



Time	Program
Venue: 1 st International Conference Hall, 4 th Floor, Yuh-Gang Memeto Library	
08:30 – 09:00	Registration
	Opening
09:00 – 09:05	Conference Secretariat, Dr. Albert Linton Charles
	Welcome Address:
09:05 – 09:15	Dr. Yuan-Kuang Guu, NPUST President, Taiwan Dr. Suwit Laohasiriwong, NPU President, Thailand
09:15 – 09:20	Group photo & souvenirs for keynote speakers
	Plenary Speech: Plant Science
	Darshan Singh Brar , PhD - Punjab Agricultural University, India
09:20 – 09:50	Increasing Productivity and Sustainability of Tropical Crops Using Biotechnological Approaches Chairperson: Stanly Chen, PhD
	Plenary Speech : Veterinary Science
	Julius L. C. Chulu , PhD - Central Veterinary Laboratory, Malawi, Africa
09:50 – 10:20	The Control of Newcastle Disease in Malawi Using a Thermostable Vaccine Chairperson: Philip Cheng, PhD
	Plenary Speech : Agriculture Engineering
	Traore Seydou , PhD - Ministry of Research & Scientific Innovation of Burkina Faso, Africa
10:20 – 10:50	Socio-Economical Model for Improving Small Scale Irrigation Water Productivity in Climate Adaptation in Sahel Chairperson: Yu-Ming Wang, PhD
10:50 – 11:00	Coffee Break
	Plenary Speech : Food Engineering and Management
	Carlos Eduardo Hernandez , PhD - Universidad Nacional de Costa Rica, Heredia, Costa Rica
11:00 – 11:30	The Evolution of an Entrepreneurial Network: Curriculum Implications for Taiwan's International Educational Programs in the Promotion of Tropical Agribusinesses Chairperson: Rebecca Chong, PhD
11:30 – 12:00	Poster Exhibition
12:00 – 13:00	Lunch Time Venue: Meeting Room , Department of Forestry
13:00 – 13:30	Poster Exhibition
	Plenary Speech : Agribusiness Management
	Aree Wiboonponges , PhD - Faculty of Agriculture, Chiangmai University, Thailand
13:30 – 14:00	Agribusiness Management Beyond the Knowledge-base Chairperson: Wen-Chi Huang, PhD



Time	Program
14:00 – 15:00	Session A : Agriculture Engineering Venue: 1st International Conference Hall, 4 th Floor, Yuh Gang Memeto Library Chairperson: Traore Seydou, PhD
	Session B : Animal Science, Aquaculture, Veterinary Science Venue: 2 nd International Conference Hall, 4 th Floor, Yuh Gang Memeto Library Chairperson: Hsi-Hsun Wu, PhD
15:00 – 15:15	Coffee Break
15:15 – 16:15	Session C : Life Science Venue: 1st International Conference Hall, 4 th Floor, Yuh Gang Memeto Library Chairperson: John Chen, PhD
	Session D: Agribusiness Management Venue: 2 nd International Conference Hall, 4 th Floor, Yuh Gang Memeto Library Chairperson: Pei-Chun Lai, PhD
	Session E: Graduate Students presentation Venue: LB202, 2nd Floor, 4 th Floor, Yuh Gang Memeto Library Chairperson: Susana Lin, PhD
16:20 – 16:45	Open Forum – Round table discussion Venue: 1st International Conference Hall, 4 th Floor, Yuh Gang Memeto Library
16:45 – 17:00	Closing Remarks and Award Ceremony
17:00 – 20:00	Gala Dinner (By Invitation) Venue: NPUST Guest Hall



ISAT2013

International Symposium on Agriculture in the Tropics 2013.
Development and Future Goals for Agricultural Systems in the Tropics
National Pingtung University of Science and Technology
Department of Tropical Agriculture and International Cooperation
May 30, 2013

ISAT2013 Agenda

Session A. Agriculture Engineering

Venue: 1st International Conference Hall

Time: 14:00 – 15:00

Chair : Traore Seydou, PhD

Code and Time

Titles and Authors

AE003-O 14:00 – 14:15	Biochars Characterization and their Agronomic Properties Effect on the Growth of Water Spinach in a Field Test Odette Varela Milla, <u>Wu-Jang Huang</u>
AE002-O 14:15 – 14:30	Greenhouse Environment Control Digital Monitoring System for Fruits and Vegetables <u>Li-Duhng Huarng</u> , Geng-Peng Chang
AE001-O 14:30 – 14:45	Measurement of Moisture Content for Rough Rice by Visible and Near-Infrared (NIR) Spectroscopy Adcha Heman, <u>Ching-Lu Hsieh</u>
AE004-O 14:45 – 15:00	Effects of Alternate Wetting and Drying Technique on Paddy Rice Growth and Water Productivity <u>Aime Severin Kima</u> , Wang Yu-Min

Session B. Animal Science

Venue: 2nd International Conference Hall

Time: 14:00 – 15:00

Chair: Hsi-Hsun Wu, PhD

Code and Time

Titles and Authors

ASA001-O 14:00 – 14:20	Differential Thermotolerance of Somatic Cells Derived from Cloned Cattle Reconstructed with Recipient ooplasm and Donor Nucleus from Different Bovine Breeds <u>Jai-Wei Lee</u> , Wei Lin, Perng-Chih Shen
ASA002-O 14:25 - 14.45	Genomic Selection for Farm Animal in Taiwan <u>Hsiu-Luan Chang</u> , Ming-Che Wu

Session C. Life Science

Venue: 1st International Conference Hall

Time: 15:15 – 16:15

Chair : John Chen, PhD

Code and Time

Titles and Authors

PSH001-O 15:15 – 15:30	Effect of Collection Time and Sucrose Concentration on Pollen Germination and Viability of Two Melastomataceae Species (<i>Tibouchina semidecandra</i> and <i>Medinilla hayataina</i> Keng.) <u>Amornrat Changkwian</u> , Ching-Hsiang Hsieh
PSH003-O 15:30 – 15:45	Coir as an Alternative to Peat moss in soilless strawberry (<i>Fragaria x ananassa duch</i>) cultivation <u>Brontie Tucker</u> , Yunn-Shy Ho
PSH002-O 15:45 – 16:00	Characterization of a Rigid Rod-Shaped Virus Isolated from Frangipani (<i>Plumeria sp.</i>) Showing Mosaic Symptom in Taiwan <u>Fery Abdul Cholig</u> , Tsang-Hai Chen, Liliek Sulistyowati
FS002-O 16:00 – 16:15	Lactic Acid Production from Molasses Renewable Raw Material by Microbial Biotechnology <u>Korawit Chaisu</u> , Charles, A. Linton, Guu, Y. Kuang, Tsair-Bor Yen, Chiu-Hsia Chiu



Session D. Agribusiness Management		Venue: 2nd International Conference Hall
Time: 15:15 – 16:15		Chair: Pei-Chun Lai, PhD
Code and Time	Titles and Authors	
AM001-O 15.15 - 15.27	Climate Change and Extreme Climate Influence on Rice, Maize, and Wheat Yields and Yield Variability in Nepal <u>Mahadeb Prasad Poudel</u> , Shwu-En Chen	
AM009-O 15.27 - 15.39	Green Innovation and Ethical Practices of Agricultural Small and Medium-sized Enterprises (SMEs) <u>Wen-I Chang</u>	
AM003-O 15.39 - 15.51	Revealed Comparative Advantages and Competitiveness between Brazil and ASEAN Countries in the World Market of Sugar <u>Henidiah Fitriana</u> , Wen- Chi Huang, M. Muslich Mustadjab	
AM007-O 15.51 - 16.03	The Factors that Influence the Adoption of Conservation Farming Potatoes (<i>Solanum tuberosum</i> L.) in Bumiaji, Batu - Indonesia <u>Novil Dedy Andriatmoko</u> , Nuhfil Hanani, Rosihan Asmara	
AM002-O 16.03 - 16.15	Competitiveness of Indonesian Shrimp Export in the Liberalized Market <u>Lina Asmara Wati</u> , Wen-I Chang, Moch Muslich M	
Session E. Graduate Student Presentations		Venue: LB202, Library
Time: 15:15 – 16:15		Chair: Susana Lin, PhD
Code and Time	Titles and Authors	
AM008-O 15.15 - 15.27	Ecotourism Development Factors in Makmur Abadi Farmers Group, Batu – Indonesia <u>Imaniar Ilmi Pariasa</u> , Syafrial, Nur Baladina	
AM006-O 15.27 - 15.39	Corn Market Situation in East Java – Indonesia: Price and Trend <u>Riza Rahimi Bachtiar</u> , Ratya Anindita, Silvana Maulidah	
AM005-O 15.39 - 15.51	Analysis of Inputs that Affect Maize (<i>Zea mays</i> L.) Production and Feasibility of Maize Farm Management in Sub-District Bangkalan, Bangkalan, East Java, Indonesia <u>Riyan Adiputra Setiawan</u> , Suhartini, Effy Yuswita	
LS004-O 15.51 - 16.03	Effect of Fermentation on the Compositional Changes and Insulin Signaling Pathway Regulating Activity in HepG2 cell Line of <i>Cinnamomum osmophleum</i> Kaneh Leaves <u>Adelya Desi Kurniawati</u> , Tzou-Chi Huang, Joni Kusnadi	
LS001-O 16.03 - 16.15	Study on Angiotensin-I Inhibitory Peptide Derived from Proteolytic Digest of Soft-Shell Turtle Egg White <u>Aisha</u> , Aulanni'am, Jue-Liang Hsu	



Content of Poster Presentation

Poster Abstracts	PLANT SCIENCE
PSH001-P	Transcriptome Analysis of <i>Amentotaxus formosana</i> Using Next-Generation Sequencing Wan-Hsuan Tseng, Yueh-Feng Liu, Kuo-Hsiang Hung
PSH002-P	<i>In Vitro</i> Plant Regeneration of <i>Bletilla formosana</i> (Hayate) Schltr through and Organogenesis Minh-Khiem, Nguyen
PSH003-P	Developments of Rice Cell Suspension Culture and a Novel Strategy for Screening New Resistant Lines to Rice Blight Caused by <i>Xanthomonas oryzae</i> pv. <i>Oryzae</i> Restu Rizkyta Kusuma, Yi-Hsien Lin, Chiu-Chsiung Cheng
Poster Abstracts	FOOD SCIENCE
FS001-P	Immunostimulatory Activities of Exopolysaccharide Produced by <i>Pediococcus pentosaceus</i> Isolated from Taiwanese Fermented Pork: Involvement of the NF-κB pathway Nuttapoom Noomhorm , Albert Linton Charles, Tzou-Chi Huang
FS003-P	Utilization of Microbial Fermentation to Improve the Odor of <i>Morinda citrifolia</i> Wan Jung Lin, Tzou Chi Huang
FS004-P	Chemical Derivatization and its Application in LC-MS/MS Analysis of Fatty Acids Hsiang-Ming Ho, Jui-Liang Hsu
FS005-P	Lemon Marinating lowers Chemical and Microbiological Risks of Marinated Tilapia (<i>Oreochromis niloticus</i>) Guadalupe María Arce, Albert Linton Charles
FS006-P	Screening Anti-microbial Compounds from <i>Houttuynia cordata</i> Chiuan-Yi Liou, Jue-Liang Hsu
FS007-P	Physicochemical Properties of Flours of Natural and Microbial Fermented Cassava (<i>Manihot esculenta</i>, Crantz) Ousman M. Jarju, Albert Linton Charles
FS008-P	Functional Iron-Fortified Whey Beverage for School Lunch Programs in Central America Alejandra Mencía, Mei-Jen Lin, Albert Linton Charles
FS009-P	Bio-Transformation Techniques to Develop Novel Foods in Tropical Countries Galih Nugroho, Albert Linton Charles
FS010-P	A Natural Vegi Fruit & Herb Essence Protects Against Physical Fatigue and Improves Exercise Performance in mice Deh-Wei Tang, Hsin-Hung Lin, Chin-Pin Hsu, Jie-Yin Leang, Ying-Chu Wang, Shu-Hui Lin, Chi-Chang Huang, Chih-Chun Wen
FS011-P	Effect of Maltose and Sucrose Extracts from Purple Jade Sweet Potato on Thermal Stability and Antioxidant Properties Jhih-Ying Ciou, Albert Linton Charles, Jenq-Sheng Chang, Pei-Pei Lin, Hsin-Hung Lin
FS012-P	Studies with Banana Replaced the Mainly Carbon Source of <i>Antrodia camphorate</i> Liquid Culture Medium Pomin LI, Chingwei LEE, Yi-Hsiao Lu



Poster Abstracts		AGRICULTURE ENGINEERING
AE001-P	Characterization and Germination Results of <i>Cryptomeria japonica</i> Waste Pyrolyzed at Different Temperatures	Odette Varela Milla, Shin-Shien Liu, Wu- Jang Huang
AE002-P	Preliminary Study on the Enhanced Degradation of Rice Husk Biochar in Soil	Chia-Hung Yang, Odette Varela Milla, Wu-Jang Huang
AE003	Preliminary Study of MHD Journal Bearing in Agricultural Machinery	Y.M. Li and J.C. Leong
AE004-P	Effects of Sawdust Biochar on Soil Microbial Community	Katherine Caballero, Susana Lin, Wu-Jang Huang
AE005-P	Impact of <i>Cryptomeria japonica</i> Biochar on Soil Carbon Dioxide (CO₂) Emissions	Ansumana Njie, Odette Varela Milla, Wu-Jang Huang
AE006-P	Physiological Response of Rice Cultivars under Alternative Wetting and Drying	Modou A. sowe, Simon Jatta, Y-min Wang
AE007-P	Techniques of Soil Suction Measurement for Unsaturated Clayey Soils	Shu-Rong Yang
AE008 P	Effect of Socio-Economical Determinants in Improving Small Scale Irrigation Water Productivity in Climate Adaptation in Sahel	Seydou Traore , Laeticia Kabore, Wang Yu-Min, Aime Severin Kima
AE009-P	Climate Change Perception Signal: From Farmers Viewpoint to Local Practices in BurkinaFaso	Seydou Traore, Laeticia Kabore, Wang Yu-Min, Aime Severin Kima
Poster Abstracts		ANIMAL SCIENCE
ASA001-P	Infertility Control of the Genetically Modified Zebrafish by KillerRed-Mediated Gonadal Dysgenesis	Ying-Yan Jiang, Shao-Yang Hu
ASA002-P	Studies on the Antimicrobial Effect of Liposome-Emulsified Cinnamaldehyde Against to Aquatic Pathogens	Elok Ning Faikoh, Shao-Yang Hu
ASA003-P	A Study of the Morphology and Population Dynamics of Two Native Species of Mitten Crab of Taiwan, <i>Platyriocheir formosa</i> and <i>Eriocheir japonica</i>	Dai-Shion Hsiung, Mei-Chen Tseng
ASA004-P	The Reproductive Performance in Homozygous Genotypes of Taiwan Chickens	Hsiao-Mei Liang, Mao-Chiuan Lin, Shann-Ren Kang, Cheng-Yung Lin, Chih-Hua Wang
ASA005-P	Effects of Coenzyme Q10 on Mesenchymal Stem Cells in Porcine	Fang Wei Tse, Lin Sheng Chuan, Wang Chia Hsien, Hsuuw Yan Der
ASA006-P	Platelet-Rich Fibrin Modulation on Proliferation of Mesenchymal Stem Cells in Porcine	Wang Chia Hsien, Lin Sheng Chuan, Fang Wei Tse, Hsuuw Yan Der
ASA007-P	Effect of Dietary Replacement of Fish Meal with Algae Single Cell Protein on Growth Performances, Nutrient Utilization and Blood Lipids in Broilers	Y. C. Huang, H. H. Hsieh



ASA008-P	Effect of Dietary Replacement of Fish Meal with Algae Single Cell Protein on Growth Performances, Carcass Characteristics and Blood Lipids of Black Native Chicken Y. C. Huang, H. H. Hsieh
ASA010-P	The Effect of Dioxin Contaminated Feed on the Growth Performance and Serum Biochemistry of Red-Feather Taiwan County Chicken D. Y. Primacitra, W. S. Lin, C. Yu
Poster Abstracts VETERINARY MEDICINE	
VM001-P	N-glycosylated Membrane Proteomics of Hepatoma Cell Lines Chuan-Pao Shih, Jue-Liang Hsu
VM003-P	Effects of High Dose Inulin Treatment on Immunological Parameters and Intestinal Microflora of Pigeon (<i>Columba livia</i>) Asri Nurul Huda, Hendrawan Soetanto, Tzou-Chi Huang
VM004-P	<i>Salmonella</i> Induces Caspase-Independent Apoptosis Pathway Chi-ya Wang, Ming-Huei Liao, Ching-Dong Chang, Tsung-Chou Chang, Yi-Fang Wei, Chao-Ming Yang, Hung-Yi Wu
VM005-P	The Current Epidemiology of <i>Mycobacterium avium</i> subsp. <i>paratuberculosis</i> of Ruminants in Taiwan Wai-How Chong, Yao-Chi Su
VM006-P	Acid-cleavable Detergents for Membrane Proteome Analysis Kun-Hui Huang, Jue-Liang Hsu
Poster Abstracts AGRIBUSINESS MANAGEMENT	
AM001-P	Why do Taiwanese Farmers Adopt Organic Farming Practices? Daniel T. Dhladhla
AM002-P	Comparative Analysis of the Profitability between Polyculture Business and Agriculture Business – Case study in Sidoarjo, Indonesia Lina Asmara Wati, Wen-I Chang, Agus Tjahjono
AM003-P	Red Onion (<i>Allium ascalonicum</i> L.) Farming Agribusiness and Efficiency Marketing Analysis Case Study at Junrejo Village in Batu City of Junrejo Subdistrict Andrean Eka Hardana, Abdul Wahib M, Wisynu Ari G
AM004-P	Partial Analysis of Technology Component Transformation Based on Technical Efficiency on Rice Field Farming System by Using PTT Approach (Integrated Plant and Resource Management) in the Buru District, Maluku Province, Indonesia <u>Ismatul Hidayah</u> , Durrotul 'Ain