

# PROGRAM BOOK



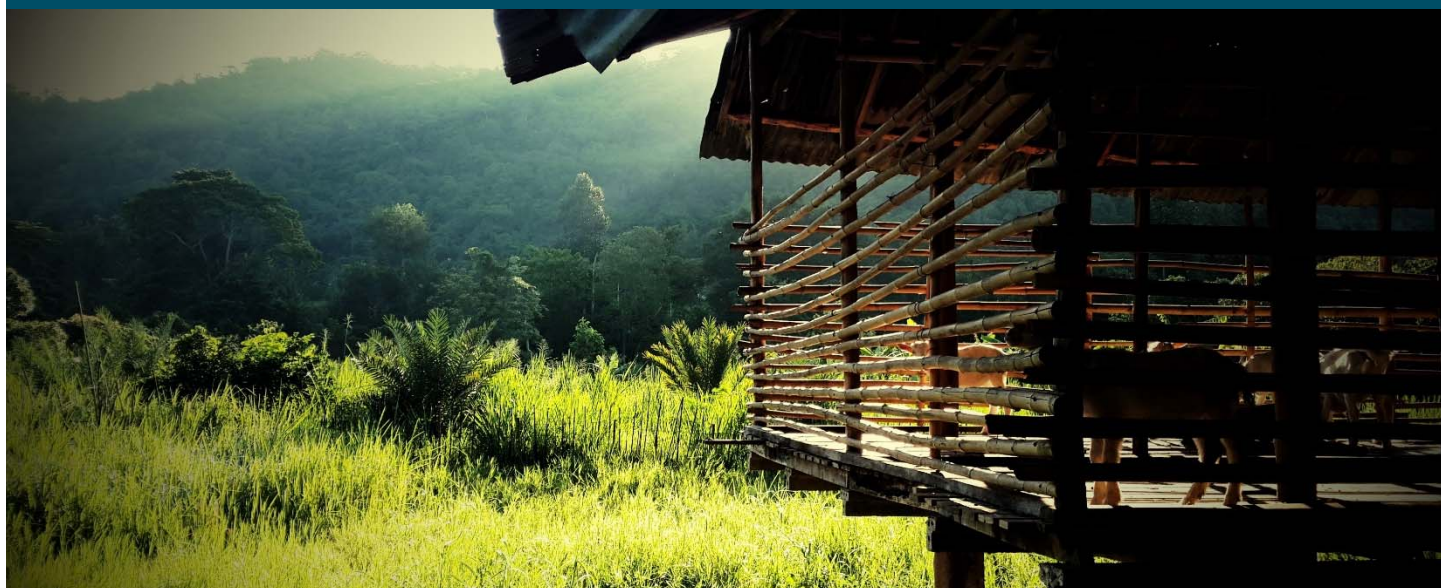
5<sup>th</sup>

# SAADC 2015

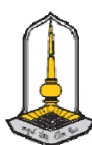
The 5<sup>th</sup> International Conference on  
**Sustainable Animal Agriculture for Developing Countries**

**“CLIMATE SMART SUSTAINABLE ANIMAL AGRICULTURE FOR FOOD SECURITY  
AND LIVELIHOOD IMPROVEMENT IN THE DEVELOPING COUNTRIES”**

October 27-30, 2015, Dusit Thani Pattaya Hotel, THAILAND



Jointly organized by



**PROGRAM BOOK**  
*of*  
***The 5<sup>th</sup> International Conference on***  
**Sustainable Animal Agriculture for Developing Countries**  
**(SAADC 2015)**

**October 27-30, 2015**  
**Dusit Thani Pattaya Hotel, Thailand**

**Jointly Organized by:**



Faculty of Sciences and Liberal Arts,  
Rajamangala University of Technology Isan



Institute of Agricultural Technology,  
Suranaree University of Technology



Faculty of Technology,  
Mahasarakham University



Faculty of Veterinary Medicine,  
Mahanakorn University of Technology



Faculty of Animal Sciences and Agricultural Technology, Silpakorn  
University, Phetchaburi IT Campus



Faculty of Science and Technology,  
Nakhon Ratchasima Rajabhat University



Faculty of Technology,  
Udon Thani Rajabhat University



Tropical Feed Resources Research and Development Center  
(TROFREC)



Department of Livestock Development,  
Thailand



The Animal Husbandry Association of Thailand under the Royal  
Patronage of H.R.H. Princess Maha Chakri Sirindhorn

# The 5<sup>th</sup> Sustainable Animal Agriculture for Developing Countries (SAADC2015)

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## SCHEDULE AT A GLANCE

### Monday, October 26

14:00-18:00 pm	Pre-registration	Dusit 2
14:00-18:00 pm	Upload Presentation File	Dusit 2

### Tuesday, October 27

07:30-08:30 am	Registration	Napalai Foyer
07:30 am-12:30 pm	Upload Presentation File	Dusit 2
08:30-09:30 am	Opening Ceremony	Napalai D & E
09:30-11:30 am	Keynote and Plenary Sessions	Napalai D & E
13:00-17:40 pm	<b>Oral Presentation</b>	
	Session 1 Non Ruminant Nutrition	Napalai E
	Session 2 Animal Genetics and Breeding	Napalai D
	Session 3 Livestock Farming System	Napalai C
	Session 4 Ruminant Nutrition	Napalai A
	Session 5 Veterinary	Dusit 1
	Session 6 Animal Reproduction	Napalai B
14:50-15:35 pm	<b>Poster Presentation</b>	Napalai Foyer
18:00-22:00 pm	Welcome Party	Chaba Pool

### Wednesday, October 28

07:30-08:30 am	Registration	Napalai Foyer
07:30 am-12:30 pm	Upload Presentation File	Dusit 2
08:30-09:00 am	Plenary Session 1	Napalai A
08:30-09:00 am	Plenary Session 2	Napalai B & C
09:00 am-12:00 pm	<b>Oral Presentation</b>	
	Session 1 Forage Crop	Napalai A
	Session 2 Non Ruminant Nutrition	Napalai C
	Session 3 Animal Genetics and Breeding/Others	Napalai D
	Session 4 Aquaculture/ Ruminant Nutrition	Napalai E
	Session 5 Animal Physiology	Dusit 1
	Session 6 Livestock Management	Napalai B
13:00-17:40 pm	<b>Oral Presentation</b>	
	Session 1 Biotechnology	Napalai D
	Session 2 Symposium: Understanding of Biological Product: The Role for Sustainable Animal Production	Napalai B
	Session 3 Livestock Farming System	Napalai A
	Session 4 Feed Science and Technology	Napalai C
	Session 5 Meat Science	Napalai E
	Session 6 JIRCAS Symposium	Dusit 1

14:50-15:35 pm	<b>Poster Presentation</b>	Napalai Foyer
16:55-19:00 pm	<b>Workshop:</b> Milk and beef marketing chains in the developing economies of Asia <b>Prof. Dr. Peter Wynn</b>	Napalai B
16:40-19:00 pm	<b>Workshop:</b> Publishing Your Research in International Journals <b>Prof. Dr. Thomas J. Schonewille</b>	Napalai C

**Thursday, October 29**

07:30 am-16:00 pm	Conference Trip Route 1 Dairy Buffalo Farm Route 2 Nong Nooch Garden	Dusit Thani Lobby
09:00 am-12:00 pm	Symposium: Dairy Beef Production System and Its Supply Chain in Asia	Dusit 12 & 13
18:00-22:00 pm	Farewell Party	Chaba Pool

**Friday, October 30**

08:00-09:00 am	Registration	Napalai Foyer
07:30-8:30 am	Upload Presentation File	Dusit 2
09:00-10:00 am	Plenary Sessions	Napalai B & C
10:00-11:45 am	<b>Oral Presentation</b> Ruminant Nutrition Session	Napalai B & C
11:45 am-12:30 pm	Closing Ceremony and Awards	Napalai B & C

## INFORMATION AND CONFERENCE DETAILS

### Contact and Information

**Room : Dusit 2**

#### Badges

Wear your meeting badge. It is required for admission to breaks and meals.

#### Photo Policy

Capturing Power Point images during oral presentations or images of poster presentations via photography with cameras or cell phones is strictly prohibited.

#### Oral Presentation

##### Keynote, Plenary and Invited Sessions:

1. Presentation time for:
  - 1.1 **Keynote** speaker is 35 minutes followed by 10 minutes discussion.
  - 1.2 **Plenary** speaker is 25 minutes followed by 5 minutes discussion.
  - 1.3 **Invited** speaker is 15 minutes followed by 5 minutes discussion.
2. Volunteer worker in the presentation hall is given a timer and bell to ensure the session progressing on time. 1<sup>st</sup> bell after 25 minutes, 2<sup>nd</sup> bell after 5 minutes, 2 bells after every 30 seconds.

##### Oral Presentation Sessions:

1. Presentation time for each speaker is 12 minutes followed by 3 minutes discussion.
2. Volunteer worker in the presentation hall is given a timer and bell to ensure the session progressing on time. 1<sup>st</sup> bell after 12 minutes, 2<sup>nd</sup> bell after 5 minutes, 2 bells after every 30 seconds.
3. If the presenter is absent, please keep his or her presentation session empty. We do not change the program and bring other presentations forward. This is to ensure those participants from other sessions will be able to join the session on time.

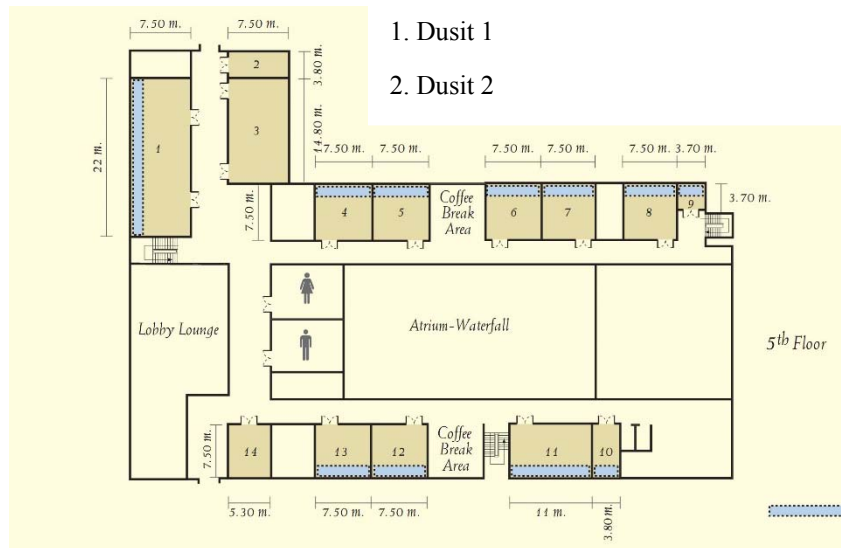
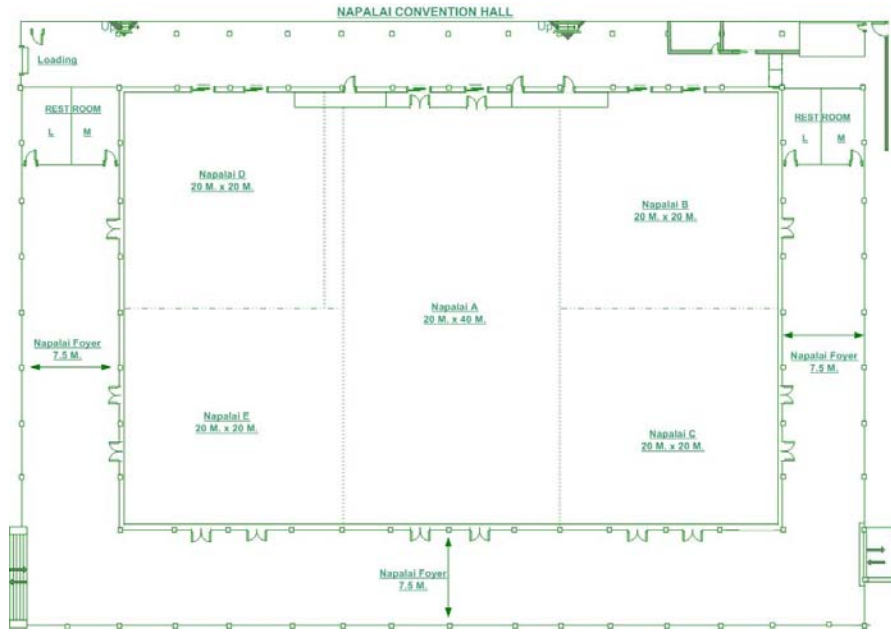
##### Data presentation:

1. All PowerPoint presentations will be loaded in advance at least 1 day before the start of each session by SAADC staff.
2. If combining video films with PowerPoint, please make sure to check it in the session hall where your lecture is taking place during a coffee or lunch break prior to your session, at least 30 minutes before the start of the session.
3. No presentations will be accepted in the session room or loaded while the session is in progress or between presentations. The use of personal computers for presentations in the session rooms will not be permitted. If you cannot follow these guidelines you should plan to present without visual tools.

#### Poster Presentations

1. Please find your poster board number at the list of poster presentation in the program book, and check the times for mounting, viewing, and removal of your poster.
2. Poster presentation should be mounted during 07:30-08:30 a.m. on October 27, 2015, and removed after 17:00 p.m. on October 28, 2015.
3. The participants are **REQUIRED** to be presented by their poster during the sessions.
4. Failure to display an accepted poster during the poster time at the meeting may result in the rejection and removal of abstract and full paper from the electronic version of the conference proceedings.
5. The dimensions of the poster board are: **1 m WIDE x 1 m HEIGHT.**
6. Allocate the top of the poster for the title and authors as stated on the submitted abstract.

## DUSIT THANI PATTAYA FLOOR PLAN





## TENTATIVE PROGRAM

<b>Monday, October 26</b>		<b>Room : Dusit 2</b>
14:00-18:00 pm	Pre-registration	

### Oral Presentation Morning Sessions

**Tuesday, October 27, 2015**

Tuesday, October 27		Napalai D & E
07:30-08:30 am	Registration (Room : Napalai Foyer)	
08:30-09:30 am	Opening remarks by President of RMUTI: <b>Asst. Prof. Dr. Viroj Limkaisang</b> Report by Chairman of SAADC 2015: <b>Assist. Prof. Dr. Chalermpon Yuangklang</b> Welcome participants by President of SAADC: <b>Prof. Dr. Liang Juan Boo</b>	
Keynote Speaker		
Chairman: <b>Prof. Dr. Liang Juan Boo</b>		
09:30-10:15 am	<b>Prof. Dr. Charan Chantalakhana (Thailand)</b> <i>Enhance use of sustainable agriculture for food security and GDH through sufficiency economy and value added creation</i>	
10:15-10:30 am	<b>Morning Break</b>	
Plenary Speakers		
Chairman: <b>Prof. Dr. Liang Juan Boo</b>		
10:30-11:00 am	<b>Prof. Dr. Mohd. Azmi Mohd Lila (Malaysia)</b> <i>Transforming research into commercial products</i>	
11:00-11:30 am	<b>Prof. Dr. Metha Wanapat (Thailand)</b> <i>Greenhouse gas mitigation: on-farm feed development and utilization in the developing countries</i>	
12:00 am-13:00 pm	<b>Lunch Break</b>	

### Oral Presentation Afternoon Sessions

**Tuesday, October 27, 2015**

<b>Session 1 Non Ruminant Nutrition</b>		<b>Room : Napalai E</b>
<b>Chairman: Assoc. Prof. Dr. Chaiyapoom Bunchasak (Thailand)</b>		
<b>Co-chairman: Assist. Prof. Dr. Sasiphan Wongsuthavas (Thailand)</b>		
13:00-13:20 pm	<b>Invited speaker</b>	<b>Assoc. Prof. Dr. Chaiyapoom Bunchasak (Thailand)</b> <i>A strategy for improvement of protein and energy utilization in broiler chicken: using concept of low-protein diets and compensatory growth</i>
13:20-13:35 pm	<b>AN-534</b>	Enhancing the nutritional value of soybean through supplementation with new-generation feed enzymes for poultry (Australia)
13:35-13:50 pm	<b>AN-057</b>	Effect of chemical treated shrimp meal on growth (Japan)

13:50-14:05 pm	<b>AN-144</b>	The effects of quantitative restricted feeding on performances and internal organ weight broiler (Indonesia)
14:05-14:20 pm	<b>AN-522</b>	The effect of <i>S. rarak</i> microparticles on blood profile and productivity of broiler chickens raised on litter system inoculated with <i>E. tenella</i> (Indonesia)
14:20-14:35 pm	<b>AN-491</b>	Efficacy of endogenous emulsifier in broilers diets on growth performance (Thailand)
14:35-14:50 pm	<b>AN-348</b>	Potential of seaweed as feed to make healthy broiler meat chicken (Indonesia)
14:50-15:35 pm	<b>Afternoon Break and Poster Session</b>	
<b>Chairman: Dr. Elizabeth Wina (Indonesia)</b>		
<b>Co-chairman: Dr. Sawitree Wongtangintharn (Thailand)</b>		
15:35-15:55 pm	<b>Invited speaker</b>	<b>Dr. Elizabeth Wina (Indonesia)</b> <i>Role of saponin as feed additive for sustainable poultry production</i>
15:55-16:10 pm	<b>AN-496</b>	Comparative Efficacy of Herbal Methionine and Synthetic DL-Methionine on Performance in Laying Hen (Thailand)
16:10-16:25 pm	<b>AN-143</b>	The inclusion effect of mangosteen ( <i>garcinia mangostana</i> L.) peel as feed additive on blood profile and testosterone level of mojosari male duck (Indonesia)
16:25-16:40 pm	<b>AN-461</b>	Effect of combination Acidifiers - Garlic - <i>Phyllanthusniruri</i> L. Powder and encapsulated form in feed on production (Indonesia)
16:40-16:55 pm	<b>AN-440</b>	Effects of dietary pomegranate by-products on performance, immunity, intestinal microbiology and odorous gas emissions from excreta in broilers (South Korea)
16:55-17:10 pm	<b>AN-289</b>	Effects of Gac fruit by product supplementation in layer diets on egg production and egg quality (Thailand)
17:10-17:25 pm	<b>AN-124</b>	Effect of oral administration of red ginger extract on performances of hybrid ducks (Indonesia)
17:25-17:40 pm	<b>AN-032</b>	The efficacy of phytobiotic as antibacterial and its effect toward ducks' hematology parameter (Indonesia)

<b>Session 2 Animal Genetics and Breeding</b>		<b>Room : Napalai D</b>
<b>Chairman: Assoc. Prof. Dr. Monchai Duangjinda (Thailand)</b>		
<b>Co-chairman: Assist. Prof. Dr. Doungnapa Promket (Thailand)</b>		
13:00-13:20 pm	<b>Invited speaker</b>	<b>Assoc. Prof. Dr. Monchai Duangjinda (Thailand)</b> <i>Effects of climate change on Thai indigenous chicken</i>
13:20-13:35 pm	<b>AG-530</b>	Proximity of genetic cross Boer goat with local goat to parent based on gene DNA <i>Capra hircus</i> growth hormone (ChGH) (Indonesia)
13:35-13:50 pm	<b>AG-272</b>	Genomic prediction using single nucleotide polymorphism markers of different density for carcass traits in Japanese Black cattle (Japan)

13:50-14:05 pm	<b>AG-013</b>	Most probable producing ability of production and reproduction traits of Bali Cows (Indonesia)
14:05-14:20 pm	<b>AG-211</b>	The study of reproductive efficiency over the lifetime of Lori-Bakhtiari ewes (Iran)
14:20-14:35 pm	<b>AG-130</b>	Production and reproduction characteristics of Tegal and Magelang ducks (Indonesia)
14:35-14:50 pm	<b>AG-080</b>	The relationship between longevity and reproductive efficiency in Lori-Bakhtiari ewes (Iran)
14:50-15:35 pm	<b>Afternoon Break and Poster Session</b>	
<b>Chairman: Assist. Prof. Dr. Chalermpon Yuangklang (Thailand)</b>		
15:35-15:55 pm	<b>Invited speaker</b>	<b>Prof. Dr. Thaweesak Songserm (Thailand)</b> Highly Pathogenic Avian Influenza: Continuous Circulation
15:55-16:10 pm	<b>AG-431</b>	Effects of different mating methods on hatchability and embryonic mortality of indigenous chicken eggs (Nigeria)
16:10-16:25 pm	<b>AG-149</b>	Breeding potency of Bali cattle as indigenous beef cattle breed in Sumbawa Island Indonesia (Indonesia)
16:25-16:40 pm	<b>AG-535</b>	Effect of numbers of day of progesterone intra-vaginal device insertion on oestrus rate pregnancy rate and little size in Thai-native cross breed goats (Thailand)
16:40-16:55 pm	<b>AG-161</b>	Institutional development on conservation of Madura Cattle (Indonesia)

<b>Session 3 Livestock Farming System</b>		<b>Room : Napalai C</b>
<b>Chairman: Prof. Dr. Liang Chou Hsia (Taiwan, ROC)</b>		
<b>Co-chairman: Assoc. Prof. Dr. Songsak Chumpawadee (Thailand)</b>		
13:00-13:20 pm	<b>Invited speaker</b>	<b>Prof. Dr. Liang Chou Hsia (Taiwan, ROC)</b> <i>Is small animal farming system an organic farming and of low technology?</i>
13:20-13:35 pm	<b>LF-074</b>	Seasonal changes in pasture and animal productivity of Korean native goats grazed at different pasture type (South Korea)
13:35-13:50 pm	<b>LF-378</b>	Partnership in Broiler Farm Closed House System (Case Study at Tuban, East Java, Indonesia) (Indonesia)
13:50-14:05 pm	<b>LF-381</b>	Moving families from subsistence animal production to small commercial production using a participatory approach with a multidisciplinary team (Australia)
14:05-14:20 pm	<b>LF-349</b>	Pasture management and supplemented feed enhanced the performance of farmed buffaloes in Sabah, Malaysia (Malaysia)
14:20-14:35 pm	<b>LF-022</b>	Development of farmer champions and their role in progressing smallholder beef production in Vietnam (Australia)
14:35-14:50 pm	<b>LF-220</b>	Studies on socio-economical profile of the dairy farmers in Latur District of Maharashtra State (India)
14:50-15:35 pm	<b>Afternoon Break and Poster Session</b>	

<b>Chairman: Prof. Dr. Yusuf L. Henuk (Indonesia)</b>		
<b>Co-chairman: Assist. Prof. Dr. Sutisa Khampaka (Thailand)</b>		
15:35-15:55 pm	<b>Invited speaker</b>	<b>Prof. Dr. Yusuf L. Henuk (Indonesia)</b> <i>Family poultry farming system and their characteristics in developing countries</i>
15:55-16:10 pm	<b>LF-465</b>	The Study of nutritive value of Plant for Goat in Pattani Province of Thailand (Thailand)
16:10-16:25 pm	<b>LF-361</b>	Developing technology and husbandry skills required for efficient animal production in villages in the highlands of Papua Indonesia (Indonesia)
16:25-16:40 pm	<b>LF 580</b>	The complexity of animal husbandry in crop-livestock farming systems in the New Reclaimed Lands (NRL), Egypt (Egypt)
16:40-16:55 pm	<b>LF-264</b>	Effect of free-range raising system on egg performance and egg quality of layer hens (Thailand)
16:55-17:10 pm	<b>LF-186</b>	Meat quality of Bali cattle ( <i>bos sondaicus</i> ) from local farming system in Gianyar district Bali island (Indonesia)
17:10-17:25 pm	<b>LF-198</b>	Compared two different sheep breed in farming system in Huangcheng town, Qilian Mountains, China (China)
17:25-17:40 pm	<b>LF-234</b>	Economic impact of spatial development on goat farming in Banjarnegara district, Indonesia (Indonesia)

<b>Session 4 Ruminant Nutrition</b>		<b>Room : Napalai A</b>
<b>Chairman: Assoc. Prof. Dr. Chalong Wachirapakorn (Thailand)</b>		
<b>Co-chairman: Assoc. Prof. Dr. Opat Pimpa (Thailand)</b>		
13:00-13:20 pm	<b>Invited speaker</b>	<b>Assoc. Prof. Dr. Chalong Wachirapakorn (Thailand)</b> <i>A simple concentrate feeding to lactating cows for small-holder farmers so-called 123</i>
13:20-13:35 pm	<b>AN-429</b>	Effect of coconut oil supplementation on meal pattern, feed intake, and milk yield in early lactating crossbred dairy goat (Thailand)
13:35-13:50 pm	<b>AN-026</b>	Growth response of purebred Merino and crossbred lambs supplemented with canola and flaxseed oils (Australia)
13:50-14:05 pm	<b>AN-370</b>	Effect Dietary energy concentrate on birth weight, weaning weight, abortion and mortality rate of Sudanese Taggar goat kid's (Sudan)
14:05-14:20 pm	<b>AN-114</b>	Effaces of recombinant <i>Saccharomyces cerevisiae</i> on ruminal degradability in Thai native cattle (Thailand)
14:20-14:35 pm	<b>AN-444</b>	Feed intake, digestibility, nitrogen retention and daily weight gain of steers fed on sugarcane stalk based complete diet silage (Indonesia)
14:35-14:50 pm	<b>AN-416</b>	Effects of wet soya milk waste supplementation on feed intake and growth performance of goats fed corn stubble silage (Thailand)
14:50-15:35 pm	<b>Afternoon Break and Poster Session</b>	

<b>Chairman: Prof. Dr. Thomas J. Schonewille (The Netherlands)</b> <b>Co-chairman: Assoc. Prof. Dr. Pramote Paengkoum (Thailand)</b>		
15:35-15:55 pm	<b>Invited speaker</b>	<b>Prof. Dr. Thomas J. Schonewille (The Netherlands)</b> <i>Relationship between rumen acidosis and laminitis in the bovine; what do we know about the underlying mechanism?</i>
15:55-16:10 pm	<b>AN-291</b>	The effects of soybean meal treated with crude extract product from green tea marc on <i>in vitro</i> fermentation and blood metabolite of dairy cows (Thailand)
16:10-16:25 pm	<b>AN-539</b>	The effects of feed fermented by <i>Azotobacter</i> microbes culture on milk production and its feed efficiency at dairy cattle (Indonesia)
16:25-16:40 pm	<b>AN-357</b>	Effect of rumen content on the performance of Sudanese desert kids (Sudan)
16:40-16:55 pm	<b>AN-432</b>	The effect of the use of cassava leaves silage in concentrate on goat performance (Indonesia)
16:55-17:10 pm	<b>AN-243</b>	Effect of maize cob and husk ratio in Pakchong 1 napier grass silage on nutritive value and ruminal degradability in Thai native cattle (Thailand)
17:10-17:25 pm	<b>AN-475</b>	Supplementation of different sources of nitrogen and its effects on rumen microbial biomass and <i>in vitro</i> feed degradability parameters (Indonesia)
17:25-17:40 pm	<b>AN-269</b>	Effect of crude glycerin supplementation on performance of dairy heifers (Thailand)

<b>Session 5 Veterinary</b>		<b>Room : Dusit 1</b>
<b>Chairman: Assist. Prof. Dr. Jamlong Mitchaothai (Thailand)</b>		
13:00-13:20 pm	<b>Invited speaker</b>	<b>Assoc. Prof. Dr. Theera Rukkwamsuk (Thailand)</b> <i>Co-cultivation of caprine arthritis encephalitis virus infected macrophages with primary goat synovial cells</i>
13:20-13:35 pm	<b>BVS-340</b>	The <i>in vitro</i> antibacterial activity of <i>Muntingia calabura</i> against <i>Staphylococcus aureus</i> and <i>Streptococcus agalactiae</i> (Indonesia)
13:35-13:50 pm	<b>BVS-399</b>	Study of the optimal condition of RNA in situ hybridization for HER-2/neu in canine mammary gland (Thailand)
13:50-14:05 pm	<b>BVS-326</b>	Factors influencing the incidence of <i>Eimeria leuckarti</i> in horses (Pakistan)
14:05-14:20 pm	<b>MS-527</b>	Is level of trace elements in hoof important for healthy foot in dairy cows? (Turkey)
14:20-14:35 pm	<b>MS-337</b>	Status of buffalo diseases in Bangladesh in relation to casual agents and predisposing factors (Bangladesh)
14:35-14:50 pm	<b>O-384</b>	A Retrospective Investigation of Co-endoparasitism of Dog and Cat Patients in Nongchok subprovince, Thailand (Thailand)
14:50-15:35 pm	<b>Afternoon Break and Poster Session</b>	

<b>Chairman: Assist. Prof. Dr. Chamnanwit Promkot (Thailand)</b>		
15:35-15:55 pm	<b>Invited speaker</b>	<b>Dr. Thuchadaporn Chaikhun-Marcou (Thailand)</b> <i>Thailand efforts to create a sustainable buffalo agro-economy utilizing basic veterinary science knowledge</i>
15:55-16:10 pm	<b>VPH-336</b>	Antibiotic usage patterns in selected broiler farms of Bangladesh and their public health implications (Bangladesh)
16:10-16:25 pm	<b>VPH-249</b>	Prevalence of parasite infection in puppy dog to 2 month under animal hospital institute, Udon Thani Rajabhat University (Thailand)
16:25-16:40 pm	<b>BVS-331</b>	Factors influencing the incidence of Babesiosis in sheep of district Toba Tek Singh, Pakistan (Pakistan)
16:40-16:55 pm	<b>O-352</b>	Effect of herbal immunostimulant formulation with Newcastle Disease Oral Pellet Vaccine on immune response in native chicken (India)

Session 6 Animal Reproduction		Room : Napalai B
Chairman: Assist. Prof. Dr. Jakrit Yaerum (Thailand)		
Co-chairman: Assist. Prof. Anan Petlum (Thailand)		
13:00-13:20 pm	Invited speaker	Assist. Prof. Dr. Jakrit Yaerum (Thailand) <i>Reproductive efficiency can be maintained through good practices during hot summer months</i>
13:20-13:35 pm	AR-120	Oocyte parthenogenesis stimulation by total and specific protein extract of goat spermatozoa (Indonesia)
13:35-13:50 pm	AR-230	Character of kisspeptin receptors immunoreactions in pituitary glands of cycling buffaloes ( <i>Bubalus bubalis</i> ) (Thailand)
13:50-14:05 pm	AR-383	Effects of addition juice date palm to the extender on the percentage of live and motility of frozen thawed bull spermatozoa (Indonesia)
14:05-14:20 pm	AR-223	Effect of follicle size at the initiating of the ovulation-synchronization protocol on ovulatory and estrous responses in dairy heifers (Thailand)
14:20-14:35 pm	AR-063	On farm cow-calf performances in response to pre- and post-partum concentrate supplementation in Vietnam (Australia)
14:35-14:50 pm	AR-023	Breeding soundness evaluation of garut ram (Indonesia)
14:50-15:35 pm	Afternoon Break and Poster Session	
Chairman: Prof. Dr. Pietro Celi (Australia)		
Co-chairman: Assoc. Prof. Dr. Pin Chanjula (Thailand)		
15:35-15:55 pm	Invited speaker	Prof. Dr. Pietro Celi (Australia) <i>Oxidant/antioxidants balance in female reproduction</i>
15:55-16:10 pm	AR-119	Productive and reproductive performance of indigenous lime and parkote buffaloes in the Western hills of Nepal (Nepal)
16:10-16:25 pm	AR-082	Noni effect on goat sperm motility after cooling (Indonesia)

16:25-16:40 pm	<b>AR-024</b>	Individual variation on freezing capability of garut ram (Indonesia)
16:40-16:55 pm	<b>AR-254</b>	Acceptability of frozen buffalo semen with decreasing sperm concentration (Philippines)
16:55-17:10 pm	<b>AR-310</b>	Morphometric dimensions of the spermatozoa in Thai native boar depend on the ejaculates (Thailand)
17:10-17:25 pm	<b>AR-260</b>	Evaluation of processing techniques and sephadex filtration effects in buffalo semen quality (Philippines)

<b>Welcome Party</b>		<b>Chaba Pool</b>
18:00-22:00 pm	Welcome address by Chairman of The Animal Husbandry Association of Thailand under the Royal Patronage of H.R.H. Princess Maha Chakri Sirindhorn	

<b>Oral Presentation</b>	<b>Wednesday, October 28, 2015</b>
<b>Morning Session</b>	

<b>Wednesday, October 28</b>	
07:30-08:00 am	Registration
<b>Plenary Speaker</b>	
<b>Chairman: Prof. Dr. Pietro Celi</b>	
08:30-09:00 am	<b>Prof. Dr. Peter Daniels (Australia)</b> <i>Human behaviours as determinants of animal disease: meeting the challenge of a complex mix of changing production systems</i>
<b>Plenary Speaker</b>	
<b>Chairman: Dr. Elizabeth Wina</b>	
08:30-09:00 am	<b>Prof. Dr. Peter Wynn (Australia)</b> <i>Opportunities and challenges of dairying in the humid tropics</i>

<b>Session 1 Forage Crop</b>		<b>Room : Napalai A</b>
<b>Chairman: Assoc. Prof. Dr. Wisitiporn Suksombat</b>		
09:00-09:20 am	<b>Invited speaker</b>	<b>Prof. Dr. Yasuhiro Kawamoto (Japan)</b> <i>Two types of grazing system under tropical pasture in South western islands of Japan</i>
09:20-09:35 am	<b>AN-174</b>	Allometric productivity forage and goat foraging behaviour in rangeland at Ebelo Amboasary in Southern of Madagascar (Madagascar)
09:35-09:50 am	<b>AN-037</b>	Chemical composition & <i>in vitro</i> digestibility of Gramineae feed resources in the Philippines (Japan)
09:50-10:05 am	<b>AN-021</b>	Truly absorbed protein in the small intestine content of alfalfa hay harvested at various blooming (Iran)
10:05-10:20 am	<b>AN-453</b>	Intake Digestibility of Summer Fodders Fed Sheep and Goats (Pakistan)
10:20-10:35 am	<b>Morning Break</b>	

<b>Chairman: Assoc. Prof. Dr. Anut Chantiratikul (Thailand)</b>		
10:35-10:50 am	<b>AN-518</b>	A study of dietary fiber sources on nutrient intake, meat production and economic analysis of crossbred rabbits (Vietnam)
10:50-11:05 am	<b>AN-184</b>	Effect waste cabbage on rabbit meat (Indonesia)
11:05-11:20 am	<b>AN-451</b>	Utilization of Paprika ( <i>Capicum annum</i> ) by product for ruminants feeding (South Korea)
11:20-11:35 am	<b>AN-513</b>	Effect of dried cassava chips in growing rabbit diets on meat performance and economic returns (Vietnam)
11:35-11:50 am	<b>AN-512</b>	A study on nutrient intake and digestibility, rumen environment and nitrogen retention of sheep fed different levels of ensiled water hyacinth in diets (Vietnam)
12:00 am-13:00 pm	<b>Lunch Break</b>	

Session 2 Non Ruminant Nutrition		Room : Napalai C
Chairman: Prof. Dr. Kyung-Woo Lee (South Korea)		
Co-chairman: Dr. Sawitree Wongtangtharn (Thailand)		
09:00-09:20 am	Invited speaker	Prof. Dr. Kyung-Woo Lee (South Korea) <i>Direct-fed microbials in broiler chickens challenged with Eimeria maxima or raised on Clostridium spp.-contaminated used litter</i>
09:20-09:35 am	AN-407	Efficacy of hydrate sodium calcium aluminosilicate and yeast cell wall (fixar® viva dry) on reduce toxic of aflatoxin in ducks (Thailand)
09:35-09:50 am	AN-032	The efficacy of phytobiotic as antibacterial and its effect toward ducks' hematology parameter (Indonesia)
09:50-10:05 am	AN-470	Effect of usage probiotics powder as feed additive on the egg quality of laying hens (Indonesia)
10:05-10:20 am	AN-499	Efficacy of Probiotics (Sanizyme) on Performance in Broiler Diets (Thailand)
10:20-10:35 am	Morning Break	
Chairman: Assist. Prof. Dr. Kraisit Vasupen (Thailand)		
10:35-10:50 am	AN-091	Study of potential local feeds for pig farming development in Manokwari, West Papua, Indonesia (Indonesia)
10:50-11:05 am	AN-121	Feeding Value of Dried Cashew Nut Testa in Finishing Pigs: Effects on Growth Performance, Economic Return and Carcass Characteristics (Thailand)
11:05-11:20 am	AN-073	Nutritive value of grower pig ration using local feeds in West Manokwari district, Manokwari, Indonesia (Indonesia)
11:20-11:35 am	AN-232	Nutrient utilization in grower pigs fed a protein concentrate blended with sweet potato roots either boiled or ensiled with or without vines (Australia)
11:35-11:50 am	AN-233	Ileal and total tract digestibility in growing pigs fed rice bran supplemented with ensiled taro leaves (Vietnam)
12:00 am-13:00 pm	Lunch Break	



Session 3 Animal Genetics and Breeding /Others		Room : Napalai D
Chairman: Assist. Prof. Dr. Skorn Koonawootrittriron (Thailand)		
Co-chairman: Assist. Prof. Dr. Kraisit Vasupen (Thailand)		
09:00-09:20 am	Invited speaker	Assist. Prof. Dr. Skorn Koonawootrittriron (Thailand) <i>Challenges for Sustainability of Beef Cattle Production in Thailand</i>
09:20-09:35 am	AG-560	Genetic Parameter Estimation for Prolificacy Trait of Indonesian Local Ettawah Goat (Indonesia)
09:35-09:50 am	AG-095	The Interleukin-8 Gene Polymorphism and its Association with Milk Production Traits in Holstein Cows (Indonesia)
09:50-10:05 am	AG-182	Phenotypic and chromosome band intensity characters of swamp buffalo in very isolated area of East Java, Indonesia (Indonesia)
10:05-10:20 am	AG-077	Effect of Sire and Month and Year of Calving on Longevity Traits in Friesian Cows in Egypt (Egypt)
10:20-10:35 am	Morning Break	
Chairman: Assoc. Prof. Dr. Songsak Chumpawadee (Thailand)		
10:35-10:50 am	O-092	Production elasticity of broiler farming in Blitar Regency, East Java, Indonesia (Indonesia)
10:50-11:05 am	O-477	Impact of carbon and nitrogen sources on growth of <i>Alternaria solani</i> (Ell. & Mart.) Causing early blight of Tomato (India)
11:05-11:20 am	O-221	Studies in urban geography of Latur city of Maharashtra state of India with special reference to demographic features (India)
11:20-11:35 am	O-196	Marketing analysis of broiler farming on partnership scheme in ponorogo regency, East Java, Indonesia (Indonesia)
12:00 am-13:00 pm	Lunch Break	

Session 4 Aquaculture/ Ruminant Nutrition		Room : Napalai E
<b>Chairman: Prof. Dr. Philippe Lebailly (Belgium)</b>		
<b>Co-chairman: Dr. Nattiya Chumnanka (Thailand)</b>		
09:00-09:20 am	<b>Invited speaker</b>	<b>Prof. Dr. Philippe Lebailly (Belgium)</b> <i>Capacity building and services to assist local farmers to improve aquaculture management in Vietnam</i>
09:20-09:35 am	<b>A-369</b>	Meat bone meal alternative fish meal for black carp (Vietnam)
09:35-09:50 am	<b>A-531</b>	Advantages of environmentally sound poly-eco-aquaculture in fish farms (Japan)
09:50-10:05 am	<b>A-524</b>	Growth performance of carrageenan-producing seaweeds of <i>Kappaphycus</i> and <i>Eucheuma</i> in Sumbawa (Indonesia)
10:05-10:20 am	<b>O-292</b>	Utilization of bondre-system for sustainable production of carrageenan-producing seaweed in Lombok (Indonesia)
10:20-10:35 am	<b>Morning Break</b>	

<b>Chairman: Dr. Tan Hui Yin (Malaysia)</b>		
<b>Co-chairman: Dr. Pornpan Saenphoom (Thailand)</b>		
10:35-10:50 am	<b>AN-256</b>	Nutrient composition and <i>in vitro</i> ruminal degradability of selected local plants used as goat feed in Malaysia (Malaysia)
10:50-11:05 am	<b>AN-498</b>	<i>In situ</i> evaluation of heat treated vegetable protein sources (Pakistan)
11:05-11:20 am	<b>AN-047</b>	Feed intake and serum metabolite of goats fed crude glycerin from waste vegetable oil (Thailand)
11:20-11:35 am	<b>AN-036</b>	<i>In vitro</i> nutrients digestibility of king grass combined with concentrate containing mixed microbes (Indonesia)
11:35-11:50 am	<b>AN-546</b>	Effect of spent rice straw in mushroom cultivation on growth performance and plasma metabolites in beef cattle (Bangladesh)
12:00 am-13:00 pm	<b>Lunch Break</b>	

Session 5 Animal Physiology		Room : Dusit 1
Chairman: Prof. Dr. Jun Luo (China)		
Co-chairman: Assist. Prof. Dr. Jakrit Yaerum (Thailand)		
09:00-09:20 am	Invited speaker	Prof. Dr. Jun Luo (China) <i>Molecular regulation of fatty acid biosynthesis metabolism in mammary gland of dairy goats</i>
09:20-09:35 am	AP-435	Differential level of Plasma Nesfatin-1, Ghrelin and Leptin for onset of puberty in Murrah buffalo heifers (India)
09:35-09:50 am	AP-538	The Study of extracellular Hsp70 and the physiological parameters, and the effort to improve the feeding of the ongole crossbred and it's crossing breed with limousine (Indonesia)
09:50-10:05 am	AP-173	The effect of different altitude to adaptability, feed consumption and weight gain's lactating ettawa's cross bred (Indonesia)
10:05-10:20 am	AP-472	The effect of teat seal on milk microorganism number in postpartum cows (Thailand)
10:20-10:35 am	Morning Break	
Chairman: Assist. Prof. Dr. Chamnanwit Promkot (Thailand)		
10:35-10:50 am	AP-526	Growth performances of PO cattle and its crossbred with European cattle (POE) maintained in different environmental conditions (Indonesia)
10:50-11:05 am	AR-588	Estimation of requirement for productive beef cows stock to maintain population using natural increase data (Indonesia)
11:05-11:20 am	AR-194	Supplementation of l-carnitine on matured goat oocyte <i>in vitro</i> (Indonesia)
11:20-11:35 am	AR-255	Reproductive performance of cattle and buffaloes treated with PGF2a and GnRH in Thailand and Philippines (Philippines)
11:35-11:50 am	AR-586	Anticoccidial activity of <i>Trachyspermum ammi</i> extract against sporulation of coccidian oocysts (Pakistan)
12:00 am-13:00 pm	Lunch Break	

Session 6 Livestock Management		Room : Napalai B
Chairman: Assoc. Prof. Dr. Opat Pimpa (Thailand)		
09:00-09:20 am	Invited speaker LM-443	Dr. Dinh Van Dung (Vietnam) <i>Constraints to improved productivity of smallholder cow-calf systems in South Central Coast Vietnam – insights from recent surveys</i>
09:20-09:35 am	LM-015	Calf health, management and growth in smallholder dairy farms in Tanzania (Tanzania)
09:35-09:50 am	LM-046	The use of agricultural by-product as pig ration to reduce feed cost in Manokwari Regency Indonesia (Indonesia)
09:50-10:05 am	LM-257	A screening of health problem in a dairy goat farm in Malaysia: a case report (Malaysia)
10:05-10:20 am	LM-345	Enhancing goat farm performance thru the farmer livestock school-goat enterprise management modality (Philippines)
10:20-10:35 am	Morning Break	
Chairman: Prof. Dr. Chris McSweeney (Australia)		
10:35-10:50 am	LM-044	Production performance of laying hen housing on litter system with different temperature (Indonesia)
10:50-11:05 am	LM-203	Association among fat, protein, lactose and total solid of milk produced by farmers in Central part of Thailand (Thailand)
11:05-11:20 am	LM-306	Application of PCR technique for detection <i>Staphylococcus aureus</i> cause of mastitis in dairy cows (Thailand)
11:20-11:35 am	LM-553	An efforts to increase milk production through empowerment of cooperatives in Sinjai Regency (Indonesia)
11:35-11:50 am	LM-155	Insight into broiler development in East Java (Indonesia)
11:50-12:05 am	LM-598	Analysis of agribusiness value chains to understand an industry and its challenges: A summary of case studies from Pakistan (Pakistan)
12:05 am-13:00 pm	Lunch Break	

**Oral Presentation  
Afternoon Session**
**Wednesday, October 28, 2015**

Wednesday, October 28		
Session 1 Biotechnology		Room : Napalai D
Chairman: Assoc. Prof. Dr. Rangsun Parnpai (Thailand)		
Co-chairman: Assist. Prof. Dr. Jamlong Mitchaothai (Thailand)		
13:00-13:20 pm	Invited speaker	Assoc. Prof. Dr. Rangsun Parnpai (Thailand) <i>Vitrification of bovine and buffalo oocytes and embryos</i>
13:20-13:35 pm	AB-555	Genetic Variation of MHC Class II DRB3 gene in Local Goat from South Sulawesi Indonesia (Indonesia)
13:35-13:50 pm	AB-169	Fertility Status of local PO cattle and its crosses with Limousin dan Simental bull in Situbondo Regency, East Java, Indonesia (Indonesia)
13:50-14:05 pm	AB-481	The Effect of Cinnamomum burmannii Extract as an Immunomodulator on the Increase of GR-1 Expressing IFN $\gamma$ and Macrophage (Indonesia)
14:05-14:20 pm	AB-582	The Effect of Methane Mitigation by Condensed Tannins on Ruminal Homoacetogens (Malaysia)
14:20-14:35 pm	AB-437	Development of a rapid immunochromatography test for detecting antibodies after anthrax vaccination in cattle: A preliminary study (Indonesia)
14:35-14:50 pm	AB-335	Poor manifestation of estrus signs in riverine buffalo tempting genetic appraisal (Pakistan)
14:50-15:35 pm	Afternoon Break and Poster Session	
Chairman: Assist. Prof. Dr. Jamlong Mitchaothai		
15:35-15:55 pm	Invited speaker	Dr. Pakapan Skunmun (Thailand) <i>Value added technology for cattle hide quality improvement in sustainable animal production</i>
15:55-16:10 pm	AB-071	Enhancing the nutritional value of soybean through supplementation with new-generation feed enzymes for poultry - Review (Australia)
16:10-16:25 pm	AN-116	Effects of cassava treated lactic acid supplementation on dry matter degradability and rumen fermentation in beef cattle (Thailand)
16:25-16:40 pm	AN-485	Effect of <i>Flemingia macrophylla</i> (FLM) as a protein source on rumen fermentation and microbial population in dairy steers (Thailand)
16:40-16:55 pm	AN-494	Effects of fattening length and energy levels on meat characteristics of Iranian native lamb (Iran)
16:55-17:10 pm	AN-464	Characteristics of fermentation kinetics and digestibility of PUFA saponification and aldehyd protected as cattle feed supplement by <i>in vivo</i> (Indonesia)
17:10-17:25 pm	AN-517	Effects of wet soya milk waste supplementation on feed intake and growth performance of goats fed corn stubble silage (Thailand)
17:25-17:40 pm	MS-527	Is level of trace elements in hoof important for healthy foot in dairy cows? (Turkey)

17:40-17:55 pm	<b>AB-225</b> Enriching nutrient values of pumpkin and cassava chips for beef cattle concentrate feed by ethanolic microbial consortium (Thailand)
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Session 2 Symposium: Understanding of Biological Product: The Role for Sustainable Animal Production		Room : Napalai B
Organized by Assoc. Prof. Dr. Kriengsak Poonsuk, DVM.		
13:00-13:15 pm	Assoc. Prof. Dr. Rabin Ruttanaphani The perspective of present and future animal production	
13:15-13:30 pm	Assoc. Prof. Dr. Jowaman Khajareern The use of probiotics for replacement of antibiotics growth promoter in farm animal for feed additives	
13:30-13:45 pm	Prof. Dr. Somboon Tanasupawat Microorganisms: Truly food maker of man and animal	
13:45-14:00 pm	Assoc. Prof. Dr. Kriengsak Poonsuk Advantages of probiotics in farm animals	
14:00-14:50 pm	Panel discussion: How do probiotics support sustainability of animal production? Moderator: Dr. Kanchana Poonsuk Panelists: Assoc. Prof. Dr. Rabin Ruttanaphani Assoc. Prof. Dr. Jowaman Khajareern Prof. Dr. Somboon Tanasupawat Assoc. Prof. Dr. Kriengsak Poonsuk	
14:50-15:35 pm	Afternoon Break and Poster Session	
Chairman: Prof. Dr. Kyung-Woo Lee (South Korea)		
15:35-15:55 pm	Invited speaker	Prof. Dr. Jowaman Khajareern (Thailand) <i>Measurement the Quality of Inorganic Feed Grade Phosphorus for Livestock and Poultry</i>
15:55-16:10 pm	AN-033	Vitamin E and C effect on meat of muscovy duck (Indonesia)
16:10-16:25 pm	AN-501	Effects of Probiotics (Sanizyme) on performance and digestibility in Weaning Piglets (Thailand)
16:25-16:40 pm	AN-470	Effect of usage probiotics powder as feed additive on the egg quality of laying hens (Indonesia)
Workshop: Milk and beef marketing chains in the developing economies of Asia		Room : Napalai B
Prof. Dr. Peter Wynn (Australia)		
16:40-19:00 pm	Prof. Dr. Peter Wynn (Australia) <i>Milk and beef marketing chains in the developing economies of Asia</i>	

Session 3 Livestock Farming System		Room : Napalai A
Chairman: Prof. Dr. Juan Boo Liang (Malaysia)		
Co-chairman: Assoc. Prof. Dr. Pramote Paengkoum (Thailand)		
13:00-13:20 pm	Invited speaker	Prof. Dr. Juan Boo Liang (Malaysia) <i>Developing a zero-discharge pig farming system – a feasibility study in Malaysia</i>
13:20-13:35 pm	LF-404	Utilization of Cattle Waste as Compost Fertilizer (Indonesia)
13:35-13:50 pm	LF-393	Analysis of the resource potential of the coconut crop-cattle in the district of East Likupang (Indonesia)
13:50-14:05 pm	LF-218	Smallholder identified constraints to adoption of new forage options in South Central Coast Vietnam (Australia)
14:05-14:20 pm	LF-136	North-Uruguayan Gauchos Facing Global Agribusiness (Uruguay)
14:20-14:35 pm	LF-554	Impacts of improved extension services on awareness, adoption rates and farm productivity of small holder dairy farmers in Pakistan (Pakistan)
14:35-14:50 pm	LF-072	The assessment of local cattle and palm oil plant integration system in West Sumatera, Indonesia (Indonesia)
14:50-15:35 pm	Afternoon Break and Poster Session	
Chairman: Prof. Dr. Liang Chou Hsia (Taiwan, R.O.C.)		
15:35-15:55 pm	Invited speaker	Prof. Dr. Hiruyoki Hirooka (Japan) <i>Incorporation of environmental impacts for evaluating animal production systems</i>
15:55-16:10 pm	LE-548	Water footprint of milk production in Thailand (Thailand)
16:10-16:25 pm	LE-460	Study of local feeds potency for pig farming development in Manokwari, West Papua, Indonesia (Indonesia)
16:25-16:40 pm	LE-510	A response of <i>in vitro</i> and <i>in vivo</i> methane production, nutrient digestibility and rumen parameters of sheep by Cat fish oil (CFO) supplementation (Vietnam)
16:40-16:55 pm	LE-450	Estimation of methane emissions from local and crossbreed beef cattle in Dak Lak province of Vietnam (Vietnam)
16:55-17:10 pm	LE-550	Biogas unit, an alternative solutions for reducing green house gas effect of animal waste (Indonesia)
17:10-17:25 pm	LF-162	Characterization of native pig raisers in the integrated sweet potato – native pig production system in Baliem Valley, Papua, Indonesia (Indonesia)
17:25-17:40 pm	LF-592	Comparison of calves of cow-calf system and calves from cattle markets (Pakistan)

Session 4 Feed Science and Technology		Room : Napalai C
Chairman: Prof. Dr. Thomas J. Schonewille (The Netherlands)		
13:00-13:20 pm	Invited speaker	Assoc. Prof. Dr. Wisitiporn Suksombat (Thailand) <i>Livestock Farming to Meet Climate-Smart Agriculture and Sustainable Livelihood</i>
13:20-13:35 pm	FT-406	Application of feed technology of Quail ( <i>Coturnix-coturnix Japonica</i> ) using waste of skipjack ( <i>Katsuwonus pelamis</i> ) (Indonesia)
13:35-13:50 pm	FT-544	Serum testosterone, testes size and semen quality of rams fed sugarcane bagasse treated with urea, and live yeast or pronofer (Egypt)
13:50-14:05 pm	FT-430	Quality of protein concentrate from <i>Jatropha curcas</i> seed cake produced by chemical and biological processing (Indonesia)
14:05-14:20 pm	AN-284	Evaluation of yeast-fermented fresh cassava root as protein source using <i>in vitro</i> gas production technique and effects on Brahman cattle performances (Thailand)
14:20-14:35 pm	AN-056	Nutritive value of oil palm fronds treated with white rot fungi (Thailand)
14:35-14:50 pm	O-557	Effect of dairy extension training on technical knowledge of female farmers and factors affecting their participation level in extension program in Pakistan (Pakistan)
14:50-15:35 pm	Afternoon Break and Poster Session	
Chairman: Assist. Prof. Dr. Pattaraporn Poommarin (Thailand)		
15:35-15:50 pm	FST-543	Molecular signature of food borne pathogens in milk and meat of yaks, their products and natural excreta (India)
15:50-16:05 pm	FST-302	Study of Differential Protein Composition of Raw Milk and Processed Milk by using SDS-PAGE (Thailand)
16:05-16:20 pm	FST-476	Development and Production of Shrikhand by Utilization of Pomegranate Fruit (India)
16:20-16:35 pm	AB-343	Impact of complete feed silage from sugar cane waste product on Bali beef cattle performance (Indonesia)
16:35-16:50 pm	FST-551	Histological liver of mice ( <i>Mus musculus</i> ) after consumption of collagen extract of broiler's bone of in South Sulawesi, Indonesia (Indonesia)
Workshop : Publishing Your Research in International Journals		Room : Napalai C
Prof. Dr. Thomas J. Schonewille (The Netherlands)		
16:50-19:00 pm	Prof. Dr. Thomas J. Schonewille (The Netherlands) <i>Publishing your research in international journal</i>	

Session 5 Meat Science		Room : Napalai E
Chairman: Prof. Dr. Sanchai Jaturasitha (Thailand)		
Co-chairman: Dr. Pornpan Seanphoom (Thailand)		
13:00-13:20 pm	Invited speaker	Prof. Dr. Sanchai Jaturasitha (Thailand) Native Asian chickens: an alternative for matching the specific meat quality demands of certain groups of consumers. A review
13:20-13:35 pm	M-245	Meat quality assessment in goats subjected to conscious halal slaughter and slaughter following minimal anaesthesia (Malaysia)
13:35-13:50 pm	M-441	Meat composition, fatty acid profile and oxidative stability of meat from broilers supplemented with pomegranate ( <i>Punica granatum</i> L.) by-products (South Korea)
13:50-14:05 pm	M-045	Nutrition, fatty acid and cholesterol content of garut lamb meat at different ages (Indonesia)
14:05-14:20 pm	M-297	Vitamin D3 supplementation and carcass electrical stimulation on blood and muscle calcium level and meat tenderization of spent chicken (Malaysia)
14:20-14:35 pm	M-270	Effect of dietary blend of canola oil and palm oil on fatty acid composition, color and antioxidant profile of <i>biceps femoris</i> muscle in Goats (Malaysia)
14:35-14:50 pm	M-489	Drip and cooking loss of <i>longissimus dorsi</i> muscle under different levels of energy and protein in Iranian kid native breed (Iran)
14:50-15:35 pm	Afternoon Break and Poster Session	
Chairman: Dr. Seksan Wongsiri (Thailand)		
Co-chairman: Dr. Kanok-on Nugboon (Thailand)		
15:35-15:50 pm	M-163	Some functional properties of beef liver protein concentrates (Indonesia)
15:50-16:05 pm	O-141	The differences of milk density and fat content in Tawang Argo Village compared with Indonesian National Standard (Indonesia)
16:05-16:20 pm	O-084	Microbiological and chemical characteristics of probiotic goat cheese with mixed cultures of <i>L. rhamnosus</i> and <i>L. plantarum</i> (Indonesia)
16:20-16:35 pm	O-204	Physical properties and microstructure of dangke pipening, a traditional cheese of Enrekang Sulawesi Indonesia (Indonesia)
16:35-16:50 pm	FST-578	Effect of jelly addition on Kefir quality (Indonesia)
16:50-17:05 pm	FST-483	Physico-chemical quality of kefir of etawah crossbred goat milk (Indonesia)
17:05-17:20 pm	LM-079	Evaluation of goat milk quality to support dairy goat development (Indonesia)
17:20-17:35 pm	O-463	Quality of chicken eggs in the flea market, Kamphaeng Saen district, Nakhon Pathom province, Thailand (Thailand)



Session 6 JIRCAS Symposium		Room : Dusit 1
<i>Mitigation technologies for greenhouse gas emissions from enteric fermentation and manure in Southeast Asia</i>		
13:00-13:05 pm	Opening address (SAADC, JIRCAS or KKU)	
13:05-13:15 pm	<b>Dr. Tomoyuki Suzuki</b>	Introduction of JIRCAS research activities (Japan)
13:15-13:45 pm	<b>Dr. Fuminori Terada</b>	Mitigation of Greenhouse Gas Emissions from Cattle Production in Asia (Japan)
<i>Greenhouse gas emissions from enteric fermentation</i>		
<b>Chairman: Dr. Nguyen Van Thu</b>		
13:45-14:10 pm	<b>Dr. Osamu Enishi</b>	Efforts to mitigate enteric methane emission in Japan: measurement method, mitigation technique, inventory and policy (Japan)
14:10-14:35 pm	<b>Mr. Chatchai Kaewpila</b>	Effect of whole kapok seed or chitosan supplementation on feed intake and enteric methane emission of Thai native beef cattle fed rice straw (Thailand)
14:35-15:00 pm	<b>Dr. Tomoyuki Suzuki</b>	Methane conversion factors for gas emissions from cattle in Thailand and Vietnam (Japan)
15:00-15:15 pm	<b>Afternoon Break</b>	
15:15-15:40 pm	<b>Dr. Nguyen Van Thu</b>	A summary of study results on <i>in vivo</i> methane production of growing Lai Sind cattle fed levels of different oils in Mekong delta of Vietnam (Vietnam)
15:40-16:05 pm	<b>Mr. Takashi Sakai</b>	The relationship between rumen fermentation parameters and methane emission in Lai Sind cattle fed total mixed ration (Japan)
<i>Greenhouse gas emissions from manure</i>		
<b>Chairman: Dr. Kritapon Sommart</b>		
16:05-16:30 pm	<b>Dr. Takashi Osada</b>	GHG emissions from manure management -Japan Experience- (Japan)
16:30-16:55 pm	<b>Dr. Kalaya Boonyanuwat</b>	Manure management and greenhouse gas mitigation in beef production (Thailand)
16:55-17:20 pm	<b>Dr. La Van Kinh</b>	Greenhouse gas emissions from cattle manure management in Vietnam (Vietnam)
17:20-17:30 pm	<b>Dr. Tomoyuki Suzuki</b>	<b>Conclusions</b>
17:30 pm	<b>Dr. Kritapon Sommart</b>	Closing remarks

**Conference Trip****Thursday, October 29, 2015**

<b>Thursday, October 29</b>		<b>Conference Trip</b>
07:00-08:00 am	<b>Route 1</b>	<b>Dairy Buffalo Farm</b>
	<b>Route 2</b>	<b>Nong Nooch Garden</b>
08:00 am-16:00 pm	Lunch and Break will be served during the trip.	

**Symposium****Thursday, October 29, 2015****Dairy Beef Production System and Its Supply Chain in Asia**

<b>Thursday, October 29</b>		
<b>Symposium : Dairy Beef production system and its supply chain in Asia</b>		<b>Room : Dusit 12 &amp; 13</b>
<b>Chairman: Dr. Kritapon Sommart (Thailand)</b>		
08:00-08:30 am	Registration	
08:30-08:35 am	Opening address (SAADC2015, JIRCAS or TRF)	
08:35-08:40 am	<b>Dr. Kritapon Sommart</b> KKU, Thailand	Introduction
08:40-09:40 am	<b>Dr. Fuminori Terada</b> Meiji Feed Co., Ltd. Japan	Current situation of dairy beef production in Japan
09:40-10:40 am	<b>Dr. Nguyen Van Thu</b> CTU, Vietnam	Current situation of dairy production in Vietnam
10:40-10:50 am	<b>Morning Break</b>	
10:50-11:50 am	<b>Dr. Tumrong Mekhora</b> TRF, Thailand	Beef industry and its supply chain in Thailand
11:50 am-12:15 pm	<b>Dr. Tomoyuki Suzuki</b> JIRCAS, Japan	General discussion and conclusions
12:15 pm	<b>Lunch</b>	
<b>Farewell Party</b>		<b>Chaba Pool</b>
18:00-22:00 pm	Farewell Party	

## Oral Presentation

Friday, October 30, 2015

Friday, October 30	
08:00-09:00 am	Registration
<b>Plenary Speaker</b>	<b>Room : Napalai B &amp; Napalai C</b>
<b>Chairman: Assist. Prof. Dr. Chalermpon Yuangklang</b>	
09:00-09:30 am	<b>Prof. Dr. Ermias Kebreab (USA)</b> <i>Development of ration balancing software to improve sustainability of beef production</i>
09:30-10:00 am	<b>Prof. Dr. Christopher S. McSweeney (Australia)</b> <i>Methanogenesis and Hydrogenotrophy in Ruminant Livestock</i>
10:00-10:15 am	<b>Morning Break</b>

Ruminant Nutrition		Room : Napalai B & Napalai C
<b>Chairman: Assist. Prof. Dr. Chalermpon Yuangklang</b>		
10:15-10:30 am	<b>AN-078</b>	The effect of chemical processing of soybean meal on <i>in vitro</i> ruminant intestinal available protein (Iran)
10:30-10:45 am	<b>O-377</b>	Effects Of probiotics supplementation on nutrient digestibility in temple captive Asiatic elephants of Tamilnadu in India (India)
10:45-11:00 am	<b>AN-506</b>	Influence of rice straw treated on rumen fermentation and microbial population in swamp buffaloes (Thailand)
11:00-11:15 am	<b>AN-118</b>	Feeding trait, reproductive and productive system, trading and slaughter as meat resources of goat for farmers in mid hills of Nepal (Nepal)
11:15-11:30 am	<b>AN-480</b>	Rumen adaptation for urea on feed intake, nutrient digestibility and microbial protein syntheses of swamp buffaloes (Thailand)
11:30-11:45 am	<b>AN-038</b>	Chemical composition of forages and browses offered to goats on smallholder farms in Mauritius (Mauritius)

Closing Ceremony	
11:45 am-12:30 pm	<b>Closing Ceremony and Awards</b>
12:30 pm	<b>Lunch Break</b>

**Poster Presentation**  
**14:50-15:35 pm**

**Tuesday, October 27, 2015**

1	<b>AN-002</b>	Effects of Endophyte-Infected Tall Fescue Seed on Forestomach Epithelial Gene Expression in Steers (South Korea)
2	<b>AN-007</b>	Effect of microbial mixture on survival of fermented juice of epiphytic lactic acid bacteria (FJLB) (Thailand)
3	<b>AN-012</b>	Effects of Storage Time on External and Internal Characteristics of Lutein Eggs (Thailand)
4	<b>AN-014</b>	Efficacy of probiotic <i>Enterococcus mundtii</i> in dried form in Broilers (Thailand)
5	<b>AN-020</b>	Improvement of sugar palm peel silage by using fermented juice of epiphytic lactic acid bacteria (FJLB) (Thailand)
6	<b>AN-026</b>	Growth response of purebred Merino and crossbred prime lambs from feed supplemented with canola and flaxseed oils (Vietnam)
7	<b>AN-031</b>	Effects of Supplementation with Guinea Grass Silage on Growth Performance of Lao Native Cattle Fed Rice Straw as Basal Diet (Thailand)
8	<b>AN-068</b>	Effect of bee pollen as a natural antioxidant on the performance, carcass and antioxidant status of V-line rabbits (Egypt)
9	<b>AN-075</b>	Crude protein requirements for maintenance of Elk ( <i>Cervus canadensis</i> ) (South Korea)
10	<b>AN-086</b>	The effect of Mao pomace supplementation in diets on blood parameters of meat ducks (Thailand)
11	<b>AN-146</b>	Evaluation of mulberry leave as functional feed additive (Taiwan R.O.C.)
12	<b>AN-147</b>	Effects of performance and intestinal morphology by supplementation with a functional feed additive in poultry diet (Taiwan R.O.C.)
13	<b>AN-151</b>	Nitrogen balance and carcass quality in broilers given a low-protein diet in the grower period and higher-protein diets in the finisher period (Japan)
14	<b>AN-153</b>	Effect of a heat stress reducing additive on meat production and quality in Hanwoo heifers (South Korea)
15	<b>AN-154</b>	Effect of Fermented Plant Extracts on Enteric Methane Production in the Rumen (South Korea)
16	<b>AN-171</b>	Enhancement of rice straw nutrient value by solid state fermentation with <i>Trichoderma</i> (Taiwan R.O.C.)
17	<b>AN-177</b>	Supplementation of recombinant lycopene on egg quality and blood characteristics in quail diet (Taiwan R.O.C.)
18	<b>AN-178</b>	The study of kinetics of yeast growth in fermented milk (Thailand)
19	<b>AN-187</b>	Effect of Propolis as a Natural Antioxidant on the Performance, Carcass and Antioxidant Status of V-line Rabbits (Egypt)
20	<b>AN-193</b>	The effects of phenological stages on forage quality of four rangeland species for the sheep nutrition in Sari plain, Iran (Iran)
21	<b>AN-202</b>	Effect of ginger root powder supplementation on growth performances and carcass characteristics of broiler chickens as rearing in hot climate (Thailand)
22	<b>AN-205</b>	Fermentation pattern of alfalfa hay and <i>Ulva fasciata</i> using in gas production technique (Iran)

23	<b>AN-206</b>	To compare intestinal available protein of <i>Ulva fasciata</i> with alfalfa hay using a new gas technique (Iran)
24	<b>AN-213</b>	Effect of <i>Curcuma domestica</i> Stock Solution on Layer Performance, Egg Quality, and Antioxidant Activity (Indonesia)
25	<b>AN-215</b>	Effect of yeast fermented fresh cassava root fed beef cattle on digestibility (Thailand)
26	<b>AN-229</b>	Changes in metabolic hydrogen flow on bovine rumen fermentation in response to cashew nut shell liquid (Japan)
27	<b>AN-231</b>	Utilization of Cassava Pulp and Corncob Fermented with <i>Aspergillus niger</i> for Animal Feed: Effect on Protein Levels (Thailand)
28	<b>AN-271</b>	Utilization of Fresh Cassava with Ruzi Grass Fermented by Microbes from Pangkhaomark as Diets in Swine (Thailand)
29	<b>AN-294</b>	The effects of soybean meal treated with green tea marc crude extract on oxidative status and milk production of dairy cows (Thailand)
30	<b>AN-301</b>	Digestibility and Nitrogen Balance of Growing Goats Fed Different <i>Mimosa pigra</i> (L.) Meal Levels (Thailand)
31	<b>AN-303</b>	Effects of Banana Stem Supplemented on Productive Performance of Finishing Pigs (Thailand)
32	<b>AN-305</b>	Effect of cultivation time on populations of yeast and lactic acid bacteria co-cultures in fermented milk (Thailand)
33	<b>AN-309</b>	Effect of Dietary Supplementation of Bioceramic Powders on Production Performance of Broiler Chickens (Thailand)
34	<b>AN-314</b>	Effect of Cutting Age and Ensilage on Chemical Composition of Pak Chok1 and King Giant Napier grasses (Thailand)
35	<b>AN-324</b>	Effects of levels of dried leucaena ( <i>Leucaena leucocephala</i> ) supplementation on nutritive value of milk in organic dairy cows (Thailand)
36	<b>AN-354</b>	Metabolic imprinting improves rumen development via modulation of epigenetic gene expression including histone modification (South Korea)
37	<b>AN-358</b>	Potassium iodate supplementation in layer drinking water for iodine enriched egg and laying performance (Thailand)
38	<b>AN-367</b>	Efficacy of dry powdered <i>Enterococcus italicus</i> on immune responses to <i>Mycoplasma hyopneumoniae</i> vaccination (Thailand)
39	<b>AN-385</b>	Characterization of Nitrate-Reducing and Presumptive-Acidogenic Bacteria from Nitro Toxin Enriched Equine Cecal Populations (China)
40	<b>AN-398</b>	Feeding standard for Hanwoo cattle: past, present and future (South Korea)
41	<b>AN-400</b>	Estimation of the TDN of spent mushroom substrates used as Hanwoo feed (South Korea)
42	<b>AN-402</b>	Feed intake, nutrient digestibility and rumen parameters in goats as affected by mao ( <i>Antidesma thwaitesianum</i> Muell. Arg.) seed meal supplementation (Thailand)
43	<b>AN-410</b>	Effects of spineless cactusfeeding on milk production,milk qualityand antioxidant capacity in dairy goat (Japan)
44	<b>AN-421</b>	Effect of high choline levels supplementation on phosphatidylcholine concentration in egg yolk of laying hen (Thailand)
45	<b>AN-434</b>	Effects of CNCPS Fraction-Enriched Protein Feeds on Ruminal Fermentation in Holstein Steers Fed TMR Containing Low Protein as a Basal (South Korea)
46	<b>AN-442</b>	Effects of synbiotic supplemented in broiler diet on carcass and meat quality (Thailand)

47	<b>AN-445</b>	Effect of nitrate addition to cassava chip on <i>in vitro</i> gas production (Thailand)
48	<b>AN-447</b>	Effects of TDN value in TMR on ruminal fermentation characteristics and effective dry matter degradability by rumen microbes (South Korea)
49	<b>AN-452</b>	Performance of Lohi sheep and Beetal goats fed various fodders (Pakistan)
50	<b>AN-458</b>	Feed intake and nutrient digestibility in goats of silages prepared from Stylo legume ( <i>Stylosanthes guianensis</i> CIAT184) treated with dried mao pomaces (DMP) and lactic acid bacteria (Thailand)
51	<b>AN-484</b>	Study on rumen ecology of swamp buffaloes as affected by urea as protein source in concentrate mixture fed on rice straw based (Thailand)
52	<b>AN-486</b>	Effect of rice straw treatment on feed intake and nutrient digestibility in swamp buffaloes (Thailand)
53	<b>AN-504</b>	Effects of condensed tannins of some tropical plants on ruminal gas production <i>in vitro</i> (Thailand)
54	<b>AN-505</b>	Dietary fat sources on growth performance and body composition in broiler chickens (Thailand)
55	<b>AN-515</b>	Comparison of aquaporin-1 (AQP1) expression between yak ( <i>Bos grunniens</i> ) and cattle ( <i>Bos taurus</i> ) in the Qinghai-Tibetan Plateau (China)
56	<b>AN-519</b>	Productive Performance and Production Cost of Different Cross Bred Meat Goats Fed High Levels of OPL Fermented TMR (Thailand)
57	<b>AN-532</b>	Effect of different Chinese herbs on antioxidant capacity and immune function in Sansui laying duck (Pakistan)
58	<b>AN-552</b>	Evaluation of nutrient digestibility of mixed cassava pulp and Napier Pakchong grass for use as an alternative feedstuff in laying hens (Thailand)
59	<b>AN-556</b>	Effects of microorganism and ambient temperature on the quality of fermented soybean meal (China)
60	<b>AN-564</b>	Effect of extraction methods for krabok oil on milk production, compositions and fatty acids in milk of dairy cows (Thailand)
61	<b>AN-581</b>	Effect of substitution of soybean meal by dried tomato pomace on feed intake and productive performance in beef cattle fed urea treated rice straw as main roughage source (Thailand)
62	<b>AN-583</b>	Effect of Kaentawan supplementation on feed intake and growth performance in dairy calves (Thailand)
63	<b>AN-590</b>	<i>In vitro</i> rumen fermentation characteristics of goat and sheep supplemented with polyunsaturated fatty acids (Malaysia)
64	<b>AN-595</b>	Effects of animal feed ensilage on meat goat production in farmer scale (Thailand)
65	<b>AN-493</b>	Effect of Nitrate Slow Release on Rumen Fermentation in Goats (Thailand)

**Poster Presentation**  
**14:50-15:35 pm**

**Wednesday, October 28, 2015**

66	<b>A-287</b>	Use of <i>Bacillus</i> spp. as Probiotic in Feed on Snake-head Fish ( <i>Channa striata</i> ) Culture (Thailand)
67	<b>A-338</b>	Aquaculture in a protected gulf: the case of Amvrakikos (Greece)
68	<b>A-238</b>	Mulberry silkworm ( <i>Bombyx mori</i> ) pupae enhance omega-3 fatty acids in Nile Tilapia ( <i>Oreochromis niloticus</i> ) fillet (Thailand)
69	<b>AB-125</b>	Study of humoral immune response using IBD Blen® and Vaxxitek HVT-IBD® vaccines even high maternal derived antibody in broiler chickens (Thailand)
70	<b>AB-319</b>	Reliable Monoclonal Antibodies for Immunodiagnosis of Fasciolosis in Both Animal and Human (Thailand)
71	<b>AB-342</b>	Vitrification of mouse embryos: comparison of Cryotop and hemi straw closed system methods (Thailand)
72	<b>AG-100</b>	Genetic improvement of production performance for Yorkshire (South Korea)
73	<b>AG-104</b>	Genetic parameters and trends for growth and carcass traits of Landrace in Korea (South Korea)
74	<b>AG-105</b>	Effect of sex and carcass weight on pork belly characteristics of Large White (South Korea)
75	<b>AG-107</b>	Influence of sex and carcass weight on pork belly muscle of Large White (South Korea)
76	<b>AG-122</b>	Genetic diversity of mitochondrial DNA D-loop sequences in Vietnamese swamp buffalo (Vietnam)
77	<b>AG-164</b>	Annual trend of genetic improvement for production performance of three swine breeds (South Korea)
78	<b>AG-236</b>	Genetic diversity analysis in six Vietnamese indigenous pig breeds using 20 microsatellite markers (Vietnam)
79	<b>AG-263</b>	Performance Testing of Kamphaeng Saen Bulls (Thailand)
80	<b>AG-356</b>	Modelling genomic selection strategies to improve genetic gain in swine breeding programs using ZPLAN+ (South Korea)
81	<b>AP-008</b>	Effects of lycopene on hepatic metabolic and immune-related gene expressions in chickens (South Korea)
82	<b>AP-536</b>	Morphological studies of thyroid gland of Saidi rams fed mannan oligosaccharide supplemented diet (Egypt)
83	<b>AR-066</b>	Efficiency of difference doses of pregnant mare's serum gonadotropin on superovulations in meat goats (Thailand)
84	<b>AR-131</b>	Supplementation of vascular endothelial growth factor (VEGF) increases the maturation of porcine COCs derived from small follicles (Japan)
85	<b>AR-308</b>	Effects of Age and Body Weight at the First Mating on Subsequent Reproductive Performance and Economic Return in Thai Native Gilt (Thailand)
86	<b>AR-405</b>	Characterization of slaughtered prepubertal gilt ovaries according to their follicular surface patterns (South Korea)

87	<b>BVS-148</b>	Antibacterial activity of wood vinegar against <i>Salmonella Enteritidis</i> and <i>Salmonella Typhimurium</i> (Thailand)
88	<b>BVS-207</b>	Virucidal Efficacy of <i>Clinacanthus nutans</i> and <i>Houttuynia cordata</i> Extract against Virulent Newcastle Disease Virus (Thailand)
89	<b>BVS-290</b>	Antimicrobial efficiency of selected essential oils against four common animal-pathogenic bacteria (Thailand)
90	<b>BVS-313</b>	Ciliary Activity and Life span of Swine Precision-cut lung slices: Comparison between Changed and Unchanged medium (Thailand)
91	<b>BVS-315</b>	Effect of Rice Husk Bedding on <i>Eimeria tenella</i> Transmission in Broiler Chickens (Thailand)
92	<b>FST-267</b>	Process development of cooking wine from whey of buffalo milk (South Korea)
93	<b>FT-099</b>	Crude triterpenoid, phenolic compounds and enzyme activities of fermented soybean hull by <i>Antrodia cinnamomea</i> (Taiwan R.O.C.)
94	<b>FT-111</b>	Effect of performance and intestinal characteristics on supplemented with protease in the broiler diet (Taiwan R.O.C.)
95	<b>FT-299</b>	The levels of TBARS in pellet fish feed mixed with different astaxanthin levels and packaging methods (Thailand)
96	<b>FT-355</b>	Standardized total tract digestibility of phosphorus of various meal diets as protein source in growing-finishing pigs (South Korea)
97	<b>LE-375</b>	Effects of storage on pathogenic bacteria content of layer manure extract (Thailand)
98	<b>LE-408</b>	Effect of heat stress environment on the blood parameters and behavior pattern in Korean native calves (South Korea)
99	<b>LF-389</b>	Development of Local Cattle with Sustainable in North Sulawesi (Indonesia)
100	<b>LF-568</b>	Farmers' Knowledge, Beliefs and Barriers to Prevent Newcastle Disease in Village Chickens in Central Dry Zone of Myanmar (Myanmar)
101	<b>LF-571</b>	Understanding of Village Chicken Production and Health Care Management at the Central Dry Zone of Myanmar (Myanmar)
102	<b>LF-580</b>	The complexity of animal husbandry in crop-livestock farming systems in the New Reclaimed Lands (NRL), Egypt (Egypt)
103	<b>LM-027</b>	Behavioral characteristics of laying hens under different heat condition (South Korea)
104	<b>LM-251</b>	Conventional and deep - litter pig production system: income over feed cost of three breed cross fattening pigs (Thailand)
105	<b>LM-389</b>	Development of local cattle with sustainable in North Sulawesi (Indonesia)
106	<b>LM-589</b>	Why Poultry Welfare in Kuwait is an Obstacle to Trade? (Kuwait)
107	<b>M-003</b>	The comparative study on chemical compositions and antioxidant activities with different cuts in Hanwoo ( <i>Bos taurus coreanae</i> ) beef (South Korea)
108	<b>M-298</b>	Meat Quality of Crossbred Fattening Pigs Sired by Pakchong 5 Boars and Commercial Boars (Thailand)
109	<b>M-412</b>	Comparison muscle fiber size, sarcomere length and tenderness between chicken and duck meat (Thailand)
110	<b>M-413</b>	Effect of Immunocastration on Myosin Heavy Chain Isoform Expression (Thailand)
111	<b>M-448</b>	Effect of Dried Fermented Juice of Epiphytic Lactic Acid Bacteria on Broiler Meat Quality (Thailand)



112	<b>M-459</b>	Prediction of meat and carcass quality traits by real-time Ultrasound in swine (Thailand)
113	<b>O-252</b>	Body growth of Thai wild boar ( <i>Sus scrofa jubatus</i> ) within a yearling age in a deep litter pig production system (Thailand)
114	<b>O-266</b>	Consumer attitude toward meat consumption in Ghana (Japan)
115	<b>O-593</b>	Role of operator equations in biological sciences (India)
116	<b>VPH-089</b>	Prevalence study of gastrointestinal parasites in goats from small farms in Bangkok and nearby, Thailand (Malaysia)
117	<b>VPH-093</b>	Antimicrobial Susceptibility Profiles of Potential Lactic Acid Bacteria Isolated from Grazing Ducks and Geese in Thailand (Thailand)



5<sup>th</sup>

# SAADC 2015

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