



Program

International Conference on Agriculture and Agro-Industry 2010
Food, Health and Trade

Mae Fah Luang University, Chiang Rai, Thailand

November 19-20, 2010

Program

International Conference on Agriculture and Agro-Industry 2010: Food, Health and Trade
Mae Fah Luang University, Chiang Rai, Thailand
November 19-20, 2010

Friday, November 19th 2010

Main Sessions: 08.00 - 12.15 C5 302

- 08.00 - 09.00 Registration and Poster Placement
- 09.00 - 09.30 • Welcome Remarks
by Asst. Prof. Dr. Vicha Sardsud
- Welcome and Opening Remarks
by Assoc. Prof. Dr. Vanchai Sirichana
- Group Photo
- 09.30 - 10.15 Keynote Presentation 1
The Global Health Food Supply Chain
Assoc. Prof. Dr. Kamol Lertrat
Director, Plant Breeding Research Center for Sustainable Agriculture (PBRCA),
Khon Kaen University, Thailand
- 10.15 - 10.45 Coffee Break / Poster Session / Exhibition
- 10.45 - 11.30 Keynote Presentation 2
Functional Foods and Nutraceuticals: Substantiation of Health Claims in Europe
Prof. Dr. Marina Heinonen
University of Helsinki, Finland
- 11.30 - 12.15 Keynote Presentation 3
Business Opportunity of Functional Foods Development for Healthy Lifestyle
Dr. Chanchai Waimaleongora-ek
Vice President for Corporate Research and Development, Charoen Pokphand Foods
- 12.15 - 13.30 Lunch / Poster Session / Exhibition

Concurrent Sessions: 13.30 - 17.00

- Session 1: Agricultural Science and Technology C5 318
- Session 2: Food Science and Technology C5 302
- Session 3: Agribusiness Management C5 319
- 15.00 - 15.30 Coffee Break / Poster Session / Exhibition
- 17.00 - 18.00 Poster Session / Exhibition
- 18.00 - 21.00 Welcome Reception

Saturday, November 20th 2010

Concurrent Sessions Continued: 08.30 - 12.00

- Session 1: Agricultural Science and Technology C5 302
- Session 2: Food Science and Technology C5 318, C5 319
- 10.00 - 10.30 Coffee Break / Poster Session / Exhibition
- 12.00 - 12.15 Closing Remarks
- 12.15 - 13.00 Lunch
- 13.00 - 18.00 Post Conference Excursions

Concurrent Sessions Program

International Conference on Agriculture and Agro-Industry 2010: Food, Health and Trade
Mae Fah Luang University, Chiang Rai, Thailand
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Friday, November 19th 2010

Session 1: Agricultural Science and Technology

C5 318

- Chair: Asst. Prof. Dr. Varit Srilaong
Co-Chair: Dr. Niramol Punbusayakul
- 13.30 - 14.00 Invited Speaker
The Influence of the Interaction between Jasmonates and Ethylene on Fruit Quality
Prof. Satoru Kondo
School of Horticulture, Chiba University, Japan
- 14.00 - 14.15 OA-002
Validation of Modified QuEChERS Method for Simultaneous Determination of Organophosphates and Carbamates in Mangosteens by LC-MS/MS
Wanisa Meecharoen
- 14.15 - 14.30 OA-007
Effect of Ozone on Some Biochemical and Quality Changes in Tangerine (*Citrus reticulata* Blanco cv. Sai Nam Pung)
Pornanan Boonkorn
- 14.30 - 14.45 OA-008
Reduction of Residual Chlorpyrifos on Harvested Bird Chili (*Capsicum frutescens* Linn.) Using Ultrasonication and Ozonation
Sarunya Pengphol
- 14.45 - 15.00 OA-015
Alternatives to Chemical Fungicide to Control Crown Rot of Banana
Dionisio G. Alvindia
- 15.00 - 15.30 Coffee Break / Poster Session / Exhibition

Breakout Session I

- | | Session 1A | Session 1B |
|---------------|--|--|
| Venue: | C5 318 | C5 319 |
| Chairs: | Dr. Amorn Owatworakit | Asst. Prof. Dr. Pornchai Rachtanapun |
| Co-Chairs: | Dr. Nattaya Konsue | Dr. Rungarun Sasanatayart |
| 15.30 - 15.45 | OA-011
Identification of Sugarcane Somaclones Derived from Callus Culture by SSR and RAPD Markers Analysis
Sarut Thumjamras | OA-005
Improvement of Rheological and Functional Properties of Defatted Rice Bran Protein Bioplastic by Kraft Lignin Addition
Thiranan Kunanopparat |
| 15.45 - 16.00 | OA-012
Study the Genomic Function of Rice β-Glucosidase via RNA Interference
Dang Thi Thanh Tam | OA-006
Effect of Longan Seed Extract and BHT on Properties of Gelatin Film from Giant Catfish Skin
Samart Sai-Ut |

Session 1A continued

- 16.00 - 16.15 OA-013
Determination of Relationship and Genetic Variation among *Amorphophallus* sp. from Northern Part of Thailand
 Orachorn Mekkerdchoo
- 16.15 - 16.30 OA-021
Cloning and Expression of Beta-Galactosidase Gene from *Lactobacillus delbrueckii* subsp. bulgaricus TISTR 892 in *Escherichia coli*
 Witsanu Srila
- 16.30 - 16.45 OA-017
Seed Soaking with Essential Oils from Some Plants for Controlling *Sclerotium rolfii* Sacc. Causing Damping-off Disease of Tomato
 Raweewon Duamkhanmanee
- 16.45 - 17.00 OF-010
Simple Fed-Batch Technique for the Production of Recombinant Enterokinase Light Chain by *Pichia pastoris*
 Nguyen Thi Thanh Dung

Session 1B continued

- OA-016
Efficacy of Natural Antifungal Pad for Controlling Postharvest of Table Grape Quality during Cold Storage
 Udomlak Sukatta
- OF-028
Water Sorption Isotherm and Thermo-Physical Properties for the Analysis of Crumb Rubber Drying
 Jutarut Tasara

Session 2 continued

- Chair: Asst. Prof. Dr. Muanmai Apintanapong
 Co-Chair: Dr. Chutamat Niwat
- 15.30 - 15.45 OF-014
Development of Pla-Som Fermentation Using Lactic Acid Bacteria Freeze-Dried Starter Culture
 Wanida Saejung
- 15.45 - 16.00 OF-016
Production of Spray Dried Protein From Jellyfish (*Acromitus flagellatus*)
 Nattapat Vatanakitsada
- 16.00 - 16.15 OF-026
Infrared and Hot Air Drying of Mullet Fish: Drying Kinetics, Energy Consumption and Quality
 Yutthana Tirawanichakul
- 16.15 - 16.30 OF-027
One and Two Stages Drying of Shrimp using Hot Air and Infrared: Energy Consumption and Quality Aspect
 Supawan Tirawanichakul
- 16.30 - 16.45 OF-011
Development of Hollow Fiber Membranes for Separation of Acetone-Butanol-Ethanol (ABE) from Fermentation Broth using Pervaporation Technique
 Wirat Inthavee

Session 2: Food Science and Technology

C5 302

- Chair: Dr. Alastair Hicks
 Co-Chair: Dr. Chutamat Niwat
- 13.30 - 14.00 Invited Speaker
Safe Agricultural Food Products Through Risk-Based Management at Village Level in Maekong Sub-Region
 Dr. Alastair Hicks
 Adjunct Professor, School of Agro-Industry, Mae Fah Luang University
- 14.00 - 14.15 OF-023
Production of Goat Milk Containing Prebiotic Galactooligosaccharides
 Suwattana Pruksasri
- 14.15 - 14.30 OF-029
Identification and Probiotic Attributes of a New Cellulolytic *Lactobacillus* sp. MWBPC 1-3-1 Isolated from Wild Boar Intestinal Tract
 Sirapan Sukontasing
- 14.30 - 14.45 OF-017
Optimization of Carbon and Nitrogen Source for *E. coli* Growth in Micro-Cultivation on Trypticase Soy Agar
 Wanchana Saeaug
- 14.45 - 15.00 OF-015
Fast and Less Thermal Degradation Protocol for Chromocult® Coliform Agar (CCA) Preparation to Detect *E. coli* Colonies
 Pattarin Supanivatin
- 15.00 - 15.30 Coffee Break / Poster Session / Exhibition

Session 3: Agribusiness Management

C5 319

- Chair: Sutrisno S Mardjan
 Co-Chair: Dr. Rungarun Sasanatayart
- 13.30 - 14.00 Invited Speaker
Thai Position in World Exports of Fruits and Vegetables
 Mr. Pathom Tankham
 President, Thai Fruits and Vegetables Producer Association
- 14.00 - 14.15 OM-001
Fairtrade: Opportunities and Obstacles for Thai Agricultural and Handicraft Producers
 Vilailuk Tiranutti
- 14.15 - 14.30 OM-002
Supply Chain and Logistics Management for Exporting Thai Mangoes to Japan
 Narat Hasachoo
- 14.30 - 14.45 OM-003
A Comparative Study of Rice Production and Trade Dynamics between Thailand and Vietnam
 Nguyen Luong Bach
- 14.45 - 15.00 OM-005
Packaging Development to Support Export Supply Chain of Mangosteen Fruit
 Sutrisno S Mardjan
- End of Session 3*
- 15.00 - 15.30 Coffee Break / Poster Session / Exhibition

Saturday, November 20th 2010

Concurrent Sessions Continued: 08.30 - 11.45

Session 1: Agricultural Science and Technology

C5 302

Chair:	Prof. Dr. Usanee Vinitketkamnuan
Co-Chair:	Dr. Niramol Pumbusayakul
08.30 - 09.00	Invited Speaker Medicinal Value of Thai Agricultural Products Prof. Dr. Usanee Vinitketkamnuan Department of Biochemistry, Faculty of Medicine, Chiangmai University, Thailand
09.00 - 09.15	OA-001 Antioxidant Capacity and Total Phenolic Content of <i>Moringa oleifera</i> Grown in Chaing Mai, Thailand Wiwat Wangcharoen
09.15 - 09.30	OA-003 Effect of Germination on Antioxidative Property of Pigmented and Non-Pigmented Rice Sutharut Jiapong
09.30 - 09.45	OA-014 Screening of Edible Fruits and Australian Native Plants for Antimicrobial Properties Tuflikha Primi Putri
09.45 - 10.00	OA-022 Biological Activities Screening of Thai Essential Oils for Acne Treatment Sujitra Luangnarumitchai
10.00 - 10.30	Coffee Break / Poster Session / Exhibition
Chair:	Dr. Pongmanee Thongbai
Co-Chair:	Dr. Nattaya Konsue
10.30 - 10.45	OA-009 Effect of Combinations of Limestone Tail and Basalt Tail with Chemical Fertilizer on Yield, Physico-Chemical and Postharvest Physiological Characteristics of Cassava Root (<i>Manihot esculenta</i> Crantz.) Nitchaphat Banphasuwan
10.45 - 11.00	OA-018 Preliminary Investigation of <i>Rhodococcus opacus</i> Cultivation for New Bioenergy Production Chinnatad Sinprasertchok
11.00 - 11.15	OA-020 Optimization of Anhydrous Ethanol Production Using Vapor Permeation and Pressure Swing Adsorption (PSA) Technique Saengduan Pimkaew
11.15 - 11.30	OA-023 Effects of <i>Pueraria mirifica</i> Herb on Reproductive Organ Development and Growth of Rice Field Frogs Tarinee Lonuchit
11.30 - 11.45	OA-025 Food Security and Diversity, Agricultural Industrialization and the Environmental Challenges Pongmanee Thongbai

End of Session 1

Session 2: Food Science and Technology

C5 318

Chair:	Prof. Dr. Pavinee Chinachote
Co-Chair:	Dr. Rungarun Sasanatayart
08.30 - 09.00	Invited Speaker Functional Foods and Nutraceuticals: Current Issues and Trends Prof. Dr. Pavinee Chinachote Director, Nutraceutical and Functional Food Research and Development Center Faculty of Agro-Industry, Prince of Songkla University, Thailand
09.00 - 09.30	Invited Speaker The Role of the RGJ-Ph.D. Program in Promoting Collaboration between Thai and Foreign Researchers Prof. Dr. Naksitte Coovattanachai Former Director, The Royal Golden Jubilee Ph.D. Program, Thailand
09.30 - 09.45	OF-005 Changes in Cooking Behavior of Organic and Inorganic Phatthalung Sungyod Rice during Ageing Ittiporn Keawpeng
09.45 - 10.00	OF-006 Effects of High Temperature Fluidization Technique on Starch Digestibility of High-Amylose Brown Rice Donludee Jaisut
10.00 - 10.30	Coffee Break / Poster Session / Exhibition
Breakout Session 2	
Session 2A	
Venue:	C5 318
Chairs:	Prof. Dr. Pavinee Chinachote
Co-Chairs:	Dr. Chutamat Niwat
10.30 - 10.45	OF-001 Drying Kinetics and Quality of Chopped Garlic undergoing Different Drying Methods Ratiya Thuwapanichayanan
10.45 - 11.00	OF-025 The Mathematical Models for Electrical Conductivities of Fresh Juices, Concentrated Juices and Pures during Ohmic Heating Titaporn Tumpunavatr
11.00 - 11.15	OF-007 Physicochemical Properties of Hypochlorite-Oxidized Corn Starch: the Influence of Ultrasound Chong Woei Tyng
11.15 - 11.30	OF-018 Comparative Study on Physicochemical Properties and Resistant Starch Content of Cake Prepared from Rice and Pea Dimas Satriyo Utomo
Session 2B	
Venue:	C5 319
Chairs:	Dr. Akasit Jongjareonrak
Co-Chairs:	Asst. Prof. Dr. Saroat Rawdkuen
10.30 - 10.45	OF-032 Antioxidant Activity of Plant by Products (Pink Guava Leaves and Seeds) and Their Application in Cookies Wan Nur Zahidah
10.45 - 11.00	OF-008 Effects of Storage Time of Paddy Rice on Expansion of Rice Snacks Taweesak Thongkum
11.00 - 11.15	OF-019 Pro-Oxidative Activity of Haemoglobin from Different Fish Species in Asian Seabass Muscle as Influenced by pH Sajid Maqsood
11.15 - 11.30	OF-030 Origin of Proteolytic Enzymes Involved in Production of Malaysian Fish Sauce, Budu Ng Yee Fen

Session 2A continued

- 11.30 - 11.45 OF-020
Farinograph and Extensograph Properties of Dough Added with Psyllium Husk Powder or Locust Bean Gums
 Sze-Yin Sim
- 11.45 - 12.00 OF-034
The Effect of Temperature and Extraction Time of Fruit's Flesh and Drying of Cotyledon Picung to Produce Picung Powder
 Mulyati M Tahir

Session 2B continued

- OF-022
Effect of Bromelain on Jellyfish Protein Hydrolysate Qualities
 Suttiwat Saehor
- OF-012
Effect of Nutrients in Trypticase Soy Agar on Growth Kinetics of *Salmonella* spp. under Micro-Cultivation
 Wipavadee Sangadkit

End of Session 2