



MS Food Security  
& Climate Change



# FOOD SECURITY & CLIMATE CHANGE SUMMER SCHOOL MALAYSIA 2018

**OIL PALM - CATTLE INTEGRATION:  
A TRANSITION TOWARDS SUSTAINABILITY**

**UNIVERSITI PUTRA MALAYSIA**

**14 - 28 JULY 2018**



Co-funded by the  
Erasmus+ Programme  
of the European Union

# WELCOMING REMARK

Welcome to Malaysia!

It is our pleasure to welcome you to the Food Security and Climate Change Summer School 2018. The Summer School is part of the Joint Master in Food Security and Climate Change initiative funded by the European Commission's ERASMUS + Capacity Building for Higher Education. The Summer School is co-funded by the Southeast Asian University Consortium for Graduate Education in Agriculture and Natural Resources (UC) and is jointly organised by UPM, University of Natural Resources and Life Sciences, Vienna (BOKU) and Universitas Gadjah Mada (UGM).

This year, the Summer School will be held in UPM, Serdang with fieldworks in Pahang and Negeri Sembilan from 14-28 July 2018. The two-week Summer School with "Oil Palm-Cattle Integration: A Transition Towards Sustainability" as its theme will provide a real-life educational opportunity for participants to learn about sustainable agriculture and food systems in the face of long-term uncertainties and risks related to resource availability and climate change. Students will be exposed to various aspects of sustainable agriculture in crop-animal integration including healthy environment, economic profitability, and social and economic equity. During this 2-week programme, students will experience common agriculture practices of farmers and companies operating oil palm-cattle integration and compare these practices with those operating only oil palm plantation.

We welcome all participants and speakers to the Summer School 2018.

# CONTENT

Welcoming Remark	1
About Malaysia	3
About Universiti Putra Malaysia	4
Programme Background	5
Overall Objectives	7
Learning Outcomes	7
Schedule	8
Learning Outcomes of Activities	14
Speakers	17
Facilitators	18
Graduate Student Assistants	19
Participants	20
Committee Members	22
Appreciation	23
Emergency Contact Numbers	24

# ABOUT MALAYSIA



Malaysia is a federal constitutional monarchy located in Southeast Asia. It consists of thirteen states and three federal territories and has a total landmass of 330,803 square kilometres (127,720 sq mi) separated by the South China Sea into two similarly sized regions, Peninsular Malaysia and East Malaysia (Malaysian Borneo). Malaysia consists of various races and religions where Malays, Indians, Chinese and many other ethnic groups live together in peace and harmony. Over half of the population is of Malay descent; the Chinese form almost a quarter of the total population. Malaysians of Indian descent form approximately 7% of the population; while all indigenous people combined form about 11% of the total population in Malaysia. Multiculturalism has made Malaysia a gastronomical paradise and home to hundreds of colorful festivals.

Since its independence on 31 August 1957, Malaysia has had one of the best economic records in Asia. The economy has traditionally been fuelled by its natural resources, but is expanding in the sectors of science, tourism, commerce and medical tourism. The official and national language of Malaysia is Malay language. English remains an active second language which is widely employed in government and commerce and a compulsory subject in all schools. Most Malaysians are bilingual or multilingual.



# ABOUT UNIVERSITI PUTRA MALAYSIA

Food Security and Climate Change  
Summer School Malaysia  
2018



Universiti Putra Malaysia was first established in 1931 and was formerly known as Universiti Pertanian Malaysia. In 1997, the name Universiti Pertanian Malaysia was changed to Universiti Putra Malaysia (UPM) by former Prime Minister, Tun Dr. Mahathir Mohammad, as a strategic gesture to portray the status of UPM as a centre of higher education, especially in science and information technology, which facilitate national development in the new millennium.

UPM is located strategically within the Multimedia Super Corridor, which is only 10 minutes' drive to Putrajaya and 30 minutes' drive to the Kuala Lumpur City Centre. As one of the largest universities in Malaysia, UPM is also a key-player in contributing to the growth of learned and skilled human capital in the nation. UPM presently has 16 faculties and 10 institutes offering a variety of academic programmes to meet the current needs. The self-accreditation status awarded to UPM has greatly influenced the offering of high quality academic programmes and highlighted UPM as an excellent research university in the nation.

As a premier institution of learning, widely recognised for leadership in research and innovation, UPM continues to strive for excellence. In order to motivate the entire university community towards achieving excellence, it ensures that all the members, both students and members of staff, share the responsibility of strictly adhering to the demands of the university's vision, mission and goals.



# PROGRAMME BACKGROUND



\*Photos taken from the 1<sup>st</sup> Summer School held in Yogyakarta, Indonesia

Climate change is a complex environmental factor adversely affecting different sectors of economy in both developed and developing world. It will undoubtedly affect agriculture production and consequently food security worldwide. Each year, The Food Security and Climate Change (FSCC) Summer School will include advanced programs that address in-depth related topics within the world food system framework. This year FSCC Summer School organised by Universiti Putra Malaysia (UPM) will be focusing on oil palm production and cattle integration as a potential sustainability transition strategy. This programme will provide an educational opportunity for participants to work with interdisciplinary facilitators from Europe and Asian, farmers, and stakeholders in Malaysia to explore the sustainability of this bountiful tropical crop.

As one of the biggest producers and exporters of oil palm products, Malaysia fulfills the growing global demand for oil and fats sustainably. However, over the years oil palm production has received negative publicity regarding its ecological sustainability. This 2-week intensive program is designed for university students who wish to have in-depth learning in oil palm-cattle integration with the guide of interdisciplinary core facilitation team of researchers, members of governmental and non-governmental organisations around the world. The programme brings together 45 university students from a wide range of disciplines and nationalities. The curriculum is also interdisciplinary and multicultural, allowing students to work in diverse groups and collaborative ways. Lectures, field trips, student presentations, small group discussions, artistic and creative activities are learning strategies utilised in this programme that allow for academic content to be blended with an immersive and experiential learning to create a unique opportunity for the participants.

In the first week of the program, participants will attend five interactive seminars related to the theme and visit one of Sime Darby Plantation's oil palm mill. Sime Darby was established as the government's on-going initiatives to boost the yield of oil palm production and is now the world's largest oil palm plantation company with planted area producing 2.48 million tonnes or four percent of the world's crude palm oil (CPO) output annually. The second week of the programme involves fieldworks in different oil palm plantation sites managed by RISDA (Rubber Industry Smallholders Development Authority) and FELDA (Federal Land Development Authority). These activities aim at strengthening participants' knowledge and understanding in sustainable agriculture and food systems in the face of long-term uncertainties and risks related to resource availability and climate change. Participants will also have the opportunity to engage with the local community and the local smallholders during the fieldworks. The programme will end with a conference and graduation ceremony for all FSCC participants.



\*Photos taken from the 1<sup>st</sup> Summer School held in Yogyakarta, Indonesia

## OVERALL OBJECTIVES

The programme will enable participants to:

- Become agents of change for sustainability
- Experience the complexity of food systems and their ecological, social, and economic dimensions in terms of global changes
- Analyse challenges such as climate change, integrated farming practices, land use, aging farming populations, livestock, water availability and other possible responses
- Identify leverage points for inducing transitions to sustainability

## LEARNING OUTCOMES

- Able to learn actively about farming systems considering social, economic and environmental dimensions
- Understand and assess the social, economic and environmental sustainability of crop-animal integration in farming systems
- Explore the requirements to be an agent for sustainability and institutional arrangements that support sustainability



# SCHEDULE

TIME / VENUE	ACTIVITY	SPEAKER
<b>14 JULY 2018 (SATURDAY)</b>		
Arrival of participants		
<b>15 JULY 2018 (SUNDAY)</b>		
09.30 - 17.00 (BK1)	<ul style="list-style-type: none"> <li>FSCC Seminar for MSFSCC Students</li> <li>Free activity for other participants</li> </ul>	Dr. Maria Cristeta N. Cuaresma
15.00 - 19.00 (BK6)	Facilitators coordination meeting	<ul style="list-style-type: none"> <li>Dr. Mohd Razif Harun</li> <li>Dr. Lorenz Probst</li> <li>Dr. Francis Sigit Setyabudi</li> <li>Mr. Saiful Maskan</li> </ul>
<b>16 JULY 2018 (MONDAY)</b>		
08.30 - 09.30 (Agriculture hall)	Opening ceremony	<ul style="list-style-type: none"> <li>Prof. Datin Paduka Dato' Dr. Aini Ideris <i>Vice Chancellor UPM</i></li> <li>Dr. Gil C. Saguiguit, Jr. <i>Director of SEARCA</i></li> </ul>
09.30 - 10.00	Photo session + coffee break	
10.00 - 11.00 (BK1)	Course outline	<ul style="list-style-type: none"> <li>Prof. Dr. Robiah Yunus</li> <li>Dr. Mohd Razif Harun</li> <li>Mr. Saiful Maskan</li> </ul>
11.00 - 13.00 (BK1)	Ice breaking session	<ul style="list-style-type: none"> <li>Dr. Mohd Razif Harun</li> <li>Dr. Francis Sigit Setyabudi</li> <li>Ms. Anna Kroutilova</li> </ul>
13.00 - 14.00	Lunch break	
14.00 - 15.30 (BK1)	<b>Seminar 1:</b> Inter-linkages of Food Security and Climate Change	Prof. Datuk Dr. Mad Nasir Shamsuddin
15.30 - 16.00	Coffee break	
16.00 - 17.30 (BK1)	<b>Seminar 2:</b> Sustainability Transition	<ul style="list-style-type: none"> <li>Dr. Lorenz Probst</li> <li>Dr. Francis Sigit Setyabudi</li> <li>Ms. Anna Kroutilova</li> </ul>

TIME / VENUE	ACTIVITY	SPEAKER
20.00 -22.00	Welcoming dinner at Tenera Hotel, Bangi	
<b>17 JULY 2018 (TUESDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 10.00 (BK1)	<b>Seminar 3:</b> Climate Change and Livestock: Impacts, Adaptation, and Mitigation	<ul style="list-style-type: none"> <li>• Assoc. Prof. Dr. Somkiert Prasanpanich</li> <li>• Dr. Idat Galih Permana</li> </ul>
10.00 - 10.30	Coffee break	
10.30 - 12.30 (BK1)	<b>Seminar 4:</b> Integrated Livestock-crop Systems in Mitigating Climate Change and Enhancing Food Security	Prof. Dr. Budi Guntoro
12.30 - 14.00	Lunch break	
14.00 - 15.30 (BK1)	<b>Seminar 5:</b> Oil Palm-Cattle Integration: Strategies to Achieve Synergy between Food Production and Environmental Quality towards Sustainability	Dr. Liang Juan Boo
15.30 - 16.00	Coffee break	
16.00 - 17.30 (BK1)	<b>Reflection Session:</b> Oil Palm – Cattle Integration: A Transition towards Sustainability Food Security and Climate Change	<ul style="list-style-type: none"> <li>• Dr. Lorenz Probst</li> <li>• Dr. Francis Sigit Setyabudi</li> <li>• Dr. Mohd Razif Harun</li> <li>• Prof. Dr. Budi Guntoro</li> <li>• Assoc. Prof. Dr. Somkiert Prasanpanich</li> <li>• Dr. Idat Galih Permana</li> <li>• Ms. Anna Kroutilova</li> </ul>
	Dinner	
<b>18 JULY 2018 (WEDNESDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	<b>Excursion 1:</b> Visit to Sime Darby Palm Oil Mill	Prof. Dr. Robiah Yunus

TIME / VENUE	ACTIVITY	SPEAKER
12.30 - 14.00	Lunch	
14.00 -16.00	<b>Excursion 2:</b> Visit to Ladang 16, UPM - Dairy and Deer	All participants and facilitators
16.00 - 17.30	Review and discussion	<ul style="list-style-type: none"> <li>• Dr. Mohd Razif Harun</li> <li>• Ms. Anna Kroutilova</li> <li>• Facilitators</li> </ul>
20.00 - 22.30	Dinner - Evening cultural performance by participants	
<b>19 JULY 2018 (THURSDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 09.30 (BK1)	Individual assessment	Dr. Mohd Razif Harun
	Coffee break	
09.30 - 10.00 (BK1)	Preparation for field work - Introduction to field work	<ul style="list-style-type: none"> <li>• Dr. Lorenz Probst</li> <li>• Dr. Mohd Razif Harun</li> </ul>
10.00 - 13.00 (BK1)	Preparation for field work - Survey	Facilitators
13.00 - 14.00	Lunch break	
14.00 - 17.00 (BK1)	Preparation for field work (cont.) - On-site data collection	Facilitators
	Coffee break	
17.00 - 20.00	Depart for Bahau, Negeri Sembilan	
	Dinner	
<b>20 JULY 2018 (FRIDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	<b>Field Work 1:</b> Palong 1, Bahau, Negeri Sembilan	Facilitators
12.30 - 14.30	Lunch break	

TIME / VENUE	ACTIVITY	SPEAKER
14.30 - 16.30	Field Work: Palong 1, Bahau, Negeri Sembilan (cont.)	Facilitators
16.30 - 17.30	Reflection and data entry	Facilitators
	Dinner	
<b>21 JULY 2018 (SATURDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	<b>Field Work 2:</b> Palong 2, Bahau, Negeri Sembilan	Facilitators
12.30 - 14.00	Lunch break	
14.00 - 14.30	Preparation to depart for Keratong 1, Rompin, Pahang	
14.30 - 15.30	Depart for Keratong 1, Rompin, Pahang	
15.30 - 17.30	Introduction to the host	<ul style="list-style-type: none"> <li>• Dr. Mohd Razif Harun</li> <li>• Facilitators</li> </ul>
	Dinner	
<b>22 JULY 2018 (SUNDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	<b>Field work 3:</b> Keratong 3, Rompin, Pahang	Facilitators
12.30 - 14.00	Lunch break	
14.00 - 16.00	Field work 3: Keratong 3, Rompin (cont.)	
16.00 - 17.30	Reflection and data entry	Facilitators
	Dinner	
<b>23 JULY 2018 (MONDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	<b>Field Work 4:</b> Keratong 1, Rompin, Pahang	Facilitators

TIME / VENUE	ACTIVITY	SPEAKER
12.30 - 14.00	Lunch break	
14.00 - 16.00	Field Work 4: Keratong 1, Rompin, Pahang (cont.)	
16.00 - 17.30	Reflection and data entry	Facilitators
	Dinner	
<b>24 JULY 2018 (TUESDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	<b>Field Work 5:</b> Keratong 2, Rompin, Pahang	Facilitators
12.30 - 14.00	Lunch break	
14.00 - 16.00	Field Work 5: Keratong 2, Rompin, Pahang (cont.)	
16.00 -17.30	Reflection and data entry	Facilitators
	Dinner	
<b>25 JULY 2018 (WEDNESDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	Preparation of feedback workshop for presentation to community	Facilitators
12.30 - 14.00	Lunch break	
14.00 - 15.00	Preparation of feedback workshop for presentation to community (cont.)	Facilitators
15.00 - 21.00	Community activities and dinner with settlers	Dr. Mohd Razif Harun
<b>26 JULY 2018 (THURSDAY)</b>		
07.00 - 08.30	Preparation and return to UPM	
08.30 - 12.30	Visit to Hutan Lipur Ulu Bendul, Negeri Sembilan	

TIME / VENUE	ACTIVITY	SPEAKER
12.30 - 14.00	Lunch	
14.00 - 16.00	Data analysis and discussion on the findings	Facilitators
16.00 - 16.30	Coffee break	
16.30 - 18.00	Data analysis and discussion on the findings (cont.)	
	Dinner	
<b>27 JULY 2018 (FRIDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 12.30	Conference preparation	Participants
12.30 - 14.00	Lunch	
14.00 - 17.30	Conference and graduation ceremony	Facilitators Participants
	Dinner	
<b>28 JULY 2018 (SATURDAY)</b>		
08.00 - 08.30	Daily briefing	
08.30 - 17.30	Tour in Kuala Lumpur	
	Dinner	
<b>29 JULY 2018 (SUNDAY)</b>		
	Depart for home country	

# LEARNING OUTCOMES OF ACTIVITIES

## SEMINAR

### 1

#### Inter-linkages of Food Security and Climate Change

*Prof. Datuk Dr. Mad Nasir Shamsuddin*

- To define terms and to conceptualize inter-linkages between food security and climate change
- To discuss strategies for enhancing food security through adaptation and mitigation to climate change
- To establish the link between climate change and food security in Southeast Asia

## SEMINAR

### 2

#### Sustainability Transition

*Dr. Lorenz Probst and Dr. Francis Sigit Setyabudi*

- To recognise the linkages between the systemic dimensions of the food security-climate system
- To relate food security-climate system thinking with sustainability transitions
- To evaluate the complexity of change

## SEMINAR

### 3

#### Climate Change and Livestock: Impacts, Adaptation, and Mitigation

*Assoc. Prof. Dr. Somkiert Prasanpanich*

- To understand the contribution of livestock production to climate change and *vice versa*
- To review policies that support and facilitate the implementation of climate change adaptation and mitigation measures through livestock production
- To propose specific climate change adaptation and mitigation strategies in the livestock sector

# LEARNING OUTCOMES OF ACTIVITIES

## SEMINAR

### 4

#### Integrated Livestock-crop Systems in Mitigating Climate Change and Enhancing Food Security

*Prof. Dr. Budi Guntoro*

- To understand the integrated livestock-crop system in mitigating climate change
- To relate the integrated livestock-crop system with food security issues
- To compare the pros and cons of the integrated livestock-crop system with the conventional practices
- To establish the interaction between livestock and crop as a system for achieving food security and environmental sustainability

## SEMINAR

### 5

#### Oil Palm-Cattle Integration: Strategies to Achieve Synergy between Food Production and Environmental Quality towards Sustainability

*Dr. Liang Juan Boo*

- To review the sustainability in palm oil industry
- To understand the systematic and non-systematic management of cattle integration in oil palm plantation
- To evaluate the effect of systematic management of cattle integration in oil palm plantation in terms of their ecological, social and economic dimensions



# LEARNING OUTCOMES OF ACTIVITIES

## EXCURSION

### 1

#### Visit to Sime Darby Palm Oil Mill

- To acquire a knowledge on the current management practice and technologies used in the mill operation including the palm oil extraction process, wastewater treatment technology
- To explain the current research and development in palm oil mill
- To understand the impact of the mill operation on the social, environment and economic

## EXCURSION

### 2

#### Visit to Ladang 16, UPM - Dairy and Deer

- To understand and learn the experience about modern dairy barn operation including the milking parlors, cow care, cow feed, pasteurisation

## FIELD WORK

#### Palong and Bahau, Negeri Sembilan & Keratong, Rompin, Pahang

- To understand the importance of data collection and measurement
- To relate environmental, social and economic impacts in different farming systems
- To explain the importance of different farming systems related to sustainability in food security and climate change

# SPEAKERS

**Dr. Maria Cristeta N. Cuaresma**  
*University Consortium*



**Prof. Datuk Dr. Mad Nasir Shamsuddin**  
*Universiti Putra Malaysia*



**Dr. Lorenz Probst**  
*University of Natural Resources and Life Sciences*



**Dr. Francis Sigit Setyabudi**  
*Universitas Gadjah Mada*



**Ms. Anna Kroutilova**  
*Czech University of Life Sciences Prague*



**Assoc. Prof. Dr. Somkiert Prasanpanich**  
*Kasetsart University*



**Dr. Idat Galih Permana**  
*Bogor Agricultural University*



**Prof. Dr. Budi Guntoro**  
*Universitas Gadjah Mada*



**Dr. Liang Juan Boo**  
*Universiti Putra Malaysia*



# FACILITATORS

NO	FULL NAME	UNIVERSITY
1	DR. LORENZ PROBST	UNIVERSITY OF NATURAL RESOURCES AND LIFE SCIENCES
2	DR. HAMID AL BILALI	UNIVERSITY OF NATURAL RESOURCES AND LIFE SCIENCES
3	MS. ANNA KROUTILOVÁ	CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE
4	DR. FRANCIS FRANCIS M C SIGIT SETYABUDI	UNIVERSITAS GADJAH MADA
5	PROF. DR. BUDI GUNTORO	UNIVERSITAS GADJAH MADA
6	DR. ARINI WAHYU UTAMI	UNIVERSITAS GADJAH MADA
7	DR. NAFIATUL UMAMI	UNIVERSITAS GADJAH MADA
8	ASSOC. PROF. DR. SOMKIERT PRASANPANICH	KASETSART UNIVERSITY
9	DR. MARIA CRISTETA N. CUARESMA	UNIVERSITY CONSORTIUM
10	DR. EDNA AGUILAR	UNIVERSITY OF THE PHILIPPINES LOS BANOS
11	MR. EFRELITO JAY M. GUITTAP	CENTRAL LUZON STATE UNIVERSITY
12	DR. MOHD RAZIF HARUN	UNIVERSITI PUTRA MALAYSIA
13	DR. SURIYA KUMARI A/P RAMIAH	UNIVERSITI PUTRA MALAYSIA
14	DR. MOHD. HUZAIRI MOHD ZAINUDIN	UNIVERSITI PUTRA MALAYSIA
15	DR. SHOKRI JUSOH	UNIVERSITI PUTRA MALAYSIA
16	DR. BADRUL AZHAR MD. SHARIF	UNIVERSITI PUTRA MALAYSIA
17	ASSOC. PROF. DR NOLILA MOHD. NAWI	UNIVERSITI PUTRA MALAYSIA
18	DR. FRISCO NOBILLY	UNIVERSITI PUTRA MALAYSIA
19	DR. DALJIT SINGH A/L KARAM SINGH	UNIVERSITI PUTRA MALAYSIA
20	MR. SAIFUL AZLIN MASKAN	UNIVERSITI PUTRA MALAYSIA
21	MR. ZAIDI TAJUDDIN	UNIVERSITI PUTRA MALAYSIA

# GRADUATE STUDENT ASSISTANTS

NO	FULL NAME	UNIVERSITY
1	NURADILAH BINTI DENAN@ADNAN	UNIVERSITI PUTRA MALAYSIA
2	NURUL ASYIKIN BINTI YAZED	UNIVERSITI PUTRA MALAYSIA
3	NURULHUDA BINTI MOHD IDROS	UNIVERSITI PUTRA MALAYSIA
4	NUR SYAFIQAH BINTI CHE OMAR	UNIVERSITI PUTRA MALAYSIA
5	ALIA KHALIDAH BINTI ISMAIL	UNIVERSITI PUTRA MALAYSIA
6	RENUH SELVARAJU	UNIVERSITI PUTRA MALAYSIA
7	MELISSA ALINA BINTI YUSOFF	UNIVERSITI PUTRA MALAYSIA

# PARTICIPANTS



## **UNIVERSITY OF NATURAL RESOURCES AND LIFE SCIENCES VIENNA**

TESSA SCHOONES  
STRAHLHOFER MATTHIAS  
ZHAO YINAN  
HERMINE ZIMMERMANN  
REINHARD REBERNIG  
KRGOVICKLARA MARIJA  
CAROLA EGGER  
VACA SANCHEZ SARA ANDREA



## **ROYAL UNIVERSITY OF AGRICULTURE**

SNGUON LOM ORNG  
HAN SOCHEAT  
NAI RATHANA



## **UNIVERSITAS GADJAH MADA**

FATHI ALFINUR RIZQI FATHI  
NUR AINI MAHMUDAH  
RIZKY BRISHA NUARY  
NURIKA ARUMSARI  
MEILINDA DAMAYANTI



## **UNIVERSITI PUTRA MALAYSIA**

LUA HWEE YING  
NURLIYANA NORDIN

## **BOGOR AGRICULTURAL UNIVERSITY**

NINDYA ATIKA INDRASTUTI  
MUHAMMAD QOLA ARIANSYAH DAMANIK  
HAMIDATUN  
ULFA NURROFINGAH

## **NILAI UNIVERSITY MALAYSIA**

OGBONNA RUTH AMARACHI

## **UNIVERSITY OF BRAWIJAYA**

DANANG KUMARA HADI DANANG



**KASETSART UNIVERSITY**

TANAPORN CHALEARMSRIMUANG  
CHONNIPA CHITTRAKHANI  
SUJITTRA KOKKRUA



**TOKYO UNIVERSITY OF AGRICULTURE**

ALAM MOHAMMAD KHURSHED  
SOUICHIROU SUGIURA

**CHIANG MAI UNIVERSITY**

SUPAMOON PAPUTSARA  
HASAN TASNEEM

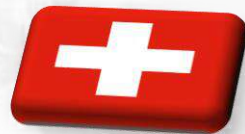
**PRINCE OF SONGKLA UNIVERSITY**

CHUENJIT DUANGPORN



**UNIVERSITY OF THE PHILIPPINES LOS BANOS**

REPALAM JUSTINE LOUISE



**BERN UNIVERSITY OF APPLIED SCIENCES**

JOEP VAN DER POEL

# COMMITTEE MEMBERS

NO	NAME	PTJ
1	PROF. DR. ROBIAH YUNUS	SGS
2	PROF. DR. ZALILAH MOHD. SHARIFF	SGS
3	ASSOC. PROF. DR. AWIS QURNI SAZILI	ITAFoS
4	ASSOC. PROF. DR. NOLILA MOHD NAWI	FAC. OF AGRICULTURE
5	DR. SHOKRI JUSOH	FAC. OF AGRICULTURE
6	DR. FRISCO NOBILLY	FAC. OF AGRICULTURE
7	DR. DALJIT SINGH A/L KARAM SINGH	FAC. OF AGRICULTURE
8	DR. MOHD RAZIF HARUN	FAC. OF ENGINEERING
9	DR. BADRUL AZHAR MD. SHARIF	FAC. OF FORESTRY
10	DR. FAEZ FIRDAUS JESSE ABDULLAH	UCTC
11	DR. LIANG JUAN BOO	ITAFoS
12	DR. MOHD. HUZAIRI MOHD ZAINUDIN	ITAFoS
13	DR. SURIYA KUMARI A/P RAMIAH	ITAFoS
14	DR. ANNA ARYANI AMIR	ITAFoS
15	MR. SAIFUL AZLIN MASKAN	SGS
16	MS. FARAH EDURA ABDUL KARIM	SGS
17	MR. MOHAMAD AZIMIN MOHD AZIZI	SGS
18	MR. ZAIDI TAJUDDIN	UCTC
19	MR. MUHAMMAD ADIP MOHD TAMAMI	UCTC
20	MR. MOHAMAD HUSNI OMAR	ITAFoS
21	MRS. NIK AMELIA NIK MUSTAPHA	ITAFoS
22	MR. MUHAMMAD ADZAN MASTOR	ITAFoS
23	MS. NORSHAHIRA ABD. AZIZ	ITAFoS
24	MRS. NUR AMANINA NOR AZLAN SHAH	ITAFoS

The Organising Committee for  
**FOOD SECURITY & CLIMATE CHANGE  
SUMMER SCHOOL MALAYSIA 2018**  
would like to express gratitude and appreciation  
to the following for their support and commitment:

### **CO-ORGANISERS**

University of Natural Resources and Life Sciences (BOKU)  
Universitas Gadjah Mada (UGM)

### **SPONSORS**

European Commission's ERASMUS + Capacity Building for Higher Education  
Southeast Asian University Consortium for Graduate Education in Agriculture and Natural  
Resources (UC)

### **PARTNERS**

Kasetsart University (KU)  
University of the Philippines Los Baños (UPLB)  
Institut Pertanian Bogor (IPB)  
Central Luzon State University (CLSU)  
Chiang Mai University (CMU)  
Nilai University  
Prince of Songkla University (PSU)  
Royal University of Agriculture (RUA)  
University of Battambang (UBB)  
Montpellier SupAgro (SupAgro)

### **NON-UNIVERSITY PARTNERS**

IAVFF-Agreenium  
SEAMEO SEARCA  
AGRINATURA




### **SPECIAL THANKS TO:**

FELDA Keratong 1 & 2  
FELDA Wilayah Kuantan  
RISDA Palong 1 & 2 and RISDA Keratong 3  
RISDA Estates Sdn. Bhd.  
ESPEK Livestock Sdn. Bhd.  
Sime Darby Bhd.





# EMERGENCY CONTACT NUMBERS



## MR. SAIFUL AZLIN MASKAN

 : +603 - 8946 4216  
 : +6017 - 878 1128  
 : saiful@upm.edu.my

## UNIVERSITY HEALTH CENTRE

 : +603 - 8946 7343  
 : Mon - Fri (8.00 am - 9.00 pm)  
Sat & Sun (9.00 am - 12.00 pm)

## SECURITY DIVISION (CONTROL CENTRE)

 : +603 - 8946 7952  
 : 24 hours

# NOTES



# Food Security and Climate Change Summer School Malaysia 2018



Co-funded by the  
Erasmus+ Programme  
of the European Union

