



The 2nd International Conference on Agriculture and Agro-Industry

ICAAI

Fresh Produce, Novel Process and Health Product

November 20-21

Mae Fah Luang University
Chiang Rai, Thailand

2014

THE 2ND INTERNATIONAL CONFERENCE ON
AGRICULTURE AND AGRO-INDUSTRY 2014

"FRESH PRODUCE, NOVEL PROCESS
AND HEALTH PRODUCT"

Book of Abstracts

NOVEMBER 20-21, 2014



16th MFU
ANNIVERSARY
MAE FAH LUANG UNIVERSITY



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QUASENSE





Message from the President

It gives me great pleasure to officially welcome each participant to Mae Fah Luang University and to the Second International Conference on Agriculture and Agro-Industry (ICAAI 2014). Mae Fah Luang University is named in honor of the Princess Mother, whose memorial statue graces the grounds in front of the main building complex. It is acknowledged as being one of the most beautifully landscaped universities in Thailand, and I hope that this environment will inspire the creativity of the scientists here present and also encourage in developing good linkages among the scientists. We also believe that this significant event will foster our University's ambition to become a region hub for international educational exchanges.

I hope that every participant finds that being here helps them to develop collaborations leading to high quality research through the opportunity that it offers to make new contacts at both national and international level, and also across the frontiers between academic, government and private industry research and development. Achieving a flourishing and diverse world agriculture and agro-industry depends upon such contacts at all levels.

I hope that you will also have some opportunity to see something of this region's traditional culture and cuisine, and the historic old city of Chiang Rai.

I am looking forward to enjoying your company and to discovering the achievements that develop from this year's important conference.

Associate Professor Dr. Vanchai Sirichana

President

Mae Fah Luang University

Program

The 2nd International Conference on Agriculture and Agro-Industry 2014
“Fresh Produce, Novel Process and Health Product”
 Mae Fah Luang University, Chiang Rai, Thailand
 November 20-21, 2014

Thursday, November 20th 2014

Main Session: 08.00 - 12.00

C5-302

- 08.00 - 09.00 Registration and Poster Placement
- 09.00 - 09.30
- Welcome Remarks
by Dr Matchima Naradisorn
 - Welcome and Opening Remarks
by Assoc. Prof. Dr Vanchai Sirichana
 - Group Photo
- 09.30 - 10.15 Keynote Presentation 1
Fresh Products for Human Health: A High Value Horticultural Opportunity?
 Prof. Dr Julian Heyes
 Institute of Food, Nutrition and Human Health, Massey University, New Zealand
- 10.15 - 10.45 Coffee Break / Poster Session / Exhibition
- 10.45 - 11.30 Keynote Presentation 2
The Potential of ASEAN Health Food Industry towards AEC 2015
 Dr Pisuth Lertvilai
 Multibax Public Company Limited, Thailand
- 11.30 - 12.00 Invited Speaker
Insight into the Property and Behavior of Saccharides in Amorphous State
 Prof. Dr Sundaram Gunasekaran
 Department of Biological Systems Engineering, University of Wisconsin-Madison,
 United States of America
- 12.00 - 13.00 Lunch / Poster Session / Exhibition

Concurrent Sessions: 13.00 - 17.40

- Session 1: Fresh Produce Handling and Management C5-318
- Session 2: Novel Food Processing Technology C5-302,
C5-318
- Session 3: Health Food Product C5-319,
C5-320
- Session 4: Others C5-320
- 15.10 - 15.30 Coffee Break / Poster Session / Exhibition
- 17.40 - 18.00 Poster Session / Exhibition
- 18.00 - 21.00 Welcome Reception



Friday, November 21st 2014

Main Session: 08.30 – 09.15

C5-302

08.30 - 09.15 Keynote Presentation 3

Novel and Emerging Technology in Food and Biomaterial Processing

Prof. Mohammad Shafiur Rahman

Department of Food Science and Nutrition, College of Agriculture, Sultan Qaboos University,
Sultanate of Oman

Concurrent Sessions Continued: 09.15 - 12.00

Session 2: Novel Food Processing Technology

C5-302,

C5-318

Session 3: Health Food Product

C5-319,

C5-320

10.25 - 10.40 Coffee Break / Poster Session / Exhibition

12.00 - 12.15 • Student Presentation Awards

• Closing Remarks

12.15 - 13.00 Lunch

13.00 - 18.00 Post Conference Excursions