

Program
The 10th Rajamangala University of Technology International Conference
July 24-26, 2019
Chiang Mai International Exhibition and Convention Center,
Chiang Mai, Thailand

July 24, 2019	
08.00 - 09.00	Conference Registration
Ratchaphruek Convention Hall	
09.00 - 09.30	Opening Ceremony
09.30 - 10.30	Special presentation “Role of the Royal Development Projects on creative economic and society” <i>General Kampanat Ruddidit, Privy Councilor</i>
10.30 – 11.00	Special presentation “Mission and roles of university and researchers on new research contexts” <i>Dr. Silaporn Buasai, Committee on Networking for Area Based Reform for the Royal Thai Government</i>
11.00 – 11.30	Enzymes for plant cell wall synthesis, remodeling and recycling. <i>Prof.Dr.James R.Ketudat-Cairns</i>
11.30 – 12.00	Work-related learning and TVET as a self-reliant academic discipline. <i>Dr. René Kräenbring</i>
12.00-13.00	Lunch
Oral Presentation	
Room A1 Topics 1: Plant Science	
Chairman: Prof.Dr. Kong Baohua Secretary: Asst.Prof.Dr. Chanulak Khanobdee	
13.00-13.30	Seasonal variation and detection frequency of <i>Candidatus Liberibacter asiaticus</i> in Binchuan, Yunnan province, China <i>Shahzad Munir, Yongmei Li, Pengfei He, Xingyu Li, Pengbo He, Pengjie He, Wenyan Cui, Yixin Wu and Yueqiu He</i>
13.30-14.00	Adaptation of the newly isolated cotton mutants to the Cambodia’s climate condition <i>Tory Chhun, Sreyleak Touch and Rithy Ren</i>
Chairman: Prof. Yixin Wu Secretary: Asst. Prof.Dr. Malee Thungrabeab	
14.00-14.30	Combining ability analysis of fruit yield and downy mildew resistance in organic system of short cucumber (<i>Cucumis sativus L.</i>) <i>Chanulak Khanobdee and Chaiwat Pongsukhumalkul</i>
14.30-15.00	Effects of fine bubbles on growth and yield of red oak lettuce in summer season <i>Chiti Sritontip, Parinyawadee Sritontip, Sunti Changjeraja, Yuttana Khaosumain, Vishnu Thonglek and Rungrawan Tana</i>
15.00-15.20	Coffee break
Chairman: Dr. Tory Chhun Secretary: Assoc. Prof.Dr. Chiti Sritontip	
15.20-15.50	Study on plant phyllosphere fungal community in tropic rainforest of Xishuangbanna, China

	<i>Kan Wang, Xu Shanshan, Kong Baohua, Yang Taiyuan, Liu Yue, Wang Lianchun, Li Hongxiang, Tan Yuanhua, Wu Dexi and Li Chengyun</i>
15.50-16.20	Effects of micro nano-bubble for surface sterilization on shoot tip of <i>Rhynchostylis Hybrid orchid in vitro</i> <i>Dang Cong Du, Siripun Sarin, Dang Van Dong and Aphichat Chidburee</i>
Chairman: Prof.Dr. Yueqiu He Secretary: Asst. Prof.Dr. Aphichat Chidburee	
16.20-16.50	Lines comparison and effect of inbreeding on fruit characters of lines developed from an open-pollinated sweet melon population <i>Pramote Pornsuriya, Pornthip Pornsuriya, Apisit Chittawanij and Patiyut Kwan-on</i>
Room A2 Topics 2: Agricultural Technology	
Chairman: Dr.Pham Huu Ty Secretary: Asst.Prof. Kanokwan Vechgama	
13.00-13.30	The implementation of gas monitoring sensor networks with information centric ranking diffusion systems <i>Sutthisak Sukhamsri and Yi-Ling Chen</i>
13.30-14.00	Green synthesis of iron nanoparticles using plant crude extracts as reducer for removal of acriflavine <i>Wachira Yodthong and Tanongsak Sassa-deepaeng</i>
Chairman: Prof.Dr. Yi-Ling Chen Secretary: Dr. Sakuntala Saijai	
14.00-14.30	Exploring genome-wide protein-protein interaction network of cassava KU50 toward the understanding in high starch yield cultivar <i>Ratana Thanasomboon, Supatcharee Netrphan, Saowalak Kalapanulak and Treenut Saithong</i>
14.30-15.00	Physical and mechanical properties of cassava stem as related to cutting <i>Sahapat Chalachai, Rangsan Kudsamrong, Srima Jakham and Pongpat Singsri</i>
15.00-15.20	Coffee break
Chairman: Acting Sub Lt. Dr.Tanongsak Sassa-deepaeng Secretary: Dr. Tunyaluk Boaphan	
15.20-15.50	Screening and selection of microbial consortia in application of organic hydroponics <i>Sakuntala Saijai</i>
15.50-16.20	Eco-packaging from compressed fiber boards made by the composites of water hyacinth, rice husk, and coconut husk <i>Duongruitai Nicomrat, Phattaraporn Krutsutha, Aditad Eamrucksaa, Supanida Teerachagueagool, Patarika Soongsombat, Natchamai Luckamnuyporn and Manoch Lakthandee</i>
Chairman: Dr. Pakorn Chan-in Secretary: Dr. Pat Pranamornkith	
16.20-16.50	Application of remote sensing and GIS to assess changes in coastal forest land areas, coverage, and its relation to socio-economic-environmental issues in Thua Thien Hue province, Vietnam <i>Pham Huu Ty, Nguyen Ngoc Thanh and Pham Thi Trieu Tien</i>
16.50-17.20	Effect of xylanase supplementation into cellulase on enzymatic saccharification of alkaline pretreated rice straw;

	<i>Apichai Sawisit, Kaemwich Jantama, Surawee Jampatesh, Siripuk Ritnamkam, Kitipong Wechgama, Natanong Yodsing, Rawintra Eamrat, Sukanya Lapkratok, Sukanya Mingyai and Sarayoot Todnatee</i>
17.20-17.50	Thermoelectric unit for the exhaust heat engine energy recovery; <i>Prasert nonthakarn</i>
Room A3 Topics 3: Animal Science and Fishery	
Chairman: Prof.Dr.L. Avendaño-Reyes Secretary: Assoc.Prof.Dr. Kecha Kuha	
13.00-13.30	Sheep and goats in tropical and sub-tropical agricultural systems-diverse products and profits <i>A.K.Thiruvankadan</i>
13.30-14.00	Pig's diets containing tropical fiber-rich feedstuffs characterized through <i>in vitro</i> simulation of small intestine digestion and colon fermentation <i>Quan Hai Nguyen, Phung Le Dinh, Ngoan Le Duc and Veerle Fievez</i>
Chairman: Prof. Dr. A.K.Thiruvankadan Secretary: Asst.Dr. Nitima Chalermson	
14.00-14.30	Milk production in arid regions: environmental management to mitigate heat stress during the dry period <i>L. Avendaño-Reyes, A. Correa-Calderón, U. Macías-Cruz and J.A. Hernández-Rivera</i>
14.30-15.00	Improvement of biology lesson in high school through collaboration of veterinary school Universitas Brawijaya and SMAN 8 Malang <i>Fajar S. Permata, Analis W. Wardhana, Herlina Pratiwi, Dyah A.O.A. Pratama, Albiruni Haryo, Galuh C. Agustina and Agung P.W. Marhendra</i>
15.00-15.20	Coffee break
Chairman: Dr. Fajar S. Permata Secretary: Dr. Quan Hai Nguyen	
15.20-15.50	A Survey of entomopathogenic fungi in a natural trail in a beach forest at Rajamangala University of Technology Srivijaya, Trang Campus <i>Amornrat Angajchariya, Arkhom Kutfan, Sutkanung Naranong, Suwit Jitpukdee, Tuanjai Piyang and Wigunda Rattanapan</i>
15.50-16.20	Effect of peanut seedling supplementation in layer chicken diets on egg production and egg quality <i>Piyamas Tancharoenrat and Suraphon Chaiwongsa</i>
Room A4 Topics 4: Food Science and Technology	
Chairman: Dr.Nguyen Van Hue Secretary: Asst. Prof. Dr. Ni-orn Chomsri	
13.00-13.30	The isolation and identification of lytic bacteriophages and their potential as biocontrol of pathogenic bacteria of <i>Salmonella Typhimurium</i> <i>Agustin Krisna Wardani, Lilis Purwanti, Nur Latifatul Qodriyah and Aryandi Ramadhan</i>
13.30-14.00	Effect of temperature on biofilm formation of foodborne pathogenic bacteria on food contact surfaces <i>Wachiraporn Wachiradusit, Phanida Saikhwon and Pumnat Chuenchomrat</i>
Chairman: Dr. Erni Sofia Murtini Secretary: Dr. Sutthida Punya-in	
14.00-14.30	Studying on the effects of drying methods on the quality of avocado powder

	<i>Nguyen Van Hue, Vo Thi Thu Hang and Vo Thi Tram</i>
14.30-15.00	Effect of chitosan-based coating with <i>Dimocarpus longan</i> var. obtusus seed extract on chicken sausage during refrigerated storage <i>Sojirat Namwicha, Tassaney Kedkaew and Viriya Nitteranon</i>
15.00-15.20	Coffee break
Chairman: Dr. Agustin Krisna Wardani Secretary: Asst. Prof. Dr. Jirapa Pongjunta	
15.20-15.50	Fermentation of pickled lettuce by selected lactic acid bacteria <i>Titinat Intachot, Ananthaya Sansawat, Nipaporn Kanthong</i>
15.50-16.20	Production of corn milk from local corn in Hue city <i>Huynh Thi Kiem Lien, Nguyen Thi Van Anh and Nguyen Van Hue</i>
16.20-16.50	The utilization of carbonized rice straw as dye and texture improver for traditional Indonesian food <i>Erni Sofia Murtini, Sudarminto Setyo Yuwono, Hendrix Yulis Setyawan</i>
Poster Presentation	
13.00 - 17.20	Exhibition Hall
The study of electrochemical behavior and characterization of lead sensor based on nanochitosan- rotating gold disk modified electrodes <i>Rattiya Saradit and Supamas Intharit</i>	
Influence of inclusion levels of rice wine residual on carcass quality of broiler chickens <i>Benya Saenmahayak, Smerjai Bureenok and Chalermpon Yuangklang</i>	
Effect of metabolizable energy and balance essential amino acids with reduced crude protein levels on egg quality of brown laying hens <i>K.soisuwan and N.Chauychuwong</i>	
Preliminary properties of probiotic drinks with oligofructose <i>Nutthaya Srisuvor</i>	
Influence of different process operations on physicochemical properties of ready-to-drink Namdaeng (<i>Carissa carandas</i> L.) juice <i>Ni-orn Chomsri and Kamonwan Manowan.</i>	
Effect of ethanolic extract of roselle (<i>Hibiscus sabdariffa</i> Linn.) on bactericidal activity against antibiotic-resistant <i>Aeromonas</i> spp. isolated from Nile tilapia (<i>Oreochromis niloticus</i>) <i>Natnicha Mueangkan, Nion Chirapongsatonkul and Kittichon U-taynapun</i>	
Influence of drying conditions on properties of ripened fruit extracts of <i>Basella alba</i> L. <i>Yaowapa Kwamman, Chopaka Thurasuk and Seksan Mangkalan</i>	
Effect of micro and nanobubbles in fed-batch fermentation on <i>Saccharomyces cerevisiae</i> growth <i>Ammarit Seeklom, Vishnu Thonglek and Ni-orn Chomsri</i>	
Isolation and characterization of endophytic bacteria from sugarcane and their antagonistic activity <i>Nittaya Pitiwittayakul, Duanpen Wongson and Somboon Tanasupawat</i>	
Environmentally friendly dehumidifying product using silica extracted from bamboo leaves <i>Patarika Soongsombat, Duongruitai Nicomrat, Thapakorn Wongprayoon, Siritwan Phomketjan, Woravith Chansuvarn and Natchamai Luckamnuyporn.</i>	
Effect of roasting on characteristics of arabica coffee <i>Pattarabhorn Pakaweerachat</i>	
Genetic diversity of the <i>Leather Donax</i> (<i>Donax scortum</i>) living in the Andaman sea coast of Thailand <i>Verakiat Supmee, Worawitoo Meesook, Juthamas Suppapan and Apirak Songrak.</i>	
Feasibility and acceptability of defatted rice bran flour substitute in cracker product <i>Nisufyan Nimaming</i>	
Plant hormone (Indole-3-Acetic Acid - IAA) producing by <i>Aspergillus</i> sp. TKR1 and their effects on tomato seed germination <i>Natanong Yodsing, Kitipong Wechgama and Sukanya Mingyai</i>	

The virtual panorama 360° of Thai historical and religious in lower north provinces for sustainable ecotourism <i>Sutthisak Sukhamsri</i>	
Preliminary study of antibacterial activity of <i>Tiliacora triandra</i> and <i>Antidesma thwaitesianum</i> leaf extracts <i>Thitiporn Anunthawan and Nisa Romsomsa</i>	
Development of Arduino Uno R3 with analog electrical conductivity, temperature and pH sensor for monitoring aquarium water quality <i>Suwan Janin, Pradit Ramatchima, Somkiat Tanta and Ruangpun Supmee</i>	
18.00 – 21.00	Welcome party

July 25, 2019	
08.00 – 12.00	Field Trips
12.00 – 13.00	Lunch
13.00 – 17.00	Field Trips

July 26, 2019	
08.30 – 09.00	Ratchaphruek Convention Hall
09.00 – 10.00	Sustainable animal production based on advanced knowledge <i>Prof.Dr. Liang Chou Hsia</i>
10.00 – 10.30	Chalking effect on rice on the high temperature setting (climate change adaptation) <i>Karuniawan Puji Wicaksono</i>
10.30 – 12.00	Role of cannabis extract on human life quality <i>Dr.Gamhom Nalanchangs</i>
12.00 – 13.00	Lunch
13.15 – 15.00	Awarding of outstanding oral and poster presentations Closing ceremony <i>Seensiri Sa-Ngajit</i> <i>Acting the President of RMUTL</i>