

Course Description:
Membrane Technology Workshop



Faculty of Agro-Industry, Prince of Songkla University

Presents the

**Membrane Technology Workshop:
Membrane Technology in the Food and
Beverage Industries**

Organized by

Agro-industrial Development Center for Export (ADCET),
Faculty of agro-industry, Prince of Songkla University (PSU)

Supported by

Membrane Science and Technology Research Center (MSTRC),
Food Science and Technology Association of Thailand (FoSTAT),
National Science Technology and Innovation Policy Office (STI)

Co-supported by

Advanced Membrane Technology Research Centre (AMTEC),
LPE Membrane Knowledge Center, Liquid Purification Engineering
International Co., Ltd. (LPE)

December 7-8, 2016
**Richmond-Stylish Convention Hotel &
LPE Membrane Knowledge Center**

Course Director:

Assoc. Prof. Dr. Wirote Youravong

Instructors:

- Assoc. Prof. Dr. Wirote Youravong
*Membrane Science and Technology Research Center
& Department of Food Technology, Faculty of Agro-industry
Prince of Songkla University, Hat Yai, Songkhla, Thailand 90112*
- Dr. Lau Woei Jye
*Advanced Membrane Technology Research Centre
Faculty of Petroleum and Renewable Energy Engineering,
Universiti Teknologi Malaysia, 81310 Skudai, Johor.*
- Dr. Fabien De Meester
DMF S.P.R.L., Luxembourg Str 46, 6900 Marche-en-Famenne, Belgium

Course Description: **Membrane Technology Workshop**



Course Contents/ Topics of Interests Included:

- Principle of membrane processes
- Membrane material, properties & characterization
- Membrane module and system
- Membrane process performance
- Membrane fouling and cleaning
- Membrane in the food/ beverage processing
- Applications of MicroPorous Silica Membranes & Catalyst Technologies
- Site visit/ Laboratory/ Demonstration on membrane in food processing (workshop)

Aims and Scope:

This 2-day training course aims to provide fundamental principle and practical experience in membrane technology for the food industry. The lecture will cover membrane process technology, recent membrane process in food and beverage processing and intensive show case study. The course also offers the attendees to visit membrane pilot plant and to gain some experiences in membrane pilot plant operation and to observe some food product characteristic delivered. This course is derived from a unique combination of specialization in food process engineering and membrane process technology. Industrial experience, some relevant research and recent development in membrane technology will be discussed.

This specialized training course is designed for personnel staffs working in the food and beverage industries which are owner, manager, supervisor, scientist, technologist and engineer involving process and product research and development, production department, project department, engineering department.

Learning Methods and Activities:

Lecture, Video, Site visit, Laboratory, and Practice

Avenue:

- Richmond-Stylish Convention Hotel, Nonthaburi, Thailand
- LPE Membrane Knowledge Center, Liquid Purification Engineering International Co., Ltd., Bang Yai, Nonthaburi, Thailand

Language:

Thai & English

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Program/ Schedule:

Day 1 (December 7, 2016): @Richmond-Stylish Convention Hotel

08.30-09.00	Registration / Opening Ceremony	
09.00-10.30	➤ Principle of membrane processes	Assoc.Prof.Dr.Wirote Youravong
10.30-10.45	Break	
10.45-12.00	➤ Membrane material, properties & characterization ➤ Membrane module and system	Dr.Lau Woei Jye, Assoc.Prof.Dr.Wirote Youravong
12.00-13.00	Lunch	
13.00-14.30	➤ Membrane process performance	Assoc.Prof.Dr.Wirote Youravong
14.30-14.45	Break	
14.45-16.00	➤ Membrane fouling and cleaning	Assoc.Prof.Dr.Wirote Youravong
16.00-16.30	Question & Answer	

Day 2 (December 8, 2016): @LPE Membrane Knowledge Center

08.30-09.00	Registration	
09.00-10.30	➤ Membrane in the food/ beverage processing	Assoc.Prof.Dr.Wirote Youravong
10.30-10.45	Break	
10.45-12.15	➤ Applications of MicroPorous Silica Membranes & Catalyst Technologies	Dr. Fabien De Meester
12.15-13.15	Lunch	
13.15-14.30	➤ Site visit/Laboratory/ Demonstration on membrane in food processing (<i>workshop</i>)	Assoc.Prof.Dr.Wirote Youravong, Dr.Lau Woei Jye, PSU&LPE Staffs
14.30-14.45	Break	
14.45-16.00	➤ Site visit/Laboratory/ Demonstration on membrane in food processing (<i>workshop</i>) cont.	Assoc.Prof.Dr.Wirote Youravong, Dr.Lau Woei Jye, PSU&LPE Staffs
16.00-16.30	Question & Answer/ Closing Ceremony	

Remark: Schedule is subject to change as appropriate

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Registration Fee:

- (No registration fee)

Important Dates:

Registration form submission deadline: **December 1, 2016**

Registration:

Please submit an electronic copy of your Registration Form to Mr. Apichon Kamnerdwam, E-mail: apichon.k@psu.ac.th, Fax: +66 7421 3008.

Registration Form should be in the format of MS-Word or portable document format (PDF).

Number of Expected Attendee: 40

For Additional Technical Information Contact:

Assoc. Prof. Dr. Wirote Youravong

Course director

E-mail: wirote.y@psu.ac.th

For Registration Inquiries Contact:

Mr. Apichon Kamnerdwam

Training Course Coordinator

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ADCET Web Address:

Please access the following web site for more detailed information about training course:

<http://adcet.psu.ac.th>
