

Volume1 No.1 November 1995

CONTRIBUTED PAPERS

Innovative Approach to Sustainable Agriculture

Selected papers from the International Seminar on Experiences in Sustainable Agriculture in Southeast Asia : Innovative Approach to Sustainable Agriculture (ESA-III" 94), November 9-12, 1994, Khon Kaen, Thailand. The Japan Society for Promotion of Science; The National Research Council of Thailand; Tokyo University of Agriculture; Khon Kaen University

The Niche of Fish and Shellfish in Thale Sap Songkhla, Southern Thailand <i>Saowapa Angsupanich</i>	...40
Application of Polder System to the Improvement and the Management for Barren Saline Lands <i>Bubpha Topark-ngarm and Jiro Sugi</i>	...56
Soil Microorganisms for Sustainable Agriculture <i>Tomio Yoshida</i>	...62
Land Use for Sustainable Agriculture: Protection of Sloping Land from Hazards, Salinization, Erosion, Using the Agro-forestry System <i>Rokuro Yasutomi</i>	...72

Volume2 No.1-2 November 1996

Contents

Plant Regeneration from Mesophyll Protoplasts of Gloxinia <i>Kamnoon Kanchanapoom and Mayuree Wuttisit</i>	....1
Paclobutrazol and Ethephon in Influencing Flowering and Leaf Flushing of Lychee Cultivar Hong Huay <i>Tawatchai Chaitrakulsub, Suranant Subhadrabandhu and Ryosuke Ogata</i>	...12
Correlations Among Some Canopy Structures, Total Dry Matter and Yield Per Plant in F ₁ and F ₂ Soybeans <i>D. Karladee and W. Sorajjapinun</i>	...24
Protein Content and Amino Acid Composition of Tempe Prepared from Beans of Various Origins with Different Seed Molds <i>Yukiko Negishi and Tatsuyuki Sugahara</i>	...30
Enzyme Stabilizing and Recycling in Dextrinization of Corn Starch	...43

<i>T. Murugapoopathy and S. Varavinit</i>	
Utilization of The Feces Sludge from the Swine Farm for Rice Production in the Problem Solis in Thailand <i>Jun Murase, Roongnapa Korpraditskul, Yongyuth Osotsapar and Vichai Korpraditskul</i>	...54
Contents and Mineralization of Different froms Organic Nitrogen in Tropical Peat Soils in Thailand <i>Jiraval Pechayapisit and Koyo Yonebayashi</i>	...72
Comparision in Internal Transcribed Spacer of Ribosomal RNA of Fasciola Gigantica From Indonesian Domestic Animals <i>Kurniasih and Stephen C Barker</i>	...79

Volume3 No.1-2 October 1997

Contents

A Mechanism of Acquiring Chilling Tolerance in Horticultural Crops by Exposure to High Temperature Stress <i>Tomoaki Matsuo and Yoshihide Shitomi</i>	....1
Prospect of the Utilization of Renewable Energy Sources for Cool Storage of Tropical Fruits <i>Kamaruddin Abdullah</i>	...12
Optimizing Milled Rice Quality through Energy Input, Milling Process and Parboiling <i>Gazali Ismal, Hadi S., Zuraida Z. and Nurhaida Hamzah</i>	...27
Agriculture and Agribusiness in the National Economy: Indonesia <i>Hardjanto Wiryokusumo</i>	...38
Agriculture and Agribusiness in the Malaysian Economy <i>Mohd. Ghazali Bin Mohayidin</i>	...61
Agriculture and Agribusiness Development in Thailand During 1980's-1996's <i>Chaiwat Konjing</i>	...76
Emerging Agri-food Trade Patterns between Canada and Southeast Asia <i>George Kennedy and James Vercaammen</i>	..101
Development of Food Processing Industry in Asian Countries: with Special Reference to Foreign Direct Investment by Japanese Firms <i>Keishiro Itagaki</i>	..120
Taiwan's Involvement in Southeast Asian Agribusiness	..133

<i>Tso-Kwei Peng</i>	
U.S. Southeast Asia Agribusiness Trade and the Emerging Global Agri-food System <i>H. Christopher Peterson, David B. Schweikhardt and Michael C. Masterovsky</i>	..153
Thailand's Food Processing Industry and Its Impact on Agricultural Production <i>Kasem Nantachai</i>	..179
Challenges in the Processing and Commercial Exploitation of Oil Palm (<i>Elaeis guineensis</i> , Jacq) Fibres into High Value Added Composite Products <i>Jalaluddin Harun</i>	..195

Volume4 No.1 June 1998

Contents

Higher Education in Indonesia and Its Relation to Agriculture <i>Kamaruddin Abdullah</i>	....1
Agricultural Education for Sustainable Development in the Philippines <i>Priscilla C. Sanchez and Louie A. Divinagracia</i>	...11
Agricultural Education in Malaysia: Future Challenges <i>Kamis Awang</i>	...18
Restructuring Agricultural Education in Japan: the Case of Tokyo University of Agriculture <i>Toshiro Matsuda</i>	...24
Agricultural Education in Thailand: New Approach <i>Suree Bhumibhamon</i>	...32
Effects of Vitamins E and C on Spawning and Fry Survival of Walking Catfish, <i>Clarias batrachus</i> L. <i>Wit Tarnchalanukit, Wiang Chuapoehuk and Prathaks Tabthipwon</i>	...37
Peroxidase Isozyme Patterns of Some Sweet Tamarind (<i>Tamarindus Indica</i> L.) Varieties in Thailand <i>Suranant Subhadrabandhu and Sawanee Suriyapananont</i>	...43
Callus Induction and Plant Regeneration in Kalanchoe for Transformation by <i>Agrobacterium tumefaciens</i> <i>Akimori Hamasaki, Hidenari Shioiri, Masayuki Nozue and Mineo Kojima</i>	...57
Forms and Distribution of Heavy Metals in Soils Long-Term Applied with Sewage Sludge	...81

<i>Salas, F.M., M. Chino, S. Goto, T. Igarashi, H. Masujima and K. Kumazawa</i>	
Agribusiness Performance in a Changing Economic Environment: The Philippine Case	...99
<i>Liborio S. Cabanilla</i>	

Volume4 No.2 November 1998

Contents

Agriculture and Agribusiness in Malaysia under Structural Economic Transformation	....1
<i>Mad nasir Shamsudin and Mohd. Ghazali Mohayidin</i>	
Development of Malaysian Agricultural Sector Analysis Model	...23
<i>Mad Nasir Shamsudin, Alan J. Webb and Kim Hjort</i>	
Philippines Agribusiness under Strutral Economic Change	...38
<i>Louie A. Divinagracia and Ma. Rochelle G. Divinagracia</i>	
Bioeconomic Approach to Investment and Regulatory Policy Formulation for Fish Culture in Lake-Based Ecosystems in the Philippines	...54
<i>Reynaldo L. Tan, Teizo Higuchi and Tetsushi Homma</i>	
The Roles of Contract Farming in Agricultural Transition in Thailand	...74
<i>Aree Wiboonpoongse, Songsak Sriboonchitta, Phrek Gypmantasiri and Kusol Thong-ngam</i>	
Interspecific Hybridization of Mungbean (<i>Vigna radiata</i> (L.) Wilczek) and Related <i>Vigna</i> Species Using Embryo Rescue Techniques	...98
<i>Sumana Ngampongsai, Peerasak Srinives, Siranut Lamseejan and Surin Peyachoknagul</i>	
Hormonal Control of Differentiation of Callus, Shoots and Roots in Hypocotyl, Cotyledonary and Shoot Tip Culture of Water Melon	..105
<i>Kamnoon Kanchanapoom, Jutaporn Kerdpol and Patamporn Wangchai</i>	
Stimulation of Egg Production in Thai Indigenous Chickens by Separation of the Hen from Her Brood	..115
<i>Kreingkrai Choprakarn, Sarote Khacharoen, Kanok Phalarask, Cherdchai Ratanasetthakul and Worapong Suriyajantratong</i>	
Involvement of Thai Fruit in Japanese Market	..123
<i>Ikuo Kataoka and Suranant Subhadrabandhu</i>	
Farmers' Knowledge of Insecticides and Their Observance of "Recommended Practices" In Southern Thailand	..131
<i>Kriengsak Pattamarakha, Jitpaka Tanapanyarachwong, Jiraporn Petcharat</i>	

<i>and Taweeporn Buathong</i>	
-------------------------------	--

Volume5 No.1-2 November 1999

Contents

Sythetic Dietary Fiber Procuced from Jasmine Rice Starch <i>S. Varavinit, S. Shobsngob and C. Hansawasdi</i>	....1
Physio-chemical and Quality Changes during Strpge in Young Cob Corn (<i>Zea mays</i> L. var. <i>rugosa</i>) I. With Husk during High Temperature Storage <i>Thawatchai Chinnawong and Ofelia K. Bautista</i>	...10
Physio-chemical and Quality Changes during Strpge in Young Cob Corn (<i>Zea mays</i> L. var. <i>rugosa</i>) II. Without Husk at Modified Atmosphere <i>Thawatchai Chinnawong and Ofelia K. Bautista</i>	...19
Production of Sugar From the Nipa Palm in Pak Phanang Basin, Southern Thailand <i>Noparat Bamroongrugsa and Narit Kaewsinuan</i>	...34
Finding Development Strategies for Animal Raising in the Three Southernmost Provinces in Thailand <i>Pin Chunjula, Somchai Khorvanitchakij and Kriengsak Pattamarakha</i>	...40
On-Farm Trial on the Performances of Crossbreeding Goats and Investigation of the Productivities of Crossbred Fl Goats in Thainguyen Province, North Vietnam <i>Nguyen Dinh Minh</i>	...54
Improvement of Bio-Functions by Genetic Engineering <i>Masashi Ugaki</i>	...66
Import Trend of Foods and Agricultural Products and Its Impact on Agriculture and Agribusiness in Japan <i>Keishiro Itagaki</i>	...83
Comparative Study on Rice-Eating Habit in Different Countries: Focused on Japan, China, Spain and France <i>Keiko Hatae</i>	...101
Entrepreneurial Development of Small Farms in the Philippines <i>Louie A. Divinagracia and Ma. Rochelle G. Divinagracia</i>	...116
Prospects and Problems of Developing Agricultural Entrepreneurs from among Small Holders in Peninsular Malasia <i>Mahfoor Harron and Mad Nasir Shamsudin</i>	..136
Directions and Prospects for Entrepreneurial Development of Family Farms	..156

in Japan <i>Masayo Igata and Akimi Fujimoto</i>	
Roles and Problems of Large Scale Agricultural Production Firms: The Case of Land Development Schemes and Plantation Companies in Malasia <i>Abu Hassan bin Md Isa</i>	..175

Volume6 No.1 June 2000

Contents

Analysis of <i>cryI</i> -Type Genes of <i>Bacillus thuringiensis</i> Isolates from Silkworm Environment and the Insecticidal Activity against the Cotton Bollworm, <i>Helicoverpa armigera</i> <i>Ratchanee Siriyan and Tipvadee Attathom</i>	....1
A Study of the Pharmacokinetic Behaviors and Withdrawal Times of Sulfamonomethoxine, Sulfadiazine and Sulfamethazine in Healthy Ducks <i>Annart Poapolathep, Naruamol Klangkaew and Napasorn Phaochoosak</i>	...15
Communication Structure of Dairy Cattle Credit in West Java, Indonesia <i>Richard Lumintang, Rachmat Pambu</i>	...23
Research and Extension Linkage in Thailand <i>Kreingsak Pattamarakha</i>	...34
Production of Safe Food to Meet the Global Need and Market: An Indonesian Experience <i>Kamaruddin Abdullah and Hanny Wijaya</i>	...54
Production of Safe Food to Meet the Global Need and Market: Lesson Learn from Japan <i>Izuru Yamamoto</i>	...58

Volume6 No.2 November 2000

Contents

Comparison of Single Cropping, Intercropping and Relay Cropping of Corn with Cowpea under Rainfed Condition in an Upland Area of Northeastern Thailand <i>Anan Polthanee and Surachet Butchareon</i>	....1
Establishment of Sustainable Cropping Patterns in the Transmigration Areas in South Sumatra, Indonesia <i>Wayan Sabe Ardjasa, Ho Ando and Makoto Kimura</i>	...13

Chemical Basis for the Population Reduction of the Asian Corn Borer on Corn Entwined with <i>Ipomoea triloba</i> L.. <i>S. M. F. Calumpang, J.r. Medina, K. Ohsawa, T. Mitsui and H. Honda</i>	...28
<i>In Vitro</i> Culture of the Banana <i>Musa</i> (AAA Group, "Gros Michel") "Kluai Hom Thong" Shoot Tip <i>Kamnoon Kanchanapoom and Nongnat Chanadang</i>	...43
Development of Mechanical Rice Transplanters in the Philippines <i>Caesar Joventino M. Tado, Ricardo F. Orge, Eulito U. Bautista, Alexis C. del Rosario and Reynaldo M. Lantin</i>	...53

Volume7 No.1 June 2001

Contents

Introduce of Biopesticide to Control Banana Wilt Disease <i>Nyoman Arya, Dewa Ngurah Suprpta, and Made Sudana</i>	....1
Application of Plant Extracts to Control Ceratocystis Fruit Rot in Snake Fruit (<i>Salacca edulis</i>) <i>Dewa Ngurah Suprpta, Made Sudana, and Nyoman Arya</i>	...10
Effectiveness of Chitin as Seed Treatment in Inducing Resistance of Peanut against <i>Cercospora</i> Early Leaf Spot <i>Tarkus Suganda and Endah Yulia</i>	...17
Downy Mildew Disease of Maize in Indonesia: Problem, Research and Solving <i>Wasmo Wakman</i>	...22
Variability in Resistance to Fungicides of Isolates of the Plant Pathogen, <i>Sclerotinia minor</i> , and its <i>Mycoparasites</i> , <i>Trichoderma virens</i> and <i>Coniothyrium minitans</i> <i>Mulat Isnaini and Philip J. Keane</i>	...33
Water-Soluble Aluminum Concentration of Soil and Control of Common Scab of Potato by Special Fertilization Method <i>Hozumi Yoshida, Teruyuki Komatsu, Naoharu Mizuno and Kazuo Suyama</i>	...42
Role of Inorganic and Bio-Activators and Raw Material Composition in the Rate of Decomposition and Quality of Coffee Shell Composts <i>Bako Baon, R. Sukasih, Nurkholis and S. Soetanto</i>	...49
Traction Performance of Movable Lug Wheels with Spring Mechanism and Rubber Lug <i>Wawan Hermawan, I Nengah Suastawa, and Dian Sudianto</i>	...58

Development of a Method for Hardpan Layer Construction (TEP-TR) Using Suitable Farm Machinery without Delaying <i>Frans Jusuf Daywin</i>	...68
---	-------

Volume7 No.2 June 2002

Contents

Effect of Protein Levels and Stocking Densities on Performance and Carcass Composition of Thai Indigenous Chickens <i>Kreingkrai Choprakarn, Intr Salangam, Chaliaw Boonman and Wichan Kaewleun</i>	....1
Pharmacokinetic and Withdrawal Times of Penicillin-G in Ducks by Microbiological Assay Amnart Poapolathep, Malinee Limpoka, Naruamol Klangkaew, Natthasit Tansakul, Napasorn Phaochoosak and Wanida Passadurak	....9
Reduced Fat, Added Konjac Gel Pork Sausage as Affected by Chopping Times <i>Adisak Akesowan</i>	...17
Genetic Analysis of Photoperiod-Sensitivity, Flowering and Maturity Response in Mungbean (<i>Vigna radiata</i> (L.) Wilczek) <i>G. Khattak, M., Haq, M., Ashraf, P. Srinives and E. Manual</i>	...31
Characterization and Variation in RAPD Marker Profiles of Exotic Soybean [<i>Glycine max</i> (L.) MERR.] Cultivars <i>A.K. Chowdhury, P. Srinives, P. Tongpamnak and P. Saksoong</i>	...37
Anther Orientation and Its Influence on Anther Culture of Papaya (<i>Carica papaya</i> L.) <i>Kamnoon Kanchanapoom and Wipawee lampinit</i>	...53
Rehabilitation of Post-Tin Mine Land in Thailand <i>Pongsak Sahunalu</i>	...60
Study on Physical and Hydraulic Properties of Major Soil Series in Northeast, Thailand <i>Vidhaya Trelo-ges and Vichai Sriboonlue</i>	...73
Yield and Quality of Three Grass Species Intercropped with <i>Leucaena leucocephala</i> <i>Sayan Tudsri, Yasuyuki Ishii, Hirotsugu Numagushi and Somkiert Prasanpaich</i>	...83

Volume8 No.1 2002

Foreword

Reevaluation of Ethno-Agriculture -New Viewpoint on Southeast Asian Agricultural Research- <i>Isoya Shinji</i>	....1
A Message from the Editor-in-Chief <i>Keishiro Itagaki</i>	....4

Invited Papers

Toward Sustainable Agriculture - Policy Reform in Japan- <i>Mitsugi Kamiya</i>	....6
Renewable Energy for Sustainable Rural Development <i>Kamaruddin Abdullah</i>	...20

Contributed Papers

<i>Pometia pinnata</i> Leaves Extract to Control Late Blight Disease in Potato <i>Dewa Ngurah Suprata, I. G.A. N.Anggreni Suwari, Nyoman Arya and Kanju Ohsawa</i>	...31
Evaluation of Bacterial Antagonists to Control Wilt Disease of Tomato <i>Nyoman Arya, D.N.Suprata, Cede Rai maya Temaja, K.Suyama</i>	...37
Technology and Economic Performance of Organic Vegetable Farming in the Philippines A Case Study of Lettuce Production in Cavite <i>Nina Nocon, Rie Miyaura and Akirni Fujimoto</i>	...46
NEWS from ISSAAS Head Office	...64
Special Announcement for Symposium of the International Society for Southeast Asian Agriculture Sciences	...73
Information to Authors for Publishing Papers in the Journal of the International Society for Southeast Asian Agriculture Sciences (ISSAAS)	...74
Constitution of the International Society for Southeast Asian Agricultural Sciences	...79

Volume8 No.2 2002

Growth and Yield of Mungbean Cultivars in Mungbean Corn Relay1
---	-------

Intercropping Systems <i>Anan Polthanee and Vidnaya Trelo-ges</i>	
Betong Chicken Raising in Southern Thailand-A Preliminary Survey <i>Pin Chunjula and Kriengsak Pattamarakha</i>	...14
Challenges and Prospects for the Philippines Landscape Architecture Science Profession <i>Fernando C. Sanchez, Jr., Toshitaro Minomo and Tadakazu Kanekov</i>	...25
Establishment of Homogardens (Pekarangan) by Transmigrants in South Kalimantan, Indonesia <i>Yukihiro Hayashi</i>	...47
Indonesian Farmer Adoption of a Stratified Forage System Technology <i>Ida Bagus Sutrisna</i>	...63
Status of Integrated Pest Management for Rice and Vegetables in the Philippines <i>Felicitos V. Palis and Mario V. Perilla</i>	...72

ISSAAS 2002 Open Symposium Establishing Food Safety in Southeast Asia Abstracts	..101
ISSAAS 2002 Scientific Meeting Abstracts	..113

Volume9 No.1 June 2003

Invited Papers

Food Import and its Safety in Japan <i>Keishiro Itagaki</i>	....1
Public Awareness and Regulatory Systems for Food Safety in the Philippines <i>Mario V. Perilla</i>	....8
Production of Safe Food in China <i>Toru Hayashi and Zai-Gui Li</i>	...23
Post-harvest Technology for Food Safety in Tropical Asia: Problems in Aflatoxin Control with Maize Production in Asian Countries <i>Koji Kawashima</i>	...36
Agricultural Practices for Recycling Tropical Resources in Thailand: A Case Study of the Royal Project Foundation <i>Santhad Rojanasoonthon</i>	...47

Contributed Papers

The Detection of <i>Yersinia enterocolitica</i> in Chicken and Swine in Thailand <i>Sumalee Boonmar, Aroon Bangtrakulnonth, and Ken-ichi Kaneko</i>	...55
Chemical Characterization of Soil and Control of Potato Common Scab by Special Fertilization Method in Vietnam <i>Dang Thi Dung, Hozumi Yoshida and Kazuo Suyama</i>	...60
Bactericidal Activity of <i>Sphaeranthus indicus</i> Extract Against <i>Ralstonia solanacearum</i> in Tomato <i>Dewa Ngurah Suprata, IB. Gede Darmayasa, Nyoman Arya Temaja and Kanju Ohsawa</i>	...68
Comparison of the Citrus Scab Fungi Originating from Vietnam and Japan <i>Hiromitsu Negishi, Tsuyoshi Ono and Kazuo Suyama</i>	...75
Culture of Cells from the Diamondback Moth, <i>Plutella xylostella</i> Linn., Embryos <i>Jun Mitsuhashi</i>	...86
From Rice to Clean Vegetables: Agricultural Transformation in a Suburban Commune of Hanoi, Vietnam <i>Akimi Fujimoto and Vu Dinh Hoa</i>	...96
Response of Isogenic Lines of Rice (<i>Oryza sativa</i> L.) with Different Semidwarfing Alleles of SD-1 Locus to Some Growing Conditions <i>Kaihei Koshio, K Tachibana, Hidekazu Toyohara, Fumio Kikuchi and Hiroshi Fijimaki.</i>	..119
The Effect of Insecticides on Populations of Diamondback Moth, <i>Plutella xylostella</i> (Lepidoptera: Yponomeutidae) and its Parasitoid, <i>Diadegma semiclausun</i> (Hymenoptera: Ichneumonidae) in Cabbage <i>W. Susila, K Sumiartha, Hisashi Nemoto and Shozo Kawai.</i>	..132
Hedonic Analysis of Officed Price of Mango: Implications for Thai Mango in Kunming Market <i>Aree Wiboonpongse, Songsak Sriboonchitta and Tongjit Pongpiajun</i>	..139
NEWS from ISSAAS Head Office	..155
Special Announcement for the Symposium of the International Society for Southeast Asian Agricultural Sciences	..161