



The final scientific program

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), Bengkulu University (Indonesia), General Incorporated Association for the Promotion of Self-reliance in Asia (GIAPSA, Japan), Society for Applied Biotechnology (India), Bio-Agritech Co Ltd (Vietnam), Bio Hi-tech (Cambodia), CGC organic coffee (Laos), Shwe Kant Kaw, KKS (Myanmar), Rajamangala University of Technology Tawan-ok, Chantaburi Campus (Thailand), Rambhai Barni Rajabhat University (Thailand), CAS Asian Agriculture Bio Engineering (PR China),

PROGRAM

19 November 2021

Time

7:00-8:00	Introduction of AATSEA Master of Ceremony (MC): Dr. Jackrapan 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

AATSEA Outstanding Leader Award 2021

Education and Research: Assist. Prof. Dr. S. Lalitha (India), Prof. Dr. Pakkapong Pongsuk (Thailand)

Community Development: Mr. Ruangsak Komkhuntod (Thailand)

Special Community Service: Prof. Dr. Thanuku Samuel Sampath Kumar Patro (India)

Award for emerging leader of young generation: Dr. Ramon Lorenzo Luis Guinto (Philippines)

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 (<i>Solanum tuberosum</i>) in the south-east asian food system: role in zero hunger target of the united nations sustainable development goals
12:45-13:00	Questions and Answer

**RESEARCH FORUM
ORAL PRESENTATIONS**

	Session 1	ORGANIC AGRICULTURE AND RELATED FIELDS Chair persons Chair: Prof. Nanik Setyowati (Indonesia) Co-chair: Dr. TSSK Patro (India), Dr. Bancha Wiangsamut (Thailand), Dr. Lampan Khurpoon (Thailand), Dr. Teerawat Sarutayophat (Thailand)
1	13:00 – 13:20	IS: Prof. Nanik Setyowati: Allelopathic Effect of Sorghum Root Extract and Its Potential Use as a Bioherbicide
2	13:20 –13:40	IS: Prof . Dr. Qamaruddin Charcha: -accepted invitation
3	13:40 – 14:00	IS: Pablito Malabanan Villegas: A paradigm shift in the Promoting the Adoption of Organic Agriculture
4	14:00-14:20	IS: Dr. Somlit Vilaivong: The organic coffee production in Lao PDR
5	14:20 – 14:40	IS: Thet Lwin Htay:Organic agriculture in Myanmar
6	14:40 – 15:00	IS: Dr. Lalitha Sundarum: 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: 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	IS:Nithyapriya S and Lalitha S : Mass production of pseudomonas biofertilizer and its large scale application in arachis hypogaea
11	16:20-16:40	IS: Dr. Md. Asaduzzaman Sarker (Bangladesh): The Art and Myth of Organic Agriculture for Nature Conservation and Sustainable Food Production: Perspective of Bangladesh
12	16:40-17:00	IS: Boun Oum Douangphrachanh : The situation of organic production in Lao PDR
13	17:00-17:20	IS: Vojtech Nemeč: 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: 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: Community Structure of Arbuscular Mycorrhizal Fungal Species in Saline Soils of Turkey.
16	18:00-18:20	Prof. Vadim Fedorov: Organic farming, biopesticides, bio-Agrochemicals, Pharmacological products based on them:

		Necessity, Benefits, Opportunities, Application Prospects, proposed solutions.
17	18:20-18:40	IS: Dr. Gopi Krishnan: Exploration of earthwormcast associated actinobacteria for plant growth promoting properties
18	18:40-19:00	Kasem Soyong: Research investigation and application in organic agriculture for sustainable development goals (SDGs)
19	19:00-19:20	

Session 2. MICROBIAL TECHNOLOGY, BIODIVERSITY AND FOOD TECHNOLOGY

		Chair persons Chair: Prof. Mohamad Chozin (Indonesia), Co-chairs: Prof. Lalitha, S.(India), Prof. Tatik Suteky (Indonesia), Dr. Suprattra Poeaim(Thailand), Dr. Nonglak Parinthawong (Thailand)
20	13:00-13:20	IS: Dr. Samantha C. Karunarathna: How to be a “fungi’ not a dead guy.
21	13:20-13:40	IS: Lalitha S, Nithyapriya S: Phytostabilization of glyphosate contaminated soil using Plant Growth Promoting Rhizobacteria
22	13:40-14:00	Reny Herawati: Field Evaluation of Blast Resistance on Inbred Lines Rice Derived from Crossing Bengkulu Local Varieties
23	14:00-14:20	Hoàng Nguyễn: The trial of fresh straw mushroom (<i>Volvariella volvacea</i>) preservation in 9 days
24	14:20-14:40	Thitiporn Ditsawanon: Protein hydrolysates from agricultural wastes for plant bacterial disease control
25	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
26	15:00-15:20	Titi Thongkamngam : 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.
27	15:20-15:40	IS: Okigbo, R. N. and Ugwu, C. S.: Fungal flora of mechanic workshops and its bioremediation
28	15:40-16:00	Nguyen Kimdung :An Assessment of Sustainable Agro-Forestry Livelihood of K'Ho Cil Minority in Da Nhim Commune, Lac Duong District, Lam Dong Province, Vietnam
29	16:00-16:20	Minh T Ton: Implementing payment environmental services in Langbiang Biosphere Reserve, Vietnam
30	16:20-16:40	Naruemon Mongkontanawat: Development and evaluation the formula of healthy mushroom beverage with high β -glucan from <i>Schizophyllum commune</i> Fr. In Thailand

31	16:40-17:00	Yupa Pootaeng-On : Antifungal efficacy and phytochemical analysis of twig extract of <i>Milusa sessilis</i> to control anthracnose disease in mango (<i>Mangifera indica</i>)
32	17:00-17:20	Van Loc Pham: The correlation between mycelial growth and fruit body's yield of oyster mushrooms (<i>Pleurotus</i> spp.) in the southern Vietnam
33	17:20-17:40	Sararat Monkhang : In vitro antifungal activity of antagonistic bacteria to control <i>Colletotrichum</i> sp. causing anthracnose disease in mango (<i>Mangifera indica</i>)
34	17:40-18:00	Lam Vy Nguyen : Lovastatin analogues of oyster mushrooms (<i>Pleurotus</i> spp.) in the southern Vietnam
35	18:00-18:20	Kittichon U-Taynapunn : Species diversity, tetracycline resistance and virulence factor gene profile of pathogenic <i>Aeromonas</i> spp. isolated from Nile tilapia seed farms in southern Thailand
36	18:20-18:40	Quyên Bt Ho : Biological characteristics of commercial oyster mushrooms (<i>Pleurotus</i> spp.) in southwestern Vietnam
37	18:40-19:00	Waritchon Ninlanon: Growth and survival of lactic acid bacteria during the fermentation of durian yogurt
38	19:00-19:20	Joannalyn Montemayor: Phytochemical analysis and antifungal activities of <i>Passiflora edulis</i> var. <i>flavicarpa</i> ON <i>Fusarium verticillioides</i>
39	19:20 -19:40	Phraeo Vijitrotai: Proximate analysis, phytochemical screening Mineral and germanium Analysis of different sources of <i>Ganoderma lucidum</i> (Reishi Mushroom) by spray dry

	Session 3	PLANT, WATER AND SOIL SCIENCES Chair persons: Chair: Prof. Zainal Muktamar (Indonesia) Co-chairs: Dr. Sutisa Chaikul (RBRU), Duanrung Benjamas (RBRU), Dr. Anurug Poeaim (Thailand) , Dr. Rungtawan Yomla (Thailand)
40	13:00-13:20	IS: Prof. Zainal Muktamar: Soil Nitrate Availability Pattern as Influenced by Application of Vermicompost Supplemented with a Liquid Organic Fertilizer
41	13:20-13:40	Catur Herison: Reliability of Seedling Stage Selection for Aluminium Stress Tolerance In Hot Pepper (<i>Capsicum annum</i> L)
42	13:40-14:00	IS: Prof. Fahrurrozi Fahrurrozi : Use of <i>Tithonia diversifolia</i> leaves for liquid organic fertilizer
43	14:00-14:20	IS: Sigit Sudjatmiko : Sweet corn root distribution under different fertilizer applications

44	14:20-14:40	Sefri Oktaviani : Coffee cherry's pulp variety and pulping delay time leading to cascara tea products
45	14:40-15:00	Muhammad Farid : Identification of soil porosity using geophysical and geotechnical observation for agricultural application
46	15:00-15:20	Merakati Handajansih : 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
47	15:20-15:40	Rathanon Lohsuwan : Effects of Draw Solution Concentration and Operating Factors on Forward Osmosis for Lime juice Concentration
48	15:40-16:00	Ramos, Jemaine Catherine T, Maluping, Lycka P, Polido, Kristiane P, Mancia, Abigail Faye V , Panganiban, Marian Jean T and Reaño, Consorcia E, Mendoza, Bernadette C : Bacterial Counts of Agro-ecologically and Conventionally Grown Salad Vegetables in Laguna and Quezon Provinces, Philippines, and Detection of <i>S. aureus</i> and <i>E. coli</i> Strains in Selected Vegetable Samples
49	16:00-16:20	IS: Dr. Bancha Wiangsamut : Effect of ethephon on fruit ripening and fruit components of durian cv. 'Monthong' after harvest
50	16:20-16:40	Varee Yoosumran : Micropropagation of young inflorescence Curcuma hybrid In vitro
51	16:40-17:00	Marwanto Marwanto : Reducing the Use of Mineral Fertilizer and Enhancing Growth Performance of Green Onion by Application of Pelletized Organomineral Fertilizer
52	17:00-17:20	Angel Deva : Understanding the response of antioxidant mechanisms to abiotic stress in the <i>Arabidopsis</i> Negev desert relative, <i>Anastatica hierochuntica</i>
53	17:20-17:40	Sandhya Rani : Crop Residue Management for Enhancing the Soil Health and Productivity in Red Sandy Loam Soils
54	17:40-18:00	Chamaiporn Anuwong : Effect of Timing and Storage Temperature on Pollen Viability and Pollen Germination in <i>Zephyranthes</i> Hybrid
55	18:00-18:20	Colenares Rohilyn E., Dianna May Asis, John Rey S. Rieza, and Benedict S. Tuazon : Metal Accumulation of Leguminous Crops In Mine Tailings of Camarines Norte, Philippines: Basis for Soil Remediation Strategies
56	18:20-18:40	Charanya Khaeksawad : 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.)

57	18:40-19:00	Suwichaya Chantarasaka: Identification of phenolic compounds and evaluation of biological activities of methanolic extracts obtained from two varieties of longan (<i>Dimocarpus longan</i>) peels
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	Session 4	ANIMAL, FISHERY SCIENCES AND RELATED FIELDS Chair persons: Chair: Prof. Fahrurrozi Fahrurrozi (Indonesia), Co-chairs: Dr. Ronachai Sitthigripong (KMITL,Thailand), Dr. Bhutharit Vittayaphattananurak Raksasiri (SU), Dr. Pantipa Na Chiangmai (SU), Dr. Yardrung Suwonnarat (RBRU)
58	13:00-13:20	IS: John Cassius Moreki: Organic indigenous chicken production and its perceived challenges"
59	13:20-13:40	Jinda Klin-Ubon : Effect of crude Vietnamese coriander (<i>Persicaria odorata</i>) extract supplementation in broiler diet on growth performance, carcass characteristics and meat quality
60	13:40-14:00	Kajit Mettamehtar : Effect of genetic groups and age on milk chemical composition from buffaloes
61	14:00-14:20	Tatik Suteky: The Preference of PE Goats on Poly-herbal Supplementation
62	14:20-14:40	Ruangyote Pilajun : Growth performance and nutrient digestibility of Thai native compared with Lowline Angus crossbred beef cattle fed with regional feedstuffs
63	14:40-15:00	Kajit Mettamehtar : Milk fatty acid profile from different genetic and age of buffaloes.
64	15:00-15:20	Rigos, LM. , EC. Atabay , EP Atabay,JPR. Apolinario: Determination Of Pregnancy Associated - Glycoproteins (Pags) During And Post Pregnancy In Riverine Buffaloes (<i>Bubalus bubalis</i> Linn.)
65	15:20-15:40	Panneepa Sivapirunthep : Yield Grading and Prediction of Semi-boneless Lean Percentage Using Carcass Traits of Fattening Culled Dairy Cattle in Thailand
66	15:40-16:00	Chittraporn yeapet :Effect of <i>Mucuna pruriens</i> leaves in dairy cow feed on gas production, digestibility and rumen fermentation by using in vitro gas production technique
67	16:00-16:20	Manatsanun Nopparatmaitree :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
68	16:20-16:40	Bhutharit Vittayaphattananurak Raksasiri : The effect of synbiotic supplementation in Thai native black-feathered chicken (Pradu Hang Dam) diets on production performance, intestinal histomorphology and carcass quality
69	16:40-17:00	Dwatmadji: Short-Term Herbal Supplementation on the Physiological Condition of Bali Cattle under the Oil Palm Integration System
70	17:00-17:20	

		Paitoon Kaewhom : Molecular Survey of <i>Theileria</i> spp. of Ruminant in Eastern border area of Thailand-Cambodia
71	17:20-17:40	Panneepa Sivapirunthep : Rib Eye Area and Sizes of Fattening Culled Dairy Cattle Determination Using Plastic Grid and Geometric Methods
72	17:40-18:00	Teerajet Laohasatian : Development of Loop-mediated Isothermal Amplification (LAMP) for rapid detection of Methicillin-resistance <i>Staphylococcus aureus</i> (MRSA) from dairy cattle
73	18:00-18:20	Manatsanun Nopparatmaitree : Dietary of Probiotic (Micromix® 3B Dry) and Organic Acid (Semalex®) Supplementation on Productive Performances, Intestinal Morphology, Carcass Characteristics, Meat Quality and of Broiler Chickens
74	18:20-18:40	Phimook Thiwaratkoon: The influence of fattening periods on chemical composition, fatty acid profile, cholesterol and ribonucleotide content of Charolaise crossbred steers
75	18:40-19:00	Waritchon Ninlanon: Effect of temperature storage on the quality of live mud crabs
76	19:00-19:20	Sukanya Jumanee: Influence of age on the incidence of white striping and wooden breast, carcass composition, physicochemical and texture profile of broiler chickens
77	19:20-19:40	Krittikarn Kamporn: Effect of strain and gender on production performance, carcass characteristics and meat quality of broiler chickens
78	19:40-20:00	Katatikarn Sahatsanon: Effects of feeding pineapple stem starch on meat quality, texture profile, nutrient composition, and collagen solubility of dairy beef steers.
	Session 5	Entomology and related fields Chair persons: Chair: Prof Dwi Wahyuni Ganefianti (Indonesia) Co-chaiors: Dr. Chongko Saetung (RMUTTO), Dr. Gopi Krishnan (India), Dr. N. Emmanuel (India), Dr. Kamronwit Thipmanee(KMITL,Thailand)
79	13:00-13:20	Agustin Zarkani : A First Record of Mealybug, Planococcus bendovi Williams (Hemiptera: Planococcus) in Southeast Asia
80	13:20-13:40	Sorphia Kummin: Adulticidal toxicity of trans-anethole and geranial from natural essential oils against house fly, <i>Musca domestica</i> (L.), Muscidae; Diptera
81	13:40-14:00	Nitchakan Mekha : 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
82	14:00-14:20	Khwunjira Chanasongcram: Larvicidal and ovicidal activities against <i>Aedes aegypti</i> (L.) of combinations between plant essential oils and their major constituent
83	14:20-14:40	Navasero M.M, <u>W.N.De Panis</u> , R.N. Candano, MV Navasero and MP Montecalvo :Predatory efficiency of <i>Euborellia</i> species against fall armyworm, <i>Spodoptera frugiperda</i> (J.E.Smith)(Lepidoptera:Noctuidae)

84	14:40-15:00	Tanapoom Mounghipmalai : Adulticidal activity against housefly (<i>Musca domestica</i> L, Muscidae:Diptera) of eucalyptol, limonene, and their combined formulations
85	15:00-15:20	Cheepchanok Puwanard: Ovicidal and adulticidal activities of <i>Cymbopogon citratus</i> (DC.) Stapf and <i>Illicium verum</i> Hook. f. against <i>Aedes aegypti</i> (Linn.)
86	15:20-15:40	Watcharaporn Takawirapat : Repellency of six plant essential oils against <i>Periplaneta americana</i> L. and <i>Blattella germanica</i> L.
87	15:40-16:00	Sukritta Anutrakunchai : Comparison of Bioformulation substances to <i>Bagrada hilaris</i> controls
88	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.
89	16:20-16:40	Praiyanut Noitubtim: Productivity of Five Entomopathogenic Nematodes in <i>Galleria mellonella</i> L. and Their Persistence in Soil under Laboratory Conditions
90	16:40-17:00	Dr. Donna Ria Josue-Canacan : Adoption of Integrated Pest Management (IPM) Technologies in Southern Philippines: Constraints and Motivations
91	17:00-17:20	Dr. Rose Josue : 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
92	17:20-17:40	Siraprapa Teangpa : Ovicidal effect against <i>Musca domestica</i> (L.) of several combinations of plant essential oils and their major constituent
93	17:40-18:00	Sempurna Ginting : Insect diversity in forest and beach ecosystems in pelabuhan ratu, sukabumi, west java
94	18:00-18:20	Priyatiningsih Priyatiningsih : Identification and Biology of Fruit Fly Attacking Some Citrus Varieties in Bengkulu
95	18:20-18:40	Kancharika Pilapang, Darin Dangrit and Rungtawan Yomla: Study on different concentrations and timing of 17 α -methyltestosterone to accumulate in water flea (<i>Moina</i> spp.) from lab-scale
96	18:40-19:00	Kalayanee Theeraphapsombut: Carcass quality traits and omega-3 content in different pork cuts from pigs fed a diet supplemented with linseed
97	19:00-19:20	Pattana Somniam : The Diversity of Terrestrial Earthworm in Agricultural Land and Adjacent areas, Uttaradit Province, Thailand

	Session 6	Agricultural Sciences and Biology Chair persons: Chair: Dr. Danilo Josue (Philippines), Co-chairs: Dr. Teodoro C. Mendoza (Philippines), Prof. Dwatmadji (Indonesia), Dr. Kannikar Charoensuk (RMUTTO, Thailand), Dr. Komkhae Pilasombut (KMITL,Thailand)
98	13:00-13:20	Kasem Soyong: The novel investigation of natural product nano-particles from fungi for plant immunity
99	13:20-13:40	IS: Mohammad Chozin: Progress in rice breeding for Indonesian swampland areas
100	13:40-14:00	Phumipat Sangkrabun : Effect of Drying Methods during Priming on Quality and longevity of Rice Seeds
101	14:00-14:20	Wasana Phlaetita: 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
102	14:20-14:40	Jisinee Vaiyanikorn : Larvicidal and pupicidal activities against <i>Aedes aegypti</i> L. (Diptera: Culicidae) of several combinations of plant essential oils and their major constituent
103	14:40-15:00	Dwi Wahyuni Ganefianti : Growth and yield of chili pepper stem cuttings under different compositions of inorganic fertilizer applications
104	15:00-15:20	Maluping, Lycka P , Ramos, Jemaine Catherine T , Polido, Kristiane P, Mancina, Abigail Faye V , Panganiban, Marian Jean T , Reaño, Consorcia E, Mendoza, Bernadette C : Heterotrophic and Coliform Counts, and <i>S. aureus</i> and <i>E. coli</i> Detection in Soil and Fertilizer Samples Obtained from Selected Vegetable Farms in Southern Luzon, Philippines
105	15:20-15:40	Hesti Pujiwati : 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
106	15:40-16:00	Edi Susilo : The Inhibition of Seed Germination Treated with Root Water Extract of Sorghum (<i>Sorghum bicolor</i> , L.) Cultivated in Histosols
107	16:00-16:20	Michael Jay Trapse : Functionality of Insulin Plant (<i>Costus igneus</i> N.E. Br.) Leaf Extracts
108	16:20-16:40	Wuri Prameswari: Natural plant growth regulator effects on the vegetative growth of long pepper (<i>Piper retrofractum</i> Vahl.)
109	16:40-17:00	Rustikawati Rustikawatin : Evaluation on Salinity Tolerance of New Maize Hybrids at Early Growth and Their Performance in Coastal Field
110	17:00-17:20	Prapasri Theprugsa : Research and Development of the Restructured Shrimp Product
111	17:20-17:40	Manigbas Norvie L. and Woon Goo Ha: Enhanced partnerships with farmers' associations, the key in sustaining rice productivity and income.
112	17:40-18:00	Bunny Soem : Influence of Organic Fertilizer on the growth of Arrowroot
113	18:00-18:20	Norden Lepcha : Cost and return analysis of organic potato in Gasa District, Bhutan
114	18:20-18:40	Mimi Sutrawati: Disease Incidence and Molecular Diversity of Tungro Virus on Rice (<i>Oryza sativa</i>) in Bengkulu, Indonesia
115	18:40-19:00	Muhammad Mustava: Biological Activity of Rhizobacteria from Rhizosphere <i>Acacia crassicarpa</i> A. Cunn ex Benth. In Timber Plantation Area

	Session 7	ENVIRONMENTAL SCIENCE, AGRICULTURAL EDUCATION AND DEVELOPMENT Chair persons Chair: Dr. Preeyanan Sittijinda (Thailand) Co-chairs: Dr. Adisak Singsewo (Thailand), Dr. Phattraporn Soyong (Thailand), Joselito Dar (Philippines), Prof. Dr. Pakkapong Pongsuk (Thailand) -
116	13:00 – 13:20	Professor Dr. Danilo Josue : Learning Farm Center for Organic Agriculture Education
117	13:20 – 13:40	IS: Prof. Dr. Pakkapong Pongsuk : Agricultural Skills for the Promotion of Future Careers of Special Students at Phrae Panyanukul School, Phrae Province
118	13:40– 14:00	Navasero J M M, A A Angeles, C B Adiova, and F E Merca :Effect of Black Soldier Fly, <i>Hermetia Illucens</i> (Linnaeus), Larvae on Production Performance, Egg Quality, and Nutrient Digestibility in Post-Peak Chicken Layers,
119	14:00 –14:20	Patticha Kulsuwan :The carbon footprint Assessment from Electricity in Amnatcharoen Province of Northeastern Thailand
120	14:20 – 14:40	Savuth Sem : System of Rice Intensification (SRI) vs. Chemical Intensive Rice Production:Which direction shall Cambodian rice agriculture be ?
121	14:40 – 15:00	Bhutharit Vittayaphattananurak : 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.
122	15:00 – 15:20	Garan, M.A., Salang, E.D, Tabal, E.P:Soil erosion rate estimates using USLE of selected corn producing areas in Barangay Vitali, Zamboanga City, Philippines
123	15:20 –15:40	IS: Dr Marie Fiesta: Environmental Awareness and the role of Bangsamoro Women on Environmental Preservation in Central Mindanao, Philippines
124	15:40 – 16:00	Isaac F.Sulonteh Magr : Improving Production Practices to Increase yield Liberian Rice
125	16:00 – 16:20	Tabal, E.P., Mendoza, C.T., Paelmo, R.F., Garcia, J.N., Visco, R. : Energy inputs and carbon emission equivalent of selected agroforestry systems in zamboanga city, Philippines
126	16:20-16:40	Sureporn Boonna: Physical properties and nutritional value of durian drink produced from by-products of durian chips process
127	16:40-17:00	Saduak, W. : Promotion of Vegetable Gardening for Household Food Storage during Covid-19 Pandemic of Farmers in Praibueng District, Srisaket Province.
128	17:00-17:20	Kantika Youngmanee : Composting of boiler-ash and biogas-sludge from the palm oil industry for use as plantlet growing media
129	17:20-17:40	Nuttanan Direksri : Important of marketing mix factors on consumer purchase decision towards organic rice of a community enterprise

130	17:40-18:00	Satria Utama : Factors Affecting Farmers' Decision in Using Subsidized and Non-Subsidized Seeds in Hybrid Corn Farming in Seluma Regency, Bengkulu Province
131	18:00-18:20	Jeeranun Khernkhan: Comparison of Cost and Return from Raw and Ripe Namdokmai Mango Planting of Large Plots in Bang Phli District, Samutprakarn Province
132	18:20-18:40	Hery Suhartoyo: Assessment of Socio-economic Aspects of Farmers under Social Forestry Program and its Environment: study case at Tanjung Alam Village, Kepahiang, Bengkulu, Indonesia
133	18:40-19:00	Thammanat Posiripong: Managememnt of organic sweet potato from production top markets

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

		Chair persons: Chair: James Kennard Jacob (Philippines) Co-chairs: Prof. Somdej Kanokmadhakul (KKU,Thailand), Dr. Raphael Okigbo (Nigeria) , Dr. Wanlada Klangnurak (KMIL,Thailand) , Rungrat Vareeket
134	13:00-13:20	IS: James Kennard Jacob : Exploring Plant Associated Endophytic Fungi as Source of Secondary Metabolites
135	13:20-13:40	Suteera Vatthanakul: Effect of Carboxymethylcellulose and Xanthan Gum on the Physicochemical and Sensory Properties of Passion Fruit Topping Sauce
136	13:40-14:00	Pramote Pornsuriya: Yield stability of new elite lines of yardlong bean (<i>Vigna unguiculata</i> (L.) Walp. ssp. <i>sesquipedalis</i> Verdc.)
137	14:00-14:20	IS:Nanik Setyowati : Allelopathy for Sustainable Weeds Management
138	14:20-14:40	Rungrat Vareeket : Rice disease immunity
139	14:40-15:00	Kannikar Charoensuk : Effect of Processing of Mangosteen (<i>Garcinia mangostana</i>) Puree on Nutrition, fiber and mineral contents of Mangosteen drink
140	15:00-15:20	IS: Dr. Rujira Tongon: Natural product nano-particles from <i>Chaetomium</i> for resistant of Durian Phytophthora rot
141	15:20-15:40	IS: Dr. Jiaojiao Song: The biodegradation natural product nano-particles derived from fungi to induce phytoalexin in rice
142	15:40-16:00	G. Bharathi : Molecular Divergence Analysis for Pre-Harvest Sprouting Resistance in Rice (<i>Oryza Sativa</i> L.) genotypes
143	16:00-16:20	Janejira Phakawan: Antimicrobial Enhancement of Red Onion Crude Extract using Epsilon-polylysine
144	16:20-16:40	Suriya Kosinwattana: Effect of Different Planting Materials Ratios on the Growth of Foliage Plants
145	16:40-17:00	Naruebet Meelua : Technical Efficiency of Rice Production in Klong Suan Sub-District, Bang Bo District, Samut Prakan Province, Thailand

146	17:00-17:20	Okigbo, R. N. and Ugwu, C. S. : Underutilized plants of africa
147	17:20-17:40	Krittiya Khuenpet: Development of Inulin Beads from Jerusalem Artichoke by spherification and reverse spherification techniques
148	17:40-18:00	Suriyasit Somnuek: In vitro effect of Callistemon viminalis and Melaleuca cajuputi ethanolic extracts as botanical fungicide and insecticide
149	18:00-18:20	Narumon Tangthirasunu: Application of organic soybean tempeh in raisin purple sweet potato cookie
150	18:20-18:40	Christopher Llonas: Influence of perceived risks on farmer's intention in the adaptation of sustainable farm practices. Evidence from rice farmers in Northern Thailand.
151	18:40-19:00	Nagia Ali: Improvement of wool dyeing quality and antimicrobial activity using nano forms of silver

Session 9 Advanced Research in Biological Agriculture

		Chair persons: Chair: Dr. Wikanya Prathumyot (RBRU) Prof. Sridhar Kandikere (India) Dr. Jatuporn Aroonkamonsri (RMUTTO) Dr. Somlit Vilavong (Lao PDR) Dr. Jiaojiao Song (China) -collector
152	13:00-13:20	IS: Prof. Sridhar Kandikere (India): Diversity of fungal spores in barkflow, throughfall and tree holes of two mangrove tree species of southwest India Karamchand, K.S., Sharathchandra, K. and Sridhar, K.R.*
153	13:20-13:40	Norden Lepcha: Macronutrients (NPK) and pH status in soil influenced by organic and conventional potato cultivation in West-Central Bhutan
154	13:40-14:00	Anuwat Lakyat: Ectoparasite species attacking chicken in eastern area of Bangkok, Thailand
155	14:00-14:20	Harry Jay Cavite: Supply chain structure and constraints of a rice production community enterprise: Evidence from rural Thailand
156	14:20-14:40	Karinporn Yodsene: <i>In vitro</i> Study of Antioxidant and Antimicrobial Activities of Soybean Tempeh and Split Gill Mushroom as Plant Based Protein
157	14:40-15:00	Pawat Seritrakul: Mitochondrial DNA analysis revealed genetic diversity of captive-bred hog deer (<i>Axis porcinus</i>) population in Thailand
158	15:00-15:20	Natthapon Jaisue: Distribution of Total and Available Sulfur under Durian Orchard Soils in the Eastern Thailand
159	15:20-15:40	Heejung Kim : Developing an International Cooperation Training Program and Designing Sustainable Agriculture Systems under the Climate Crisis Era.
160	15:40-16:00	Napassawan Fungsoonnoen : Survival of contaminated pathogenic bacteria in guava juice

161	16:00-16:20	Prapasri Theprugsa : Research and Development of the healthy ready-to-eat strip Chinese sausage
162	16:20-16:40	Sarocha Phopajit : Effects of Chicken Manure and Chemical Fertilizer on Growth and Yield of Japonica Rice
163	16:40-17:00	Phatthira Sakamut : Improvement of Threadfin bream (<i>Nemipterus</i> spp.) surimi gel properties by electron beam irradiation
164	17:00-17:20	Nantawan Inban : Effects of Calcium Sources on Physiological Traits Related to Pod and Seed Yield of Peanut
165	17:20-17:40	Kittiya Showpanish : Anti-Streptococcus suis Bacteriocin Produced by Lactic Acid Bacteria from Thai Fermented Vegetable Products
166	17:40-18:00	Suworanee Pancharoenn : Effect of ingredients, storage temperature and time on texture properties and retrogradation rate of butter cake
167	18:00-18:20	Jatuporn Anuchai: Determination of biochemical activities of <i>Dendrobium</i> spp.
168	18:00-18:40	Patrick Paul Rocha: Phytochemical Screening of Indigenous Plants Utilized by Agta Community in Aurora, Philippines
169	18:40-19:00	Person Pesona Renta: Growth of <i>Amphora</i> sp. cultured on agar plates by streak plate technique

Session 10 Advanced Development in Agricultural Sciences

		<p>Chair persons: Chair: Dr. Naruemon Mongkontanawat (RMUTTO) Co-chairs: Prof. Ivan Tarakanov (Russia), Prof. Vadim Fedorov (Russia), Dr. Nithya Priya (India) Dr. Rujira Tongon (Thailand)</p>
170	13:00-13:20	Bandi Hermawan (Indonesia) : Soil-Controlling Irrigation System for Water Use Efficiency in Agricultural Dry Land
171	13:20-13:40	Tanthai Waiphanta : Application of nanoparticle derived from active metabolites for controlling leaf blight of super sweet corn.
172	13:40-14:00	Racha Tepsorn: Kinetic Reduction of <i>Salmonella</i> Typhimurium on Radish sprouts (<i>Raphanus sativus</i> L.)
173	14:00-14:20	Sujitra Jorjong : Effect of Paclobutrazol on yield and quality of Mao laung (<i>Antidesma thwaitesianum</i> Müll. Arg.) Cultivars
174	14:20-14:40	Apisit Chittawanij: Study of B iochar on Growth and Yield of Choy Sum (<i>Brassica chinensis</i> L.var <i>parachinensis</i>)
175	14:40-15:00	Darinthip Thiphinkong : Effect of Seed Coating with Fluorescent Compound on Quality and Fluorescence of Cucumber seeds
176	15:00-15:20	Marlin Marlin : Acclimatization of Micropropagated <i>Dendrobium</i> sp with The Application of Organic Fertilizer
177	15:20-15:40	Racha Tepsorn: Antimicrobial Susceptibility of Chili Extract against Foodborne Pathogens and Food Related Bacteria
178	15:40-16:00	Sarocha Thongmakha : Application of nanoparticles derived from antagonist for controlling tomato wilt caued by <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i>

179	16:00-16:20	Nontawan rawangpai :Application of nanoparticles derived from antagonist to control anthracnose of chilli.
180	16:20-16:40	Pettida Malai :Application of nanoparticles derived from antagonist to control brown leaf spot of rice
181	16:40-17:00	Theeraphol Senphan : Extraction and antioxidant activities of broken <i>Ganoderma lucidum</i> spore
182	17:00-17:20	Dilek KAYA ÖZDOĞAN, Çağlar SAGUN, Atilla POLAT, Vecihe İNCIRKUŞ ¹ , Emre KARMAZ : Genetic Characterization of <i>Rhizobium</i> Bacteria Isolated From Bean Nodules and Its Effect on Soil Quality
183	17:20-17:40	Gökhan UÇAR, Çağlar SAGUN, Younes REZAE DANESH : Effect of <i>Funneliformis mosseae</i> Fungal Species on Root Growth of Lettuce Under Salt Stress Condition
184	17:40-18:00	Aynur DILSIZ, Çağlar SAGUN, Younes REZAE DANESH ^{1,2} , Dilek KAYA ÖZDOĞAN : Status of Arbuscular Mycorrhizal Fungi Populations in Some Pastures of Ankara Region, Turkey
185	18:00-18:20	Quang Le Dang: SCREENING OF PLANT EXTRACTS OF <i>DESMODIUM</i> SPECIES AND CHARACTERIZATION OF THEIR ACTIVE CONSTITUENTS WITH <i>IN VITRO</i> AND <i>IN VIVO</i> ANTIFUNGAL ACTIVITY AGAINST VARIOUS PHYTOPATHOGENIC FUNGI.
186	18:20-18:40	Salit Supakitthanakorn: Detection of CVB, CChMVd and CSVd mixed infections in chrysanthemum using multiplex nested RT-PCR
187	18:40-19:00	Anandyawati Anandyawati: Quality Comparison of Livestock Waste Through Vermicomposting with the help of <i>Lumbricus rubellus</i>
188	19:00-19:20	Elviana Manalu: Potential of PGPR isolated from the rhizosphere of pulpwood trees in stimulating the growth of <i>Eucalyptus pellita</i> (F. Muell)

Session 11 Advanced Development of Biological Technology

		Chair persons: Chair: Prof. Bandi Hermawan (Indonesia) Co-chairs: Dr. Wichai Supalucksana (Thailand), Dr. Virapol Jamsawat, (Thailand), Dr. Pornpan Sukhumpinij (RBRU) Dr Hoang ND Pham (Vietnam)
189	13:00-13:20	IS: Dr Hoang ND Pham : Ectomycorrhizal communities of pine forest in south Vietnam and applying foe reforestation.
190	13:20-13:40 fix	Vu Xuan Tao, <i>et al.</i> : 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> .

191	13:40-14:00	Suteera Vatthanakul : Effects of Hydrocolloid Addition on the Quality of Cookies Substituted Wheat Flour with Sinin Rice Flour
192	14:00-14:20	Cruz, M. K. R. and Paelmo, RF : Effect Of Biostimulants On Arize Bigante And NSIC Rc222 Growth And Development at Calauan, Laguna, Philippines
193	14:20-14:40	Jawanchanok Preesong : Changes in soil properties affected by rice stubble burning in Bangkok soil series
194	14:40-15:00	Ariefa Primair Yani : Identification of soil insect diversity in the turtle conservation area, bengkulu university
195	15:00-15:20	Chirasak Phoemchalard : The effects of sous-vide cooking on the physicochemical, microbiological, and carbon footprint of buffalo meat at various temperatures and times
196	15:20-15:40	Cabalse, ELH and Roselyn Furoc-Paelmo RF: Enhancing Productivity Efficacy Of Fungicide Application At Different Growth Stages Of Two Rice (<i>Oryza Sativa</i> L.) Varieties Cultivated In Calauan, Laguna, Philippines
197	15:40-16:00	Bootsrapa Leelawat : Development of Soft Cookie from Pregelatinized Banana Flour and Germinated Brown Rice
198	16:00-16:20	Unnop Tassanaudom : 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)
199	16:20-16:40	Onanong Bunserm : Antibacterial and anti-biofilm formation activities of high heat tolerant herbal extracts against white feces syndrome-associated <i>Vibrio parahaemolyticus</i>
200	16:40-17:00	Atra Romeida : In vitro shoot proliferation of Mangosteen's micro shoots using combination of 6-Benzylaminopurine and 1-Naphthaleneacetic concentrations.
201	17:00-17:20	Thitaree Lengnuy :Application of nanoparticles derived from antagonist to control leaf spot of salad
202	17:20-17:40	Wijitra Pachpong :Appliacation of different raw materials for organic oyster mushroom cultivation
203	17:40-18:00	Pheakra Phal : Biological control of Durian rot caused by Pythium using <i>Trichoderma hamatum</i>
204	18:00-18:20	Arunrussamee Sangsila : Isolation and characterization of actinomycetes with antibacterial and plant growth-promoting activities from maoberry cultivated soil in Northeast Thailand
205	18:20-18:40	Solmaz NAJAFI, Mehmet ÜLKER, Fevzi ALTUNER, Erol ORAL, Burak ÖZDEMİR : Karyological Analysis on Tir Wheat Ecotypes In Van Region, Turkey
206	18:40-19:00	Chaowanee Laosutthipong: Partial Sequence Analysis of Cellulose Synthase <i>OsCESA4</i> and <i>OsCESA9</i> Genes in Native Upland Rice, Thailand

19:40

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”