



WORKSHOP

Mycotoxins in ASEAN Countries and Post-Harvest Control Measures

14-16 March 2016

Sirindhorn Science Home, Thailand Science Park, Pathum Thani

Organized by

- National Center for Genetic Engineering and Biotechnology (BIOTEC)
National Science and Technology Development Agency (NSTDA)
Ministry of Science and Technology (MOST), Thailand

In collaboration with

- SEA-EU-NET project
- French Agricultural Research Centre for International Development (CIRAD), France
- The Institute of Sciences of Food Production (ISPA-CNR), Italy
- Thammasat University (TU), Thailand

Rationale and background

Mycotoxins are toxic secondary metabolites mostly produced by three genera of filamentous fungi (*Aspergillus*, *Penicillium* and *Fusarium*). They can contaminate various agricultural commodities either before harvest or under post-harvest conditions. Several mycotoxins in agricultural products and food can cause health hazards to humans and animals, however the five sorts of mycotoxins that are relevant worldwide with regards to public health are: Aflatoxins, ochratoxins, fumonisins, zearalenone, and trichothecenes. They are relatively stable to cooking and processing temperatures. Although acute and even lethal poisoning by mycotoxins occasionally occurs, nowadays major concerns regarding mycotoxins exposure are long-term effects of chronic exposure such as the distortion of the hormone balance, suppression of the immune system, and the ability of certain mycotoxins to cause cancer. Methods for mycotoxin decontamination have been receiving increasing interest from both scientific communities and industries. Therefore, this workshop has been setup to share the recent knowledge on mycotoxins decontamination strategies (physical, chemical and biological) in order to provide safe food to the consumer.

The workshop is supposed to offer insight into the current situation of mycotoxin contamination in Southeast Asia and to provide knowledge on various strategies to prevent and treat mycotoxin contamination in order to assist food companies to ensure safety products. Furthermore, the event will offer the possibility to discuss future cooperation between participants from both Southeast Asia and Europe on an institutional or project level.

Organizing Committee

- | | |
|----------------------------|-------------------------|
| ▪ Dr. Wonnop Visessanguan | BIOTEC, NSTDA, Thailand |
| ▪ Dr. Nipa Chokesajjawatee | BIOTEC, NSTDA, Thailand |
| ▪ Dr. Michelangelo Pascale | ISPA-CNR, Italy |
| ▪ Dr. Sloan Saletes | CIRAD, France |

Project Coordinator

- | | |
|-----------------------------|--------------------------------|
| ▪ Dr. Awanwee Petchkongkaew | Thammasat University, Thailand |
|-----------------------------|--------------------------------|

No. of estimated participants: 80 (including local and ASEAN participants)

Target audience: Researcher, scientist, government officer, private sector, company

Language: The whole course will be given in English without translation

Registration fee: (includes VAT, Lunch, Refreshment, Workshop materials and Welcome dinner)

Type	Registration rate
Foreign Delegate - General	150 USD
Foreign Delegate - Student	100 USD
Thai Delegate	3,000 Baht
Thai Student*	2,000 Baht

* Photocopy of student card must be sent with registration form

Registration deadline: **4 March 2016**

Payment: Payment method is wire transfer, please make a payment to

Bank Name: Bangkok Bank, Thailand Science Park Branch

Savings Account Name: BIOTEC – National Center for Genetic Engineering and Biotechnology

Account No.: 080-0-002800

Swift Code: BKKBTHBK **Bank Code:** 0080

Bank Address: 111 Phaholyothin Road, Khlong Nueng, Khlong Luang, PathumThani12120, Thailand

General information

Public transportation to the venue

Air-conditioned bus routes:

- No. 29 (Bangkok Railway Station – Thammasart University, Rangsit)
- No. 39 (Grand Palace – Thammasart University, Rangsit)
- No. 510 (Victory Monument – Thammasart University, Rangsit - Thai Market)

Air-conditioned van routes:

- No. 118 (Mo Chit BTS Sky Train Station – Thailand Science Park)
- No. 85 (Victory Monument – Thammasart University, Rangsit)

Accommodation

You are responsible for making your own arrangements.

Suggested accommodation:

- Sirindhorn Science Home (Located in Thailand Science Park)
 - Dormitory (2 beds) 1,000 Baht/ night including Breakfast
 - Dormitory (4 beds) 1,500 Baht/ night including Breakfast
 - Deluxe room (2 beds) 1,500 Baht/ night including Breakfast
 - Tel: (66) 2529 7100 ext. 77235 Fax: (66) 2529 7147
 - Website: http://www.nstda.or.th/ssh/service/service_1.php
- Institute of East Asian Studies (A 10-minute-walk from Thailand Science Park)
 - Twin room (2 beds) 950 Baht/ night not include Breakfast
 - Tel: (66) 2564 5000 – 3
 - Website: http://www.asia.tu.ac.th/ieas/ieas_buiding.htm

TENTATIVE PROGRAM

Day 1 : 14 March 2016	
08:30 - 09:00	Registration
09:00 - 09:15	Opening ceremony By BIOTEC, NSTDA and TU
09:15 - 09:45	Mycotoxins: A global overview By Hans van Egmond Retired from RIKILT Wageningen UR, The Netherlands
09:45 - 10:15	Mycotoxins, risk assessment and development of regulations By Hans van Egmond Retired from RIKILT Wageningen UR, The Netherlands
10:15 - 10:30	<i>Coffee break</i>
10:30 - 12:00	ASEAN & EU mycotoxins legislation (45 minutes for each presentation) <i>EU side</i> The EU Policy on mycotoxins in feed and food: Achievements, recent developments and outlook By Frans Verstraete European Commission <i>ASEAN side</i> By TBA
12:00 - 13:00	<i>Lunch</i>
13:30 - 14:00	On the impact of climate change on the occurrence and analysis of mycotoxins By Rudolf Krska IFA-Tulln, Austria
14:00 - 14:30	Mycotoxins analysis as a quality control tool By Michael Fischer R-Biopharm
14:30 - 15:00	Post-harvest physical, chemical and biological approaches to minimise mycotoxins in food/feed By Naresh Magan Cranfield University, UK
15:00 - 15:15	<i>Coffee break</i>
15:15 - 15:45	Physical methods for mycotoxin decontamination of agricultural commodities By Michelangelo Pascale ISPA-CNR, Italy
15:45 - 16:15	Enzymatic detoxification of mycotoxins By Dieter Moll BIOMIN Research Center, Austria
16:15 - 16:30	Question and Answer session
17:00 - 19:00	<i>Welcome dinner (cocktail)</i>

TENTATIVE PROGRAM (CONTINUED)

Day 2 : 15 March 2016			
09:00 - 09:15	Registration		
09:15 - 09:45	Counteracting mycotoxicosis in animals by feed additives By Giuseppina Avantaggiato ISPA-CNR, Italy		
09:45 - 10:15	Mycotoxin biomarkers and application of mycotoxin biomarker methods to investigate the efficacy of mycotoxin inactivating agents By Heidi Schwartz IFA-Tulln, Austria		
10:15 - 10:30	<i>Coffee break</i>		
10:30 - 12:30	<p>Round table discussion on the mycotoxins situation in ASEAN countries (Country report) 10 minutes presentation of each country</p> <ul style="list-style-type: none"> • Brunei Darussalam • Cambodia: TY Nimol, Royal Academy of Cambodia • Indonesia: Endang S. Rahayu, Universitas Gadjah Mada • Laos PDR • Malaysia: Latiffah Zakaria, Universiti Sains Malaysia (USM). • Myanmar: Aung Kyaw oo, Plant Protection Division, Yangon • The Philippines: Hazel Marie Boloron, Central Mindanao University (CMU) • Singapore: Jeff Lim, Health Sciences Authority (HSA) • Thailand: Pisan Pongsapitch, The National Bureau of Agricultural Commodity and Food Standards (ACFS) • Vietnam: Nguyen Quang Thieu, Nong Lam University <p>Moderator Hans van Egmond</p>		
12:30 - 13:30	<i>Lunch</i>		
13:30 - 17:30	Concurrent session		
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>Vendor seminars</p> <ul style="list-style-type: none"> • Biomin, Austria • R-Biopharm, Germany • Romer Labs, Singapore • Agilent, Thailand • Vicam, a Waters Business, USA • F.I.S.s.r.l, Feed Industry Service, Italy </td> <td style="width: 50%; vertical-align: top;"> <p>Discussion for future collaboration: Organizing committee, keynote speakers, ASEAN and EU representatives, companies (by invitation only)</p> </td> </tr> </table>	<p>Vendor seminars</p> <ul style="list-style-type: none"> • Biomin, Austria • R-Biopharm, Germany • Romer Labs, Singapore • Agilent, Thailand • Vicam, a Waters Business, USA • F.I.S.s.r.l, Feed Industry Service, Italy 	<p>Discussion for future collaboration: Organizing committee, keynote speakers, ASEAN and EU representatives, companies (by invitation only)</p>
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17:30 - 18:00	Certification and closing ceremony		

TENTATIVE PROGRAM (CONTINUED)

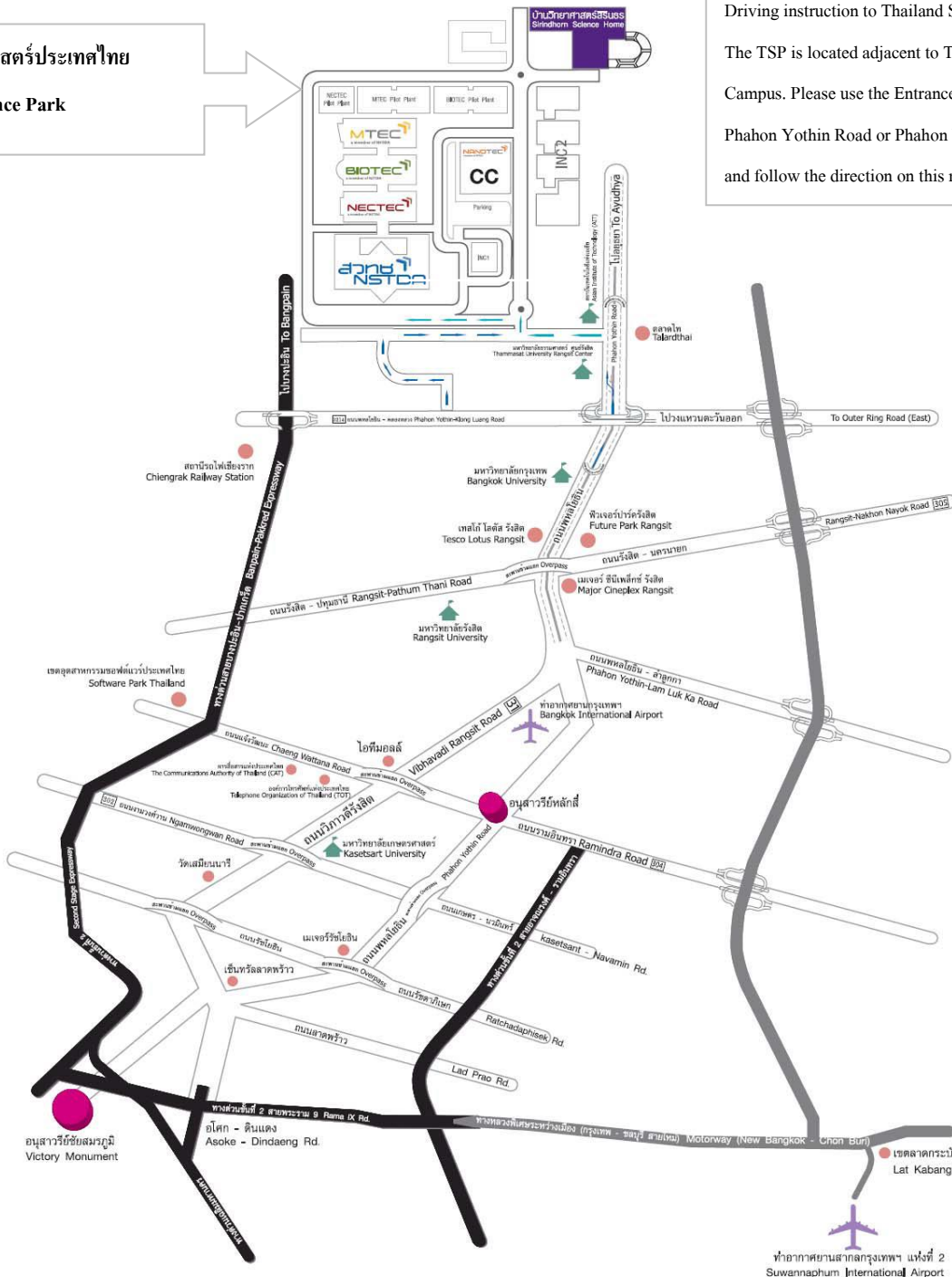
Day 3 : 16 March 2016		
07:30 - 07:45	Registration for field trip	
07:45 - 09:00	Departure from Sirindhorn Science Home, NSTDA	
09:00 - 12:00	GROUP 1 : Field trip at Mycotoxins laboratory Toxico-biochemistry Sector, Bureau of Quality Control of Livestock Products, Department of Livestock Development, Ministry of Agriculture Pathum Thani, Thailand	GROUP 2 : Field trip at Charoen Pokphand (CP) Chonburi, Thailand
	<i>Lunch</i>	
13:00 -16:00	Field trip at Charoen Pokphand (CP) Chonburi, Thailand	Field trip at Mycotoxins laboratory Toxico-biochemistry Sector, Bureau of Quality Control of Livestock Products, Department of Livestock Development, Ministry of Agriculture Pathum Thani, Thailand

Organizer reserves the right to amend program without prior notice

MAP: Thailand Science Park



อุทยานวิทยาศาสตร์ประเทศไทย
Thailand Science Park



การเดินทางมาอุทยานวิทยาศาสตร์ประเทศไทยเดินทางมาได้ 2 เส้นทาง คือ ถนนพหลโยธิน หรือ ถนนพหลโยธิน-คลองหลวง โดยใช้ประตูทางเข้า-ออก ของมหาวิทยาลัยธรรมศาสตร์ ศูนย์รังสิต แล้วเดินทางตามลูกศรที่ปรากฏในแผนที่

Driving instruction to Thailand Science Park (TSP);
The TSP is located adjacent to Thammasat University, Rangsit Campus. Please use the Entrance of Thammasat University on Phahon Yothin Road or Phahon Yothin – Khlong Luang Road and follow the direction on this map.

For further information, please contact: Course Secretariat
Technical Training Unit
National Center for Genetic Engineering and Biotechnology (BIOTEC)
113 Thailand Science Park, Phahonyothin Rd., Khlong Nueng
Khlong Luang, Pathum Thani 12120 Thailand
Phone: (66) 2564 6700 ext. 3379-3382 Fax.: (66) 2564 6574
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