



The 9th International Conference on Integration of Science and Technology for Sustainable Development 2021 (9th ICIST 2021) through Webinar-zoom in November 19, 2021 at Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang (KMITL), Bangkok, Thailand

Conference theme "Soil, water and environmental conservation, biological diversity, food safety, food security, and sustainable agriculture"

Organized by
Association of Agricultural Technology in Southeast Asia (AATSEA),

Faculty of Agricultural Technology, King Mongkut's Institute of Technology Ladkrabang, KMITL (Thailand),

Rajamangala University of Technology Tawan-ok, Chantaburi Campus (Thailand),

Rambhai Barni Rajabhat University (Thailand),

Bengkulu University (Indonesia),

Society for Applied Biotechnology (India)

CAS Asian Agriculture Bio Engineering (PR China),

Bio-Agritech Co Ltd (Vietnam),

Shwe Kant Kaw, KKS (Myanmar),

Bio Hi-tech (Cambodia),

CGC organic coffee (Laos),

General Incorporated Association for the Promotion of Self-reliance in Asia (GIAPSA)

PROGRAM

19 November 2021

Time

- 7:00-8:00 Registration: Secretariat and Staff: Dr. Rungtawan Yomla, Dr. Jiaojiao Song, Dr. Pattama Nitthaisong
Master of Ceremony (MC): Dr. Jackapan Wongpa, Dr. Wanlada Klangnurak
- 8:00-8:15 Welcome Addresses & opening remarks
Prof. Dr. Hiroyuki Konuma (Japan)
Dr. Thongchai Putthongsiri Dean
Dr. Kasem Soyong, President of AATSEA
- 8:15-8:20 AATSEA Awarding Announcement
Theme song: IMAGINE (Mr. Sarayos, P.)

Plenary and Keynote Speakers (Main conference room)

- Chairs: Dr. Kasem Soyong (Thailand).** 25 minute each
- 08:30-08:55 **Prof. Dr. Hiroyuki Konuma (Japan):** Sustainable Development and Covid-19 Pandemic
- 08:55-09:20 **Dr. Ramon Lorenzo Luis Guinto (Philippines):** The Planetary Health Diet: advancing human nutrition and safeguarding the environment in the anthropocene
- 09:20-9:45 **Dr. Teodoro C. Mendoza (Philippines):** True, full, and fair costs accounting of rice, the staple food of half the people of the world
- 09:45-10:10 **Prof. Dr. Kampon Sriwatanakul (Thailand):** Health Benefits of Organic Agriculture
- 10:10-10:35 **Prof. Dr. Jin-Cheol Kim (Korea):** Can we effectively control pine wood nematode by plant resistance inducers ?
- 10:35-11:00 **Prof. T.S.S.K. Patro (India):** Investigation on the Efficacy of Bio-agents and Chitosan against Finger millet Blast Disease
- 11:00-11:25 **Prof. Dr. Moammar Dayoub (Finland):** Internet of thing (Iot) for smart agriculture in rural areas
- 11:25-12:50 **Prof. Ivan Tarakanov (Russia):** Agricultural Technologies of the Future: Intelligent Plant Factory
- 11:50-12:15 **Prof. Rajeev Bhat (Estonia, EU):** Circular bio-economy perspectives for sustainable management and effective valorization of food industrial wastes and by-products
- 12:15-12:45 **Prof. Dr. Tapio Juokslahti (Finland):** Potato (*Solanum tuberosum*) in the South-East Asia Food Systems
- 12:45-13:00 Questions and Answer

**RESEARCH FORUM
ORAL PRESENTATIONS**

	Session 1	ORGANIC AGRICULTURE AND RELATED FIELDS Chair persons: Prof. Nanik Setyowati (Indonesia), Dr. TSSK Patro (India), Dr. Teerawat Sarutayophat (Thailand), Dr. Lampan Khurpoon (Thailand), Dr. Bancha Wiangsamut(Thailand)
1	13:00 – 13:20	IS: Prof. Nanik Setyowati (Indonesia): Allelopathic Effect of Sorghum Root Extract and Its Potential Use as a Bioherbicide
2	13:20 –13:40	IS: Prof . Dr. Qamaruddin Charcha (Pakistan) -accepted invitation
3	13:40 – 14:00	IS: Pablito Malabanan Villegas (Philippines): A paradigm shift in the Promoting the Adoption of Organic Agriculture
4	14:00-14:20	IS: Dr. Somlit Vilaivong (Lao PDR): The organic coffee production in Lao PDR
5	14:20 – 14:40	IS: Thet Lwin Htay (Myanmar) Organic agriculture in Myanmar
6	14:40 – 15:00	Invited speaker: Dr. Lalitha Sundarum (India). Yield enhancement of <i>Lycopersicon esculentum</i> Mill. Using microbial consortium”
7	15:00 –15:20	IS: Prof. Yao Min Hong: Using the Oyster shell factory on the Implementation of Circular economy in Taiwan Sugar Corporation
8	15:20 – 15:40	IS: Prof. Oksana Belous (Russia). Influence of exogenous growth-regulators on physiological and growth processes of dwarf mandarin cv. ‘Miagava-Vase’.
9	15:40 – 16:00	IS:Chen Yi-sung: Weed and Pest Management on Paddy Rice Cultivation Based on Farmers Practices
10	16:00 -16:20	Nithyapriya S and Lalitha S (India): MASS PRODUCTION OF PSEUDOMONAS BIOFERTILIZER AND ITS LARGE SCALE APPLICATION IN ARACHIS HYPOGAEA
11	16:20-16:40	IS: Dr. Md. Asaduzzaman Sarker (Bangladesh)
12	16:40-17:00	Boun Oum Douangphrachanh (Laos): The situation of organic production in Lao PDR
13	17:00-17:20	IS: Invited speaker: Vojtech Nemeč (Czech Republic) Practical experience in application of bioproducts for crop

		production in Cambodia and ways how to make them work more effectively.
14	17:20-17:40	IS: NATHALA EMMANUEL and Dr.TSSK KIRAN PATRO (India): ORGANIC BEEKEEPING AND VALUE ADDITION OF BEES WAX AND HONEY FOR LIVELIHOOD OF RURAL WOMEN AND YOUTH IN ANDHRA PRADESH, INDIA
15	17:40-18:00	IS: <u>Younes REZAEI DANESH</u> , Aynur DILSIZ ² , Çağlar SAGUN, Atilla POLAT, Emre KARMAZ (Iran): Community Structure of Arbuscular Mycorrhizal Fungal Species in Saline Soils of Turkey.
16	18:00-18:20	Prof. Vadim Fedorov (Russia): Organic farming, biopesticides, bio-Agrochemicals, Pharmacological products based on them: Necessity, Benefits, Opportunities, Application Prospects, proposed solutions.
17	18:20-18:40	Kasem Soyong (Thailand) Research investigation and application in organic agriculture for sustainable development goals (SDGs)

Session 2. MICROBIAL TECHNOLOGY, BIODIVERSITY AND FOOD TECHNOLOGY

		Chair persons: Prof. Mohamad Chozin (Indonesia), Prof. Lalitha, S.(India), Prof. Tatik Suteky (Indonesia), Dr. Nonglak Parinthawong (Thailand), Dr. Suprattra Poeam(Thailand)
18	13:00-13:20	IS: Dr. Samantha C. Karunarathna (Sri Lanka): How to be a “fungi’ not a dead guy.
19	13:20-13:40	IS: Lalitha S, Nithyapriya S (India): Phytostabilization of glyphosate contaminated soil using Plant Growth Promoting Rhizobacteria
20	13:40-14:00	Reny Herawati (Indonesia): Field Evaluation of Blast Resistance on Inbred Lines Rice Derived from Crossing Bengkulu Local Varieties
21	14:00-14:20	Nguyen T. Hoang*, Le T. Nhan, Nguyen T. M. Thu, Pham T. T. Tuyen, Ho B. T. Quyen, Pham N. D. Hoang (Vietnam): The trial of fresh straw mushroom (<i>Volvariella volvacea</i>) preservation in 9 days

22	14:20-14:40	Thitiporn Ditsawanon(Thailand): Protein hydrolysates from agricultural wastes for plant bacterial disease control
23	14:40-15:00	Boda Praveen (India): Evaluation of bacterial bio-agents against <i>Alternaria alternata</i> (Fr.) Keissler causing leaf blight in Little millet
24	15:00-15:20	Titi Thongkamnam (Thailand): Antagonistic interaction between <i>Trichoderma</i> spp. and Azoxystrobin + difenoconazole for controlling <i>Colletotrichum capsici</i> the causal agent of anthracnose in <i>Capsicum annuum</i> L.
25	15:20-15:40	IS: Dr. Gopi Krishnan (India) EXPLORATION OF EARTHWORMCAST ASSOCIATED ACTINOBACTERIA FOR PLANT GROWTH PROMOTING PROPERTIES
26	15:40-16:00	Nguyen T. K. Dung*, Vo T. A. Dao, Tran T. Xuan, Duong Q. Bao, Ton T. Minh, Ho H. Dung (Vietnam): An Assessment of Sustainable Agro-Forestry Livelihood of K'Ho Cil Minority in Da Nhim Commune, Lac Duong District, Lam Dong Province, Vietnam
27	16:00-16:20	Ton T. Minh*, Le V. Trung, Pham N. D. Hoang (Vietnam): Implementing payment environmental services in Langbiang Biosphere Reserve, Vietnam
28	16:20-16:40	Naruemon Mongkontanawat (Thailand): Development and evaluation the formula of healthy mushroom beverage with high β -glucan from <i>Schizophyllum commune</i> Fr. In Thailand
29	16:40-17:00	Yupa Pootaeng-On (Thailand): Antifungal efficacy and phytochemical analysis of twig extract of <i>Miliusa sessilis</i> to control anthracnose disease in mango (<i>Mangifera indica</i>)
30	17:00-17:20	Pham V. Loc, Pham N. D. Hoang , Nguyen H. L. Nhi , Nguyen, T. M. Duyen , Nguyen, T. M, Thu, Nguyen, M. Thu, Nguyen, H. Dung, Ho B. T. Quyen (Vietnam): The correlation between mycelial growth and fruit body's yield of oyster mushrooms (<i>Pleurotus</i> spp.) in the southern Vietnam
31	17:20-17:40	Sararat Monkhung (Thailand): In vitro antifungal activity of antagonistic bacteria to control <i>Colletotrichum</i> sp. causing anthracnose disease in mango (<i>Mangifera indica</i>)
32	17:40-18:00	Lam V. Nguyen*, Bui N. Trang, Dang H. Phu, Ho B.T. Quyen, Dinh M. Hiep, Nguyen T. Thang, Pham N.D. Hoang (Vietnam): Lovastatin compounds of oyster mushrooms (<i>Pleurotus</i> spp.) in the southern Vietnam
33	18:00-18:20	Okigbo, R. N. and Ugwu, C. S. (Nigeria):FUNGAL FLORA OF MECHANIC WORKSHOPS AND ITS BIOREMEDIATION
34	18:20-18:40	Ho B.T. Quyen, Huynh N.M. Thu, Cao N. K. Thoa, Co D. Trong, Dinh M. Hiep, Pham N.D. Hoang (Vietnam):

	Biological characteristics of commercial oyster mushrooms (<i>Pleurotus</i> spp.) in southwestern Vietnam
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	Session 3	PLANT, WATER AND SOIL SCIENCES Chair persons: Prof. Zainal Muktamar (Indonesia), Dr. Sutisa Chaikul (RBU) Dr. Rungtawan Yomla (Thailand), Dr. Anurug Poeaim (Thailand) Duanrung Benjamas (RBU)
35	13:00-13:20	IS: Prof. Zainal Muktamar (Indonesia): Soil Nitrate Availability Pattern as Influenced by Application of Vermicompost Supplemented with a Liquid Organic Fertilizer
36	13:20-13:40	Catur Herison (Indonesia): Reliability of Seedling Stage Selection for Aluminium Stress Tolerance In Hot Pepper (<i>Capsicum annuum</i> L)
37	13:40-14:00	Prof. Fahrurrozi Fahrurrozi (Indonesia): Use of <i>Tithonia diversifolia</i> leaves for liquid organic fertilizer
38	14:00-14:20	IS: Sigit Sudjatmiko (Indonesia): SWEET CORN ROOT DISTRIBUTION UNDER DIFFERENT FERTILIZER APPLICATIONS
39	14:20-14:40	Sefri Oktaviani (Thailand): Coffee cherry's pulp variety and pulping delay time leading to cascara tea products
40	14:40-15:00	G. Bharathi (India): Molecular Divergence Analysis for Pre-Harvest Sprouting Resistance in Rice (<i>Oryza Sativa</i> L.) genotypes
41	15:00-15:20	Merakati Handajaningsih (Indonesia): Enhancing Soil Characteristics and Yield Response of Coffee Cultivated under Reduced Chemical Fertilizer in Ultisols with Application of Bio-organic Fertilizer Containing Plant Growth Promoting Microbes
42	15:20-15:40	Rathanon Lohsuwan (Thailand): Effects of Draw Solution Concentration and Operating Factors on Forward Osmosis for Lime juice Concentration
43	15:40-16:00	Mendoza, Bernadette C., Maluping, Lycka P., Ramos, Jemaine Catherine T., Polido, Kristinae P., Mancina, Abigail

		Faye V. , Panganiban, Marian Jean T. and Reano, Consorcia E. (Philippines):Bacterial Count Determination and Phenotypic Detection of <i>S. aureus</i> and <i>E. coli</i> Strains in Selected Agro-ecologically and Conventionally Grown Salad Vegetables in Laguna and Quezon Provinces, Philippines
44	16:00-16:20	IS: Dr. Bancha Wiangsamut (Thailand): Effect of ethephon on fruit ripening and fruit components of durian cv. 'Monthong' after harvest
45	16:20-16:40	Varee Yoosumran (Thailand): Micropropagation of young inflorescence <i>Curcuma</i> hybrid In vitro
46	16:40-17:00	Marwanto Marwanto (Indonesia): Reducing the Use of Mineral Fertilizer and Enhancing Growth Performance of Green Onion by Application of Pelletized Organomineral Fertilizer
47	17:00-17:20	Prasanna Angel Deva (India): Understanding the response of antioxidant mechanisms to abiotic stress in the <i>Arabidopsis</i> Negev desert relative, <i>Anastatica hierochuntica</i>
48	17:20-17:40	Sandhya Rani (India): Crop Residue Management for Enhancing the Soil Health and Productivity in Red Sandy Loam Soils
49	17:40-18:00	Chamaiporn Anuwong (Thailand): Effect of Timing and Storage Temperature on Pollen Viability and Pollen Germination in <i>Zephyranthes</i> Hybrid
50	18:00-18:20	Colenares Rohilyn E., Dianna May Asis, John Rey S. Rieza, and Benedict S. Tuazon (Philippines): Metal Accumulation of Leguminous Crops In Mine Tailings of Camarines Norte, Philippines: Basis for Soil Remediation Strategies
51	18:20-18:40	Charanya Khaeksawad (Thailand): The effect of water deficit at different growth stage on yield and quality of sweet corn (<i>Zea mays</i> var <i>saccharata</i> Sturt.)

Session 4	<p>ANIMAL AND FISHERY SCIENCES AND RELATED FIELDS</p> <p>Chair persons:</p> <p>Prof. Fahrurrozi Fahrurrozi (Indonesia),</p> <p>Dr. Ronachai Sitthigripong (KMITL,Thailand);</p> <p><u>Assist. Prof. Dr. Bhutharit Vittayaphattananurak Raksasiri (SU)</u></p> <p><u>Assoc. Prof. Dr. Pantipa Na Chiangmai (SU)</u></p> <p>Asst. Prof. Dr. Yardrungrat Suwannarat (RBU)</p>
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52	13:00-13:20	IS: Dr John Moreki and and Maphanyane, P. (Botswana): Assessment of awareness of broiler chicken welfare in Gaborone, Botswana
53	13:20-13:40	Jinda Klin-Ubon (Thailand): Effect of crude Vietnamese coriander (<i>Persicaria odorata</i>) extract supplementation in broiler diet on growth performance, carcass characteristics and meat quality
54	13:40-14:00	Kajit Mettamehtar (Thailand): Effect of genetic groups and age on milk chemical composition from buffaloes
55	14:00-14:20	Pattana Somniam (Thailand): The Diversity of Terrestrial Earthworm in Agricultural Land and Adjacent areas, Uttaradit Province, Thailand
56	14:20-14:40	Ruangyote Pilajun (Thailand): Growth performance and nutrient digestibility of Thai native compared with Lowline Angus crossbred beef cattle fed with regional feedstuffs
57	14:40-15:00	Kajit Mettamehtar (Thailand): Milk fatty acid profile from different genetic and age of buffaloes.
58	15:00-15:20	Rigos, LM. , EC. Atabay , EP Atabay, JPR. Apolinario (Philippines): Determination Of Pregnancy Associated - Glycoproteins (Pags) During And Post Pregnancy In Riverine Buffaloes (<i>Bubalus bubalis</i> Linn.)
59	15:20-15:40	Panneepa Sivapirunthep (Thailand): Yield Grading and Prediction of Semi-boneless Lean Percentage Using Carcass Traits of Fattening Culled Dairy Cattle in Thailand
60	15:40-16:00	Ruangyote Pilajun (Thailand): Growth performance and nutrient digestibility of Thai native compared with Lowline Angus crossbred beef cattle fed with regional feedstuffs
61	16:00-16:20	Manatsanun Nopparatmaitree (Thailand): Effect of feeding banana stalk to laying hens under free range rearing system in bamboo garden on physical quality and nutritive value of eggs, fatty acid profile and lipid quality index in yolk
62	16:20-16:40	Bhutharit Vittayaphattananurak Raksasiri (Thailand): The effect of synbiotic supplementation in Thai native black-feathered chicken (Pradu Hang Dam) diets on production performance, intestinal histomorphology and carcass quality
63	16:40-17:00	Kittichon U-Taynapun(Thailand): Species diversity, tetracycline resistance and virulence factor gene profile of pathogenic <i>Aeromonas</i> spp. isolated from Nile tilapia seed farms in southern Thailand
64	17:00-17:20	Paitoon Kaewhom(Thailand): Molecular Survey of <i>Theileria</i> spp. of Ruminant in Eastern border area of Thailand-Cambodia
65	17:20-17:40	Panneepa Sivapirunthep(Thailand): Rib Eye Area and Sizes of Fattening Culled Dairy Cattle Determination Using Plastic Grid and Geometric Methods
66	17:40-18:00	Teerajet Laohasatian(Thailand): Development of Loop-mediated Isothermal Amplification (LAMP) for rapid detection of Methicillin-resistance <i>Staphylococcus aureus</i> (MRSA) from dairy cattle

67	18:00-18:20	Manatsanun Nopparatmaitree (Thailand): Dietary of Probiotic (Micromix® 3B Dry) and Organic Acid (Semalex®) Supplementation on Productive Performances, Intestinal Morphology, Carcass Characteristics, Meat Quality and of Broiler Chickens
68	18:20-18:40	Rustikawati Rustikawati(Indonesia): Evaluation on Salinity Tolerance of New Maize Hybrids at Early Growth and Their Performance in Coastal Field
	Session 5	Entomology and related fields Chair persons: Prof Dwi Wahyuni Ganefianti (Indonesia) Dr. Kamronwit Thipmanee(KMITL,Thailand) Dr. Chongko Saetung (RMUTTO) Dr. Gopi Krishnan (India) Dr. N. Emmanuel (India)
69	13:00-13:20	Agustin Zarkani (Indonesia): A First Record of Mealybug, <i>Planococcus bendovi</i> Williams (Hemiptera: Planococcus) in Southeast Asia
70	13:20-13:40	Sorphia Kummin(Thailand): Adulticidal toxicity of trans-anethole and geranial from natural essential oils against house fly, <i>Musca domestica</i> (L.), Muscidae; Diptera
71	13:40-14:00	Nitchakan Mekha (Thailand): Larvicidal and pupicidal activities against <i>Musca domestica</i> L. of several combinations of <i>Cinnamomum verum</i> , <i>Cymbopogon citratus</i> (Stapf.), and <i>Illicium verum</i> Hook. f
72	14:00-14:20	Khwunjira Chanasongram(Thailand): Larvicidal and ovicidal activities against <i>Aedes aegypti</i> (L.) of combinations between plant essential oils and their major constituent
73	14:20-14:40	Navasero M.M, <u>W.N.De Panis</u> , R.N. Candano, MV Navasero and MP Montecalvo (Philippines):Predatory efficiency of <i>Euborellia</i> species against fall armyworm, <i>Spodoptera frugiperda</i> (J.E.Smith)(Lepidoptera:Noctuidae)
74	14:40-15:00	Tanapoom Mounghthipmalai (Thailand): Adulticidal activity against housefly (<i>Musca domestica</i> L, Muscidae:Diptera) of eucalyptol, limonene, and their combined formulations
75	15:00-15:20	Cheepchanok Puwanard(Thailand): Ovicidal and adulticidal activities of <i>Cymbopogon citratus</i> (DC.) Stapf and <i>Illicium verum</i> Hook. f. against <i>Aedes aegypti</i> (Linn.)
76	15:20-15:40	Watcharaporn Takawirapat (Thailand): Repellency of six plant essential oils against <i>Periplaneta americana</i> L. and <i>Blattella germanica</i> L.
77	15:40-16:00	Sukritta Anutrakunchai (Thailand): Comparison of Bioformulation substances to <i>Bagrada hilaris</i> controls

78	16:00-16:20	Montecalvo, MP, MM Navasero, MV Navasero (Philippines): <i>Metarhizium rileyi</i> , an indigenous and potent entomopathogenic fungus against armyworms in the Philippines.
79	16:20-16:40	Navasero M.M, W.N.De Panis, R.N. Candano, MV Navasero and MP Montecalvo (Philippines):Predatory efficiency of Euborellia species against fall armyworm, Spodoptera frugiperda (J.E.Smith)(Lepidoptera:Noctuidae)
80	16:40-17:00	Dr.Donna Ria Josue-Canacan (Philippines) Adoption of Integrated Pest Management (IPM) Technologies in Southern Philippines: Constraints and Motivations
81	17:00-17:20	Dr.Rose Josue (Philippines) Farmers as key implementors of S & T-based biological intervention have their coconut trees rapidly recover from Coconut Scale Insect (CSI) outbreak in Southern Philippines
82	17:20-17:40	Siraprapa Teangpa(Thailand): Ovicidal effect against Musca domestica (L.) of several combinations of plant essential oils and their major constituent
83	17:40-18:00	Sempurna Ginting (Indonesia): Insect diversity in forest and beach ecosystems in pelabuhan ratu, sukabumi, west java
84	18:00-18:20	Priyatinationsih Priyatinationsih (Indonesia): Identification and Biology of Fruit Fly Attacking Some Citrus Varieties in Bengkulu
85	18:20-18:40	Sempurna Ginting(Indonesia): Insect diversity in forest and beach ecosystems in pelabuhan ratu, sukabumi, west java

	Session 6	Agricultural Sciences and Biology Chair persons: Dr. Danilo Josue (Philippines), Dr. Teodoro C. Mendoza (Philippines), Prof. Dwatmadji (Indonesia), Dr. Kannikar Charoensuk (Neng ,) Dr. Komkhae Pilasombut (KMITL,Thailand);
86	13:00-13:20	IS: Prof. Dr. Teodoro C. Mendoza (Philippines):True Costs Accounting of Rice: the staple food of half the people of the World

87	13:20-13:40	IS:Prof. M. Chozin (Indonesia): IS: Mohammad Chozin: PROGRESS IN RICE BREEDING FOR INDONESIAN SWAMPLAND AREAS
88	13:40-14:00	Phumipat Sangkrabun(Thailand): Effect of Drying Methods during Priming on Quality and longevity of Rice Seeds
89	14:00-14:20	วาสนา ผลดีตะ(Thailand): Effect of culture condition and plant growth regulator regeneration of <i>Molineria latifolia</i> (Drayand. Ex. W. T. Aiton) Herb ex. Kurz. By using tissue culture
90	14:20-14:40	Jisinee Vaiyanikorn (Thailand): Larvicidal and pupicidal activities against <i>Aedes aegypti</i> L. (Diptera: Culicidae) of several combinations of plant essential oils and their major constituent
91	14:40-15:00	Dwi Wahyuni Ganefianti (Indonesia): Growth and yield of chili pepper stem cuttings under different compositions of inorganic fertilizer applications
92	15:00-15:20	Mendoza, Bernadette C., Maluping, Lycka P., Ramos, Jemaine Catherine T., Polido, Kristinae P., Mancia, Abigail Faye V. , Panganiban, Marian Jean T. and Reano, Consorcia E. (Philippines): Heterotrophic and Coliform Counts, and <i>S. aureus</i> and <i>E. coli</i> Strains Phenotypically Identified from Soil and Fertilizer Samples in Selected Agro-Ecological and Conventional Farms in Luzon and Quezon Provinces, Philippines
93	15:20-15:40	Hesti Pujiwati (Indonesia): Effects of N and P dosages on crop growth, yield, and attack of pod borer (<i>etiela zinchenella</i>) of soybean c.v. detam-1 grown at swampy land
94	15:40-16:00	Edi Susilo (Indonesia): The Inhibition of Seed Germination Treated with Root Water Extract of Sorghum (<i>Sorghum bicolor</i> , L.) Cultivated in Histosols
95	16:00-16:20	Rathanon Lohsuwan (Thailand): Effects of Draw Solution Concentration and Operating Factors on Forward Osmosis for Lime juice Concentration
96	16:20-16:40	Reny Herawati (Indonesia): Field Evaluation of Blast Resistance on Inbred Lines Rice Derived from Crossing Bengkulu Local Varieties
97	16:40-17:00	Jinda Klin-Ubon(Thailand): Effect of crude Vietnamese coriander (<i>Persicaria odorata</i>) extract supplementation in broiler diet on growth performance, carcass characteristics and meat quality
98	17:00-17:20	Thitiporn Ditsawanon (Thailand): Protein hydrolysates from agricultural wastes for plant bacterial disease control

99	17:20-17:40	Manigbas Norvie L. and Woon Goo Ha (Philippines) Enhanced partnerships with farmers' associations, the key in sustaining rice productivity and income.
100	17:40-18:00	Bunny Soem (Cambodia): Influence of Organic Fertilizer on the growth of Arrowroot
101	18:00-18:20	Prapasri Theprugsa (Thailand): Research and Development of the Restructured Shrimp Product
102	18:20-18:40	Chittraporn yeanpet(Thailand):Effect of Mucuna pruriens leaves in dairy cow feed on gas production, digestibility and rumen fermentation by using in vitro gas production technique

	Session 7	ENVIRONMENTAL SCIENCE, AGRICULTURAL EDUCATION AND DEVELOPMENT Chair persons: Prof. Dr. Pakkapong Pongsuk (Thailand), Dr. Adisak Singsewo (Thailand), Dr. Preeyanan Sittijinda (Thailand), Dr. Phattraporn Soyong (Thailand), Joselito Dar(Philippines)
103	13:00 – 13:20	IS: Dr Marie Fiesta (Philippines) The role of Bangsamoro Women in environmental Preservation
104	13:20 – 13:40	IS: Dr. Pakkapong Pongsuk (Thailand): Agricultural Skills for the Promotion of Future Careers of Special Students at Phrae Panyanukul School, Phrae Province.
105	13:40– 14:00	Rigos,L M. (Philippines).Detection of Pregnancy Associated – Glycoprotein(PAGs)during early and mid-pregnancy in reverine buffaloes
106	14:00 –14:20	Patticha Kulsuwan (Thailand):The carbon footprint Assessment from Electricity in Amnatcharoen Province of Northeastern Thailand
107	14:20 – 14:40	Savuth Sem MSc. (Cambodia) System of Rice Intensification (SRI) vs. Chemical Intensive Rice Production:Which direction shall Cambodian rice agriculture be ?
108	14:40 – 15:00	Bhutharit Vittayaphattananurak (Thailand): Study on Economic Status and Acceptability of Farm Management Technology of Goat Farmers: A Case Study in the lower central region and the upper southern region of Thailand.
109	15:00 – 15:20	Garan, M.A., Salang, E.D, Tabal, E.P(Philippines) Soil erosion rate estimates using USLE of selected corn producing areas in Barangay Vitali, Zamboanga City, Philippines

110	15:20 –15:40	Dr.Professor Danilo Josue (Philippines) Learning Farm Center for Organic Agriculture Education
111	15:40 – 16:00	Isaac F.Sulonteh Magr (Liberia) Improving Production Practices to Increase yield Liberian Rice
112	16:00 – 16:20	Manigbas Norvie L. and Woon Goo Ha (Philippines) Enhanced partnerships with farmers’ associations, the key in sustaining rice productivity and income.
113	16:20-16:40	Tabal, E.P., Mendoza, C.T., Paelmo, R.F., Garcia, J.N., Visco, R. (Philippines): Energy inputs and carbon emission equivalent of selected agroforestry systems in zamboanga city, Philippines
114	16:40-17:00	Bhutharit Vittayaphattananurak (Thailand): Study on Economic Status and Acceptability of Farm Management Technology of Goat Farmers: A Case study in the lower central region and the upper southern region of Thailand
115	17:00-17:20	Saduak, W. (Thailand): Promotion of Vegetable Gardening for Household Food Storage during Covid-19 Pandemic of Farmers in Praibueng District, Srisaket Province.
116	17:20-17:40	Kantika Youngmanee (Thailand): Composting of boiler-ash and biogas-sludge from the palm oil industry for use as plantlet growing media
117	17:40-18:00	Nuttanan Direksri (Thailand): Important of marketing mix factors on consumer purchase decision towards organic rice of a community enterprise
118	18:00-18:20	Satria Utama (Indonesia): Factors Affecting Farmers' Decision in Using Subsidized and Non-Subsidized Seeds in Hybrid Corn Farming in Seluma Regency, Bengkulu Province
119	18:20-18:40	Muhammad Farid (Indonesia): Identification of soil porosity using geophysical and geotechnical observation for agricultural application

Session 8 Advanced Research in Agricultural and Biological Sciences for Sustainable development goals (SDGs)

		<p>Chair persons: James Kennard Jacob (Philippines), Dr. MD Asaduzzaman Sarker (Bangladesh) , Prof. Somdej Kanokmadhakul (KKU,Thailand) Dr. Raphael Okigbo (Nigeria) Dr. Wanlada Klangnurak (KMIL,Thailand),</p>
120	13:00-13:20	IS: James Kennard Jacob (Philippines): Exploring Endophytic Microfungi as Source of Biosynthetic Secondary Metabolites
121	13:20-13:40	Suteera Vatthanakul(Thailand): Effect of Carboxymethylcellulose and Xanthan Gum on the Physicochemical and Sensory Properties of Passion Fruit Topping Sauce
122	13:40-14:00	Pramote Pornsuriya (Thailand): Yield stability of new elite lines of yardlong bean (<i>Vigna unguiculata</i> (L.) Walp. ssp. <i>sesquipedalis</i> Verdc.)
123	14:00-14:20	IS:Nanik Setyowati (Indonesia): Allelopathy for Sustainable Weeds Management
124	14:20-14:40	IS: Dr. Nagia (Egypt) Improvement of wool dyeing quality and antimicrobial activity using nano forms of silver
125	14:40-15:00	Kannikar Charoensuk (Thailand): Effect of Processing of Mangosteen (<i>Garcinia mangostana</i>) Puree on Nutrition, fiber and mineral contents of Mangosteen drink
126	15:00-15:20	IS: Dr. Rujira Tongon (Thailand) Natural product nano-particles from <i>Chaetomium</i> for resistant of Durian <i>Phytophthora</i> rot
127	15:20-15:40	IS: Dr. Jiaojiao Song (China) The biodegradation natural product nano-particles derived from fungi to induce phytoalexin in plants
128	15:40-16:00	IS: Dr Somlit Vilavong (Laos):
129	16:00-16:20	Janejira Phakawan(Thailand): Antimicrobial Enhancement of Red Onion Crude Extract using Epsilon-polylysine
130	16:20-16:40	Suriya Kosinwattana(Thailand): Effect of Different Planting Materials Ratios on the Growth of Foliage Plants

131	16:40-17:00	Naruebet Meelua(Thailand): Technical Efficiency of Rice Production in Klong Suan Sub-District, Bang Bo District, Samut Prakan Province, Thailand
132	17:00-17:20	Okigbo, R. N. and Ugwu, C. S. (Nigeria):UNDERUTILIZED PLANTS OF AFRICA
133	17:20-17:40	Krittiya Khuenpet(Thailand): Development of Inulin Beads from Jerusalem Artichoke by spherification and reverse spherification techniques
134	17:40-18:00	Suriyasit Somnuek(Thailand): In vitro effect of Callistemon viminalis and Melaleuca cajuputi ethanolic extracts as botanical fungicide and insecticide
135	18:00-18:20	Rungrat Vareekate (Thailand): Rice disease immunity
136	18:20-18:40	Jeeranun Khermkhan (Thailand): Comparison of Cost and Return from Raw and Ripe Namdokmai Mango Planting of Large Plots in Bang Phli District, Samutprakarn Province

Session 9 Advanced Research in Biological Agriculture

		Chair persons: Prof. Sridhar Kandikere (India) Dr. Jatuporn Aroonkamonsri (RMUTTO) Dr. Jiaojiao Song (China) Dr. Wikanya Prathumyot (RBU) Dr. Somlit Vilavong (Lao PDR)
137	13:00-13:20	IS: Prof. Sridhar Kandikere (India):
138	13:20-13:40	Norden Lepcha (Bhutan): Macronutrients (NPK) and pH status in soil influenced by organic and conventional potato cultivation in West-Central Bhutan
139	13:40-14:00	Anuwat Lakyat(Thailand): Ectoparasite species attacking chicken in eastern area of Bangkok, Thailand
140	14:00-14:20	Harry Jay Cavite(Philippines): Supply chain structure and constraints of a rice production community enterprise: Evidence from rural Thailand
141	14:20-14:40	Karinporn Yodsenee(Thailand): <i>In vitro</i> Study of Antioxidant and Antimicrobial Activities of Soybean Tempeh and Split Gill Mushroom as Plant Based Protein
142	14:40-15:00	Pawat Seritrakul(Thailand): Mitochondrial DNA analysis revealed genetic diversity of captive-bred hog deer (<i>Axis porcinus</i>) population in Thailand

143	15:00-15:20	Natthapon Jaisue(Thailand): Distribution of Total and Available Sulfur under Durian Orchard Soils in the Eastern Thailand
144	15:20-15:40	Heejung Kim (South Korea): Developing an International Cooperation Training Program and Designing Sustainable Agriculture Systems under the Climate Crisis Era.
145	15:40-16:00	Napassawan Fungsoonnoen(Thailand): Survival of contaminated pathogenic bacteria in guava juice
146	16:00-16:20	Prapasri Theprugsa(Thailand): Research and Development of the healthy ready-to-eat strip Chinese sausage
147	16:20-16:40	Sarochoa Phopaijit(Thailand): Effects of Chicken Manure and Chemical Fertilizer on Growth and Yield of Japonica Rice
148	16:40-17:00	Phatthira Sakamut (Thailand): Improvement of Threadfin bream (<i>Nemipterus</i> spp.) surimi gel properties by electron beam irradiation
149	17:00-17:20	Nantawan Inban(Thailand): Effects of Calcium Sources on Physiological Traits Related to Pod and Seed Yield of Peanut
150	17:20-17:40	Kittiya Showpanish(Thailand): Anti-Streptococcus suis Bacteriocin Produced by Lactic Acid Bacteria from Thai Fermented Vegetable Products
151	17:40-18:00	Suworanee Pancharoenn (Thailand): Effect of ingredients, storage temperature and time on texture properties and retrogradation rate of butter cake
152	18:00-18:20	
153	18:00-18:40	

Session 10 Advanced Development in Agricultural Sciences

		Chair persons: Prof. Ivan Tarakanov (Russia), Dr. Naruemon Mongkontanawat (RMUTTO), Dr. Nithya Priya (India) Dr. Rujira Tongon (Thailand) Prof. Vadim Fedorov (Russia)
154	13:00-13:20	IS: Prof. Ivan Tarakanov (Russia): Agricultural Technologies of the Future: Intelligent Plant Factory
155	13:20-13:40	IS: Dmitry Mikhaylov (Russia):
156	13:40-14:00	Racha Tepsorn(Thailand): Kinetic Reduction of <i>Salmonella</i> Typhimurium on Radish sprouts (<i>Raphanus sativus</i> L.)
157	14:00-14:20	Sujitra Jorjong (Thailand): Effect of Paclobutrazol on yield and quality of Mao laung (<i>Antidesma thwaitesianum</i> Müll. Arg.) Cultivars

158	14:20-14:40	Apisit Chittawanij(Thailand): Study of Biochar on Growth and Yield of Choy Sum (<i>Brassica chinensis</i> L.var <i>parachinensis</i>)
159	14:40-15:00	Darinthip Thiphinkong(Thailand): Effect of Seed Coating with Fluorescent Compound on Quality and Fluorescence of Cucumber seeds
160	15:00-15:20	Bandi Hermawan (Indonesia) : Soil-Controlling Irrigation System for Water Use Efficiency in Agricultural Dry Land
161	15:20-15:40	Racha Tepsorn(Thailand): Antimicrobial Susceptibility of Chili Extract against Foodborne Pathogens and Food Related Bacteria
162	15:40-16:00	Sarocho Thongmakha (Thailand): Application of nanoparticles derived from antagonist for controlling tomato wilt caued by <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i>
163	16:00-16:20	Nontawan rawangpai (Thailand):Application of nanoparticles derived from antagonist to control anthracnose of chilli.
164	16:20-16:40	Marlin Marlin (Indonesia): Acclimatization of Micropropagated Dendrobium sp with The Application of Organic Fertilizer
165	16:40-17:00	Theeraphol Senphan(Thailand): Extraction and antioxidant activities of broken <i>Ganoderma lucidum</i> spore
166	17:00-17:20	Tanthai Waiphanta(Thailand):Application of nanoparticle derived from active metabolites for contolling leaf blight of super sweet corn.
167	17:20-17:40	Pettida Malai (Thailand):Application of nanoparticles derived from antagonist to control brown leaf spot of rice
168	17:40-18:00	Aynur DILSIZ, Çağlar SAGUN, Younes REZAE DANESH ^{1,2} , Dilek KAYA ÖZDOĞAN (Turkey, Iran): Status of Arbuscular Mycorrhizal Fungi Populations in Some Pastures of Ankara Region, Turkey
169	18:00-18:20	Dilek KAYA ÖZDOĞAN, Çağlar SAGUN, Atilla POLAT, Vecihe İNCIRKUŞ ¹ , Emre KARMAZ (Turkey): Genetic Characterization of <i>Rhizobium</i> Bacteria Isolated From Bean Nodules and Its Effect on Soil Quality
170	18:20-18:40	Gökhan UÇAR, Çağlar SAGUN, Younes REZAE DANESH (Turkey, Iran): Effect of <i>Funneliformis mosseae</i> Fungal Species on Root Growth of Lettuce Under Salt Stress Condition

Session 11 Advanced Development of Biological Technology

		<p>Chair persons: Prof. Bandi Hermawan (Indonesia), Dr Hoang ND Pham (Vietnam), Dr. Wichai Supalucksana (Thailand), Dr. Virapol Jamsawat, (Thailand), Dr. Pornpan Sukhumpinij (RBU)</p>
171	13:00-13:20	IS: Dr Hoang ND Pham (Vietnam): Ectomycorrhizal communities of pine forest in south Vietnam and applying for reforestation.
172	13:20-13:40 fix	IS: Dr. Hoang Quoc Chinth, Vu Xuan Tao (Vietnam): Potential of <i>Trichoderma asperellum</i> as a bio-control agent against citrus diseases caused by <i>Penicillium digitatum</i> and <i>Colletotrichum gloeosporioides</i> .
173	13:40-14:00	Suteera Vatthanakul(Thailand): Effects of Hydrocolloid Addition on the Quality of Cookies Substituted Wheat Flour with Sinin Rice Flour
174	14:00-14:20	Cruz, M. K. R. and Paelmo, RF (Philippines). Effect Of Biostimulants On Arize Bigante And NSIC Rc222 Growth And Development at Calauan, Laguna, Philippines
175	14:20-14:40	Jawanchanok Preesong(Thailand): Changes in soil properties affected by rice stubble burning in Bangkok soil series
176	14:40-15:00	Ariefa Primair Yani (Indonesia): IDENTIFICATION OF SOIL INSECT DIVERSITY IN THE TURTLE CONSERVATION AREA, BENGKULU UNIVERSITY
177	15:00-15:20	Chirasak Phoemchalard(Thailand): The effects of sous-vide cooking on the physicochemical, microbiological, and carbon footprint of buffalo meat at various temperatures and times
178	15:20-15:40	Cabalse, ELH and Roselyn Furoc-Paelmo RF (Philippines) Enhancing Productivity Efficacy Of Fungicide Application At Different Growth Stages Of Two Rice (<i>Oryza Sativa</i> L.) Varieties Cultivated In Calauan, Laguna, Philippines
179	15:40-16:00	Bootsrapa Leelawat (Thailand): Development of Soft Cookie from Pregelatinized Banana Flour and Germinated Brown Rice
180	16:00-16:20	Unnop Tassanaudom(Thailand): Combination of Humectants with Potassium Sorbate and Sodium Benzoate to Inhibit <i>Curvularia clavata</i> Contamination in Thai Fermented Fish Spicy Dip (Nam Phrik Pla Ra)
181	16:20-16:40	Onanong Bunserm(Thailand): Antibacterial and anti-biofilm formation activities of high heat tolerant herbal extracts against white feces syndrome-associated <i>Vibrio parahaemolyticus</i>

182	16:40-17:00	Atra Romeida (Thailand): In vitro shoot proliferation of Mangosteen's micro shoots using combination of 6-Benzylaminopurine and 1-Naphthaleneacetic concentrations.
183	17:00-17:20	Thitaree Lengnuy(Thailand):Application of nanoparticles derived from antagonist to control leaf spot of salad
184	17:20-17:40	Wijittra Pachpong (Thailand):Appliacation of different raw materials for organic oyster mushroom cultivation
185	17:40-18:00	Pheaktra Phal (Cambodia): Biological control of Durian rot caused by Pythium using <i>Trichoderma hamatum</i>
186	18:00-18:20	Arunrussamee Sangsila (Thailand): Isolation and characterization of actinomycetes with antibacterial and plant growth-promoting activities from maoberry cultivated soil in Northeast Thailand
187	18:20-18:40	<u>Solmaz NAJAFI</u> , Mehmet ÜLKER, Fevzi ALTUNER, Erol ORAL, Burak ÖZDEMİR (Turkey): Karyological Analysis on Tir Wheat Ecotypes In Van Region, Turkey

Total 10 + 187 papers = 197 papers from 30 countries

Control IT room – Akkarat

19:00

CLOSING CEREMONY

BEST PAPER AWARDS

Conclusion Remarks: Prof. Dr. Hiroyuki Konuma (Japan)

**Closing Address and Future Remark: Dr. Kasem Soyong,
The ICIST Theme Song “IMAGINE”**

NOTES:

AATSEA award 2021

Prof. TSSK Patro (India)

Dr. Lalitha, S. (India)

Award for emerging leaders of young generations
Dr. Ramon Lorenzo Luis Guinto (Philippines)

Chair persons

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Assoc. Prof. Dr. Pantipa Na Chiangmai ชำนาญการด้านปรับปรุงพันธุ์พืช

- 1 Asst. Prof. Dr. Pornpan Sukhumpinij = Agri Sci, Plant, Plant Tissue Culture
2. Asst. Prof. Dr. Wikanya Prathumyot = Agri Sci, Organic Agri, Plant
3. Asst. Prof. Dr. Yardrun Suwannarat = Food Tech, Microbial Tech, Fishery products, Biotechnology
4. Asst. Prof. Dr. Sutisa Chaikul = Soil
5. Asst. Prof. Duanrung Benjamas = Food Tech, Microbial Tech, Water