

Online ISSAAS International Congress and General Meeting 2021
“Transforming System and Strengthening Development for Agricultural Sustainability”
 November 4-5, 2021
Presentation Program

3 November 2021		Remarks:
	<i>ISSAAS Executive Board Meeting (Online)</i>	11.00 – 12.30: TH, ID, VN times 13.00 – 14.30: JP times 12.00 – 13.30: PH times 10.00 – 11.30: MY times
4 November 2021		
08.30 – 09.00	<i>Registration (Online)</i>	
09.00 – 09.30	<i>Opening Ceremony (Online)</i>	
	<i>Welcoming Address</i> The ISSAAS Vice President (Thailand) Assoc. Prof. Anuchai Pinyopummin, DVMSc.	
	<i>Welcoming Address</i> The Secretary of the Society for Agricultural Education Research Board (SAEDA) Prof. Dr. Hironobu Shiwachi	
	<i>Official Opening Address</i> ISSAAS President/ KU President Dr. Chongrak Wachrinrat	
	<i>ISSAAS Matsuda Award</i> Presented by Dr. Fernando C. Sanchez, Jr., Chair of Awards Screening Committee Awarded to Prof. Dr. Pham Van Cuong, Vice-President of the Vietnam National Agricultural University	
	<i>Cultural Show</i> Muay Thai in Martial Arts Arts, Culture and Educational Innovation in Muay Thai Center, KU.KPS	
09.40 - 10.50	<i>Keynote Speaker</i> <i>Topic: “Transforming System and Strengthening Development for Agricultural Sustainability in Thailand”</i> Assoc.Prof.Dr. Witsanu Attavanich Faculty of Economics, Kasetsart University	
10.50 – 11.00	<i>Break</i>	
11.00 – 12.00	<i>ISSAAS General Meeting (Online)</i> <i>Country Report</i> Representatives from 6 countries Thailand, Malaysia, Philippines, Indonesia, Vietnam and Japan	
12.00 - 13.00	<i>Lunch</i>	
13.00 – 14.00	<i>Plenary Session (Online)</i> <i>Topic: Herbal Medicine to fight against COVID-19</i> Dr. Pakakrong Kwankhao, Center of Evidence Based Traditional and Herbal Medicine, Chaopraya Abhaiphubejhr Hospital, Thailand	
14.00 – 15.00	<i>Topic: Kampo Medicine suggested in the treatment of COVID-19</i> Dr. Ni Siran, Tokyo University of Agriculture, Japan	
15.00 – 16.00	<i>Topic: Tropical Peatland</i> Dr. Suwardi, IPB University, Indonesia	

Poster Session

(I) Food/Agricultural Education and Community Empowerment/Agro Tourism

- 16.00 – 16.05 Documentation of Coping Mechanisms of Upland Rice Farmers to Climate Change in Albay (*Aileen Comprado*)
- 16.05 – 16.10 Effects of Fertilizer Application Depth on Root Distribution and Yield Component of Sugarcane under Well-Watered and Drought Condition and Development of Fertilizer Applicator for Sugarcane (*Thanankorn Jaiphong*)
- 16.10 – 16.15 Semi-Automatic Sugarcane-Bud Cutting Machine (*Thanankorn Jaiphong*)

(I) Biotechnology and Innovation in Agriculture & Animal Sciences/ Fishery and Veterinary Sciences

- 16.00 – 16.05 Development of Screening and Detection Method of Genetically Modified Rice LL601, LL62 and Bt63 by Multiplex Real-Time PCR (*Weerasak Pitaksaringkarn*)
- 16.05 – 16.10 Establishment of a Genome Editing System in Petunia as an Efficient Platform Technology for Plant Gene Functional Characterization (*Yeetoh Dabbhadatta*)
- 16.10 – 16.15 Cost-Benefit Analysis of Dairy Goat Farming in Malaysia (*Melissa Alina Yusoff*)
- 16.15 – 16.20 Capital Budgeting, Tax Incentive Schemes and Risk Analysis in the Applied Projection of Dairy Goat Farm in Malaysia (*Melissa Alina Yusoff*)
- 16.20 – 16.25 Screening of Liquid Media for Mass Production of *Beauveria bassiana* (Bals.) Vuill. and *Metarhizium anisopliae* (Metchnikoff) Sorokin (*Melissa P. Montecalvo*)

(I) Crop Production and Management/ Ecology

- 16.00 – 16.05 Optimization of Pectin Extraction from Purple Passion Fruit Peel (*Passiflora edulis Sims.*) and Development of Pectin-Alginate Biofilm for Storage (*Thuy T. B. Nguyen*)
- 16.05 – 16.10 Development of Mixture Extracts Formulation from *Azadirachta indica* and *Piper sarmentosum* for Controlling *Nilaparvata lugens* (*Norhayu Asib*)
- 16.10 – 16.15 Traditional Medicinal Plants: BUCAF Generation Z Knowledge and Perception (*Judith R. Chavez*)
- 16.15 – 16.20 Effect of K-Carrageenan-Based Coating Combined with Nano-ZnO on Quality of Banana (*Musa acuminata* AAA group) During Storage at Ambient Condition (*Thi Bich Thuy Nguyen*)

5 November 2021

Oral Sessions

Session 1: I Food/Agricultural Education and Community Empowerment/Agro Tourism

- 09.00 – 09.15 Intensifying the Food Supply and Distribution System of Tomato in the Peri-Urban Area for a Food Secure City Region: The Case of Cavite Province, Philippines (*Dina Cartagena Magnaye*)
- 09.15 – 09.30 Physicochemical Characteristics of Purple Flour Prepared from Steamed Tuber of *Dioscorea alata* L. (*Parichat Hongsprabhas*)

09.30 – 09.45	Knowledge, Attitude, and Practices of Street Food Vendors Towards Food Safety (<i>Nur Amelia Syakira Abdul Aziz</i>)
09.45 – 10.00	Implementation of the Rice Agriculture Insurance Program as an Effort to Empower Subak Farmers in Badung Regency, Bali Province, Indonesia (<i>Luh Putu Kirana Pratiwi</i>)
10.00 – 10.15	Institutional Dimensions and B.S. Agriculture Graduates' Employability of Selected State Universities and Colleges in CALABARZON, Philippines. (<i>Tessa Mar L. Espino</i>)
10.15 – 10.30	The Process of Development Youth Vocational Skill 4.0 through the Collaboration with Universities and Community Networks (<i>Apidet Changchai</i>)

Session 1: II Food/Agricultural Education and Community Empowerment/Agro Tourism

09.00 – 09.15	A Community Capitals Analysis for Encouraging Phu Tai Children and Youth Life Skills from Community's Drug Abuse Problems in the Upper Provinces of the Northeastern Region, Thailand (<i>Nipittapon Supanyabut</i>)
09.15 – 09.30	Developing Change Agents for Producing Safe Vegetable On-Farm Through Cooperative between the Government and Community Leaders in Naraphirom Sub district, Bang Len District, Nakorn Pathom Province, Thailand (<i>Pattawan Choolert</i>)
09.30 – 09.45	Development of Rice Seed Management through Learning Network outside the Community of Ban Phanomnang in-season Rice Farmers Group, Don Salap Subdistrict, Huai Krachao District, Kanchanaburi Province, THAILAND (<i>Praepat yodkaew</i>)
09.45 – 10.00	Potential of Organic Farming in Phra Thaen Sub - District Municipal, Tha Maka District, Kanchanaburi Province (<i>Wanwipha Lao-arun</i>)
10.00 – 10.15	Context and Current Situation Focus on the Community Interest Company of Social Enterprise Between International level and Thailand (<i>Suriya Butrapun</i>)
10.15 – 10.30	Influence of Biochar on Rice Physiology, Nutrient Use Efficiency and Soil Biochemical Properties under Water-Saving Irrigation (<i>Ahmad Numery Ashfaqul Haque</i>)

10.30 – 13.00 Break

Session 1: III Food/Agricultural Education and Community Empowerment/Agro Tourism

13.00 – 13.15	Technical Efficiency of Organic Rice Production under Contract Farming in Cambodia -Case Study in Preah Vihear Province-(<i>Chanmony Sok</i>)
13.15 – 13.30	Effect of Protected Flaxseed Oil Supplementation on Milk Yield, Milk Composition, Blood Metabolites and Milk Fatty Acid Profile in Lactating Dairy Cow (<i>Lalita Guntanapreeda</i>)
13.30 – 13.45	Tourist Willingness to Pay for Agritourism in West Java, Indonesia: Case Study on MF Garden (<i>Ramadhina Putri Indraswari</i>)
13.45 – 14.00	Evaluation of Functional Properties of Composite Flour Prepared from Jackfruit Seeds (<i>Artocarpus heterophyllus Lam.</i>) and Taro (<i>Colocasia esculenta L. Schott</i>) (<i>Genesis Jared A. Cutamora</i>)
14.00 – 14.15	A Structural Model for Rural Tourism Development in Bali to Improve Global Competitiveness (<i>I Gusti Ayu Oka Suryawardani</i>)

Session 1: IV Food/Agricultural Education and Community Empowerment/Agro Tourism

13.00 – 13.15	Searching Agricultural Commodities for Agritourism in Bali (<i>Agung Suryawan Wiranatha</i>)
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13.15 – 13.30	Talek: A Social Capital in Shaping the Dynamics of Highland Vegetable Marketing (<i>Matyline Camfli-Talastas</i>)
13.30 – 13.45	Social Capital: Approaches to Support Goat Farming Management of Farmers in the Upper North of Thailand (<i>Thongmeethip K.</i>)
13.45 – 14.00	Evaluation of ICTs Capacity Building among Extension Workers in the Developing Countries: Case Study Nigeria (<i>Norsida Man</i>)
14.00 – 14.15	Bioefficacy of <i>Bacillus amyloliquefaciens</i> Strain DGA14 as Potential Microbial Control agent Against <i>Colletotrichum gloeosporioides</i> Causing Papaya Anthracnose (<i>Mary Amor G. Figueroa</i>)
14.15 – 14.30	Effect of Different Concentrations of Chitosan and Planting Densities on Germination and Microgreens Performance (<i>Jaafar Jujy Nakasha</i>)
14.30 – 14.45	Factors Affecting Selection of Rice among the Consumer in Shah Alam, Selangor (<i>Abdul Sali</i>)
14.45 – 15.00	Role of Cooperative for Sustainable Digitalisation (<i>A Faroby Falatehan</i>)

Session 2: I Biotechnology and Innovation in Agriculture

09.00 – 09.15	Antioxidant Related Blood Pressure Lowering Effects of Purified Gambier on Diabetic and Hypertensive Rats (<i>Armenia</i>)
09.15 – 09.30	Field Application of Entomopathogenic Fungus <i>Metarhizium majus</i> against <i>Oryctes rhinoceros</i> Beetle in the Oil Palm Biomass (<i>Nor Sarashimatun Sopian</i>)
09.30 – 09.45	Secondary Metabolite Production from in Vitro Culture of “Phaya Yo” (<i>Clinacanthus nutans</i> (Burm.f.) Lindau) (<i>Siriphan Sukkhaeng</i>)
09.45 – 10.00	Development of Screening and Detection Method of Genetically Modified Wheat MON71800 and MON71200 by Multiplex Real-Time PCR. (<i>Weerasak Pitaksaringkarn</i>)
10.00 – 10.15	The Study on Robustness and Repeatability of Modified PACHA Testing Kit for GM Screening in Papaya Industrial (<i>Piyanuch Sornchai</i>)
10.15 – 10.30	The Study on Robustness and Repeatability of Rapid Plant DNA Extraction Kit (<i>Piyanuch Sornchai</i>)
10.30 – 10.45	The Use of SRAP DNA Markers to Differentiate between <i>Pleurotus ostreatus</i> (Jacq.ex.Fr.) Kumn and <i>Cordyceps militaris</i> (<i>Penkhae Rungrueng</i>)

Session 2: II Biotechnology and Innovation in Agriculture

09.00 – 09.15	The Differentiating between <i>Cordyceps militaris</i> and <i>Hericium erinaceus</i> Using SRAP DNA Markers (<i>Adisak Kaewkam</i>)
09.15 – 09.30	Improvement of the Callus Induction and Regeneration Protocol for Agrobacterium-Mediated Transformation in Rice Cultivars PSL2 and RD47 (<i>Ratchadaphon Pinthong</i>)
09.30 – 09.45	Real-Time LED light Characterization System for the Cultivation of Plants in Closed Greenhouses (<i>Kajornsak Singhan</i>)
09.45 – 10.00	Phytoplasma Detection During an Early Sugarcane Development and Their Impacts on Physical Characters (<i>Pimpilai Saengmanee</i>)
10.00 – 10.15	Population Genetic Structure of the Golden Flathead Goby <i>Glossogobius aureus</i> (Gobiiformes: Gobiidae) Based on Mitochondrial Cytochrome B Gene Sequences (<i>Onaya P. Abdulmalik-Labe</i>)

Session 3: I Crop Production and Management/ Ecology & Smart Agricultural System/ Machinery/Logistic

- 09.00 – 09.15 Water Seeding of Iron-Coated Seed Improves the Germination and Grain yield at Indonesian Paddy Field (*Zuziana Susanti*)
- 09.15 – 09.30 Socioeconomics Impacts of Oil Palm Plantations: A Recent Review (*Mohamad Jafri Ahmad*)
- 09.30 – 09.45 Effect of Biochar and Lime on Nutrient Dynamics, Carbon Dioxide (CO₂) Emission, Growth and Yield of Maize in Acid Soil (*Mehnaz Mosharrof*)
- 09.45 – 10.00 Weather as Driver of Planting Window for Rainfed Corn (*Zea mays*) in Ifugao, Philippines (*Adrian C. Chummac*)
- 10.00 – 10.15 Oviposition Preference of *Cotesia Plutellae* Preference on Diamondback Moth (DBM) Larvae Fed with Different Nutrient Content (*Siti Nur Fatimah*)
- 10.15 – 10.30 Evaluation of the Plant Defense Activators for the Control of Postharvest Mango Anthracnose Disease Caused by *Colletotrichum gloeosporioides* During Post Harvest (*Chainarong Rattanakreetakul*)

Session 3: II Crop Production and Management/ Ecology & Smart Agricultural System/ Machinery/Logistic

- 09.00 – 09.15 Metatranscriptomic Analysis of a Copper Tolerant Endophytic Fungal Community (*Lorenz Rhuell P. Ragasa*)
- 09.15 – 09.30 Effects of Brassinosteroids and Gibberellin on Germination, Seedling Growth and Enzyme Activities of Soybean Seed at Different Vigor Levels under Low Temperatures (*Kantima Thongsri*)
- 09.30 – 09.45 Diversity of Araceae in Tham Pla-Namtok Pha Suea National Park, Mae Hong Son Province, Northern Thailand (*Oraphan Sungkajantranon*)
- 09.45 – 10.00 Susceptibility of Biological Stages of *Mythimna separata* (Walker) (Lepidoptera: Noctuidae) to Entomopathogenic Fungi (*Melissa P. Montecalvo*)
- 10.00 – 10.15 Competitiveness of Indonesian Ornamental Fish Industry (*Andiga DB Tarihoran*)
- 10.15 – 10.30 Effect of Storage Temperatures on Antioxidant Components and Activity of Extracts from Different Parts of *Cattleya* Orchids and Relative Species (*Supatida Abdullakasim*)

10.30 – 13.00 Break

Session 3: III Crop Production and Management/ Ecology & Smart Agricultural System/ Machinery/Logistic

- 13.00 – 13.15 Evaluation of Land Use System to Enhance the Productivity of Cacao (*Theobroma Cacao L.*) in Saloy, Calonan, Davao city, Philippines. (*Mel Chrisel A. Sales*)
- 13.15 – 13.30 Effect of Shading on Plant Growth of 4 Varieties of Hybrid Corn. (*Riska Kurnia Dewi*)
- 13.30 – 13.45 Population Structure of *Pseudocercospora fijiensis* (M. Morelet) Deighton in the Philippines (*Edna Ardales*)
- 13.45 – 14.00 Screening Rice Genotypes for Sheath Blight Resistance through Phenotypic Evaluation (*Earlyn Kate Padrones*)
- 14.00 – 14.15 A Preliminary Observation of Vegetation Indices in Relation to Sugarcane Growth Using an Aerial Imaging System (*Arissara Kasemjit*)
- 14.15 – 14.30 Alternate Highland Fresh Vegetable Marketing Systems in Luzon, Philippines (*Cheryll C. Launio*)
- 14.30 – 14.45 Observation of Droplet Distribution as Sprayed with an Agricultural Unmanned Aerial Vehicle (*Wanrat Abdullakasim*)

Session 4: I Animal Sciences/ Fishery and Veterinary Sciences

- 09.00 – 09.15 The Performance of Broilers Fed Miana Plant Flour (*Plectranthus scutellarioides*, L.) R. Br in Diet (Maria Endo Mahata)
- 09.15 – 09.30 The Effects of Immersion of Seaweed (*Turbinaria decurrens*) in Running Water on Its Salt (NaCl) and Nutrient Contents (Yose Rizal)
- 09.30 – 09.45 Durian and Tofu Waste Fermented by Using *Pleurotus ostreatus* as Poultry Diet (Nuraini)
- 09.45 – 10.00 Effects of Green Tea Extract as Natural Antioxidant Agents on Color and Lipid Oxidation of Raw Ground Omega-3 Enriched Pork (Rakkiat Norkeaw)
- 10.00 – 10.15 Relationship of Muscle Attributes from *Longissimus lumborum* in Wagyu Crossbred with Brahman, Kamphaengsaen, and Thai Holstein Friesian and Meat Quality (Prayad Thirawong)
- 10.15 – 10.30 Meat Processors and Street Food Vendors Knowledge and Practices In Albay Province, Philippines (Lourdita A. Llanto)
- 10.30 – 10.45 Performance and Feed Intake Reduction in Response to Fresh Coconut Milk Inclusion in Root Meal-Based Supplemented Native Chickens (Albino N. Taer)

Session 5: Environmental/Energy and Waste Management in Agriculture

- 09.00 – 09.15 Microplastics in Aquatic Insect of Different Feeding Habits in Small Temporary Water Bodies (Witwisitpong Maneechan)
- 09.15 – 09.30 Microplastic Ingestion by the Pacific Whiteleg Shrimp (*Litopenaeus vannamei*) Cultured Pond (Thanya Reunura)
- 09.30 – 09.45 Agricultural Production Programs of the Local Government Unit of Lezo, Aklan, Philippines: A Citizens-Based Assessment (Jyane Loi D. Yecla)
- 09.45 – 10.00 Development of a Mobile Solar Water Pump through the Adjustment of the Angle of the Solar Cell Panel (Nitinat Kansawat)
- 10.00 – 10.15 Evaluation of Suppressive Effect of Food Waste Anaerobically Digested Slurry Against Plant Pathogenic Fungi (MAMI IRIE)
- 10.15 – 10.30 Effect of Soil Amendment on Chromium and Nickel Uptake in Lorland Rice Soil Affected by Mining Activities (Venus O. Saz)
- 10.30 – 10.45 A Thematic Review on Sustainable Agricultural Practices in Asian Countries (Norsida Man)

16.00 - 16.30

Closing Ceremony (Online)

- 1. Presentation of Indonesia Chapter (ISSAAS International Congress 2022)***
 - 2. Closing Address by the ISSAAS Vice President (Thailand)/Vice President of KU.KPS. — Assoc. Prof. Anuchai Pinyopummin, DVMSc.***
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