



**The 8<sup>th</sup> International Conference on Integration of Science and Technology for Sustainable Development (8<sup>th</sup> ICIST) in November 19-22, 2019 at Huiyuan International Hotel, Jingde, Anhui province, PR China**

**PROGRAM**

- 19 November 2019 - registration and poster display
- 20 November 2019 – conference day
- 21 November 2019 – study tour in Jingde
- 22 November 2019 – study tour to Huangshan mountain

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**Scientific program**

**19 November 2019**

14:30 Registration and poster display

**20 November 2019**

- 7:00 Registration
- 8:30 Parade of National Flags and Representatives on Stage  
 Guest representatives (20 countries) :  
 AATSEA (Dr. Kasem Soyong)  
 Bangladesh (Dr. MD Asaduzzaman Sarker)  
 Botswana (Dr. John Moreki)  
 Cambodia (Mr. Pheakra Phal)  
 China (Dr. Fucheng Lin)  
 Egypt (Dr. Nagia F. Ali)  
 Finland (Dr. Timo Korpela)  
 India (Dr. Sundaram Lalitha)  
 Indonesia (Dr. Nanik Setyowati)  
 Iran (Dr. Younes Danesh)  
 Japan (Dr. Hiroyuki Konuma)  
 Korea (Mr. Young Ah Choi)

Laos (Bouthsakone Inthlangsee)  
Myanmar (Mr. Thet Lwin Htay)  
Nigeria (Dr. Raphel Okigbo)  
Philippines (Dr. Teodoro Mendoza)  
Russia (Dr. Elvira Khalikova)  
Sri Lanka (Dr. Samantha C. Karunarathna)  
Syria (Dr. Moammar Dayoub)  
Thailand (Dr. Kampon Sriwatanakul)  
Vietnam (Mrs. Hoang Hai)  
Welcome address:  
Prof. Dr. Timo Korpela (Chairman of International Organizing Committee)  
CAS representative (Organizing Committee)  
Dr. Kasem Soyong (AATSEA President) – opening with the theme song “IMAGINE”

**8:45-9:00**

**AATSEA Awarding Ceremony:**

**AATSEA awardees will be given Award Plaques and Souvenirs by Dr. Kasem Soyong**

**AATSEA Outstanding Leadership Award**

**Beichun Chen (China)**, Agriculture Development

**Yiming Zhu (China)**, Agriculture Development

**Bouthsakone Inthlangsee (Laos)**, Agriculture Development

**Professor Dr. Firma C. Viray (Philippines)**, AATSEA Outstanding Leadership in Education and Research

**Kyaw Swar Soe (Myanmar)**, AATSEA Outstanding Leadership in Agriculture Extension

**Dr. Rohidin Mersyah (Indonesia)**, AATSEA Outstanding Leadership in Agriculture Policy Making and Governor

**Dr. Samantha C. Karunarathna (Sri Lanka)**, AATSEA Outstanding Leadership in Research and Development

**Dr. Sundaram Lalitha (India)**, AATSEA Outstanding Leadership in Research and Development

**Dr. Younes Danesh (Iran)**, AATSEA Outstanding Leadership in Research and Development

**AATSEA recognition awards to organizers**

1. CAS Asian Agriculture Bio Engineering, China (Ms. Yi Zhao)

2. BioAgritech, Co. Ltd, Hanoi, Vietnam (Mrs. Hoang Hai)

3. CGC Organic Coffee, Champasack, Laos (Mr. Young Ah Choi)

4. Mahasarakham University (Dr. Wannasakpijitr Boonserm)

5. Rajamangala University of Technology Tawan-ok, Thailand (Dr. Naruemon Mongkontanawat)

6. Rambhai Barni Rajabhat University, Thailand (Asst. Prof. Dr. Preeyanan Sittijinda)

7. Shwe Kant Kaw Manufacturing, Myanmar (Mr. Thet Lwin Htay)

8. Society of Applied Biotechnology, India (Prof. Dr. T. S. S. K. Patro)

9. University of Bengkulu, Indonesia (Dr. Zainal Mukhtar)

**9:00-9:10**

**GROUP PHOTO**

**Keynote Session**

**Chair: Prof. Dr. Fucheng Lin (China), Prof. Dr. Nanik Setyowati (Indonesia)**

**9:10-9:40**

**Prof. Dr. Hiroyuki Konuma (Japan):** Global trend of food security and future outlook

**9:40-10:10**

**Prof. Dr. Teodoro Mendoza (Philippines):** The 4<sup>th</sup> industrial revolution and the need for sustainable strategies of addressing the large-scale challenges

**10:10-10:40**

**Prof. Dr. Fucheng Lin (China):** Control of rice blast disease

**10:40-11:00**

**COFFEE BREAK**

<b>Special Session</b>	<b>Meeting on CAS Biological products and Organic Agriculture Green Technology (Chinese Language)</b>
13:00-15:20	<b>Chairman: Wenrong Feng</b>
13:00-13:20	<b>Beichun Chen (China):</b> Experience in green technological agriculture
13:20-13:40	<b>Yiming Zhu (China):</b> Experience in green technological agriculture
13:40-14:40	<b>Dr. Kasem Soyong (Thailand):</b> Experience Research in Biological products and Organic Agriculture
14:40-15:20	The success of CAS biological products distributional demonstration in China
15:20-15:40	<b>COFFEE BREAK</b>

## RESEARCH FORUM

### 11:00 -18:20 ORAL PRESENTATIONS

<b>Session 1</b>	<b>ORGANIC AGRICULTURE AND BIOLOGICAL PRODUCTS</b>
<b>Room 1</b>	<b>Chairs: Prof. Dr. Zainal Mukhtar (Indonesia), Dr. Younes Danesh (Iran), Prof. Dr. Danilo Josue (Philippines)</b>
<b>11:00-11:20</b>	<b>Invited Speaker: Prof. Dr. Kampon Sriwatanakul (Thailand):</b> Nutritional values and health benefits of durian, the King of Fruits
<b>11:20-11:40</b>	<b>Invited Speaker: Dr. Nanik Setyowati (Indonesia):</b> Shifting and dominance of weed species following solarization treatment under organic farming system in tropical highland
<b>11:40-12:00</b>	<b>Invited Speaker: Dr. Bernadette Colle Mendoza (Philippines):</b> Detection of coliforms and salmonella strains in salad vegetables from selected organic farms in Laguna and Quezon, Philippines
<b>12:00-13:00</b>	<b>LUNCH BREAK</b>
<b>13:00-13:20</b>	<b>Invited Speaker: Dr. Fahrurrozi Fahrurrozi (Indonesia):</b> Yield performances of potato ( <i>Solanum tuberosum</i> L.) as amended with liquid organic fertilizer and vermicompost
<b>13:20-13:40</b>	<b>Invited Speaker: Dr. Mohammad Chozin (Indonesia):</b> Progress in sweet corn hybrid breeding program for organic agriculture in the tropics
<b>13:40-14:00</b>	<b>Invited Speaker: Dr. Thet Lwin Htay (Myanmar):</b> Organic agriculture movement in Myanmar
<b>14:00-14:20</b>	<b>Invited Speaker: Dr. Teodoro Mendoza (Philippines):</b> Obtaining heterosis in hybrid rice : The innovation pathway for increasing rice yield
<b>14:20-14:40</b>	<b>Karinporn Yodsenee (Thailand):</b> Encapsulation of <i>Pediococcus pentasaceus</i> RSU-Nh1 into pectin-sodium alginate and chitosan coating
<b>14:40-15:00</b>	<b>Patcharin Surin (Thailand):</b> Residual effect of different organic fertilizer types and application time on rice growth and yield
<b>15:00-15:20</b>	<b>Pakkapong Pongsuk (Thailand):</b> Organic farm learning and practical networks: Facilitation for learning and innovation for sustainable agriculture
<b>15:20-15:40</b>	<b>COFFEE BREAK</b>
<b>15:40-16:00</b>	<b>Invited Speaker: Dr. Younes Danesh (Iran):</b> Optimizing techniques on <i>in vitro</i> propagation of arbuscular mycorrhizal fungi
<b>16:00-16:20</b>	<b>Invited Speaker: Prof. Dr. Zainal Mukhtar (Indonesia):</b> CO <sub>2</sub> emission and accumulation of soil organic matter under sweet corn stand in the long term organically managed land
<b>16:20-16:40</b>	<b>Invited Speaker: Prof. Dr. M.A. Sarker (Bangladesh):</b> Role of botanical pesticide in sustainable crop protection
<b>16:40-17:00</b>	<b>Dwi Wahyuni Ganefianti (Indonesia):</b> Superiority test of mixed-cropping models for chili pepper hybrid varieties through participatory plant breeding
<b>17:00-17:20</b>	<b>Kasem Soyong (Thailand):</b> Organic agriculture model
<b>17:20-17:40</b>	<b>Chanitnan Suriyawittayawate (Thailand):</b> Growing organic herbs to promote the local enterprises for sustainability under plant genetic conservation project, Suratthani, Thailand
<b>17:40-18:00</b>	<b>Puji Harsono (Indonesia):</b> Weed inhibition and sorghum yield as affected by organic mulch in tropical coastal environment
<b>18:00-18:20</b>	<b>Suneeporn Suwanmaneepong (Thailand):</b> Farmers' adoption and attitude towards organic rice production in Chachoengsao province, Thailand

18:30

## CLOSING CEREMONY

Session 2

### PLANT BIOTECHNOLOGY

Room 2

**Chairs: Dr. Bernadette Colle Mendoza (Philippines), Dr. Nanik Setyowati (Indonesia), Prof. Dr. Somdej Kanokmedhakul (Thailand), Dr. Bancha Wiangsamut (Thailand)**

**11:00-11:20** **Invited Speaker: Prof. Dr. Somdej Kanokmedhakul (Thailand):** Bioactive secondary metabolites from *Chaetomium* spp.

**11:20-11:40** **Invited speaker: Dr. Bancha Wiangsamut (Thailand):** Yield and growth of pak choi and green oak vegetables grown in substrate plots and hydroponic systems with different plant spacing

**11:40-12:00** **Pannipa Youryon (Thailand):** Efficiency of preharvest calcium chloride, potassium oxide or salicylic acid treatment on internal browning incidence of Queen pineapple during cold storage

**12:00-13:00**

#### LUNCH BREAK

**13:00-13:20** **Suriyan Supapvanich (Thailand):** Effects of preprocess elicitors immersion on physicochemical quality of fresh-cut papaya cv. 'Holland' fruits during cold storage

**13:20-13:40** **Kannikar Charoensuk (Thailand):** Sugars, nutritional and organic acids content in granulated Rambutan (*Nephelium lappaceum* Linn.) sugar

**13:40-14:00** **Lin Li (China):** MoFap7, a ribosome assembly factor, is required for fungal development and plant colonization of *Magnaporthe oryzae*

**14:00-14:20** **Widodo Widodo (Indonesia):** Kinds of retardants inducing potato (*Solanum Tuberosum* L.) microtuber production

**14:20-14:40** **Sutisa Chaikul (Thailand):** Effects of compost and chelated ca on early growth of Para rubber (*Hevea brasiliensis*)

**14:40-15:00** **Wasinee Chanchum (Thailand):** Influence of harvesting day and potassium chloride on sweetness of melon grown in plastic house

**15:00-15:20** **Pimpisuth Boonsopin (Thailand):** Effect of growing media and 20-20-20 fertilizer rate on yield performance of melon grown in plastic house

**15:20-15:40**

#### COFFEE BREAK

**15:40-16:00** **Patinya Virulchatapan (Thailand):** Effect of harvesting periods on physicochemical properties and in vitro digestibility of banana flour

**16:00-16:20** **Kannika Kunyane (Thailand):** The effects of dual modification with ultrasound and annealing treatments on properties and glycemic index in Thai glutinous rice (RD6)

**16:20-16:40** **Atra Romeida (Indonesia):** Plant growth regulator formulation for propagating red chili (*Capsicum annum* L.) UNIB CH23 hybrid stem cuttings

**16:40-17:00** **Xue-Ming Zhu (China):** The crosstalk between autophagy and endocytosis in *Pyricularia oryzae*

**17:00-17:20** **Pramote Pornsuriya (Thailand):** Augmented analysis for yield and pod characters of yardlong bean (*Vigna unguiculata* (L.) Walp. ssp. *sesquipedalis* Verdc.) lines

**17:20-17:40** **Bunyarit Chumthong (Thailand):** Influence of ethephon spraying on growth and yield of Stevia (*Stevia rebaudiana* Bertoni.)

**17:40-18:00** **Athiwat Joedsak (Thailand):** Knowledge, attitude and practices towards good agricultural practice of rice farmers under large agricultural plot scheme (LAPS) in Khlongudomchonlajorn, Chachoengsao province, Thailand

**18:00-18:20** **Sommart Yoosukyingsataporn (Thailand):** Influences of trinexapac-ethyl on development and sugar content of sorghum bicolor

**18:20-18:40** **Isagani Angeles (Philippines):** Phytochemical constituents, Proximate composition and Antimicrobial property of *Padina* sp. (*Lap-lapayag*) collected along Gonzaga, Cagayan Philippines

18:30

## CLOSING CEREMONY

Session 3

BIODIVERSITY, TAXONOMY, BIOLOGICAL ACTIVITY

Room 3

**C h a i r s :** Prof. Dr. Kwanjai Kanokmedathakul (Thailand), Dr. Sundaram Lalitha (India), Dr. Samantha C. Karunarathna (Sri Lanka)

**11:00-11:20** **Invited Speaker: Prof. Dr. Kwanjai Kanokmedathakul (Thailand):** Compounds isolated from the fungus *Neosartorya pseudofischeri*

**11:20-11:40** **Invited Speaker: Dr. Samantha C. Karunarathna (Sri Lanka):** New edible fungi from Southeast Asia: discovery to production

**11:40-12:00** **Nion Chirapongsatongkul (Thailand):** The impact of the mixture of biofloc fermentation medium and vinasse on attractability, palatability and antibacterial property against multi-antibiotics resistant *Aeromonas veronii*

**12:00-13:00**

**LUNCH BREAK**

**13:00-13:20** **Invited speaker: Dr. Quyen BT HO (V i e t n a m):** Biodiversity and cultivation characteristic of oyster cultivation in Southern Vietnam

**13:20-13:40** **Kittichon U-taynapun (Thailand):** Species diversity and virulence gene existence in clinical *Aeromonas* spp. causing motile *Aeromonas septicemia* (MAS) Isolated from cultured Nile tilapia (*Oreochromis niloticus*)

**13:40-14:00** **Teeka Yotapakdee (Thailand):** Evaluation of the effectiveness of community development on naturally mycorrhizal mushroom cultivation technology for forest restoration and community food bank at Northern, Thailand

**14:00-14:20** **Supattra Poeaim (Thailand):** Effective of *Neosartorya* use to control *Colletotrichum* causing anthracnose disease on papaya

**14:20-14:40** **Apinya Khamson (Thailand):** Optimization of microbial collagenolytic enzyme production by *Bacillus subtilis* subsp. *Subtilis* S13 using Plackett-Burman and response surface methodology

**14:40-15:00** **Kittiya Showpanish (Thailand):** Pectin extraction from fruit wastes on growth of *Pediococcus pentosaceus* RSU-Nh1 and *Lactobacillus plantarum* RSU-SO2

**15:00-15:20** **Jiaojiao Song (China):** Fine particles of fungal active metabolites constructed from *Emericella* sp to control rice blast disease

**15:20-15:40**

**COFFEE BREAK**

**15:40-16:00** **Invited Speaker: Dr. Sundaram Lalitha (India):** Effect of PGPR on the phytoremediation potential of *Vigna radiata*. L in contaminated soil

**16:00-16:20** **Jatuporn Anuchai (Thailand):** Effect of BA and NAA on shoot induction from callus of *Dendrobium* spp.

**16:20-16:40** **Kritsada Phongkaranyaphat (Thailand):** Species diversity and utilization of herbal plant in community forest, Phrae Province, Northern Thailand

**16:40-17:00** **Pansaporn Plengsaengsri (Thailand):** Effect of lactic acid bacteria on the physicochemical and microbiology properties of drinking yogurt from rice milk

**17:00-17:20** **Pradipha Pradapchai (Thailand):** Classification and diversity assessment of *Pyricularia oryzae* according leaf and neck blast pathogenesis on Khao Dawk Mali 105

**17:20-17:40** **Tatik Suteky (Indonesia):** Silver nanoparticles from leaves extract of *Melastoma malabatricum* and its nematocidal effects

**17:40-18:00** **Racha Tepsorn (Thailand):** Antimicrobial potential of vapour phase propionic acid against *Salmonella typhimurium* contaminated on cherry tomato (*Solanum lycopersicum* var. *cerasiforme*)

**18:00-18:20** **Wiwat Samritphol (Thailand):** Hydrolytic properties of crude protease from *Bacillus subtilis* subsp. *Subtilis* M13

**18:30**

**CLOSING CEREMONY**

Session 4

CROP PROTECTION AND RELATED TECHNOLOGIES

Room 4

**Chairs: Prof. Dr. Raphael Okigbo (Nigeria), Prof. Dr. T. S. S. K. Patro (India), Dr. Hoang Pham (Vietnam)**

- 11:00-11:20** **Invited Speaker: Prof. Dr. Raphael Okigbo (Nigeria):** The impact of biopesticides on agricultural yields and food security in Africa
- 11:20-11:40** **Chaisit Preecha (Thailand):** Study on fruit spot caused by *Fusarium* sp. of pummelo (*Citrus maxima* (Burm.) cultivar Tabtimsiam and screening fungicides and antagonist for alternate control *in vitro*
- 11:40-12:00** **Reny Herawat (Indonesia):** Analysis of polyethylene glycol (PEG) and proline to evaluate drought stress of double haploid new type upland rice lines
- 12:00-13:00** **LUNCH BREAK**
- 13:00-13:20** **Invited Speaker: Prof. Dr. T. S. S. K. Patro (India):** Importance of bioagents in mitigating the major diseases of nutri cereals
- 13:20-13:40** **Charida Pakasap (Thailand):** Effect of larval-stage mealworm (*Tenebrio molitor*) powder on qualities of bread
- 13:40-14:00** **Thawatthai Masiriyanan (Thailand):** Evaluation and selection of chili germplasms resistant to pepper yellow leaf curl Thailand virus (PepYLCVTH)
- 14:00-14:20** **Waree Laophemsuk (Thailand):** Identification of morphology and pathogenicity of *Pyricularia* sp. causing blast disease in grass
- 14:20-14:40** **Rosemarie Del Rosario Josue (Philippines):** Biological control using parasitoids *Comperiella calauanica* hastens the recovery of the coconut trees from coconut scale insect (CSI) infestation in Basilan, Philippines
- 14:40-15:00** **Nattawut Suanphrom (Thailand):** Comparison of growth and yield of maize (*Zea mays* L.) grown after using intercropping and monocropping systems
- 15:00-15:20** **Hathairat Kingkampang (Thailand):** Phenols and peroxidase activity in pepper yellow leaf curl virus resistant and susceptible chili (*Capsicum annuum* L.) genotype
- 15:20-15:40** **COFFEE BREAK**
- 15:40-16:00** **Invited speaker: Dr. Hoang Pham (Vietnam):** The Rotting fungi of street plant in Ho Chi Minh City
- 16:00-16:20** **Watchareeporn Suksiri (Thailand):** Resistance genes investigation in a broad-spectrum resistance indigenous rice Yang Mawng variety
- 16:00 -16:40** **Rungrat Vareeket (Thailand):** Natural products of fine particles derived from *Neosartorya hiratsukae* against brown spot of rice cause by *Drechslera oryzae*
- 16:40 -17:00** **Jeremias Lacsamana Ordonio (Philippines):** Identification of quantitative trait loci for seedling stage salinity tolerance using NSIC Rc222 X Jumbo Jet BC1F2 population
- 17:00-17:20** **Suphattra Janthasri (Thailand):** Genetic inheritance of gene controlling leaf blast disease resistance in Dawk Pa-yawm Rai variety (GS23774)
- 17:20-17:40** **Laxmi Rawat (India):** Enhancement of growth, yield & yield contributing traits and alleviation of sheath blight disease caused by *Rhizoctonia solani* in barnyard millet (*Echinochloa frumentacea* L.) with a particular reference by using *Trichoderma* isolates through seed bio-priming and pre colonized FYM
- 17:40-18:00** **Danilo Sarcon Josue (Philippines):** Promotion of improved rice farming technology for resilient and profitable enterprise
- 18:00 -18:20** **Teerawat Sarutayophat (Thailand):** Drought-tolerant characters, yield and its component of an elite landrace upland rice cultivars in Thailand

18:30

CLOSING CEREMONY

<b>Session 5</b>	<b>WATER &amp; SOIL MANAGEMENT, ENVIRONMENTAL SCIENCE,</b>
<b>Room 5</b>	<b>Chairs: Prof. Dr. Timo Korpela (Finland), Dr. Moammar Dayoub (Syria), Dr. Phratraporn Soyong (Thailand)</b>
<b>11:00-11:20</b>	<b>Invited Speaker: Prof. Dr. Timo Korpela (Finland):</b> Purification and disinfection of waste water with electrical current
<b>11:20-11:40</b>	<b>Invited Speaker: Dr. Moammar Dayoub (Syria):</b> Trends of precipitation and temperature in morogoro region in Tanzania
<b>11:40-12:00</b>	<b>Artemio Jr Asuncion Martin (Philippines):</b> Production potential of marginal lands to selected biofuel feedstocks in Cagayan Valley, Philippines
<b>12:00-13:00</b>	<b>LUNCH BREAK</b>
<b>13:00-13:20</b>	<b>Invited Speaker: Dr. Phratraporn Soyong (Thailand):</b> Analysis of water resources and water potentials under conditions of climate change and agriculture-industrial - urban development change in the Eastern region
<b>13:20-13:40</b>	<b>Patticha Kulsuwan (Thailand):</b> The carbon footprint assessment from electricity of undergraduate students Mahidol university Amnatcharoen campus Thailand for Eco university
<b>13:40-14:00</b>	<b>Suchart Chayhard (Thailand):</b> Application of aerial photography with Visible Atmospherically Resistant Index by using Unmanned Aerial Vehicles for seagrass bed classification in Kung Krabaen Bay, Thailand
<b>14:00-14:20</b>	<b>Ha Thi Thu Hue (Vietnam):</b> Social Aspects to Fish catch in Songkhla Lagoon, Thailand
<b>14:20-14:40</b>	<b>Tamonwan Thepphakhun (Thailand):</b> Allelopathic potential of praxelis and its use in soil application
<b>14:40-15:00</b>	<b>Duangkamon Chudaeng (Thailand):</b> Effects of soil moisture contents and arbuscular mycorrhizal fungi on phosphorus fractions in soil
<b>15:00-15:20</b>	<b>Muchammad Farid (Indonesia):</b> Field assessment on altitude variation to correlate soil conductivity and porosity for validation of archi formulation
<b>15:20-15:40</b>	<b>COFFEE BREAK</b>
<b>15:40-16:00</b>	<b>Kingkan Puansurin (Thailand):</b> A study of the relationship between urban heat island phenomena and land use: A case study of Chiang Rai Municipality, Thailand
<b>16:00-16:20</b>	<b>Elderico Tabal (Philippines):</b> Carbon stocks of selected agroforestry systems in Zamboanga city, Philippines
<b>16:20-16:40</b>	<b>Likhit Noichaisin (Thailand):</b> Drought risk area assessment in Sa Kaeo province by using GIS
<b>16:40-17:00</b>	<b>Pichitporn Pholgerddee (Thailand):</b> The application of Geo-informatics technology to study the vegetation index and humidity: A case study analysis of drought in special economic eastern region, Thailand
<b>17:00 -17:20</b>	<b>Paphawan Onkum (Thailand):</b> Soil microbial activities in Alfisol with different green manures application
<b>17:20-17:40</b>	<b>Margie Daylusan Fiesta (Philippines):</b> Farmer's climate change cognition and adaptation in agroecological zones of Mindanao, Philippines
<b>17:40-18:00</b>	<b>Charanya Khaeksawad (Thailand):</b> The effect of water deficit at different growth stage on yield and quality of sweet corn ( <i>Zea mays saccharata</i> Sturt.)
<b>18:00-18:20</b>	<b>Pimolwan Katepan (Thailand):</b> Effect of number of plowing on okra productivity in Suphan Buri Province, Thailand
<b>18:30</b>	<b>CLOSING CEREMONY</b>

Session 6

ANIMAL BIOTECHNOLOGY

Room 6

Chairs: Prof. Dr. John Moreki (Botswana), Prof. Dr. Hiroyuki Konuma (Japan)

- 11:00-11:20 **Invited Speaker: Prof. Dr. John Moreki (Botswana):** Cattle, identification and traceability system in Botswana and its challenges
- 11:20-11:40 **Thaworn Chimliang (Thailand):** Effects of *Garcinia cowa* leaf powder supplementation in diets on productive performance of broilers
- 11:40-12:00 **Poramech Moomak (Thailand):** The effect of sex, age, and final live weight on carcass traits of fattening dairy cattle
- 12:00-13:00 **LUNCH BREAK**
- 13:00-13:20 **Invited Speaker: Dr. Dwatmadji D (Indonesia):** Intake and digestibility of mix-herbal supplements block for Bali cattle fed agricultural by-product in Bengkulu, Indonesia
- 13:20-13:40 **Jirapon Aungtikun (Thailand):** Essential oils from *Zingiber mekongense* Gagnep, *Myristica fragrans* Houtt and *Curcuma zedoaria* Roscoe as larvicidal agents against *Aedes albopictus* (Skuse)
- 13:40-14:00 **Ajaree Karakad (Thailand):** Effects of sodium chloride replacement with potassium chloride and flavour enhancers on the physicochemical and sensory characteristics of low-fat chicken frankfurter sausage
- 14:00-14:20 **Kamonthip Kongsrirat (Thailand):** Sous-vided restructured goat meat: Changes in meat qualities during refrigerated storage
- 14:20-14:40 **Patthaphorn Patthararangsarith (Thailand):** Effects of heart fatty acid binding protein (H-FABP) gene, housing system, and sex on carcass and meat quality of commercial crossbred pigs
- 14:40-15:00 **Rapeepat Thawornwat (Thailand):** Biological, farm, and slaughter month factors affecting dairy carcass traits and the relationship between the traits, thoracic cavity depth, and carcass length
- 15:00-15:20 **Peeradon Phonkhokkong (Thailand):** Influence of sex, age, slaughter weight, and farm on carcass composition of fattening dairy cattle
- 15:20-15:40 **COFFEE BREAK**
- 15:40-16:00 **Sampan Promhom (Thailand):** Population biology of mantis shrimp in Satun province
- 16:00-16:20 **Dede Hartono (Indonesia):** Study on tropical eels aquaculture in Bengkulu province of Indonesia
- 16:20-16:40 **Kunya Tuntivisoottikul (Thailand):** Paternity testing of crossbred beef cattle with 15 microsatellite markers
- 16:40-17:00 **Pinatthinee Jitkham (Thailand):** Prevalence of trematode metacercariae in cyprinoid fish from Chiang Rai province, Thailand
- 17:00-17:20 **Nella Saida Marjukka Sihvonen (Finland):** Ways to decrease greenhouse gas emissions from cattle
- 17:20-17:40 **Kasemsak Tongsuk (Thailand):** Influence of Duroc sire lines on carcass and meat quality traits of commercial crossbred pigs
- 17:40 -18:00 **Jirapon Aungtikun (Thailand):** Mosquito-repellent activity of *Illicium verum* Hook.F., *Amomum villosum* Lour. and *Amomum krervanh* Pierre. essential oils against *Aedes albopictus* (Skuse)

18:30

CLOSING CEREMONY



Session 7

GENERAL SCIENCE AND TECHNOLOGY

Room 7

**Chairs: Prof. Dr. Nagia Farag Ali Mohamed (Egypt), Asst. Prof. Dr. Preeyanan Sittijinda (Thailand), Asoc. Prof. Dr. Pakkapong Pongsuk (Thailand)**

- 11:00-11:20** **Invited Speaker: Dr. Nagia Farag Ali Mohamed (Egypt):** Antimicrobial characteristics of wool fibers treated with chitosan and propolis nano composite and dyed with natural dye extracted from red prickly Pear
- 11:20-11:40** **Amorn Kritsanaphan (Thailand):** Intermediaries and local actors in agricultural technology and management in peri-urban Bangkok
- 11:40-12:00** **Naruemon Mongkontanawat (Thailand):** Product development of mushroom drink with high  $\beta$ -glucan content from local mushrooms
- 12:00-13:00** **LUNCH BREAK**
- 13:00-13:20** **Naphatrapi Luangsakul (Thailand):** The effects of the reduced sugar on macaron quality
- 13:20-13:40** **Rungarun Poonsin (Thailand):** Investigation of rice blast resistant genes in Thai elite rice varieties (*Oryza sativa* L.) for improvement of broad-spectrum blast disease resistance variety
- 13:40-14:00** **Krittiya Khuenpet (Thailand):** Inulin extraction from Jerusalem artichoke (*Helianthus tuberosus* L.) tuber powder and its application to yoghurt snack
- 14:00-14:20** **Bertoka Fajar Surya Perwira Negara (Indonesia):** The utilization of seaweeds as an inexpensive source of new drugs agent
- 14:20-14:40** **Wanwipa Kheawrod (Thailand):** The influence of fattening and ageing periods on meat quality of Charolais crossbred steers
- 14:40-15:00** **Sirima Takeungwongtrakul (Thailand):** Development of strawberry gummy jelly with reduced sugar content from strawberry syrup
- 15:00-15:20** **Surassawadee Promyou (Thailand):** Physicochemical quality improvement of ready to cook baby corns using calcium propionate immersion
- 15:20-15:40** **COFFEE BREAK**
- 15:40-16:00** **Rujira Tongon (Thailand):** Natural products of fine particles derived from *Chaetomium* spp. to inhibit fusarium wilt of tomato
- 16:00-16:20** **Rawiporn Polpued (Thailand):** Formulation of sweetened condensed rice-milk fortified with cereals in retortable pouch
- 16:20-16:40** **Kodchawan Chaturattanachaiporn (Thailand):** Development of sterilized durian cake roll
- 16:40-17:00** **Pheaktra Phal (Cambodia):** Application of agricultural inputs for organic asparagus production in the field
- 17:00-17:20** **Nitipat Chotikulapat (Thailand):** Antifungal activity of *Chaetomium* isolate CNC2 against *Alternaria* spp. causing leaf blight of kales
- 17:20-17:40** **Fredisminda Matias Dolojan (Philippines):** Product development and training centre (PDTC): Food product development-hub of the province Quirino, Philippines
- 17:40-18:00** **Kanittha Chepoo (Thailand):** Shortage of sugarcane workers, Nong Na Kham district, Khon Kaen province of Thailand
- 18:00-18:30** **Chirathip Yimcharoen (Thailand):** Bioactive test of *Chaetomium* spp. to control *Pestalotia* spp. causing leaf spot of orchid

18:30

CLOSING CEREMONY

## List of Posters

### Poster PLANT SCIENCE AND SOIL MANAGEMENT

Session 1 Chairs: Dr. Rosemarie Del Rosario Josue, Dr. Fahrurrozi Fahrurrozi, Dr. Mohammad Chozin, Dr. Sutisa Chaikul

- 1 **Alisa Kongjaimun Yoshida (Thailand):** Genetic analysis of seed dormancy QTL in yardlong bean [*Vigna unguiculata* (L.) Walp. ssp. *unguiculata* cv.-gr. *sesquipedalis*]
- 2 **Anurug Poeaim (Thailand):** The influence of plant growth regulators for plant regeneration of Chinese chaste (*Vitex negundo* L.)
- 3 **Apisara Pholjad (Thailand):** *In vitro* propagation from nodal segments of *Arachis glabrata* cultivar Florigraze
- 4 **Bernadette Colle Mendoza (Philippines):** Heterotrophic and coliform loads, and *E. coli* and *Salmonella* detection in farm soils and organic fertilizers from selected organic farms in Southern Luzon, Philippines
- 5 **Chaowanee Laosutthipong (Thailand):** Lignin biosynthesis genes (*OsPAL* and *Os4CL3*) sequencing of native upland rice varieties from Pala U village, Thailand
- 6 **Isagani Angeles (Philippines):** Phytochemical constituents and proximate composition of spiny amaranth *Amaranthus spinosus* Linn. Leave
- 7 **Isagani Angeles (Philippines):** Production of azolla and duckweed with or without application of urea or ammonium phosphate in tank-based system
- 8 **Kanittha Chepoo (Thailand):** Production behavior, factors affecting the sale of ripe mango and SWOT analysis of Nam Dok Mai mango collaborative farming, Bang Phli district, Samut Prakan province, Thailand
- 9 **Krittayaporn Meesook (Thailand):** Times for callus propagation of indica rice (*Oryza sativa* L.) cultivar Sangyod in suspension culture
- 10 **Natchada Asoko (Thailand):** Improvement of *Dendranthemum grandiflora* cv. canter with Colchicine *in vitro*.
- 11 **Nattaya Montri (Thailand):** The effects of teak (*Tectona grandis* L.f.) leaves crude extract on controlling anthracnose disease in "Kluai Hom thong" (*Musa* AAA group)
- 12 **Nonglak Parinthawong (Thailand):** Pathogenicity of *Pyricularia oryzae* on elite rice cultivars and geographical distribution of avirulence genes causing blast disease in Thailand
- 13 **Panida Duangkaew (Thailand):** Effect of  $\beta$ -mannanase on nutrient composition of Palm Kernel Meal (PKM) mixed with yeast cake
- 14 **Patcharaporn Suwor (Thailand):** The effect of composting manures on growth of green oak, frillice Iceberg and green cos (*Lectuca sativa* L.)
- 15 **Pimchanok Tongsad (Thailand):** The effects of abscisic acid and sorbitol on the slow growth *in vitro* preservation of Mahesak (*Tectona grandis* L.)
- 16 **Sakulrat Hansuek (Thailand):** Effects of plant growth regulators and type of media on shoot proliferation of neck orange (*Citrus reticulata* Blanco)
- 17 **Sarayut Phonpho (Thailand):** Selection of appropriate of ornamental plant species for outdoor vertical garden
- 18 **Somporn Na Nakorn (Thailand):** Fruit growth and development of neck orange at the optimal time for harvesting under the difference period climate of the year
- 19 **Somsak Kramchote (Thailand):** Effect of foliar application of chitosan on growth and fruit quality of 'Densuke' and 'Kinnaree' watermelons
- 20 **Somsak Rayan (Thailand):** Spatio-temporal variation of the distribution of aquatic plants in Nong Han wetland, Thailand
- 21 **Tipawan Thongjua (Thailand):** Comparative efficacy of plant extracta, petroleum oil and insecticides to control citrus Leaf-miner (*Phyllocnistis citrella* Stainton) in Neck Orange (*Citrus reticulata* Blanco)
- 22 **Usana Prangthong (Thailand):** Callus and hairy root induction of *Melaleuca cajuputi* Powell
- 23 **Wanrawee Kunwanlop (Thailand):** Effects of 6-benzylaminopurine and meta-topoline on micropropagation of *Dendrobium chrysanthum* Lindl
- 24 **Wattana Na Nakhon (Thailand):** Testing of growth and development of seashore ground cover plants on different salty level for development as ornamental plants
- 25 **Xiaoxiao Feng (China):** *Diaporthe sinensis*, a new fungus from *Amaranthus* sp. in China

Poster ANIMAL & FISHERY SCIENCES

Session 2 Chairs: Prof. Dr. Zainal Mukhtamar (Indonesia), Dr. Dwatmadji (Indonesia), Dr. Kittichon U-taynapun (Thailand), Dr. Anurug Poeaim (Thailand)

- 1 **Bancherd Sornsupharp (Thailand):** The study of density on growth and yield of African catfish (*Clarias gariepinus*) in Turbidity Water Pond
- 2 **Bhutharit Vittayaphattananurak Raksasiri (Thailand):** Effect of the aging period on meat quality and consumption properties of spent laying hens
- 3 **Duangkamon Namee (Thailand):** Effectiveness of long pepper (*Piper retrofractum* Vahl) extracts against adult of cowpea weevil (*Callosobruchus maculatus* Fabricius) and southern cowpea weevil (*Callosobruchus chinensis* Linnaeus)
- 4 **Fakeetah Bupphadong (Thailand):** Concentrated pineapple extract, Na-Cid®, facilitates the digestion of soybean meal and shrimp diet
- 5 **Isagani Angeles (Philippines):** Growth performance, immune response and disease resistance of Nile tilapia *Oreochromis niloticus* fed diet with different levels of *Amaranthus spinosus* leaf meal following *Aeromonas hydrophila* infection
- 6 **Isagani Angeles (Philippines):** Rearing performance and disease resistance of Freshwater eel *Anguilla sp.* fed diet with different levels of Water fern *Azolla filiculoides* extract following *Aeromonas hydrophila* infection
- 7 **Kaewalee Viboonkit (Thailand):** Morphometric and meristic parameters of short mackerel (*Rastrelliger brachysoma*) in the Gulf of Thailand
- 8 **Kanokrat Srikijkasemwat (Thailand):** Prevalence and genetic diversity of *Trypanosoma evansi* infections causing abortions among cattles and buffaloes in eastern border area of Thailand-Cambodia
- 9 **Patinya Yeamsamai (Thailand):** The effect of supplementary food on the adult growth of *Zophobas mario* Fabricius
- 10 **Piyada Tavitchasri (Thailand):** Stock identification of short mackerel (*Rastrelliger brachysoma*) from the Gulf of Thailand using morphometric and meristic parameters
- 11 **Potchaman Lomwong (Thailand):** The study of appropriate feed formulation for rearing super worms (*Zophobas mario* Fabricius)
- 12 **Prasit Deewatthanawong (Thailand):** Molecular and morphological identification of banana thrips in Chantaburi province, Thailand
- 13 **Ronachai Sitthigripong (Thailand):** The effect of okara in diets on productive performance of broiler
- 14 **Thiamphop Kanloun (Thailand):** The reproductive performances of Murrah and swamp buffaloes in Thailand

Poster BIOTECHNOLOGY AND FOOD SCIENCE

Session 3 Chairs: Dr. Quyen BT HO (Vietnam), Dr. Widodo Widodo (Indonesia), Dr. Supattra Poeaim (Thailand), Dr. Naruemon Mongkontanawat (Thailand), Dr. Sararat Monkhung (Thailand)

- 1 **Angsana Akarapisan (Thailand):** *Bacillus velezensis* SD03 - potential biocontrol agent for diseases of potato
- 2 **Bootsrapa Leelawat (Thailand):** Development of grass jelly processing using modified starches and higher efficient extraction method
- 3 **Chadchasa Tep-Ubon (Thailand):** Antagonistic *Bacillus* sp. AAHMRU15 and yeast extract product, Beta-Sac Plus®, inhibit the growth of AHPND causing *Vibrio parahaemolyticus* (VPAHPND)
- 4 **Chaiwut Kumueang (Thailand):** Effect of sterility value on qualities of Chinese braised culled steer beef in retort pouch
- 5 **Elvira Khalikova (Russia):** Isolation and identification of cyclic lipopeptides from *Paenibacillus ehimensis*
- 6 **Hang Thi Thuy Le (Vietnam):** A survey on acid hydrolysis in analyzing the monosaccharide composition of exopolysaccharide from *Ophiocordyceps sinensis*
- 7 **Hoang Tai Nguyen (Vietnam):** Optimization of culture parameters of Selenium-enriched *Ophiocordyceps sinensis* by response surface methodology
- 8 **Ky Khac Lam (Vietnam):** In vitro antioxidant and anti-inflammatory activities of *Cordyceps neovolkiana* DL0004 extracts isolated in Vietnam
- 9 **Nidchaporn Nabhadalung (Thailand):** Study on arbuscular mycorrhizal fungi related to soil P, soil OM and soil pH in cassava field from Thailand
- 10 **Ninh Thi My Pham (Vietnam):** The cytotoxic activity of extracts from the biomass and fruit bodies of mushroom *Isaria tenuipes* on MCF-7 cancer cell line
- 11 **Patrrarat Teamkao (Thailand):** Floods increase soil microbial activity in paddy soil: A case study in Sakon Nakhon province, Thailand
- 12 **Peamsuk Suvarnakuta (Thailand):** Antioxidants and product development of bread crust
- 13 **Pitukpol Pornanek (Thailand):** Dietary supplementation of Beta-Glucan enriched molasses yeast powder on immune response to swine fever virus and hematology of starter-grower pigs
- 14 **Pongpan Pragthong (Thailand):** Temperature-dependent expression of virulence genes in *Vibrio parahaemolyticus* AHPND strain (VPAHPND)
- 15 **Prapasri Theprugsa (Thailand):** Effect of tomato powder on quality of Chinese sausage
- 16 **Rachsawan Mongkol (Thailand):** Antifungal and antibacterial activities of essential oil from Som Keaw (*Citrus nobilis*) in Thailand
- 17 **Rujira Deewatthanawong (Thailand):** GC-MS analysis and biopesticide properties of different crude extracts of *Annona squamosa* and *Annona muricata*
- 18 **Sairung Sornsupharp (Thailand):** Preliminary study on chlorophyll a concentration and phytoplankton diversity in Huai Jorakhemak reservoirs, Buriram province, Thailand
- 19 **Saowapar Khianggam (Thailand):** Isolation of cellulase producing bacteria as using sunflower meal as substrate
- 20 **Sararat Monkhung (Thailand):** Evaluation of the antifungal activity of various agricultural residue extracts to control seed borne pathogens of maize in Thailand
- 21 **Supaluk Sorapukdee (Thailand):** Quality characteristics and storage stability of reduced-fat Northeastern Thai fermented sausage (Sai Krok E-san) with konjac gel during chilled storage
- 22 **Suteera Vatthanakul (Thailand):** Development of banana flavor carrageenan jelly drink fortified with banana peel extracts
- 23 **Trairat Kaewsad (Thailand):** The usage of rice bran flour and pea protein in pork patties and pork meatballs

## **CLOSING CEREMONY**

**18:30**

**BEST PAPER AWARDS for Oral and Posters**

**Conclusion Remarks:**

**Prof. Dr. Timo Korpela (Chairman of International Organizing Committee)**

**Announcement and welcoming to India for the 9<sup>th</sup> ICIST 2020 by local organizers:**

**Prof. Dr. T. S. S. K. Patro (India):** ANGR Agricultural University,  
Vizianagaram 535 001, AndhraPradesh, India

**Dr. Sundaram Lalitha (India):** Department of Botany, Periyar University,  
Periya Palakalainagar, Salem-636011, Tamil  
Nadu, India

**Closing Address and Future Remark:**

**Dr. Kasem Soyong (President of AATSEA)**

**Closing with the ICIST Theme Song “IMAGINE”**

**19:00**

**FAREWELL DINNER**

**21 November 2019--Jingde city tour (AATSEA offer)**

**22 November 2019 – Huangshan one day tour (618 RMB, Optional)**

**23 November 2019 – leave from Jingde**



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- Session 6:        **Prof. Dr. John Moreki (Botswana), Prof. Dr. Hiroyuki Konuma (Japan)**
- Session 7:        **Prof. Dr. Nagia Farag Ali Mohamed (Egypt), Asst. Prof. Dr. Preeyanan Sittijinda (Thailand), Assoc. Prof. Dr. Pakkapong Pongsuk (Thailand)**

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