process line, noodle line, rheology lab, packaging, drying process, bakery processing, deep frying, vacuum frying processing etc.
- BReAD (Baking Research and Development) unit

To support education in the field of food quality, nutrition and food safety, SEAFAST Center also equipped with distance education facilities. The availability of computer center and distance education facility at SEAFAST Center is opening new opportunities to reach students at a distance and serve students who need flexibility.

In cooperation with Department of Food Science and Technology some courses have been offered to University Udayana, University of Riau, University of Jambi, and University of Hasanuddin.



SEAFAST Center's partners at regional and international level include for example :

- South East Asian Association of Glutamic Sciences (SEAGGS)
- International Life Sciences Institut (ILSI)
- American Soybean Association
- Wageningen University
- South East Asian Universities and Research Institution: Mahidol University,
- University Putra Malaysia, Nutrition Research Center of Philippine, and
- Texas A&M University

In many of its activities; the SEAFAST Center has developed an association with a very dedicated and talented food technologists, food scientists; nutritionists from Bogor Agricultural University, especially, from **Department of Food Science and Technology and Department of Community Nutrition.**

## Cooperation/Mutual Partnership

SEAFAST Center is actively engaging in many mutual partnerships; between food industry; government and non-government organizations. Several key examples of mutual partnership are:

- Consultation and/or problem solving,
- Technical assistance, product and process development,
- Processing technologies/pilot plant facilities, and analytical services.
- Marketing and business plan assistance,
- Regulatory information,
- Employee training, and
- Development of industry centers at universities.

At national level, SEAFAST Center IPB (especially thru previous centers of CFNS, CFNPS; and CATF) has been actively involved in developing national policy, research and development especially in food quality, safety, and nutrition aspect. Our national partner institutions include

- The National Agency for Drug and Food Control
- Ministry of Health
- Ministry of Research and Technology,
- National Quarantine Agency, Ministry of Agriculture
- Universities, Research Institution and Local Governments
- Food Industries

Southeast Asian Food and Agricultural  
Science and Technology Center

*Pusat Pengembangan Ilmu dan Teknologi Pertanian  
dan Pangan Asia Tenggara*



# SEAFAST CENTER

Improving Food Quality, Nutrition and Safety  
through Science and Technology

*Meningkatkan Mutu, Gizi dan Keamanan  
Pangan melalui Ilmu dan Teknologi*



**Bogor Agricultural University,  
BOGOR, INDONESIA**

# Introduction

The biggest challenge facing countries engaged in food and agriculture globally is turning comparative advantage into competitive advantage. Competitiveness issues dealing with production, market shares, relative export advantage and commodity competitiveness; in term of quality, safety and nutrition, become critical and need to be internalized.

At Bogor Agricultural University, nutrition and food research and education programs have been developed for over 30 years. Previously, there were several Centers associated with nutrition and food science and technology. Since 1979 Food Technology Development Center (FTDC) was established at IPB. In 1985; Inter University Center for Food and Nutrition was established and further developed into Center for Food and Nutrition Studies (CFNS) in 1992. Other centers related to nutrition, food science and technologies were also established; namely Center for Food and Nutrition Policy Studies (CFNPS; since 1987) and Center for Assessment of Traditional Foods (CATF, 1997).

Due to the reorganization and consolidation process at Bogor Agricultural University; at 2004, the centers were consolidated and merged into one center named **Southeast Asian Food and Agricultural Science and Technology (SEAFAST) Center**.

The center is designed to develop a national and regional system of partnership in the area of food and agricultural science and technology development. In general, the SEAFAST Center is designed to bring together the university, governmental, donor and business sectors to focus on the improvement of food science and technology issues for Indonesia and where appropriate, in other ASEAN nations. IPB has mandated the SEAFAST center to be a regional center focusing on improving food quality, nutrition and safety through science and technology.

To achieve the target to be a regional center; SEAFAST center is actively seeking mutual partnership and cooperation's with many national, regional and international institutions.

Internationally, our Center also has strong association with top universities and other food related agencies in Asia, North America and Europe.

To further develop the capacity to be able to play a significant role in continual enhancement of national food safety system; SEAFAST Center is actively seeking opportunity to develop cooperation with international institutions dealing with food quality, safety and nutrition.

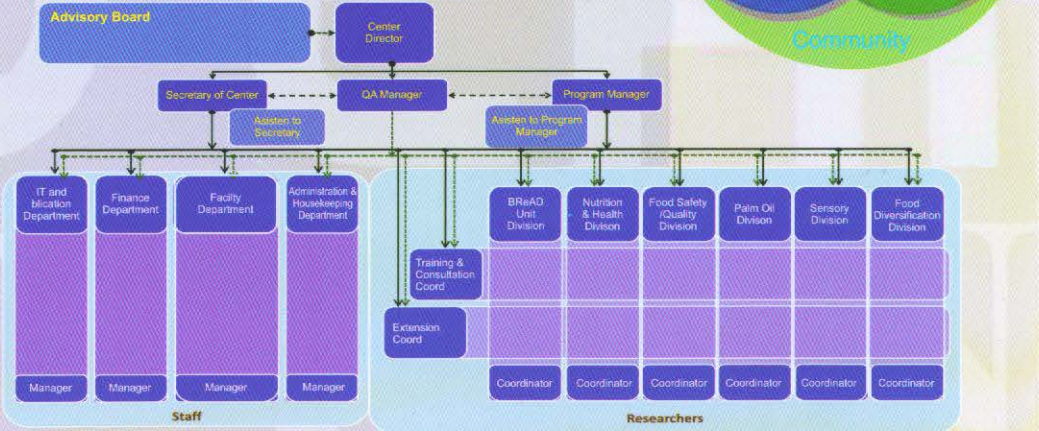
Since 2004; IPB through SEAFAST Center, has developed cooperation with **Texas A&M University**. Since January 2005, Texas A&M University (TAMU) was awarded a **USDA-Foreign Agricultural Service 41 6 (b) grant**. The grant will assist in the development of the Southeast Asian Food and Agriculture Science and Technology Center (SEAFAST) in Bogor, Indonesia.

In general, the main objective of the cooperation with Texas A&M University is to develop SEAFAST as a center to bring together the university, governmental, donor and business sectors to focus on the improvement of food science and technology issues at national and regional level. More specifically, objectives of this cooperation are:

1. Renovate office and laboratory building
2. Equip a food science research laboratory, especially food safety and oleo chemical laboratories
3. Develop distance education classroom;
4. Conduct feeding and intervention study for nutrition improvement, and
5. Provide training for faculty and staff to provide the necessary teaching, and research

# Mission

To facilitate market-driven agricultural growth that maximizes value-added contributions while enhancing Indonesia's competitiveness in the area of food industry.



SEAFAST Center, LPPM, IPB - Organization

# Organizations

SEAFAST center is a research center at Bogor Agricultural University with core competences in research, teaching and training in the area of improving food quality safety and nutrition through science and technology. SEAFAST Center has very rich expertise in the area of food quality, nutrition and safety; and has strong link with other resources at Bogor Agricultural University. Schematically; SEAFAST Center structure is as the following:

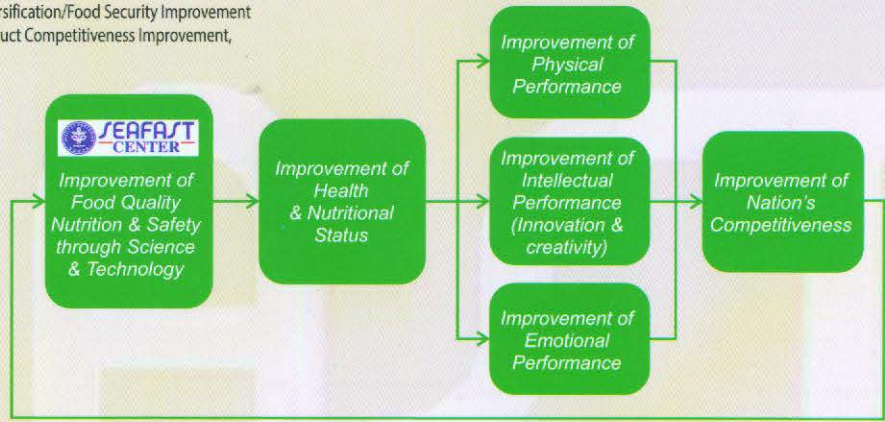
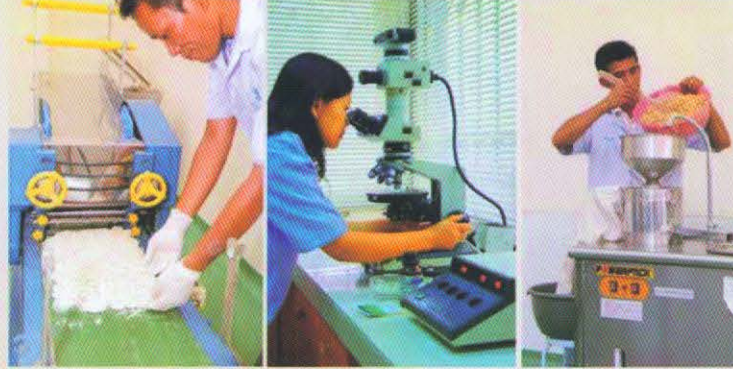


# Focus of Activities

The central theme of SEAFAST activities is improving food quality, nutrition and safety through science and technology. The logical framework for the theme is the following:

Focuses of SEAFAST Center activities are R&D, new product/process development, policy development, food quality, nutrition & safety education/training, and technology transfer. Currently, focuses of SEAFAST Center activities are divided into:

- Nutrition Improvement
- Food safety and quality Improvement
- Food diversification/Food Security Improvement
- Food Product Competitiveness Improvement,



At IPB level, SEAFAST Center has a very strong partnership and association with Department of Food Science and Technology and Department of Community Nutrition.

- Currently, the main research activities of SEAFAST Center are
- Development of Palm Oil Downstream Products & Processing
  - Development of Food Diversification
  - Community Nutrition and Food Safety Assessment
  - Intake of free glutamate survey
  - Food safety survey
  - Exploration of indigenous vegetables (Ethno botanical, availability, nutrient information, and collection)
  - Research and Development in various field, especially for food and agriculture product

SEAFAST Center in cooperation with the Department of Food Science and Technology, regularly offers training for food industries. The topics include

- Thermal process
- Shelf-life dating
- Sensory evaluation
- Food plant sanitation
- New product development